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Cover Page

Order ID : Q1502

Project ID : NJ Waste Water PT

Client : Alliance Technical Group, LLC - Newark

Lab Sample Number	Client Sample Number
Q1502-01	PT-VOA-WP
Q1502-02	PT-VOA-WP
Q1502-03	PT-BN-WP
Q1502-04	PT-BN-WP
Q1502-05	PT-BN-WP
Q1502-06	PT-ACIDS-WP
Q1502-07	PT-ACIDS-WP
Q1502-08	PT-ACIDS-WP
Q1502-09	PT-PEST-WP
Q1502-10	PT-PEST-WP
Q1502-11	PT-CHLR-WP
Q1502-12	PT-CHLR-WP
Q1502-13	PT-TXP-WP
Q1502-14	PT-TXP-WP
Q1502-15	PT-PCBW-WP
Q1502-16	PT-PCBW-WP
Q1502-17	PT-HERB-WP
Q1502-18	RR-GAS-WP
Q1502-19	RR-DIES-WP
Q1502-20	RR-8011-WP
Q1502-21	RR-PAH-WP
Q1502-22	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 : _____

Date: 3/22/2025

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
Chemtech Project # Q1502
Test Name: VOCMS Group1

A. Number of Samples and Date of Receipt:
21 Water samples were received on 03/05/2025.
1 Water sample was received on 03/11/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Diesel Range Organics, Gasoline Range Organics, Herbicide group1, PCB, PESTICIDE Group1, PESTICIDE Group2, PESTICIDE Group3, SVOCMS Group1, SVOCMS Group2, SVOCMS Group3, SVOCMS Group4, SVOCMS Group5, SVOCMS Group6, VOCGC Group 1 and 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#121-1324UIThe analysis of VOCMS Group1 was based on method 624.1,8260D.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The RPD met criteria .

The Blank Spike for {VX0319WBS01} with File ID: VX045341.D met requirements for all samples except for Carbon disulfide[73%], Failing but no positive hit in Associated samples.

The Blank Spike Duplicate for {VX0319WBSD01} with File ID: VX045342.D met requirements for all samples except for Carbon disulfide[68%], Failing but no positive hit in Associated samples.

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

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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 <35% 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 > 35% for the Initial Calibration curve for SW-846 analysis.

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

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

Signature_____

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DATA REPORTING QUALIFIERS- ORGANIC

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

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

ALLIANCE 284 Sheffield Street, Mountainside New Jersey 07092

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

GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: Q1502 MATRIX: Water

METHOD: 624.1,8260-Low

		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 Initial Calibration met the requirements . The Continuous Calibration met the requirements.		✓	
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 for {VX0319WBS01} with File ID: VX045341.D met requirements for all samples except for Carbon disulfide[73%],Failing but no positive hit in Associated samples. The Blank Spike Duplicate for {VX0319WBSD01} with File ID: VX045342.D met requirements for all samples except for Carbon disulfide[68%],Failing but no positive hit in Associated samples.		✓	
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 <35% 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 > 35% for the Initial Calibration curve for SW-846 analysis.

_____ _____

QA REVIEW Date

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: **Q1502**

	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:** **03/24/2025**

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LAB CHRONICLE

OrderID:	Q1502	**OrderDate:**	3/6/2025 10:04:07 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
Q1502-01	**PT-VOA-WP**	**Water**			**03/03/25**			**03/05/25**
			VOCMS Group1	8260-Low			03/11/25	
Q1502-02	**PT-VOA-WP**	**Water**			**03/03/25**			**03/05/25**
			VOCMS Group1	624.1			03/19/25	

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Hit Summary Sheet
SW-846

SDG No.: Q1502

Client: Alliance Technical Group, LLC - Newark

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	**PT-VOA-WP**							
Q1502-02	PT-VOA-WP	Water	Bromomethane	67.0		0.80	5.00	ug/L
Q1502-02	PT-VOA-WP	Water	Trichlorofluoromethane	89.0		0.80	5.00	ug/L
Q1502-02	PT-VOA-WP	Water	1,1-Dichloroethene	87.4		0.76	5.00	ug/L
Q1502-02	PT-VOA-WP	Water	Acetone	160		4.60	25.0	ug/L
Q1502-02	PT-VOA-WP	Water	Methyl tert-Butyl Ether	53.7		0.77	5.00	ug/L
Q1502-02	PT-VOA-WP	Water	Methylene Chloride	50.7		0.86	5.00	ug/L
Q1502-02	PT-VOA-WP	Water	trans-1,2-Dichloroethene	77.3		0.82	5.00	ug/L
Q1502-02	PT-VOA-WP	Water	2-Butanone	44.9		2.00	25.0	ug/L
Q1502-02	PT-VOA-WP	Water	Carbon Tetrachloride	31.8		0.74	5.00	ug/L
Q1502-02	PT-VOA-WP	Water	cis-1,2-Dichloroethene	110		0.80	5.00	ug/L
Q1502-02	PT-VOA-WP	Water	Chloroform	72.4		0.55	5.00	ug/L
Q1502-02	PT-VOA-WP	Water	Benzene	120		0.45	5.00	ug/L
Q1502-02	PT-VOA-WP	Water	1,2-Dichloroethane	39.5		0.50	5.00	ug/L
Q1502-02	PT-VOA-WP	Water	Trichloroethene	53.9		0.49	5.00	ug/L
Q1502-02	PT-VOA-WP	Water	1,2-Dichloropropane	80.8		0.46	5.00	ug/L
Q1502-02	PT-VOA-WP	Water	Dibromomethane	110		0.59	5.00	ug/L
Q1502-02	PT-VOA-WP	Water	Bromodichloromethane	16.9		0.64	5.00	ug/L
Q1502-02	PT-VOA-WP	Water	4-Methyl-2-Pentanone	140		3.00	25.0	ug/L
Q1502-02	PT-VOA-WP	Water	Toluene	110		0.46	5.00	ug/L
Q1502-02	PT-VOA-WP	Water	t-1,3-Dichloropropene	74.0		0.72	5.00	ug/L
Q1502-02	PT-VOA-WP	Water	cis-1,3-Dichloropropene	54.7		0.67	5.00	ug/L
Q1502-02	PT-VOA-WP	Water	2-Hexanone	160		3.20	25.0	ug/L
Q1502-02	PT-VOA-WP	Water	Tetrachloroethene	120		0.84	5.00	ug/L
Q1502-02	PT-VOA-WP	Water	Chlorobenzene	120		0.47	5.00	ug/L
Q1502-02	PT-VOA-WP	Water	1,1,1,2-Tetrachloroethane	110		0.62	5.00	ug/L
Q1502-02	PT-VOA-WP	Water	Ethyl Benzene	36.1		0.56	5.00	ug/L
Q1502-02	PT-VOA-WP	Water	Total Xylenes	223		1.97	15.0	ug/L
Q1502-02	PT-VOA-WP	Water	m/p-Xylenes	72.5		1.30	10.0	ug/L
Q1502-02	PT-VOA-WP	Water	o-Xylene	150		0.67	5.00	ug/L
Q1502-02	PT-VOA-WP	Water	Styrene	89.3		0.72	5.00	ug/L
Q1502-02	PT-VOA-WP	Water	1,3,5-Trimethylbenzene	94.0		0.59	5.00	ug/L
Q1502-02	PT-VOA-WP	Water	1,3-Dichlorobenzene	49.4		0.67	5.00	ug/L
Q1502-02	PT-VOA-WP	Water	1,2-Dichlorobenzene	120		0.67	5.00	ug/L
Q1502-02	PT-VOA-WP	Water	Naphthalene	88.7		1.00	5.00	ug/L
			Total Voc :	2850				
			Total Concentration:	2850				

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Hit Summary Sheet
SW-846

SDG No.: Q1502

Client: Alliance Technical Group, LLC - Newark

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units

QC
SUMMARY

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

SDG No.: Q1502

Client: Alliance Technical Group, LLC - Newark

Analytical Method: SW624.1

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
Q1502-02	PT-VOA-WP	1,2-Dichloroethane-d4	30	32.7	109	91	110
		Toluene-d8	30	30.2	101	91	112
		4-Bromofluorobenzene	30	29.9	100	63	112
VX0319WBL01	VX0319WBL01	1,2-Dichloroethane-d4	30	31.2	104	91	110
		Toluene-d8	30	29.5	98	91	112
		4-Bromofluorobenzene	30	28.4	95	63	112
VX0319WBS01	VX0319WBS01	1,2-Dichloroethane-d4	30	32.0	107	91	110
		Toluene-d8	30	31.1	104	91	112
		4-Bromofluorobenzene	30	31.1	104	63	112
VX0319WBSD0	VX0319WBSD01	1,2-Dichloroethane-d4	30	31.9	106	91	110
		Toluene-d8	30	29.6	99	91	112
		4-Bromofluorobenzene	30	30.5	102	63	112

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1502

Client: Alliance Technical Group, LLC - Newark

Analytical Method: SW624.1 **Datafile :** VX045341.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0319WBS01	Dichlorodifluoromethane	20	17.5	ug/L	88			72	118	
	Chloromethane	20	15.2	ug/L	76			1	205	
	Vinyl Chloride	20	15.7	ug/L	79			5	195	
	Ethyl Acetate	20	22.1	ug/L	111			68	140	
	Bromomethane	20	20.1	ug/L	101			15	185	
	Chloroethane	20	16.5	ug/L	83			40	160	
	Trichlorofluoromethane	20	17.5	ug/L	88			50	150	
	1,1,2-Trichlorotrifluoroethane	20	19.2	ug/L	96			64	127	
	1,1-Dichloroethene	20	17.9	ug/L	90			50	150	
	Acrolein	100	100	ug/L	100			60	140	
	Acrylonitrile	100	110	ug/L	110			60	140	
	Acetone	100	120	ug/L	120			41	148	
	Carbon disulfide	20	14.6	ug/L	73		*	76	107	
	Methyl tert-butyl Ether	20	19.1	ug/L	96			82	114	
	Methylene Chloride	20	18.4	ug/L	92			60	140	
	trans-1,2-Dichloroethene	20	17.5	ug/L	88			70	130	
	Vinyl Acetate	100	96.0	ug/L	96			25	181	
	1,1-Dichloroethane	20	18.8	ug/L	94			70	130	
	2-Butanone	100	120	ug/L	120			69	129	
	Carbon Tetrachloride	20	20.4	ug/L	102			70	130	
	2,2-Dichloropropane	20	18.8	ug/L	94			62	139	
	cis-1,2-Dichloroethene	20	18.3	ug/L	92			81	112	
	Chloroform	20	19.6	ug/L	98			70	135	
	1,1,1-Trichloroethane	20	20.8	ug/L	104			70	130	
	1,1-Dichloropropene	20	19.8	ug/L	99			70	139	
	Benzene	20	19.8	ug/L	99			65	135	
	1,2-Dichloroethane	20	22.5	ug/L	113			70	130	
	Trichloroethene	20	19.3	ug/L	97			65	135	
	1,2-Dichloropropane	20	19.3	ug/L	97			35	165	
	Dibromomethane	20	21.0	ug/L	105			72	138	
	Bromodichloromethane	20	20.8	ug/L	104			65	135	
	4-Methyl-2-Pentanone	100	120	ug/L	120			73	131	
	Toluene	20	20.3	ug/L	102			70	130	
	t-1,3-Dichloropropene	20	18.3	ug/L	92			50	150	
	cis-1,3-Dichloropropene	20	18.8	ug/L	94			25	175	
	1,1,2-Trichloroethane	20	20.1	ug/L	101			70	130	
	1,3-Dichloropropane	20	20.7	ug/L	104			70	141	
	2-Chloroethyl vinyl ether	100	130	ug/L	130			1	225	
	2-Hexanone	100	120	ug/L	120			72	128	
	Dibromochloromethane	20	19.9	ug/L	100			70	135	
	1,2-Dibromoethane	20	20.9	ug/L	104			86	114	
	Tetrachloroethene	20	21.1	ug/L	106			70	130	
	Chlorobenzene	20	19.7	ug/L	99			65	135	
	1,1,1,2-Tetrachloroethane	20	19.9	ug/L	100			63	138	
	Ethyl Benzene	20	20.3	ug/L	102			60	140	
	m/p-Xylenes	40	40.4	ug/L	101			87	111	
	o-Xylene	20	20.2	ug/L	101			87	111	
	Styrene	20	19.5	ug/L	98			85	106	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1502

Client: Alliance Technical Group, LLC - Newark

Analytical Method: SW624.1 **Datafile :** VX045341.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0319WBS01	Bromoform	20	19.4	ug/L	97			70	130	
	Isopropylbenzene	20	20.5	ug/L	103			86	112	
	1,1,2,2-Tetrachloroethane	20	21.3	ug/L	106			60	140	
	1,2,3-Trichloropropane	20	21.6	ug/L	108			61	148	
	Bromobenzene	20	19.0	ug/L	95			59	142	
	N-propylbenzene	20	20.3	ug/L	102			67	139	
	2-Chlorotoluene	20	20.3	ug/L	102			66	138	
	1,3,5-Trimethylbenzene	20	20.5	ug/L	103			66	139	
	4-Chlorotoluene	20	19.8	ug/L	99			66	141	
	1,2,4-Trimethylbenzene	20	19.8	ug/L	99			63	142	
	Sec-butylbenzene	20	20.2	ug/L	101			63	144	
	p-Isopropyltoluene	20	20.0	ug/L	100			57	147	
	1,3-Dichlorobenzene	20	19.4	ug/L	97			70	130	
	1,4-Dichlorobenzene	20	19.0	ug/L	95			65	135	
	n-Butylbenzene	20	19.4	ug/L	97			49	157	
	1,2-Dichlorobenzene	20	19.6	ug/L	98			65	135	
	1,2-Dibromo-3-Chloropropane	20	21.9	ug/L	110			69	122	
	1,2,4-Trichlorobenzene	20	18.5	ug/L	93			61	118	
	Hexachlorobutadiene	20	19.9	ug/L	100			16	187	
	Naphthalene	20	19.3	ug/L	97			45	152	
	1,2,3-Trichlorobenzene	20	18.6	ug/L	93			38	159	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1502

Client: Alliance Technical Group, LLC - Newark

Analytical Method: SW624.1 **Datafile :** VX045342.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0319WBSD01	Dichlorodifluoromethane	20	15.1	ug/L	76	15		72	118	20
	Chloromethane	20	15.4	ug/L	77	1		1	205	20
	Vinyl Chloride	20	14.4	ug/L	72	9		5	195	20
	Ethyl Acetate	20	21.9	ug/L	110	1		68	140	20
	Bromomethane	20	19.4	ug/L	97	4		15	185	20
	Chloroethane	20	15.0	ug/L	75	10		40	160	20
	Trichlorofluoromethane	20	16.0	ug/L	80	10		50	150	20
	1,1,2-Trichlorotrifluoroethane	20	17.7	ug/L	89	8		64	127	20
	1,1-Dichloroethene	20	16.3	ug/L	81	11		50	150	20
	Acrolein	100	88.7	ug/L	89	12		60	140	20
	Acrylonitrile	100	110	ug/L	110	0		60	140	20
	Acetone	100	100	ug/L	100	18		41	148	20
	Carbon disulfide	20	13.5	ug/L	68	7	*	76	107	20
	Methyl tert-butyl Ether	20	18.6	ug/L	93	3		82	114	20
	Methylene Chloride	20	17.8	ug/L	89	3		60	140	20
	trans-1,2-Dichloroethene	20	16.7	ug/L	84	5		70	130	20
	Vinyl Acetate	100	98.5	ug/L	99	3		25	181	20
	1,1-Dichloroethane	20	17.9	ug/L	90	4		70	130	20
	2-Butanone	100	120	ug/L	120	0		69	129	20
	Carbon Tetrachloride	20	19.8	ug/L	99	3		70	130	20
	2,2-Dichloropropane	20	18.0	ug/L	90	4		62	139	20
	cis-1,2-Dichloroethene	20	17.3	ug/L	86	7		81	112	20
	Chloroform	20	19.1	ug/L	96	2		70	135	20
	1,1,1-Trichloroethane	20	20.0	ug/L	100	4		70	130	20
	1,1-Dichloropropene	20	19.0	ug/L	95	4		70	139	20
	Benzene	20	19.3	ug/L	97	2		65	135	20
	1,2-Dichloroethane	20	22.7	ug/L	114	1		70	130	20
	Trichloroethene	20	18.6	ug/L	93	4		65	135	20
	1,2-Dichloropropane	20	19.4	ug/L	97	0		35	165	20
	Dibromomethane	20	21.4	ug/L	107	2		72	138	20
	Bromodichloromethane	20	20.7	ug/L	104	0		65	135	20
	4-Methyl-2-Pentanone	100	120	ug/L	120	0		73	131	20
	Toluene	20	18.4	ug/L	92	10		70	130	20
	t-1,3-Dichloropropene	20	18.4	ug/L	92	0		50	150	20
	cis-1,3-Dichloropropene	20	19.4	ug/L	97	3		25	175	20
	1,1,2-Trichloroethane	20	20.8	ug/L	104	3		70	130	20
	1,3-Dichloropropane	20	21.4	ug/L	107	3		70	141	20
	2-Chloroethyl vinyl ether	100	120	ug/L	120	8		1	225	20
	2-Hexanone	100	120	ug/L	120	0		72	128	20
	Dibromochloromethane	20	20.3	ug/L	102	2		70	135	20
	1,2-Dibromoethane	20	21.8	ug/L	109	5		86	114	20
	Tetrachloroethene	20	18.9	ug/L	95	11		70	130	20
	Chlorobenzene	20	19.0	ug/L	95	4		65	135	20
	1,1,1,2-Tetrachloroethane	20	18.9	ug/L	95	5		63	138	20
	Ethyl Benzene	20	18.7	ug/L	94	8		60	140	20
	m/p-Xylenes	40	37.7	ug/L	94	7		87	111	20
	o-Xylene	20	18.9	ug/L	95	6		87	111	20
	Styrene	20	19.1	ug/L	96	2		85	106	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1502

Client: Alliance Technical Group, LLC - Newark

Analytical Method: SW624.1 **Datafile :** VX045342.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0319WBSD01	Bromoform	20	20.7	ug/L	104	7		70	130	20
	Isopropylbenzene	20	19.3	ug/L	97	6		86	112	20
	1,1,2,2-Tetrachloroethane	20	21.4	ug/L	107	1		60	140	20
	1,2,3-Trichloropropane	20	21.2	ug/L	106	2		61	148	20
	Bromobenzene	20	19.4	ug/L	97	2		59	142	20
	N-propylbenzene	20	18.9	ug/L	95	7		67	139	20
	2-Chlorotoluene	20	19.3	ug/L	97	5		66	138	20
	1,3,5-Trimethylbenzene	20	19.3	ug/L	97	6		66	139	20
	4-Chlorotoluene	20	19.0	ug/L	95	4		66	141	20
	1,2,4-Trimethylbenzene	20	19.3	ug/L	97	2		63	142	20
	Sec-butylbenzene	20	19.5	ug/L	98	3		63	144	20
	p-Isopropyltoluene	20	19.1	ug/L	96	4		57	147	20
	1,3-Dichlorobenzene	20	18.9	ug/L	95	2		70	130	20
	1,4-Dichlorobenzene	20	19.0	ug/L	95	0		65	135	20
	n-Butylbenzene	20	18.2	ug/L	91	6		49	157	20
	1,2-Dichlorobenzene	20	18.9	ug/L	95	3		65	135	20
	1,2-Dibromo-3-Chloropropane	20	21.6	ug/L	108	2		69	122	20
	1,2,4-Trichlorobenzene	20	17.7	ug/L	89	4		61	118	20
	Hexachlorobutadiene	20	19.3	ug/L	97	3		16	187	20
	Naphthalene	20	19.1	ug/L	96	1		45	152	20
	1,2,3-Trichlorobenzene	20	17.7	ug/L	89	4		38	159	20

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX0319WBL01

Lab Name: CHEMTECH Contract: ALLI03

Lab Code: CHEM Case No.: Q1502 SAS No.: Q1502 SDG NO.: Q1502

Lab File ID: VX045343.D Lab Sample ID: VX0319WBL01

Date Analyzed: 03/19/2025 Time Analyzed: 12:50

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
VX0319WBS01	VX0319WBS01	VX045341.D	03/19/2025
VX0319WBSD01	VX0319WBSD01	VX045342.D	03/19/2025
PT-VOA-WP	Q1502-02	VX045344.D	03/19/2025

COMMENTS:

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: ALLI03

Lab Code: CHEM Case No.: Q1502 SAS No.: Q1502 SDG NO.: Q1502

Lab File ID: VX045007.D BFB Injection Date: 02/21/2025

Instrument ID: MSVOA_X BFB Injection Time: 09:31

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	21.2
75	30.0 - 60.0% of mass 95	52.5
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.6 (0.8) 1
174	50.0 - 100.0% of mass 95	74.5
175	5.0 - 9.0% of mass 174	5.5 (7.4) 1
176	95.0 - 101.0% of mass 174	71.6 (96.2) 1
177	5.0 - 9.0% of mass 176	4.6 (6.5) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC005	VSTDICC005	VX045008.D	02/21/2025	09:58
VSTDICCC020	VSTDICCC020	VX045009.D	02/21/2025	10:21
VSTDICC050	VSTDICC050	VX045010.D	02/21/2025	10:44
VSTDICC100	VSTDICC100	VX045011.D	02/21/2025	11:07
VSTDICC150	VSTDICC150	VX045012.D	02/21/2025	11:29

Raw Data: **VX045339.D**

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: ALLI03

Lab Code: CHEM Case No.: Q1502 SAS No.: Q1502 SDG NO.: Q1502

Lab File ID: VX045339.D BFB Injection Date: 03/19/2025

Instrument ID: MSVOA_X BFB Injection Time: 10:11

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	23
75	30.0 - 60.0% of mass 95	56.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.8 (1.1) 1
174	50.0 - 100.0% of mass 95	70.6
175	5.0 - 9.0% of mass 174	5.3 (7.5) 1
176	95.0 - 101.0% of mass 174	67.7 (96) 1
177	5.0 - 9.0% of mass 176	4.6 (6.7) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC020	VSTDCCC020	VX045340.D	03/19/2025	10:41
VX0319WBS01	VX0319WBS01	VX045341.D	03/19/2025	11:41
VX0319WBSD01	VX0319WBSD01	VX045342.D	03/19/2025	12:15
VX0319WBL01	VX0319WBL01	VX045343.D	03/19/2025	12:50
PT-VOA-WP	Q1502-02	VX045344.D	03/19/2025	13:18

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: ALLI03

Lab Code: CHEM Case No.: Q1502 SAS No.: Q1502 SDG NO.: Q1502

Lab File ID: VX045340.D Date Analyzed: 03/19/2025

Instrument ID: MSVOA_X Time Analyzed: 10:41

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	16449	4.90	86152	6.76	80895	10.05
UPPER LIMIT	32898	5.397	172304	7.257	161790	10.549
LOWER LIMIT	8224.5	4.397	43076	6.257	40447.5	9.549
EPA SAMPLE NO.						
PT-VOA-WP	15107	4.89	80457	6.75	73631	10.05
VX0319WBL01	17082	4.89	85703	6.76	77105	10.05
VX0319WBS01	18710	4.89	97348	6.76	87335	10.05
VX0319WBSD01	15405	4.89	77122	6.76	74535	10.05

IS1 = Bromochloromethane
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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SAMPLE DATA

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Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	03/03/25
Project:	NJ Waste Water PT	Date Received:	03/05/25
Client Sample ID:	PT-VOA-WP	SDG No.:	Q1502
Lab Sample ID:	Q1502-02	Matrix:	Water
Analytical Method:	E624.1	% 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:	Prep Date	Date Analyzed	Prep Batch ID
VX045344.D	1		03/19/25 13:18	VX031925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.77	U	0.77	5.00	ug/L
74-87-3	Chloromethane	0.64	U	0.64	5.00	ug/L
75-01-4	Vinyl Chloride	0.83	U	0.83	5.00	ug/L
74-83-9	Bromomethane	67.0		0.80	5.00	ug/L
75-00-3	Chloroethane	2.30	U	2.30	5.00	ug/L
75-69-4	Trichlorofluoromethane	89.0		0.80	5.00	ug/L
75-35-4	1,1-Dichloroethene	87.4		0.76	5.00	ug/L
107-02-8	Acrolein	6.60	U	6.60	25.0	ug/L
107-13-1	Acrylonitrile	2.80	U	2.80	25.0	ug/L
67-64-1	Acetone	160		4.60	25.0	ug/L
75-15-0	Carbon Disulfide	0.82	UQ	0.82	5.00	ug/L
1634-04-4	Methyl tert-Butyl Ether	53.7		0.77	5.00	ug/L
75-09-2	Methylene Chloride	50.7		0.86	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	77.3		0.82	5.00	ug/L
108-05-4	Vinyl Acetate	3.20	U	3.20	25.0	ug/L
75-34-3	1,1-Dichloroethane	0.68	U	0.68	5.00	ug/L
78-93-3	2-Butanone	44.9		2.00	25.0	ug/L
56-23-5	Carbon Tetrachloride	31.8		0.74	5.00	ug/L
594-20-7	2,2-Dichloropropane	0.66	U	0.66	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	110		0.80	5.00	ug/L
67-66-3	Chloroform	72.4		0.55	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.63	U	0.63	5.00	ug/L
563-58-6	1,1-Dichloropropene	0.63	U	0.63	5.00	ug/L
71-43-2	Benzene	120		0.45	5.00	ug/L
107-06-2	1,2-Dichloroethane	39.5		0.50	5.00	ug/L
79-01-6	Trichloroethene	53.9		0.49	5.00	ug/L
78-87-5	1,2-Dichloropropane	80.8		0.46	5.00	ug/L
74-95-3	Dibromomethane	110		0.59	5.00	ug/L
75-27-4	Bromodichloromethane	16.9		0.64	5.00	ug/L
108-10-1	4-Methyl-2-Pentanone	140		3.00	25.0	ug/L

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Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	03/03/25
Project:	NJ Waste Water PT	Date Received:	03/05/25
Client Sample ID:	PT-VOA-WP	SDG No.:	Q1502
Lab Sample ID:	Q1502-02	Matrix:	Water
Analytical Method:	E624.1	% 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:	Prep Date	Date Analyzed	Prep Batch ID
VX045344.D	1		03/19/25 13:18	VX031925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
108-88-3	Toluene	110		0.46	5.00	ug/L
10061-02-6	t-1,3-Dichloropropene	74.0		0.72	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	54.7		0.67	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.45	U	0.45	5.00	ug/L
142-28-9	1,3-Dichloropropane	0.44	U	0.44	5.00	ug/L
110-75-8	2-Chloroethyl vinyl ether	4.60	U	4.60	25.0	ug/L
591-78-6	2-Hexanone	160		3.20	25.0	ug/L
124-48-1	Dibromochloromethane	0.66	U	0.66	5.00	ug/L
106-93-4	1,2-Dibromoethane	0.56	U	0.56	5.00	ug/L
127-18-4	Tetrachloroethene	120		0.84	5.00	ug/L
108-90-7	Chlorobenzene	120		0.47	5.00	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	110		0.62	5.00	ug/L
67-72-1	Hexachloroethane	0.98	U	0.98	5.00	ug/L
100-41-4	Ethyl Benzene	36.1		0.56	5.00	ug/L
179601-23-1	m/p-Xylenes	72.5		1.30	10.0	ug/L
1330-20-7	Total Xylenes	223		1.97	15.0	ug/L
95-47-6	o-Xylene	150		0.67	5.00	ug/L
100-42-5	Styrene	89.3		0.72	5.00	ug/L
75-25-2	Bromoform	0.94	U	0.94	5.00	ug/L
98-82-8	Isopropylbenzene	0.78	U	0.78	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.44	U	0.44	5.00	ug/L
96-18-4	1,2,3-Trichloropropane	0.62	U	0.62	5.00	ug/L
108-86-1	Bromobenzene	0.59	U	0.59	5.00	ug/L
103-65-1	n-propylbenzene	0.67	U	0.67	5.00	ug/L
95-49-8	2-Chlorotoluene	0.64	U	0.64	5.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	94.0		0.59	5.00	ug/L
106-43-4	4-Chlorotoluene	0.62	U	0.62	5.00	ug/L
98-06-6	tert-butylbenzene	0.71	U	0.71	5.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.77	U	0.77	5.00	ug/L
135-98-8	sec-Butylbenzene	0.64	U	0.64	5.00	ug/L
99-87-6	p-Isopropyltoluene	0.70	U	0.70	5.00	ug/L

Raw Data: **VX045344.D**

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Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	03/03/25
Project:	NJ Waste Water PT	Date Received:	03/05/25
Client Sample ID:	PT-VOA-WP	SDG No.:	Q1502
Lab Sample ID:	Q1502-02	Matrix:	Water
Analytical Method:	E624.1	% 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:	Prep Date	Date Analyzed	Prep Batch ID
VX045344.D	1		03/19/25 13:18	VX031925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
541-73-1	1,3-Dichlorobenzene	49.4		0.67	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.81	U	0.81	5.00	ug/L
104-51-8	n-Butylbenzene	0.82	U	0.82	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	120		0.67	5.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.86	U	0.86	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	1.00	5.00	ug/L
87-68-3	Hexachlorobutadiene	0.68	U	0.68	5.00	ug/L
91-20-3	Naphthalene	88.7		1.00	5.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.10	U	1.10	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	32.7		91 - 110	109%	SPK: 30
2037-26-5	Toluene-d8	30.2		91 - 112	101%	SPK: 30
460-00-4	4-Bromofluorobenzene	29.9		63 - 112	100%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	15100	4.891			
540-36-3	1,4-Difluorobenzene	80500	6.751			
3114-55-4	Chlorobenzene-d5	73600	10.049			

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\VX031925\
Data File : VX045344.D
Acq On : 19 Mar 2025 13:18
Operator : JC/MD
Sample : Q1502-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
PT-VOA-WP

Quant Time: Mar 20 01:34:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X022125W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Feb 22 01:06:36 2025
Response via : Initial Calibration

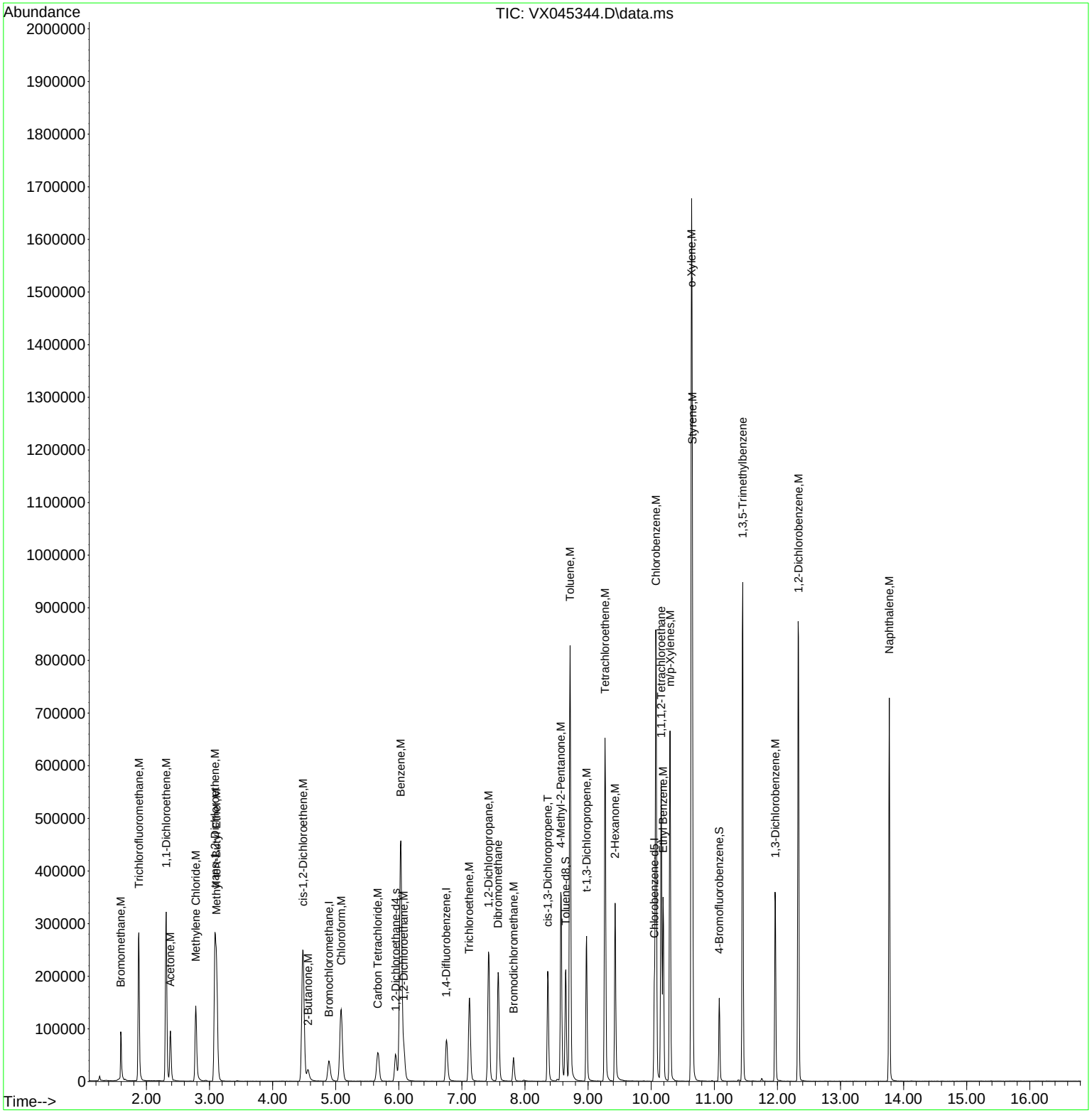
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	4.891	128	15107	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.751	114	80457	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.049	117	73631	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	48012	32.722	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 109.067%			
60) 4-Bromofluorobenzene	11.079	95	41154	29.903	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 99.667%			
63) Toluene-d8	8.647	98	122975	30.190	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.633%			
Target Compounds						Qvalue
5) Bromomethane	1.593	94	34311	66.970	ug/l	98
7) Trichlorofluoromethane	1.880	101	176035	88.988	ug/l	96
10) 1,1-Dichloroethene	2.313	96	100348	87.442	ug/l	89
15) Acetone	2.380	58	29165	163.367	ug/l	85
18) Methylene Chloride	2.782	84	65393	50.661	ug/l	95
19) trans-1,2-Dichloroethene	3.087	96	89760	77.309	ug/l	95
22) cis-1,2-Dichloroethene	4.483	96	151633	108.985	ug/l	93
24) Methyl tert-Butyl Ether	3.111	73	201002	53.664	ug/l	96
25) Chloroform	5.086	83	160307	72.350	ug/l	98
30) 2-Butanone	4.562	43	38399	44.919	ug/l	94
33) Carbon Tetrachloride	5.666	117	48066	31.760	ug/l	96
34) Benzene	6.031	78	535949	115.475	ug/l	98
36) 1,2-Dichloroethane	6.080	62	62842	39.548	ug/l	95
37) Trichloroethene	7.117	130	58554	53.926	ug/l	98
39) 1,2-Dichloropropane	7.421	63	93261	80.823	ug/l	99
40) Dibromomethane	7.574	93	88952	107.426	ug/l	97
41) Bromodichloromethane	7.818	83	27748	16.861	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	117438	74.033	ug/l	100
49) cis-1,3-Dichloropropene	8.360	75	98218	54.696	ug/l	92
58) 4-Methyl-2-Pentanone	8.567	43	227163	135.624	ug/l	99
59) 2-Hexanone	9.427	43	188811	155.956	ug/l	98
61) Tetrachloroethene	9.269	164	111094	122.527	ug/l	95
62) Toluene	8.714	91	521344	106.885	ug/l	98
64) Chlorobenzene	10.073	112	351323	116.236	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.159	131	111473	111.771	ug/l	100
66) Ethyl Benzene	10.189	91	193001	36.142	ug/l	97
67) m/p-Xylenes	10.299	106	144161	72.457	ug/l	96
68) o-Xylene	10.640	106	288194	147.631	ug/l	98
69) Styrene	10.652	104	291135	89.295	ug/l	90
76) 1,3,5-Trimethylbenzene	11.451	105	390792	94.031	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	106609	49.408	ug/l	97
87) 1,2-Dichlorobenzene	12.335	146	260184	122.894	ug/l	100
91) Naphthalene	13.774	128	401318	88.698	ug/l	100

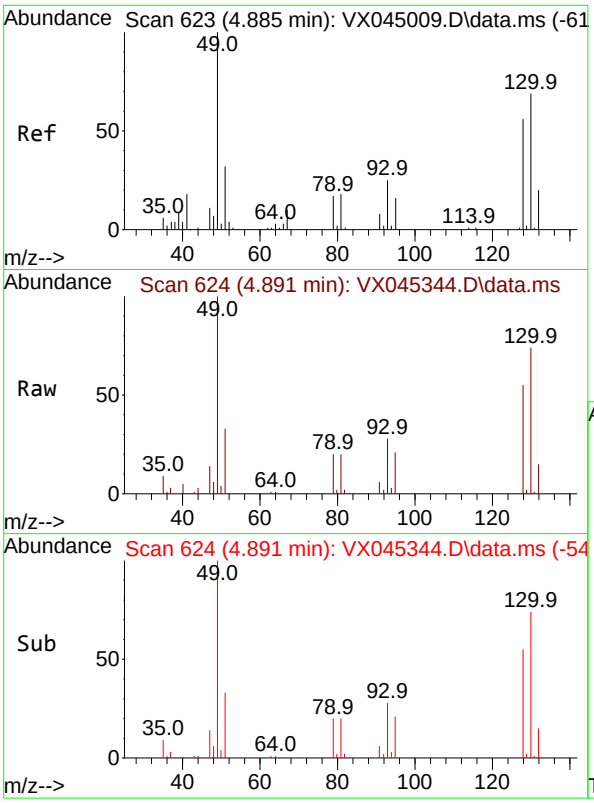
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX031925\
Data File : VX045344.D
Acq On : 19 Mar 2025 13:18
Operator : JC/MD
Sample : Q1502-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
PT-VOA-WP

Quant Time: Mar 20 01:34:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X022125W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Feb 22 01:06:36 2025
Response via : Initial Calibration



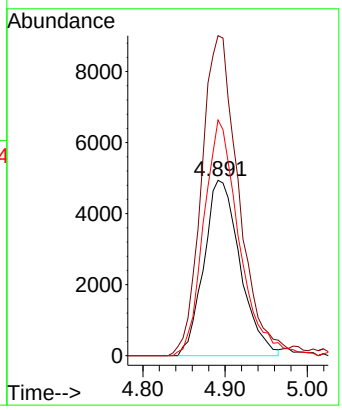


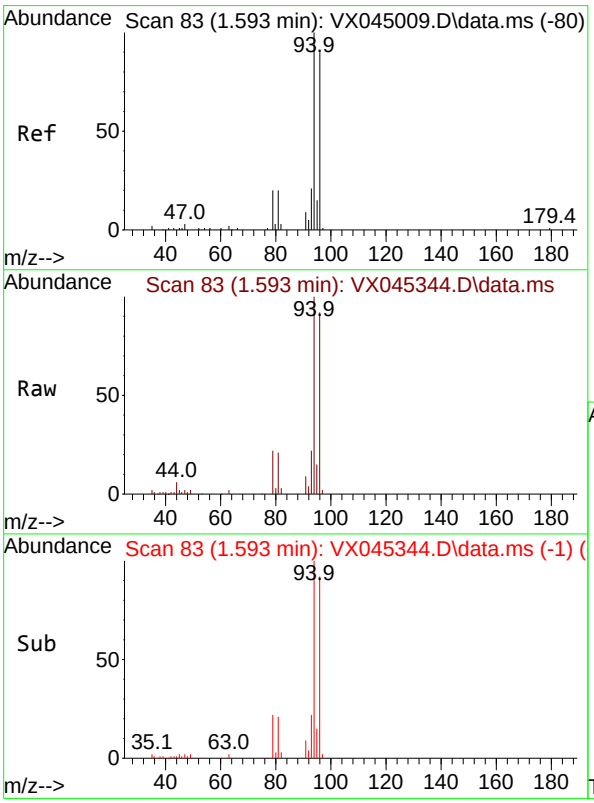
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.891 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX045344.D
Acq: 19 Mar 2025 13:18

Instrument :
MSVOA_X
ClientSampleId :
PT-VOA-WP

Tgt Ion:128 Resp: 15107

Ion	Ratio	Lower	Upper
128	100		
49	186.9	0.0	449.7
130	131.7	0.0	312.7

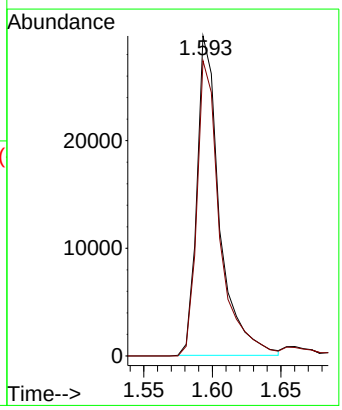




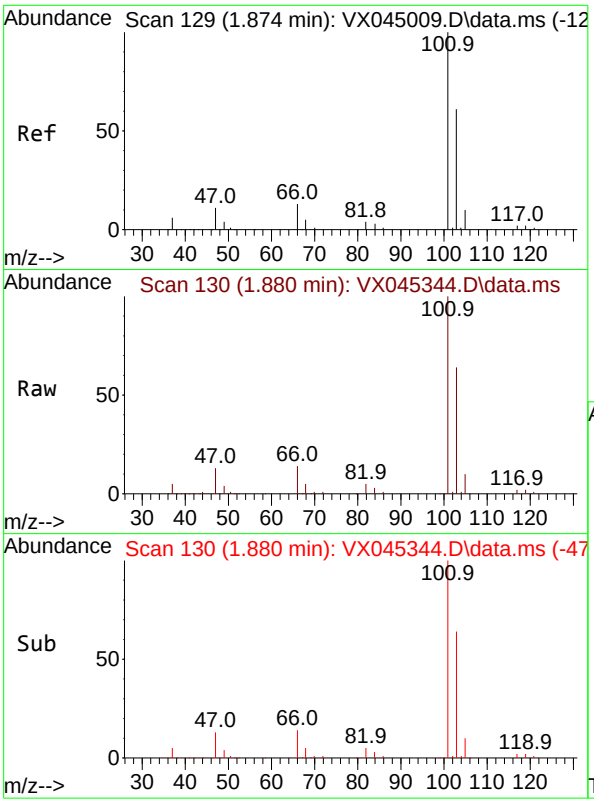
#5
Bromomethane
Concen: 66.970 ug/l
RT: 1.593 min Scan# 83
Delta R.T. -0.000 min
Lab File: VX045344.D
Acq: 19 Mar 2025 13:18

Tgt Ion: 94 Resp: 34311

Ion	Ratio	Lower	Upper
94	100		
96	92.4	72.2	108.4



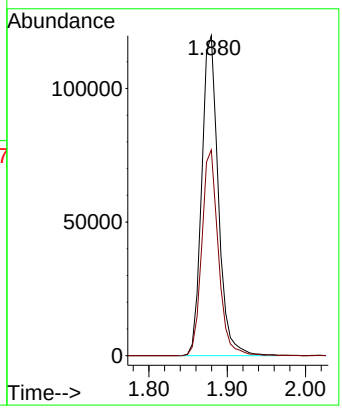
Instrument :
MSVOA_X
ClientSampleId :
PT-VOA-WP

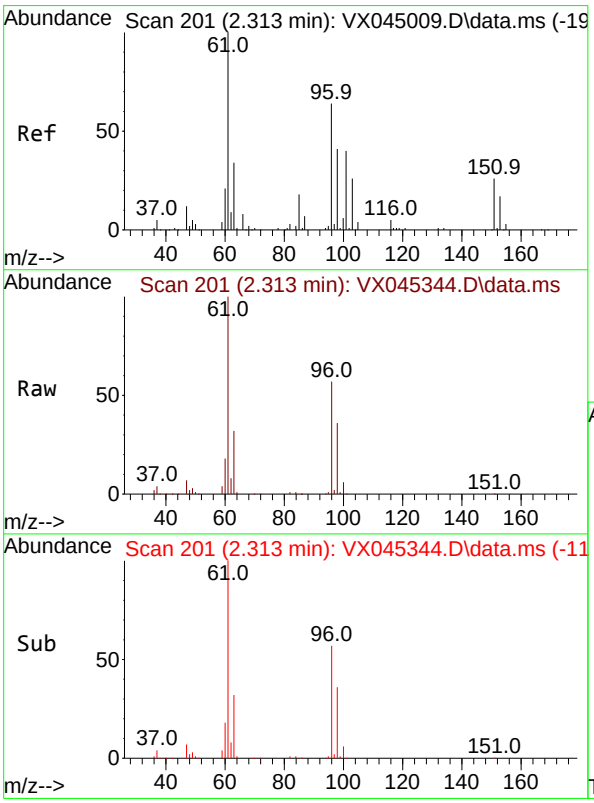


#7
Trichlorofluoromethane
Concen: 88.988 ug/l
RT: 1.880 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045344.D
Acq: 19 Mar 2025 13:18

Tgt Ion:101 Resp: 176035

Ion	Ratio	Lower	Upper
101	100		
103	64.3	48.8	73.2

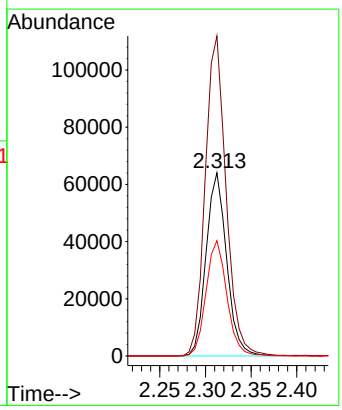


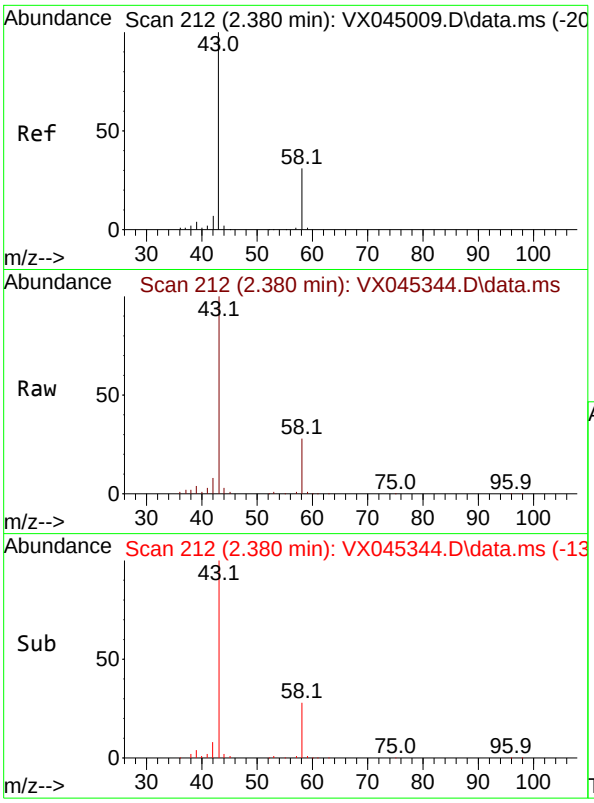


#10
1,1-Dichloroethene
Concen: 87.442 ug/l
RT: 2.313 min Scan# 201
Delta R.T. -0.000 min
Lab File: VX045344.D
Acq: 19 Mar 2025 13:18

Tgt Ion: 96 Resp: 100348

Ion	Ratio	Lower	Upper
96	100		
61	174.7	124.2	186.2
98	63.0	51.1	76.7



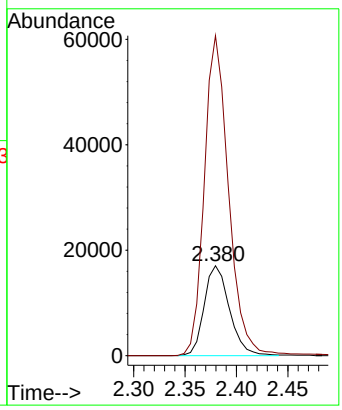


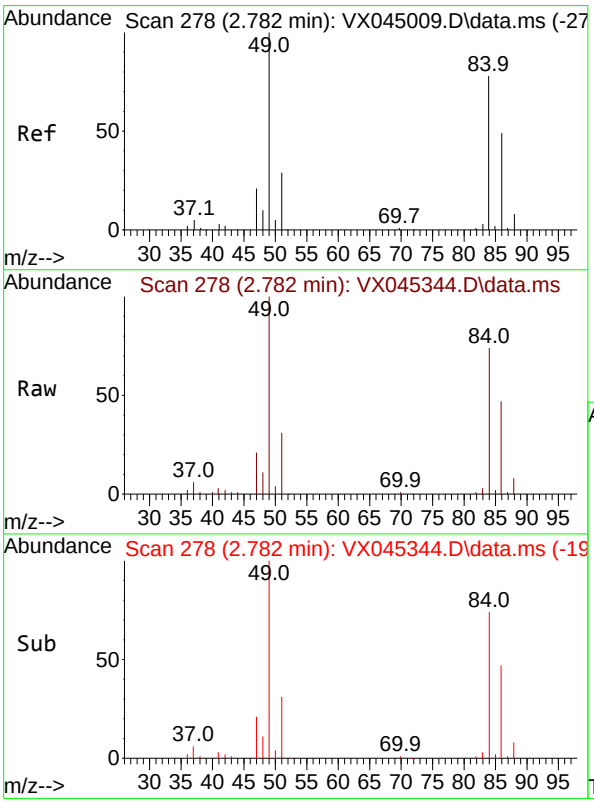
#15
Acetone
Concen: 163.367 ug/l
RT: 2.380 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX045344.D
Acq: 19 Mar 2025 13:18

Instrument :
MSVOA_X
ClientSampleId :
PT-VOA-WP

Tgt Ion: 58 Resp: 29165

Ion	Ratio	Lower	Upper
58	100		
43	355.2	258.6	388.0

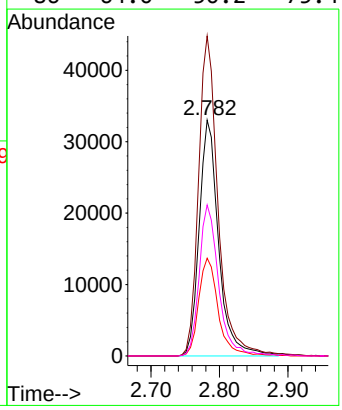


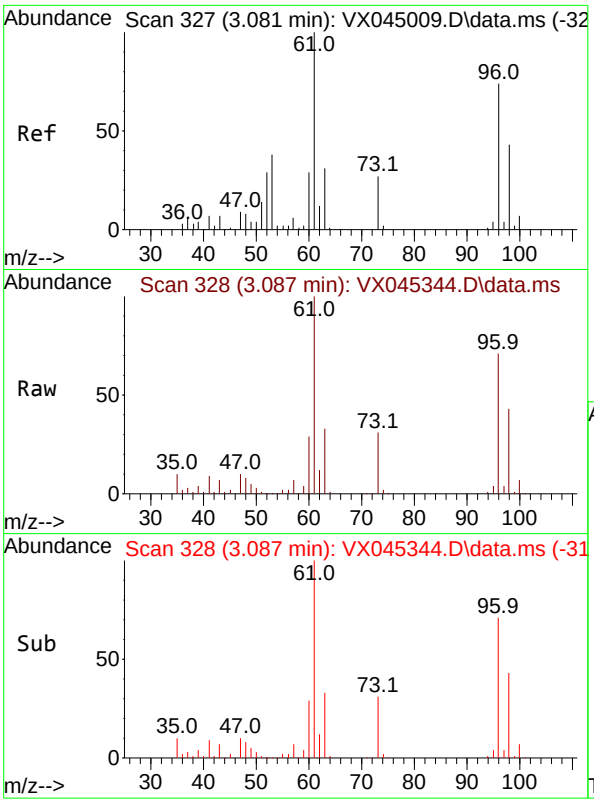


#18
Methylene Chloride
Concen: 50.661 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX045344.D
Acq: 19 Mar 2025 13:18

Tgt Ion: 84 Resp: 65393

Ion	Ratio	Lower	Upper
84	100		
49	135.7	102.8	154.2
51	41.5	30.1	45.1
86	64.0	50.2	75.4



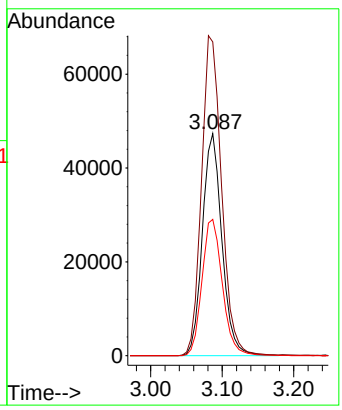


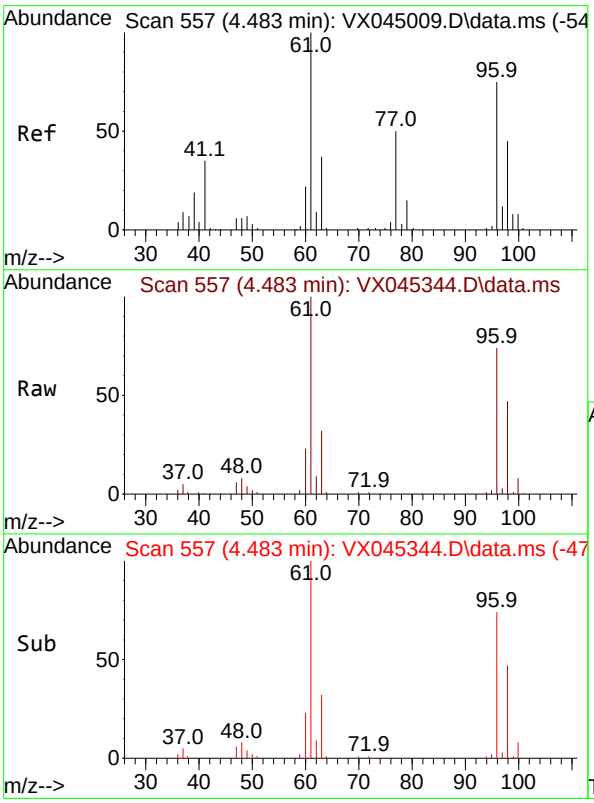
#19
trans-1,2-Dichloroethene
Concen: 77.309 ug/l
RT: 3.087 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX045344.D
Acq: 19 Mar 2025 13:18

Instrument :
MSVOA_X
ClientSampleId :
PT-VOA-WP

Tgt Ion: 96 Resp: 89760

Ion	Ratio	Lower	Upper
96	100		
61	141.3	108.6	163.0
98	61.4	46.5	69.7

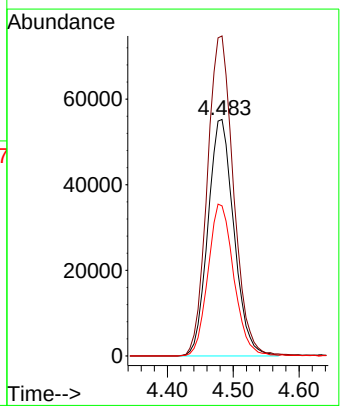


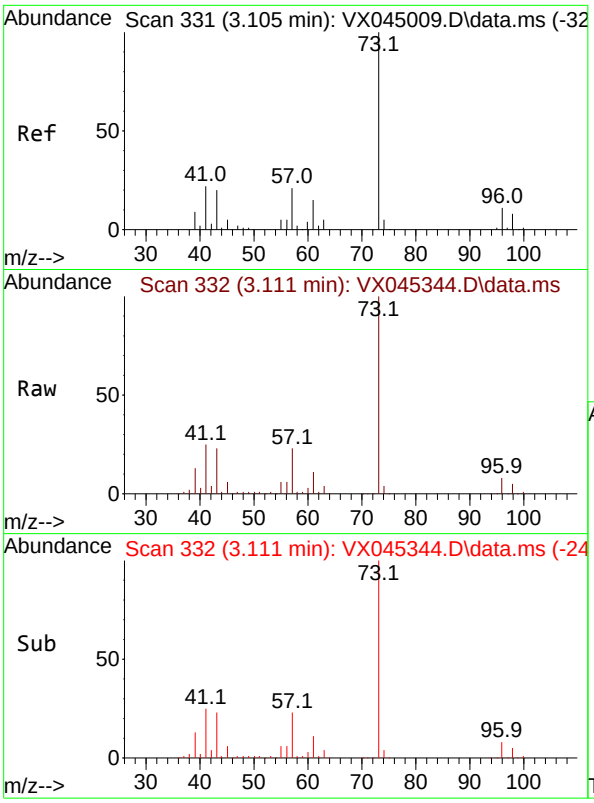


#22
cis-1,2-Dichloroethene
Concen: 108.985 ug/l
RT: 4.483 min Scan# 557
Delta R.T. -0.000 min
Lab File: VX045344.D
Acq: 19 Mar 2025 13:18

Tgt Ion: 96 Resp: 151633

Ion	Ratio	Lower	Upper
96	100		
61	136.8	118.9	178.3
98	63.8	50.7	76.1



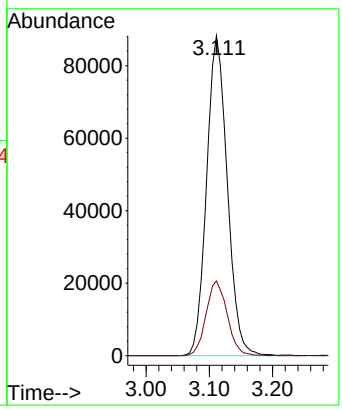


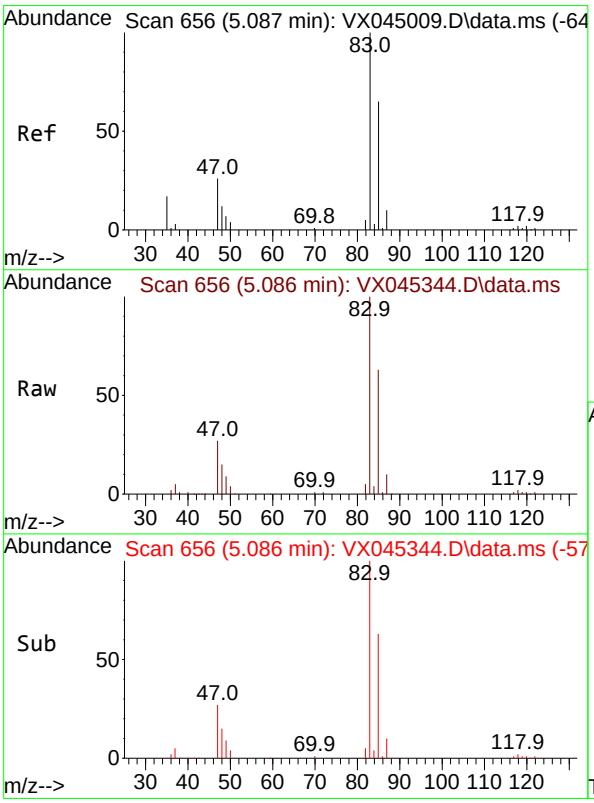
#24
Methyl tert-Butyl Ether
Concen: 53.664 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX045344.D
Acq: 19 Mar 2025 13:18

Instrument :
MSVOA_X
ClientSampleId :
PT-VOA-WP

Tgt Ion: 73 Resp: 201002

Ion	Ratio	Lower	Upper
73	100		
43	23.8	17.4	26.0

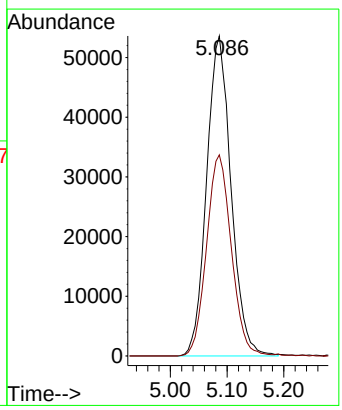




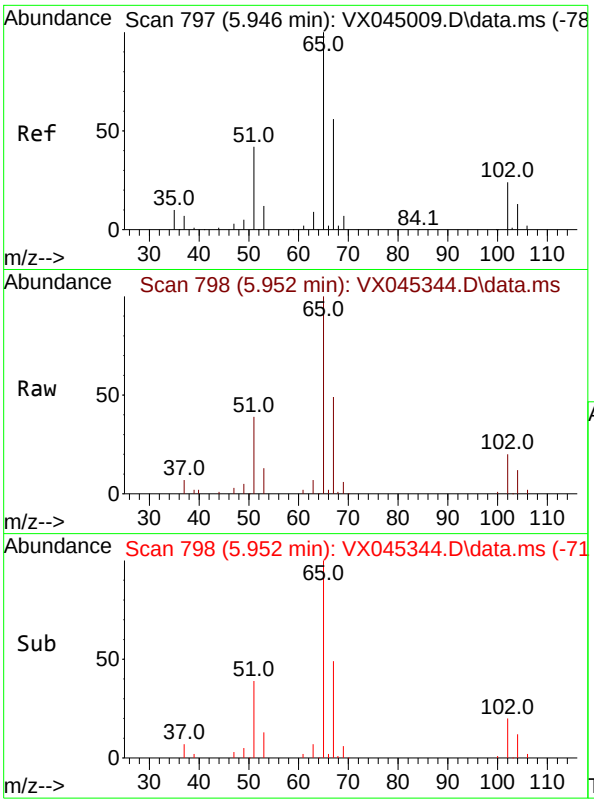
#25
Chloroform
Concen: 72.350 ug/l
RT: 5.086 min Scan# 656
Delta R.T. -0.000 min
Lab File: VX045344.D
Acq: 19 Mar 2025 13:18

Tgt Ion: 83 Resp: 160307

Ion	Ratio	Lower	Upper
83	100		
85	62.9	51.7	77.5



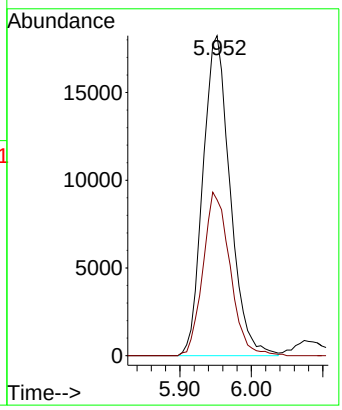
Instrument :
MSVOA_X
ClientSampleId :
PT-VOA-WP

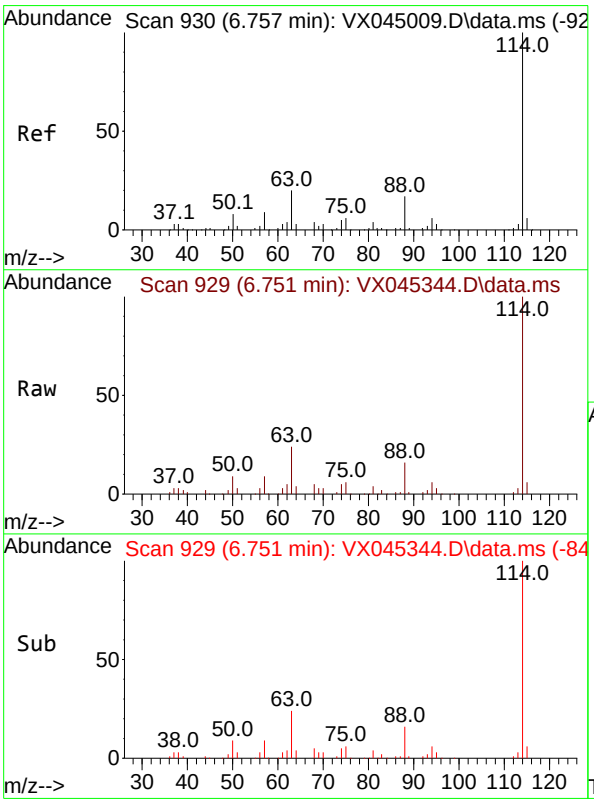


#27
1,2-Dichloroethane-d4
Concen: 32.722 ug/l
RT: 5.952 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX045344.D
Acq: 19 Mar 2025 13:18

Tgt Ion: 65 Resp: 48012

Ion	Ratio	Lower	Upper
65	100		
67	51.0	42.6	64.0

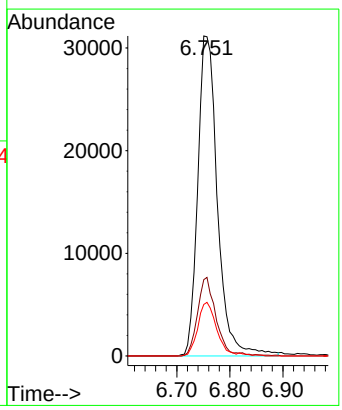


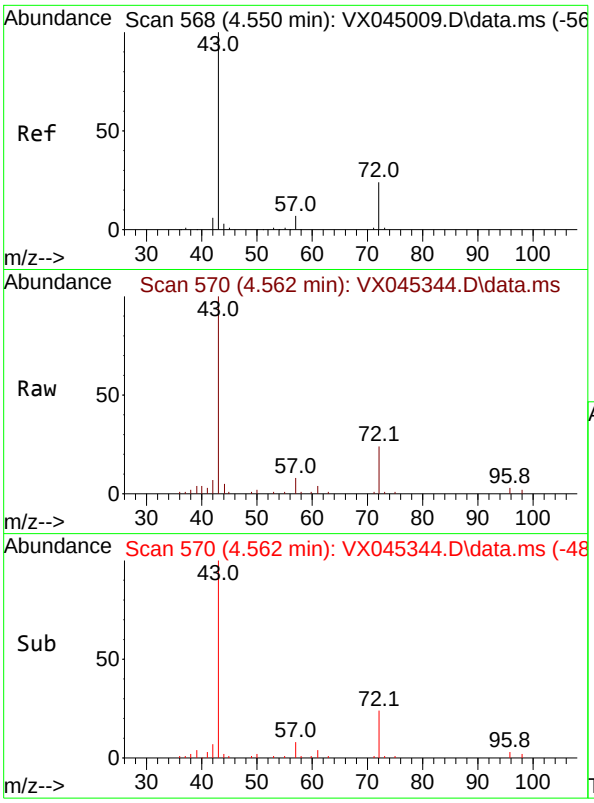


#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. -0.006 min
Lab File: VX045344.D
Acq: 19 Mar 2025 13:18

Tgt Ion:114 Resp: 80457

Ion	Ratio	Lower	Upper
114	100		
63	22.2	16.8	25.2
88	15.8	12.7	19.1



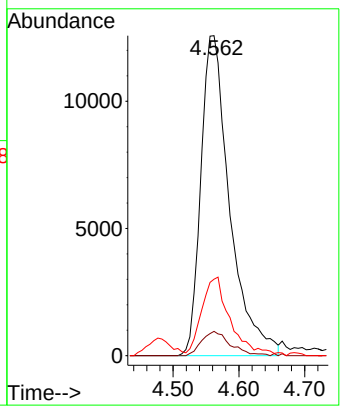


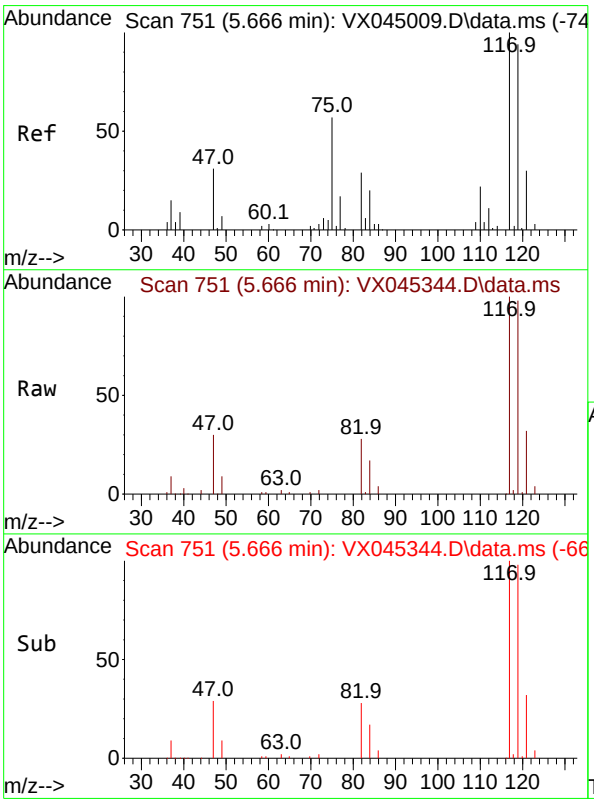
#30
2-Butanone
Concen: 44.919 ug/l
RT: 4.562 min Scan# 5
Delta R.T. 0.012 min
Lab File: VX045344.D
Acq: 19 Mar 2025 13:18

Instrument :
MSVOA_X
ClientSampleId :
PT-VOA-WP

Tgt Ion: 43 Resp: 38399

Ion	Ratio	Lower	Upper
43	100		
57	7.3	6.2	9.2
72	21.5	20.2	30.2

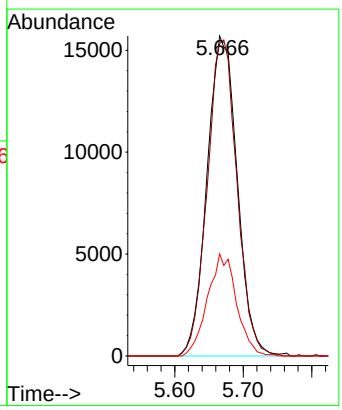


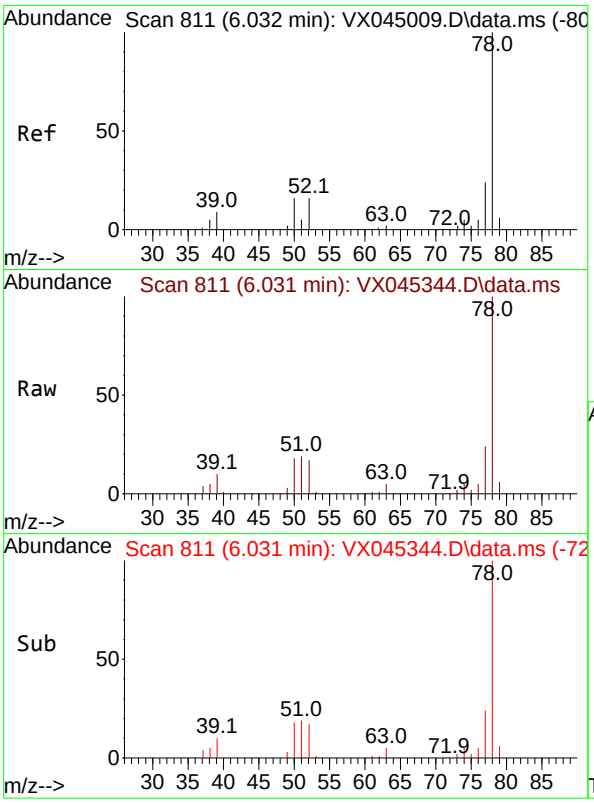


#33
Carbon Tetrachloride
Concen: 31.760 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.000 min
Lab File: VX045344.D
Acq: 19 Mar 2025 13:18

Tgt Ion:117 Resp: 48066

Ion	Ratio	Lower	Upper
117	100		
119	97.6	75.1	112.7
121	31.9	23.9	35.9



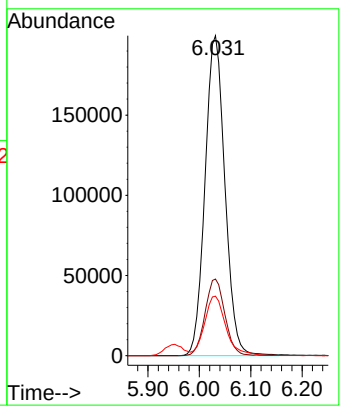


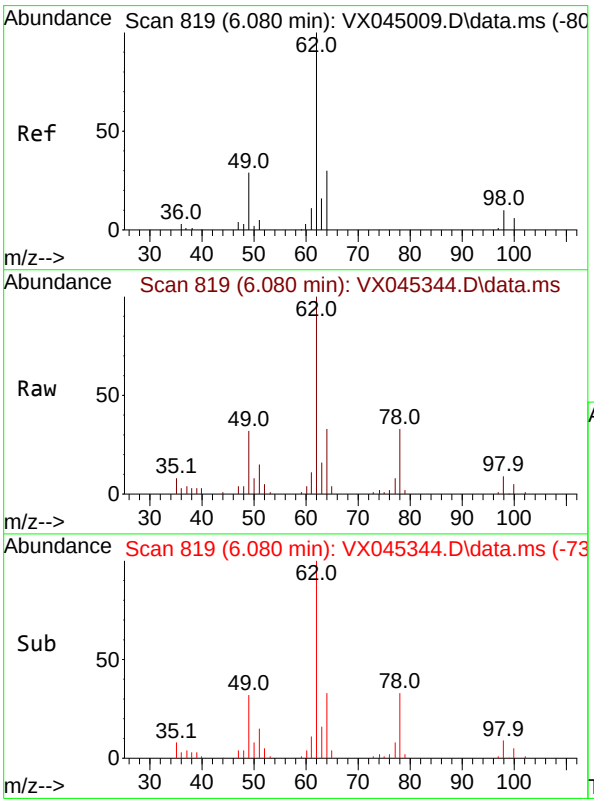
#34
Benzene
Concen: 115.475 ug/l
RT: 6.031 min Scan# 81
Delta R.T. -0.000 min
Lab File: VX045344.D
Acq: 19 Mar 2025 13:18

Instrument :
MSVOA_X
ClientSampleId :
PT-VOA-WP

Tgt Ion: 78 Resp: 535949

Ion	Ratio	Lower	Upper
78	100		
77	24.0	19.6	29.4
51	18.5	13.8	20.6

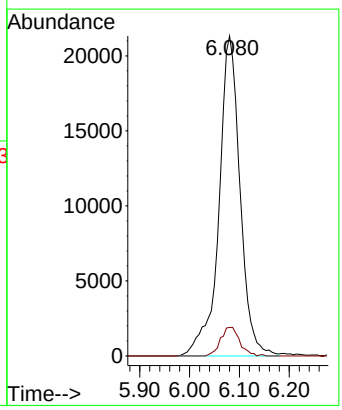


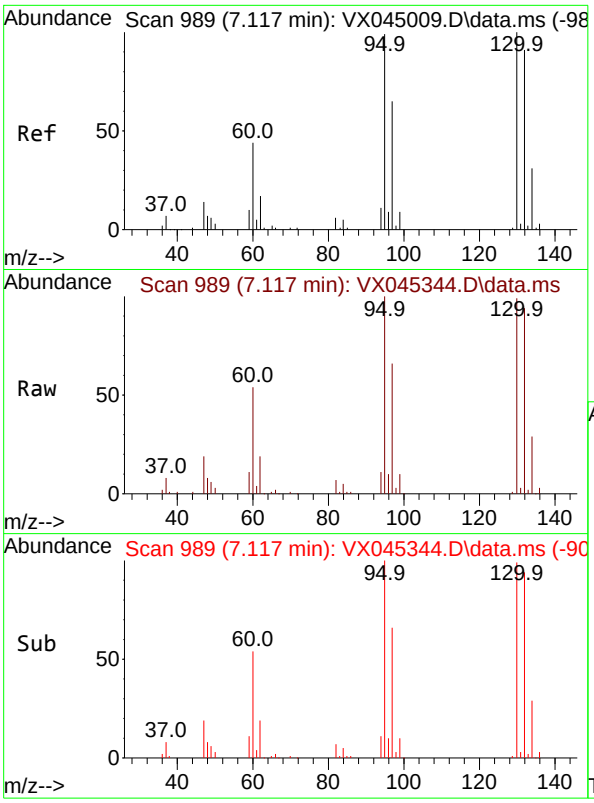


#36
1,2-Dichloroethane
Concen: 39.548 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.000 min
Lab File: VX045344.D
Acq: 19 Mar 2025 13:18

Tgt Ion: 62 Resp: 62842

Ion	Ratio	Lower	Upper
62	100		
98	8.1	7.9	11.9



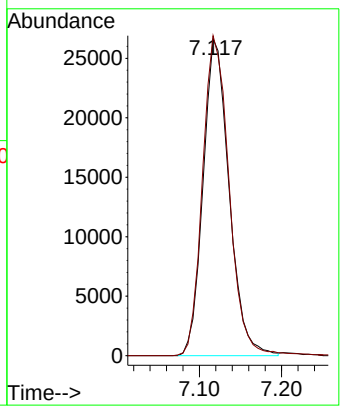


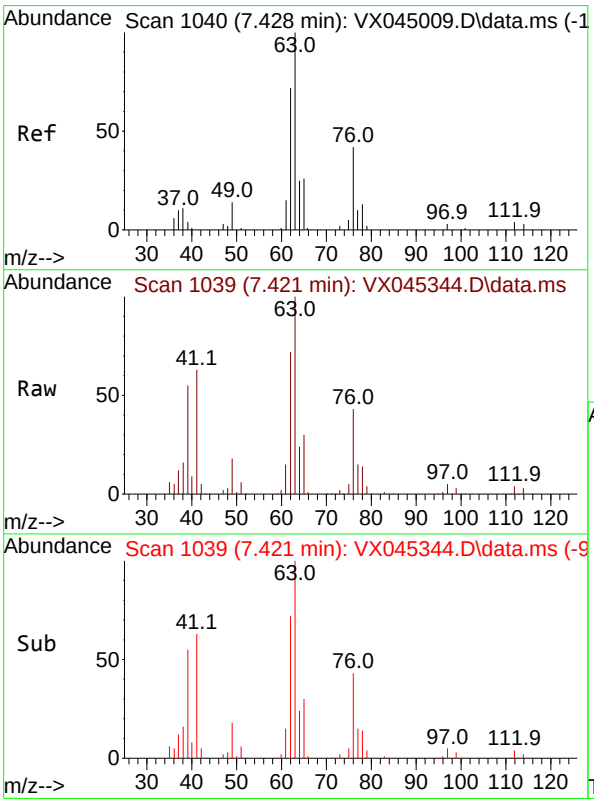
#37
Trichloroethene
Concen: 53.926 ug/l
RT: 7.117 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX045344.D
Acq: 19 Mar 2025 13:18

Instrument :
MSVOA_X
ClientSampleId :
PT-VOA-WP

Tgt Ion:130 Resp: 58554

Ion	Ratio	Lower	Upper
130	100		
95	100.7	79.0	118.4

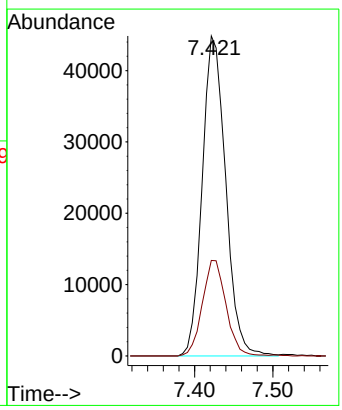


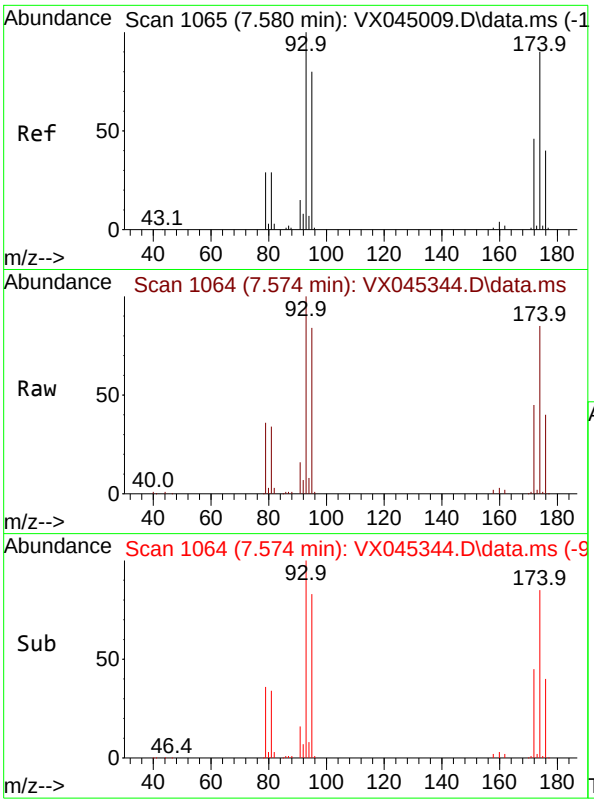


#39
1,2-Dichloropropane
Concen: 80.823 ug/l
RT: 7.421 min Scan# 1039
Delta R.T. -0.006 min
Lab File: VX045344.D
Acq: 19 Mar 2025 13:18

Tgt Ion: 63 Resp: 93261

Ion	Ratio	Lower	Upper
63	100		
65	29.8	24.3	36.5



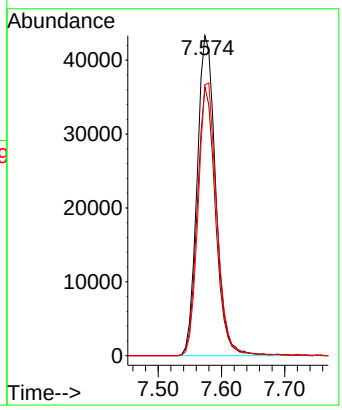


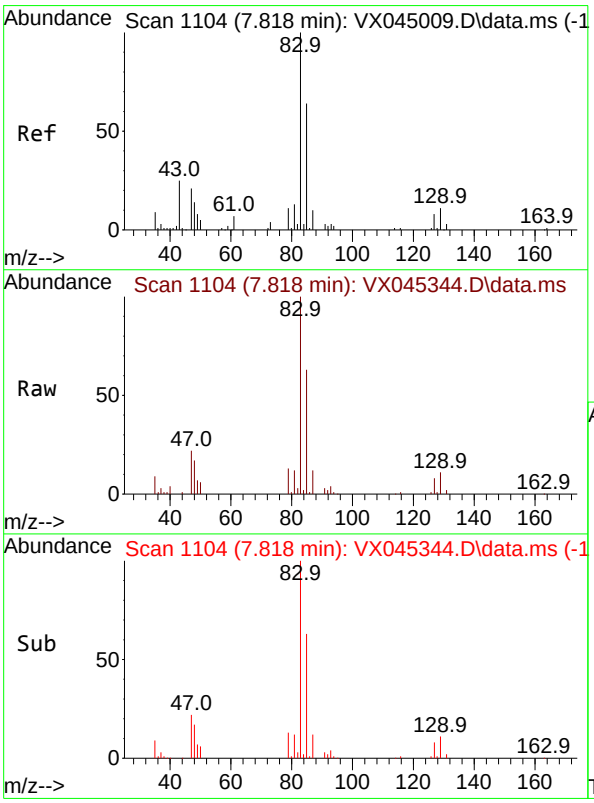
#40
Dibromomethane
Concen: 107.426 ug/l
RT: 7.574 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045344.D
Acq: 19 Mar 2025 13:18

Instrument :
MSVOA_X
ClientSampleId :
PT-VOA-WP

Tgt Ion: 93 Resp: 88952

Ion	Ratio	Lower	Upper
93	100		
95	82.1	0.0	162.6
174	84.8	0.0	178.8

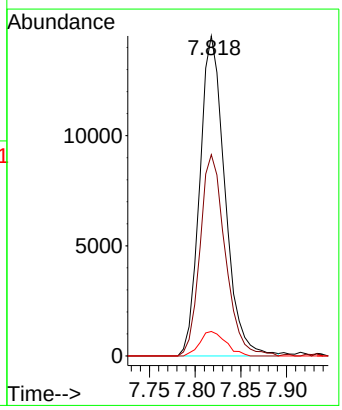


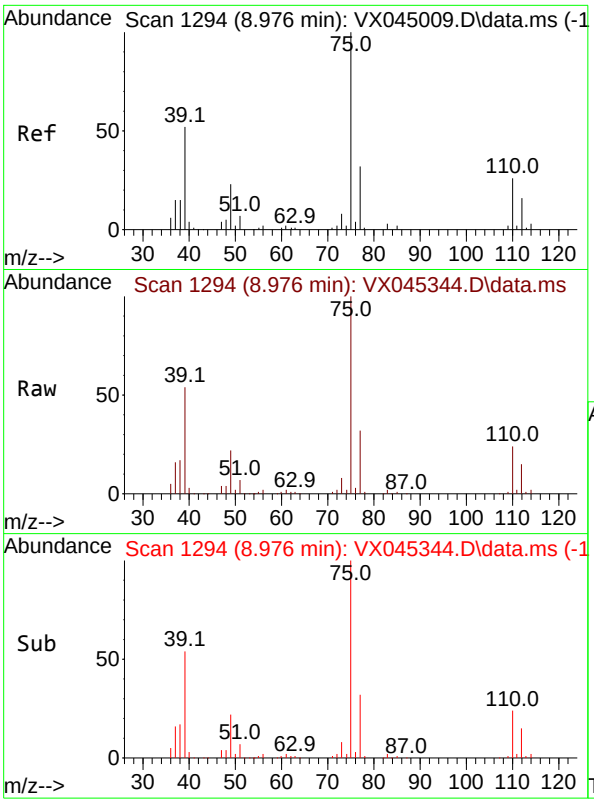


#41
Bromodichloromethane
Concen: 16.861 ug/l
RT: 7.818 min Scan# 1104
Delta R.T. -0.000 min
Lab File: VX045344.D
Acq: 19 Mar 2025 13:18

Tgt Ion: 83 Resp: 27748

Ion	Ratio	Lower	Upper
83	100		
85	62.9	51.0	76.6
127	7.6	6.1	9.1



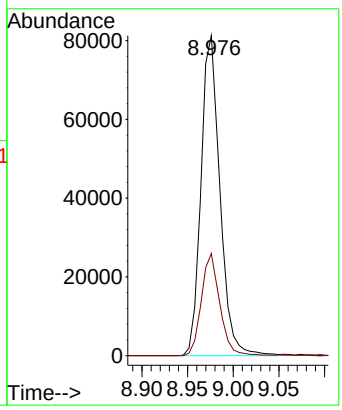


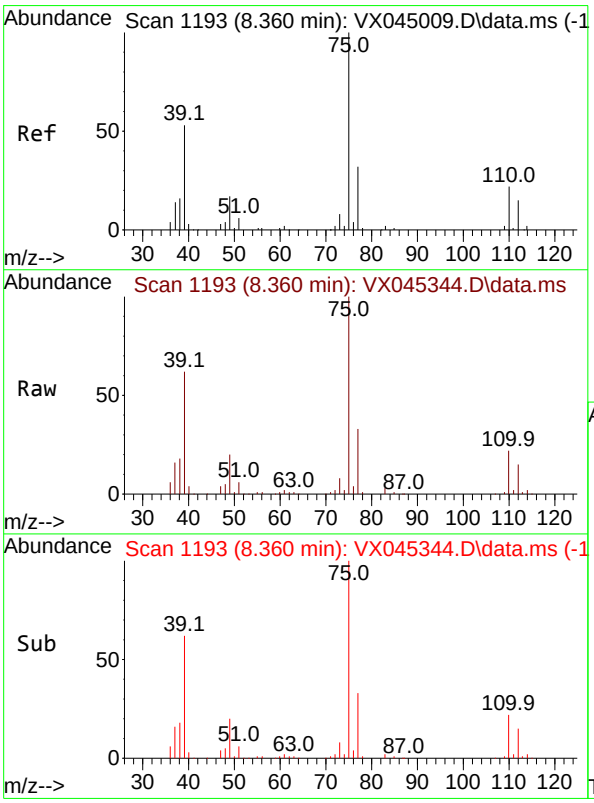
#48
t-1,3-Dichloropropene
Concen: 74.033 ug/l
RT: 8.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045344.D
Acq: 19 Mar 2025 13:18

Instrument :
MSVOA_X
ClientSampleId :
PT-VOA-WP

Tgt Ion: 75 Resp: 117438

Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.7	38.5

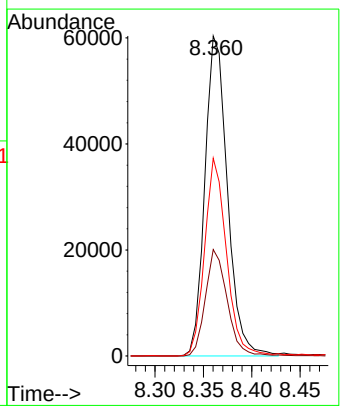


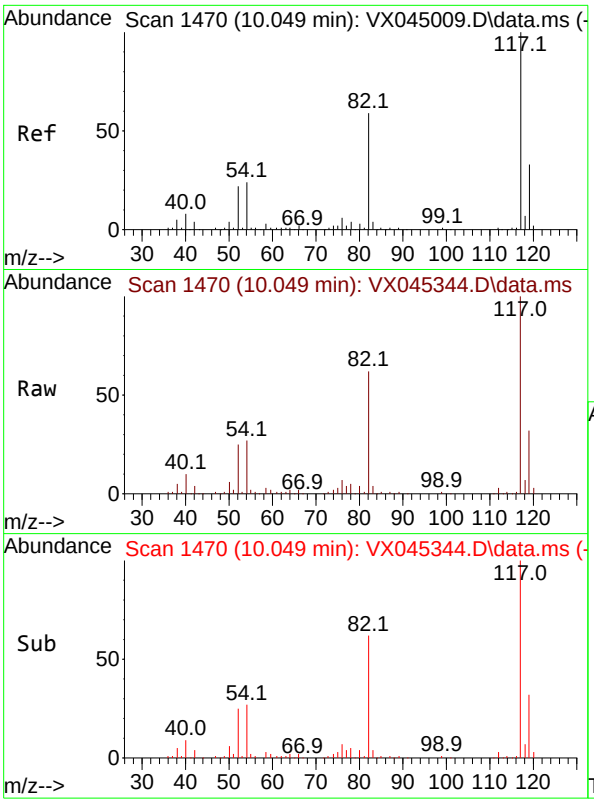


#49
cis-1,3-Dichloropropene
Concen: 54.696 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. -0.000 min
Lab File: VX045344.D
Acq: 19 Mar 2025 13:18

Tgt Ion: 75 Resp: 98218

Ion	Ratio	Lower	Upper
75	100		
77	33.2	25.9	38.9
39	61.8	42.3	63.5



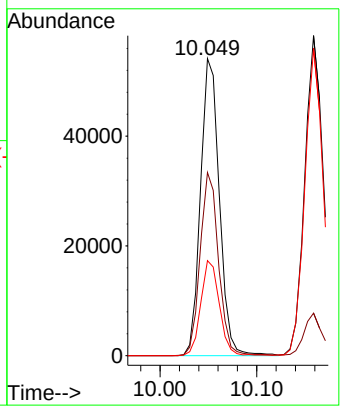


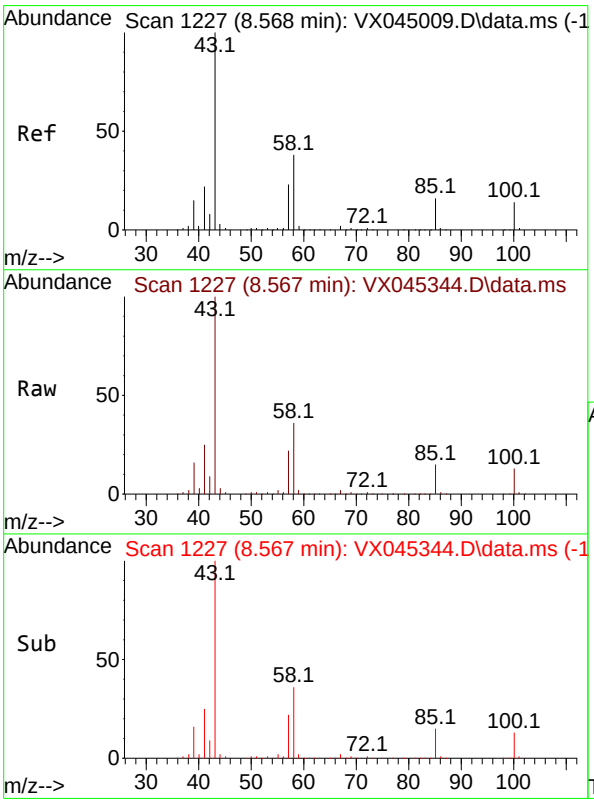
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX045344.D
Acq: 19 Mar 2025 13:18

Instrument :
MSVOA_X
ClientSampleId :
PT-VOA-WP

Tgt Ion:117 Resp: 73631

Ion	Ratio	Lower	Upper
117	100		
82	59.8	45.8	68.8
119	31.3	25.5	38.3

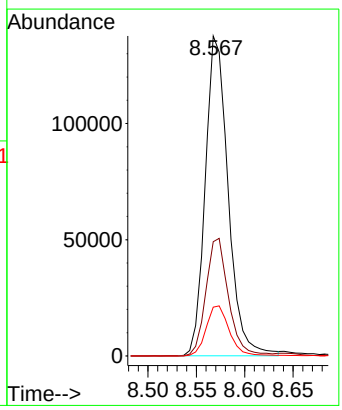


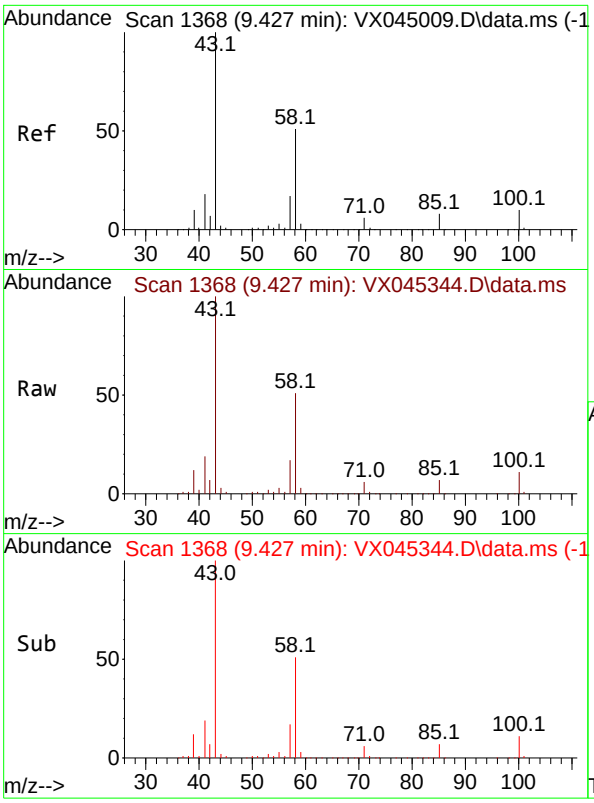


#58
4-Methyl-2-Pentanone
Concen: 135.624 ug/l
RT: 8.567 min Scan# 1227
Delta R.T. -0.000 min
Lab File: VX045344.D
Acq: 19 Mar 2025 13:18

Tgt Ion: 43 Resp: 227163

Ion	Ratio	Lower	Upper
43	100		
58	36.4	29.5	44.3
85	16.0	12.9	19.3



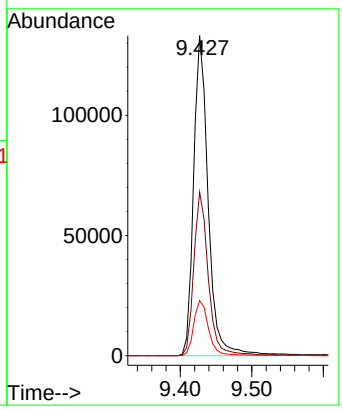


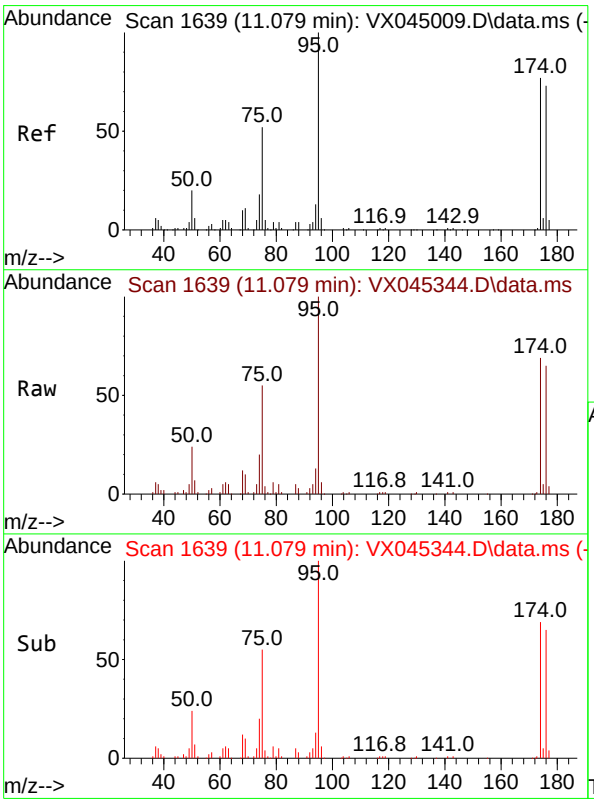
#59
2-Hexanone
Concen: 155.956 ug/l
RT: 9.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045344.D
Acq: 19 Mar 2025 13:18

Instrument :
MSVOA_X
ClientSampleId :
PT-VOA-WP

Tgt Ion: 43 Resp: 188811

Ion	Ratio	Lower	Upper
43	100		
58	50.7	41.6	62.4
57	17.6	13.8	20.6

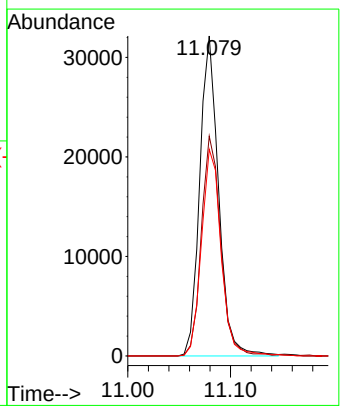


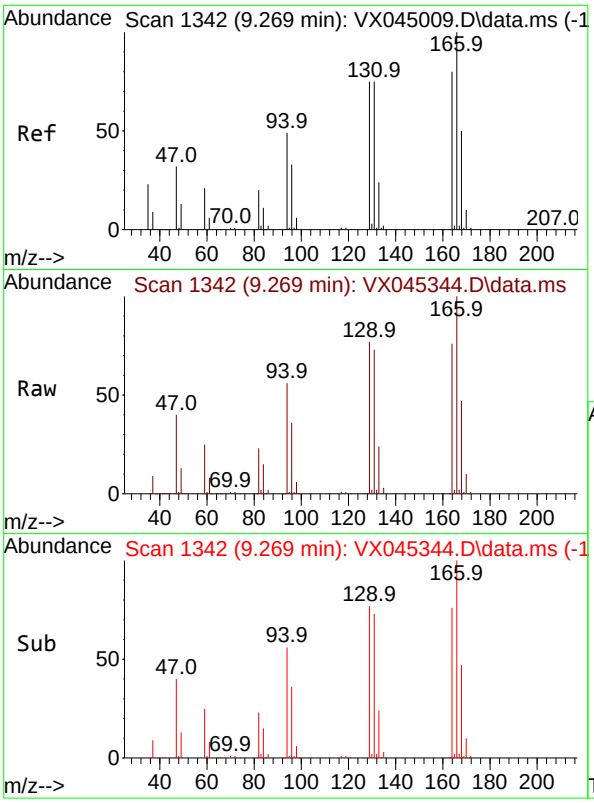


#60
4-Bromofluorobenzene
Concen: 29.903 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX045344.D
Acq: 19 Mar 2025 13:18

Tgt Ion: 95 Resp: 41154

Ion	Ratio	Lower	Upper
95	100		
174	69.9	59.5	89.3
176	67.3	55.5	83.3



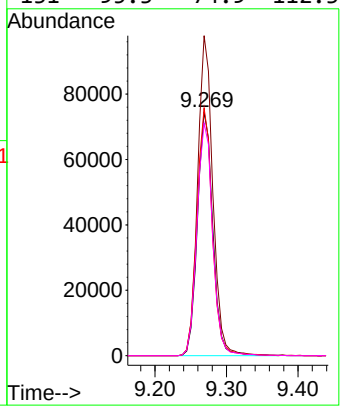


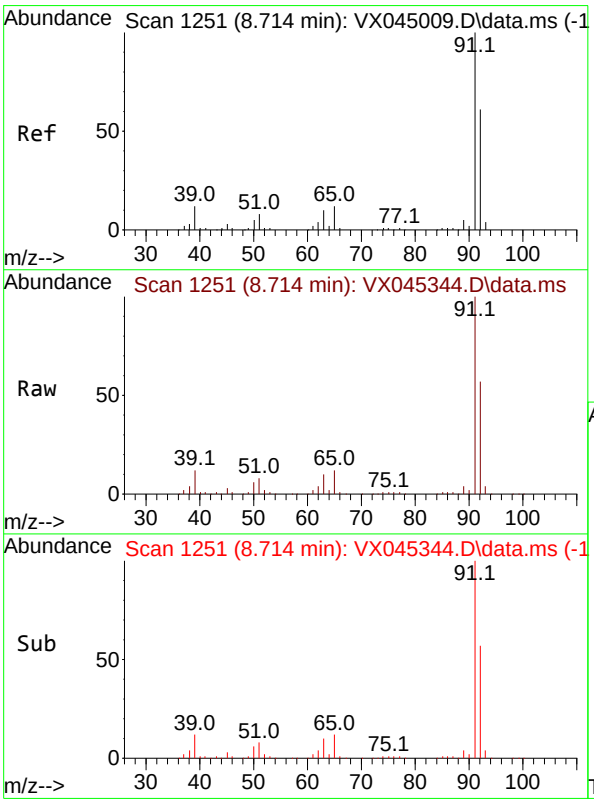
#61
Tetrachloroethene
Concen: 122.527 ug/l
RT: 9.269 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045344.D
Acq: 19 Mar 2025 13:18

Instrument :
MSVOA_X
ClientSampleId :
PT-VOA-WP

Tgt Ion:164 Resp: 111094

Ion	Ratio	Lower	Upper
164	100		
166	131.2	100.3	150.5
129	101.5	75.5	113.3
131	95.3	74.9	112.3

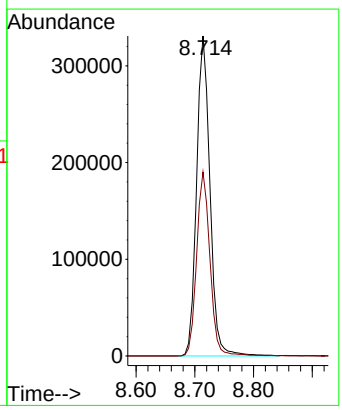


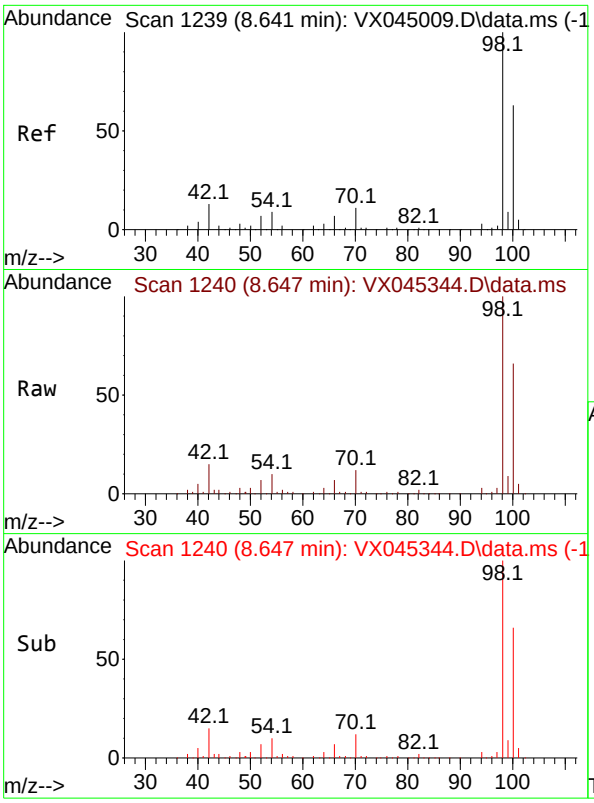


#62
Toluene
Concen: 106.885 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX045344.D
Acq: 19 Mar 2025 13:18

Tgt Ion: 91 Resp: 521344

Ion	Ratio	Lower	Upper
91	100		
92	57.4	46.9	70.3



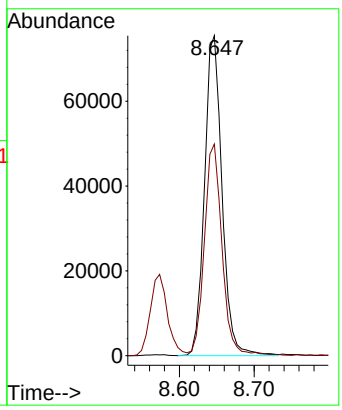


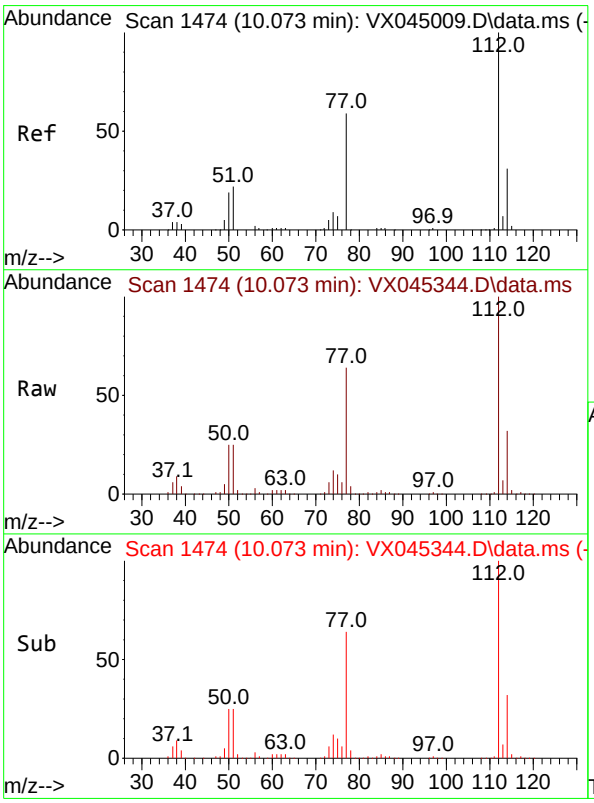
#63
Toluene-d8
Concen: 30.190 ug/l
RT: 8.647 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045344.D
Acq: 19 Mar 2025 13:18

Instrument :
MSVOA_X
ClientSampleId :
PT-VOA-WP

Tgt Ion: 98 Resp: 122975

Ion	Ratio	Lower	Upper
98	100		
100	66.1	51.7	77.5

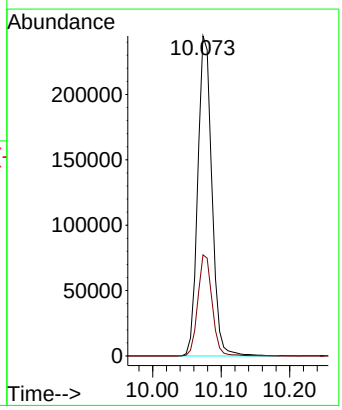


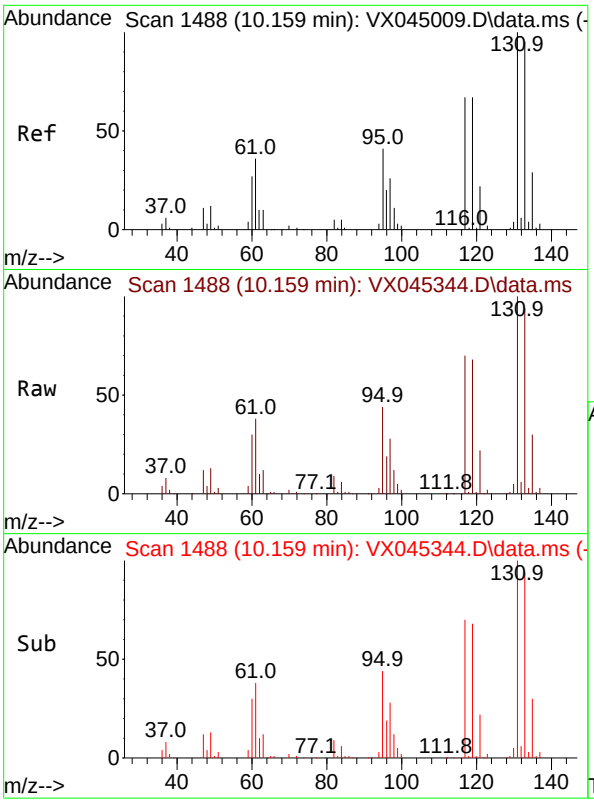


#64
Chlorobenzene
Concen: 116.236 ug/l
RT: 10.073 min Scan# 1474
Delta R.T. -0.000 min
Lab File: VX045344.D
Acq: 19 Mar 2025 13:18

Tgt Ion:112 Resp: 351323

Ion	Ratio	Lower	Upper
112	100		
114	31.6	24.7	37.1



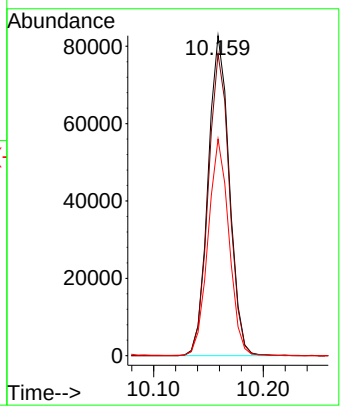


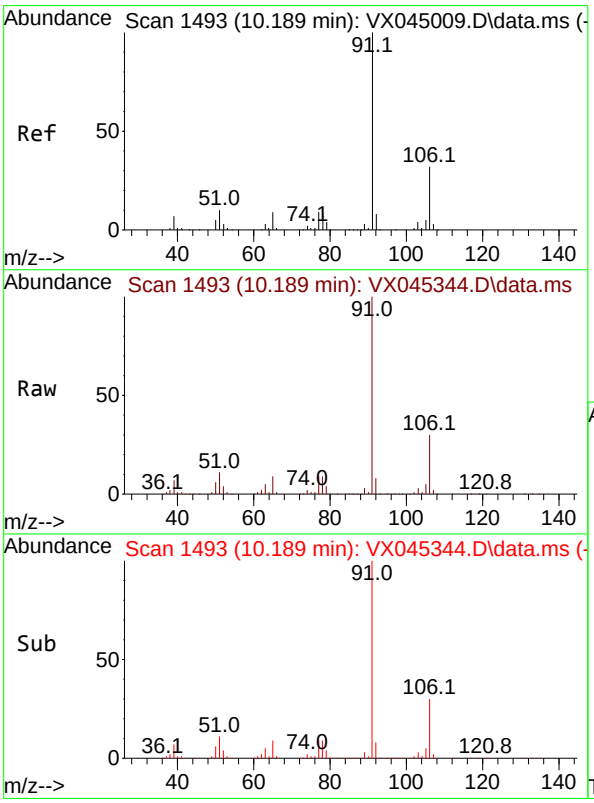
#65
1,1,1,2-Tetrachloroethane
Concen: 111.771 ug/l
RT: 10.159 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX045344.D
Acq: 19 Mar 2025 13:18

Instrument :
MSVOA_X
ClientSampleId :
PT-VOA-WP

Tgt Ion:131 Resp: 111473

Ion	Ratio	Lower	Upper
131	100		
133	94.3	0.0	187.8
119	66.1	0.0	133.0

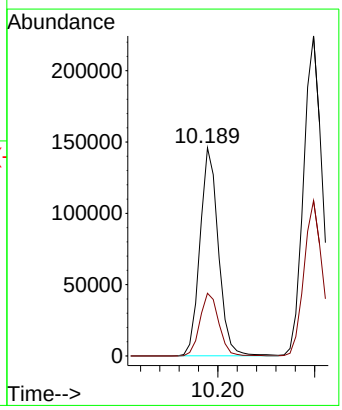


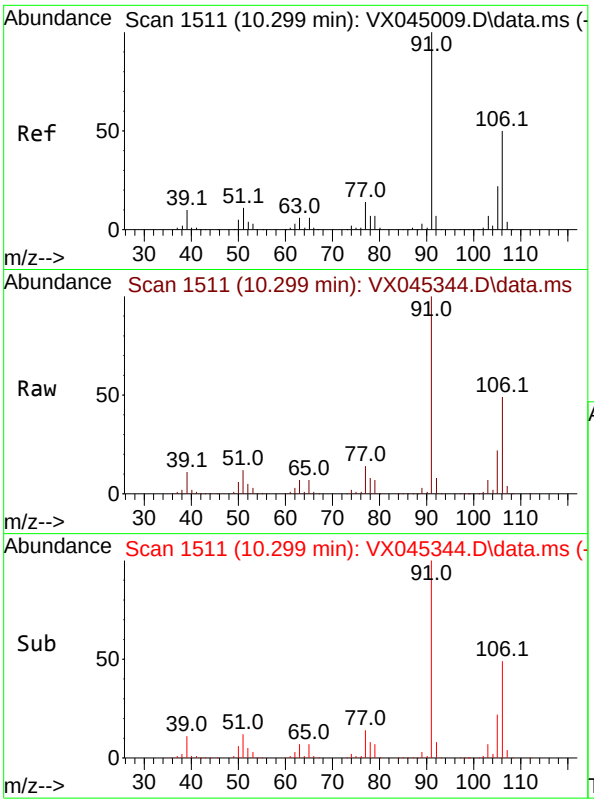


#66
Ethyl Benzene
Concen: 36.142 ug/l
RT: 10.189 min Scan# 1493
Delta R.T. -0.000 min
Lab File: VX045344.D
Acq: 19 Mar 2025 13:18

Tgt Ion: 91 Resp: 193001

Ion	Ratio	Lower	Upper
91	100		
106	30.2	25.4	38.2



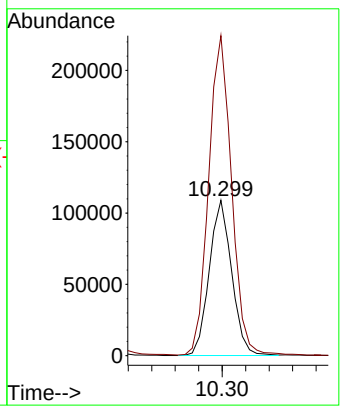


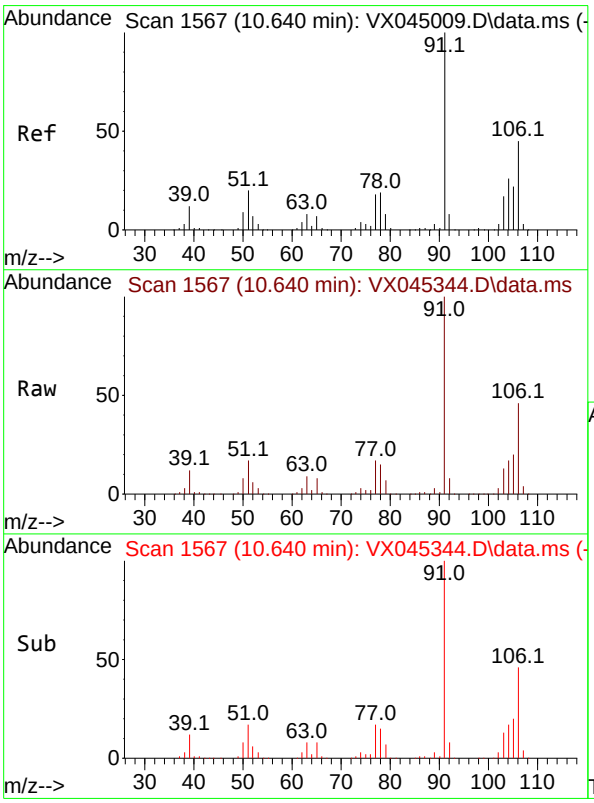
#67
m/p-Xylenes
Concen: 72.457 ug/l
RT: 10.299 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045344.D
Acq: 19 Mar 2025 13:18

Instrument :
MSVOA_X
ClientSampleId :
PT-VOA-WP

Tgt Ion:106 Resp: 144161

Ion	Ratio	Lower	Upper
106	100		
91	210.3	163.7	245.5

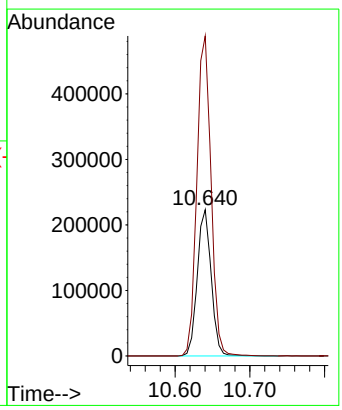


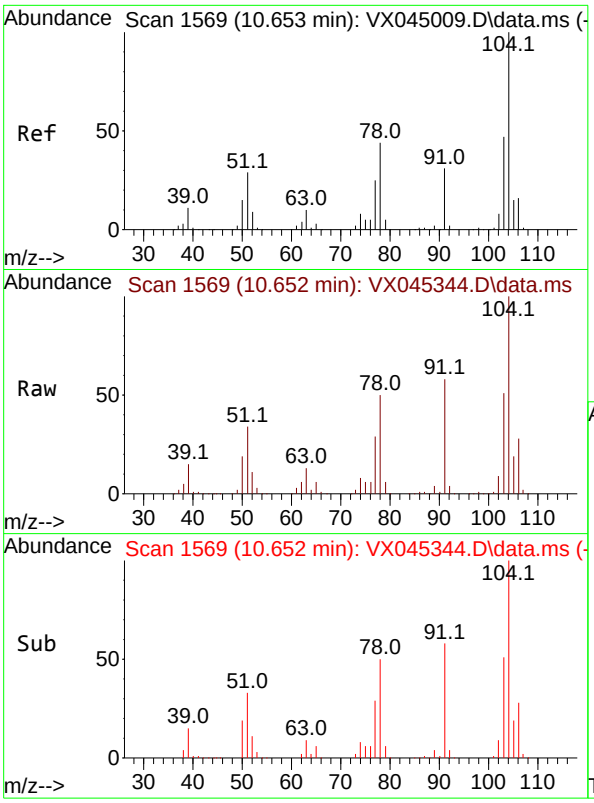


#68
o-Xylene
Concen: 147.631 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX045344.D
Acq: 19 Mar 2025 13:18

Tgt Ion:106 Resp: 288194

Ion	Ratio	Lower	Upper
106	100		
91	222.5	109.7	329.1



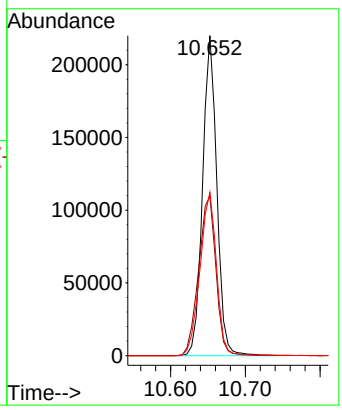


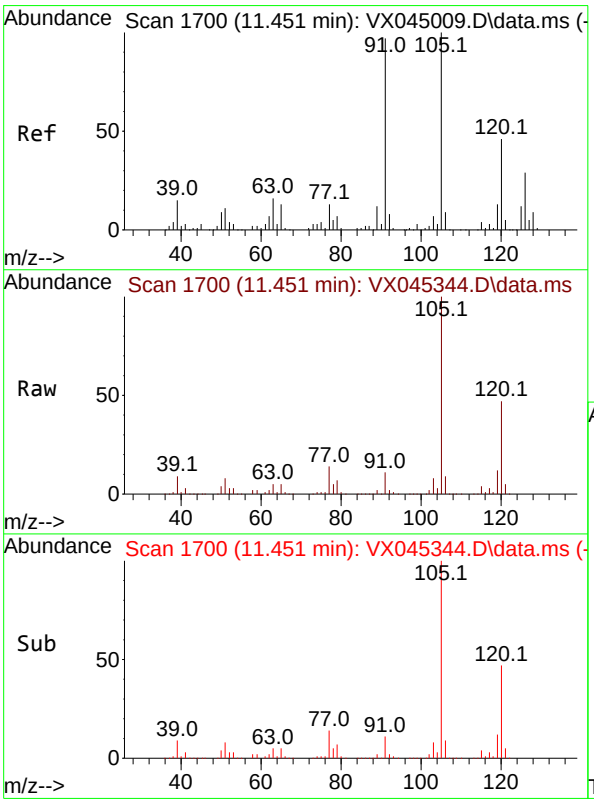
#69
Styrene
Concen: 89.295 ug/l
RT: 10.652 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045344.D
Acq: 19 Mar 2025 13:18

Instrument :
MSVOA_X
ClientSampleId :
PT-VOA-WP

Tgt Ion:104 Resp: 291135

Ion	Ratio	Lower	Upper
104	100		
78	60.5	41.4	62.0
103	59.1	43.0	64.4

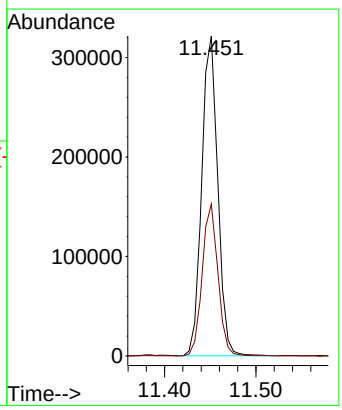


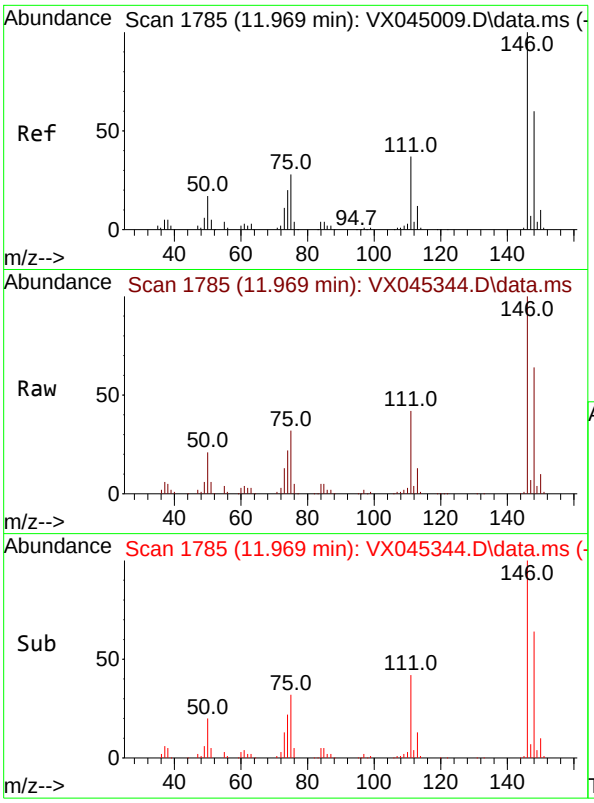


#76
1,3,5-Trimethylbenzene
Concen: 94.031 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX045344.D
Acq: 19 Mar 2025 13:18

Tgt Ion:105 Resp: 390792

Ion	Ratio	Lower	Upper
105	100		
120	46.6	0.0	94.4



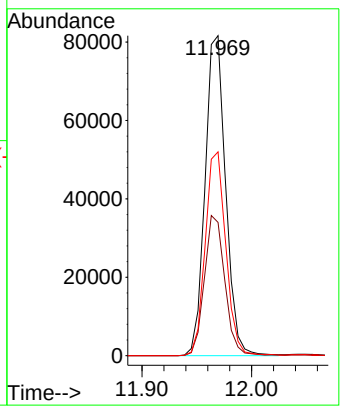


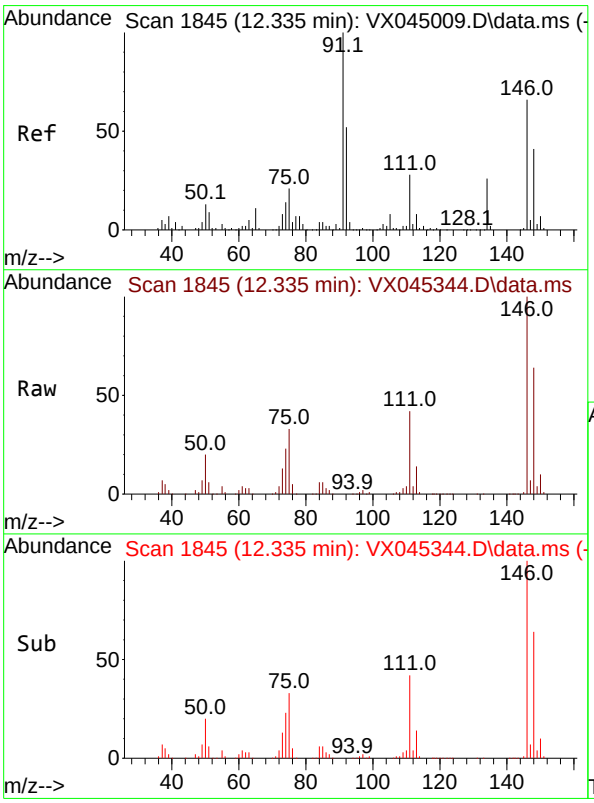
#83
1,3-Dichlorobenzene
Concen: 49.408 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045344.D
Acq: 19 Mar 2025 13:18

Instrument :
MSVOA_X
ClientSampleId :
PT-VOA-WP

Tgt Ion:146 Resp: 106609

Ion	Ratio	Lower	Upper
146	100		
111	43.4	20.2	60.5
148	63.8	31.2	93.6

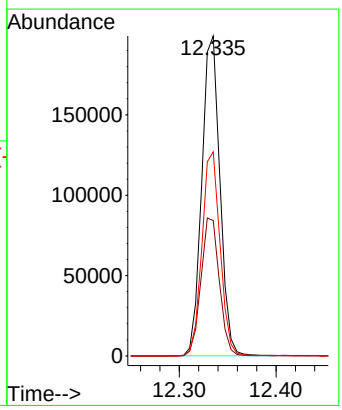


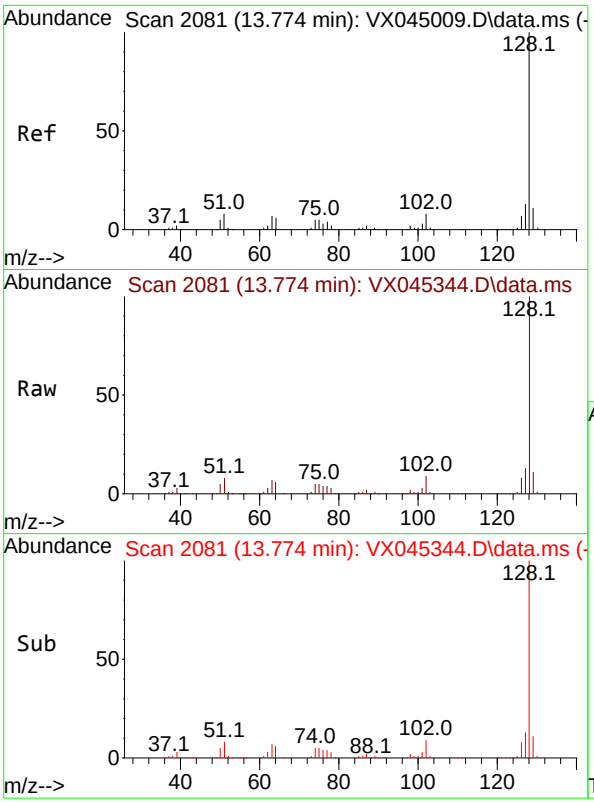


#87
1,2-Dichlorobenzene
Concen: 122.894 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. -0.000 min
Lab File: VX045344.D
Acq: 19 Mar 2025 13:18

Tgt Ion:146 Resp: 260184

Ion	Ratio	Lower	Upper
146	100		
111	43.8	21.7	65.1
148	63.6	31.8	95.4



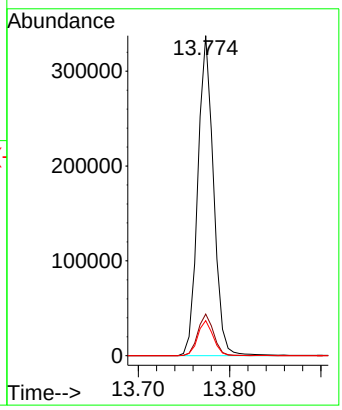


#91
Naphthalene
Concen: 88.698 ug/l
RT: 13.774 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045344.D
Acq: 19 Mar 2025 13:18

Instrument :
MSVOA_X
ClientSampleId :
PT-VOA-WP

Tgt Ion:128 Resp: 401318

Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.5	15.7
129	10.8	8.7	13.1



CALIBRATION SUMMARY

Alliance TECHNICAL GROUP

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: ALLI03

Lab Code: CHEM Case No.: Q1502 SAS No.: Q1502 SDG No.: Q1502

Instrument ID: MSVOA_X Calibration Date(s): 02/21/2025 02/21/2025

Heated Purge: (Y/N) N Calibration Time(s): 09:58 11:29

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

LAB FILE ID: RRF005 = VX045008.D RRF020 = VX045009.D RRF050 = VX045010.D
RRF100 = VX045011.D RRF150 = VX045012.D RRF =

COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	2.499	2.478	2.571	2.428	2.669		2.529	3.7
Chloromethane	3.021	2.986	3.118	2.875	3.145		3.029	3.6
Vinyl Chloride	2.916	2.831	2.918	2.825	3.124		2.923	4.1
Ethyl Acetate	0.552	0.578	0.610	0.606	0.642		0.598	5.7
Bromomethane	1.116	0.976	0.995	0.944	1.056		1.017	6.7
Chloroethane	1.821	1.663	1.752	1.466	1.212		1.583	15.6
Trichlorofluoromethane	3.982	3.712	3.968	3.809	4.170		3.928	4.5
1,1,2-Trichlorotrifluoroethane	2.377	2.192	2.362	2.241	2.493		2.333	5.1
1,1-Dichloroethene	2.200	2.142	2.300	2.262	2.491		2.279	5.8
Acrolein	0.504	0.473	0.527	0.540	0.608		0.530	9.5
Acrylonitrile	1.204	1.244	1.348	1.284	1.384		1.293	5.7
Acetone	0.371	0.352	0.354	0.338	0.358		0.355	3.4
Carbon Disulfide	6.269	5.990	6.491	6.437	7.134		6.464	6.5
Methyl tert-Butyl Ether	7.103	7.021	7.516	7.382	8.169		7.438	6.1
Methylene Chloride	2.462	2.482	2.619	2.509	2.745		2.563	4.6
trans-1,2-Dichloroethene	2.232	2.191	2.345	2.260	2.501		2.306	5.3
Vinyl Acetate	1.136	1.190	1.304	1.244	1.311		1.237	6.1
1,1-Dichloroethane	4.525	4.343	4.508	4.473	4.929		4.555	4.8
2-Butanone	0.320	0.310	0.333	0.308	0.323		0.319	3.2
Carbon Tetrachloride	0.572	0.548	0.576	0.544	0.581		0.564	3
2,2-Dichloropropane	0.614	0.588	0.635	0.616	0.667		0.624	4.7
cis-1,2-Dichloroethene	2.740	2.632	2.729	2.716	2.997		2.763	5
Chloroform	4.272	4.258	4.406	4.293	4.771		4.400	4.9
1,1,1-Trichloroethane	0.674	0.644	0.686	0.644	0.695		0.669	3.5
1,1-Dichloropropene	0.555	0.537	0.563	0.532	0.572		0.552	3.1
Benzene	1.746	1.697	1.785	1.670	1.756		1.731	2.7
1,2-Dichloroethane	0.598	0.581	0.600	0.577	0.607		0.592	2.2
Trichloroethene	0.407	0.400	0.412	0.390	0.415		0.405	2.5
1,2-Dichloropropane	0.430	0.425	0.427	0.427	0.444		0.430	1.8
Dibromomethane	0.318	0.301	0.311	0.298	0.315		0.309	2.9

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

Raw Data

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: ALLI03

Lab Code: CHEM Case No.: Q1502 SAS No.: Q1502 SDG No.: Q1502

Instrument ID: MSVOA_X Calibration Date(s): 02/21/2025 02/21/2025

Heated Purge: (Y/N) N Calibration Time(s): 09:58 11:29

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

LAB FILE ID: RRF005 = VX045008.D RRF020 = VX045009.D RRF050 = VX045010.D
RRF100 = VX045011.D RRF150 = VX045012.D RRF =

COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	$\overline{RRF}$	% RSD
Bromodichloromethane	0.610	0.593	0.625	0.601	0.639		0.614	3
4-Methyl-2-Pentanone	0.633	0.680	0.731	0.668	0.701		0.682	5.4
Toluene	2.015	1.952	1.995	1.956	2.019		1.987	1.6
t-1,3-Dichloropropene	0.527	0.530	0.616	0.618	0.666		0.591	10.3
cis-1,3-Dichloropropene	0.614	0.635	0.691	0.682	0.726		0.670	6.7
1,1,2-Trichloroethane	0.405	0.404	0.414	0.389	0.402		0.403	2.2
1,3-Dichloropropane	0.703	0.704	0.724	0.678	0.719		0.706	2.5
2-Chloroethyl vinyl ether	0.301	0.314	0.339	0.326	0.346		0.325	5.6
2-Hexanone	0.446	0.488	0.535	0.482	0.516		0.493	7
Dibromochloromethane	0.427	0.436	0.457	0.440	0.468		0.445	3.8
1,2-Dibromoethane	0.397	0.401	0.423	0.397	0.427		0.409	3.6
Tetrachloroethene	0.389	0.368	0.367	0.356	0.367		0.369	3.3
Chlorobenzene	1.223	1.214	1.244	1.220	1.257		1.231	1.5
1,1,1,2-Tetrachloroethane	0.401	0.394	0.408	0.399	0.429		0.406	3.3
Ethyl Benzene	2.094	2.100	2.220	2.178	2.286		2.176	3.7
m/p-Xylenes	0.785	0.816	0.823	0.799	0.831		0.811	2.3
o-Xylene	0.767	0.798	0.813	0.783	0.816		0.795	2.6
Styrene	1.259	1.318	1.363	1.316	1.386		1.328	3.7
Bromoform	0.251	0.258	0.298	0.281	0.308		0.279	8.9
Isopropylbenzene	1.981	2.041	2.089	2.026	2.126		2.053	2.7
1,1,2,2-Tetrachloroethane	0.665	0.664	0.703	0.647	0.695		0.675	3.4
1,2,3-Trichloropropane	0.539	0.540	0.583	0.540	0.574		0.555	3.9
Bromobenzene	0.462	0.467	0.485	0.463	0.486		0.473	2.5
n-propylbenzene	2.281	2.387	2.539	2.437	2.569		2.443	4.8
2-Chlorotoluene	1.465	1.468	1.503	1.431	1.516		1.477	2.3
1,3,5-Trimethylbenzene	1.638	1.691	1.750	1.654	1.733		1.693	2.9
4-Chlorotoluene	1.580	1.618	1.686	1.623	1.723		1.646	3.5
1,2,4-Trimethylbenzene	1.616	1.705	1.768	1.653	1.739		1.696	3.6
sec-Butylbenzene	2.056	2.118	2.210	2.094	2.228		2.141	3.5
p-Isopropyltoluene	1.614	1.709	1.811	1.733	1.808		1.735	4.7

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

Raw Data

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: CHEMTECH Contract: ALLI03

Lab Code: CHEM Case No.: Q1502 SAS No.: Q1502 SDG No.: Q1502

Instrument ID: MSVOA_X Calibration Date(s): 02/21/2025 02/21/2025

Heated Purge: (Y/N) N Calibration Time(s): 09:58 11:29

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

LAB FILE ID: RRF005 = VX045008.D RRF020 = VX045009.D RRF050 = VX045010.D
RRF100 = VX045011.D RRF150 = VX045012.D RRF =

COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	$\overline{RRF}$	% RSD
1,3-Dichlorobenzene	0.855	0.874	0.905	0.852	0.910		0.879	3.1
1,4-Dichlorobenzene	0.824	0.854	0.910	0.848	0.897		0.867	4.1
n-Butylbenzene	1.376	1.512	1.675	1.618	1.740		1.584	9
1,2-Dichlorobenzene	0.863	0.868	0.894	0.815	0.872		0.863	3.4
1,2-Dibromo-3-Chloropropane	0.126	0.121	0.133	0.129	0.145		0.131	7.1
1,2,4-Trichlorobenzene	0.461	0.490	0.541	0.539	0.583		0.523	9.1
Hexachlorobutadiene	0.217	0.209	0.213	0.206	0.221		0.213	2.8
Naphthalene	1.606	1.778	1.941	1.861	2.031		1.843	8.8
1,2,3-Trichlorobenzene	0.501	0.523	0.549	0.540	0.578		0.538	5.4
1,2-Dichloroethane-d4	2.881	2.881	2.843	2.920	3.044		2.914	2.7
Toluene-d8	1.652	1.669	1.650	1.677	1.651		1.660	0.7
4-Bromofluorobenzene	0.539	0.560	0.565	0.563	0.578		0.561	2.5

* 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.

Response Factor Report MSVOA_X2

Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\
Method File : 624X022125W.M
Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
Last Update : Sat Feb 22 01:06:36 2025
Response Via : Initial Calibration

Calibration Files
5 =VX045008.D 20 =VX045009.D 50 =VX045010.D 100 =VX045011.D 150 =VX045012.D

		Compound	5	20	50	100	150	Avg	%RSD
1)	I	Bromochloromethane	----------ISTD----------						
2)	M	Dichlorodifluoro...	2.499	2.478	2.571	2.428	2.669	2.529	3.70
3)	M	Chloromethane	3.021	2.986	3.118	2.875	3.145	3.029	3.58
4)	M	Vinyl Chloride	2.916	2.831	2.918	2.825	3.124	2.923	4.14
5)	M	Bromomethane	1.116	0.976	0.995	0.944	1.056	1.017	6.74
6)	M	Chloroethane	1.821	1.663	1.752	1.466	1.212	1.583	15.57
7)	M	Trichlorofluorom...	3.982	3.712	3.968	3.809	4.170	3.928	4.48
8)	T	Diethyl Ether	1.506	1.429	1.478	1.436	1.582	1.486	4.17
9)		1,1,2-Trichlorot...	2.377	2.192	2.362	2.241	2.493	2.333	5.11
10)	M	1,1-Dichloroethene	2.200	2.142	2.300	2.262	2.491	2.279	5.83
11)		Methyl Iodide	1.920	2.177	2.788	2.801	3.210	2.579	20.21
12)		Methyl Acetate	2.518	2.471	2.689	2.611	2.942	2.646	7.02
13)	M	Acrolein	0.504	0.473	0.527	0.540	0.608	0.530	9.46
14)	M	Acrylonitrile	1.204	1.243	1.348	1.284	1.384	1.293	5.70
15)	M	Acetone	0.371	0.352	0.354	0.338	0.358	0.355	3.40
16)	M	Carbon Disulfide	6.269	5.990	6.491	6.437	7.134	6.464	6.53
17)		Allyl chloride	4.066	3.950	4.321	4.259	4.716	4.262	6.89
18)	M	Methylene Chloride	2.462	2.482	2.619	2.509	2.745	2.563	4.61
19)	M	trans-1,2-Dichlo...	2.232	2.191	2.345	2.260	2.501	2.306	5.33
20)	T	Diisopropyl ether	7.764	7.784	8.372	8.138	8.897	8.191	5.73
21)	M	1,1-Dichloroethane	4.525	4.343	4.508	4.473	4.929	4.555	4.84
22)	M	cis-1,2-Dichloro...	2.740	2.632	2.729	2.716	2.997	2.763	4.98
23)	M	tert-Butyl Alcohol	0.440	0.425	0.475	0.435	0.481	0.451	5.63
24)	M	Methyl tert-Buty...	7.103	7.021	7.516	7.382	8.169	7.438	6.13
25)	M	Chloroform	4.272	4.258	4.406	4.293	4.771	4.400	4.90
26)		Cyclohexane	4.050	4.037	4.272	4.100	4.564	4.205	5.28
27)	s	1,2-Dichloroetha...	2.881	2.881	2.843	2.920	3.044	2.914	2.67
28)	I	1,4-Difluorobenzene	----------ISTD----------						
29)		1,1-Dichloropropene	0.555	0.537	0.563	0.532	0.572	0.552	3.11
30)	M	2-Butanone	0.320	0.310	0.333	0.308	0.323	0.319	3.25
31)		2,2-Dichloropropane	0.614	0.588	0.635	0.616	0.667	0.624	4.73
32)	M	1,1,1-Trichloroe...	0.674	0.644	0.686	0.644	0.695	0.669	3.51
33)	M	Carbon Tetrachlo...	0.572	0.548	0.576	0.544	0.581	0.564	3.01
34)	M	Benzene	1.746	1.697	1.785	1.670	1.756	1.731	2.69
35)		Methacrylonitrile	0.307	0.333	0.367	0.341	0.357	0.341	6.80
36)	M	1,2-Dichloroethane	0.598	0.581	0.600	0.577	0.607	0.592	2.20
37)	M	Trichloroethene	0.407	0.400	0.412	0.390	0.415	0.405	2.47
38)		Methylcyclohexane	0.747	0.700	0.763	0.724	0.770	0.741	3.89
39)	M	1,2-Dichloropropane	0.430	0.425	0.427	0.427	0.444	0.430	1.77
40)		Dibromomethane	0.318	0.301	0.311	0.298	0.315	0.309	2.87
41)	M	Bromodichloromet...	0.610	0.593	0.625	0.601	0.639	0.614	2.99
42)	M	Vinyl Acetate	1.136	1.190	1.304	1.244	1.311	1.237	6.06
43)		Ethyl Acetate	0.552	0.578	0.610	0.606	0.642	0.598	5.72
44)		Isopropyl Acetate	0.889	0.917	1.033	1.005	1.075	0.984	7.97
45)	T	1,4-Dioxane	0.010	0.010	0.011	0.010	0.010	0.010	6.57
46)		Methyl methacrylate	0.421	0.456	0.510	0.495	0.530	0.482	9.09
47)		n-amyl Acetate	0.721	0.803	0.922	0.862	0.962	0.854	11.20
48)	M	t-1,3-Dichloropr...	0.527	0.530	0.616	0.618	0.666	0.591	10.28
49)	T	cis-1,3-Dichloro...	0.614	0.635	0.691	0.682	0.726	0.670	6.72
50)	M	1,1,2-Trichloroe...	0.405	0.404	0.414	0.389	0.402	0.403	2.21
51)		Ethyl methacrylate	0.543	0.586	0.676	0.653	0.709	0.633	10.70
52)		1,3-Dichloropropane	0.703	0.704	0.724	0.678	0.719	0.706	2.53
53)	M	Dibromochloromet...	0.427	0.436	0.457	0.440	0.468	0.445	3.76
54)	M	1,2-Dibromoethane	0.397	0.401	0.423	0.397	0.427	0.409	3.59
55)	M	2-Chloroethyl vi...	0.301	0.314	0.339	0.326	0.346	0.325	5.64
56)	M	Bromoform	0.251	0.258	0.298	0.281	0.308	0.279	8.85

Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\
Method File : 624X022125W.M

57)	I	Chlorobenzene-d5	----------ISTD----------						
58)	M	4-Methyl-2-Penta...	0.633	0.680	0.731	0.668	0.701	0.682	5.37
59)	M	2-Hexanone	0.446	0.488	0.535	0.482	0.516	0.493	6.96
60)	S	4-Bromofluoroben...	0.539	0.560	0.565	0.563	0.578	0.561	2.47
61)	M	Tetrachloroethene	0.389	0.368	0.367	0.356	0.367	0.369	3.28
62)	M	Toluene	2.015	1.952	1.995	1.956	2.019	1.987	1.61
63)	S	Toluene-d8	1.652	1.669	1.650	1.677	1.651	1.660	0.75
64)	M	Chlorobenzene	1.223	1.214	1.244	1.220	1.257	1.231	1.49
65)		1,1,1,2-Tetrachl...	0.401	0.394	0.408	0.399	0.429	0.406	3.32
66)	M	Ethyl Benzene	2.094	2.100	2.220	2.178	2.286	2.176	3.74
67)	M	m/p-Xylenes	0.785	0.816	0.823	0.799	0.831	0.811	2.32
68)	M	o-Xylene	0.767	0.798	0.813	0.783	0.816	0.795	2.58
69)	M	Styrene	1.259	1.318	1.363	1.316	1.386	1.328	3.67
70)		Isopropylbenzene	1.981	2.041	2.089	2.026	2.126	2.053	2.74
71)	M	1,1,2,2-Tetrachl...	0.665	0.664	0.703	0.647	0.695	0.675	3.44
72)		1,2,3-Trichlorop...	0.539	0.540	0.583	0.540	0.574	0.555	3.90
73)		Bromobenzene	0.462	0.467	0.485	0.463	0.486	0.473	2.52
74)		n-propylbenzene	2.281	2.387	2.539	2.437	2.569	2.443	4.78
75)		2-Chlorotoluene	1.465	1.468	1.503	1.431	1.516	1.477	2.27
76)		1,3,5-Trimethylb...	1.638	1.691	1.750	1.654	1.733	1.693	2.85
77)		t-1,4-Dichloro-2...	0.133	0.160	0.199	0.203	0.239	0.187	22.02
78)		4-Chlorotoluene	1.580	1.618	1.686	1.623	1.723	1.646	3.50
79)		tert-butylbenzene	1.628	1.703	1.779	1.667	1.753	1.706	3.61
80)		1,2,4-Trimethylb...	1.616	1.705	1.768	1.653	1.739	1.696	3.65
81)		sec-Butylbenzene	2.056	2.118	2.210	2.094	2.228	2.141	3.49
82)		p-Isopropyltoluene	1.614	1.709	1.811	1.733	1.808	1.735	4.67
83)	M	1,3-Dichlorobenzene	0.855	0.874	0.905	0.852	0.910	0.879	3.12
84)	M	1,4-Dichlorobenzene	0.824	0.854	0.910	0.848	0.897	0.867	4.12
85)		n-Butylbenzene	1.376	1.512	1.675	1.618	1.740	1.584	9.04
86)	T	Hexachloroethane	0.264	0.282	0.322	0.314	0.349	0.306	10.94
87)	M	1,2-Dichlorobenzene	0.863	0.868	0.894	0.815	0.872	0.863	3.36
88)		1,2-Dibromo-3-Ch...	0.126	0.121	0.133	0.129	0.145	0.131	7.06
89)		1,2,4-Trichlorob...	0.461	0.490	0.541	0.539	0.583	0.523	9.08
90)		Hexachlorobutadiene	0.217	0.209	0.213	0.206	0.221	0.213	2.76
91)	M	Naphthalene	1.606	1.778	1.941	1.861	2.031	1.843	8.81
92)		1,2,3-Trichlorob...	0.501	0.523	0.549	0.540	0.578	0.538	5.35

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022125\
Data File : VX045008.D
Acq On : 21 Feb 2025 09:58
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 22 00:46:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X022125W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Feb 22 00:21:26 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	4.885	128	19850	30.000	ug/l		0.00
28) 1,4-Difluorobenzene	6.751	114	107647	30.000	ug/l		0.00
57) Chlorobenzene-d5	10.049	117	98661	30.000	ug/l		0.00
System Monitoring Compounds							
27) 1,2-Dichloroethane-d4	5.946	65	57190	29.664	ug/l		0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 98.867%				
60) 4-Bromofluorobenzene	11.079	95	53212	28.855	ug/l		0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 96.200%				
63) Toluene-d8	8.641	98	163004	29.865	ug/l		0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.533%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.167	85	8269	4.942	ug/l		90
3) Chloromethane	1.295	50	9993	4.986	ug/l		99
4) Vinyl Chloride	1.374	62	9648	4.989	ug/l		97
5) Bromomethane	1.593	94	3693	5.486	ug/l		95
6) Chloroethane	1.666	64	6026	5.753	ug/l	#	88
7) Trichlorofluoromethane	1.874	101	13174	5.068	ug/l		95
8) Diethyl Ether	2.130	74	4984	5.068	ug/l		100
9) 1,1,2-Trichlorotrifluo...	2.319	101	7865	5.095	ug/l		99
10) 1,1-Dichloroethene	2.313	96	7277	4.826	ug/l		90
11) Methyl Iodide	2.447	142	6353	3.722	ug/l		92
12) Methyl Acetate	2.697	43	8331	4.758	ug/l		99
13) Acrolein	2.233	56	8331	23.736	ug/l		98
14) Acrylonitrile	3.063	53	19916	23.285	ug/l		98
15) Acetone	2.380	58	6140	26.175	ug/l		89
16) Carbon Disulfide	2.502	76	20739	4.849	ug/l		98
17) Allyl chloride	2.654	41	13453	4.770	ug/l		99
18) Methylene Chloride	2.782	84	8146	4.803	ug/l		96
19) trans-1,2-Dichloroethene	3.081	96	7385	4.841	ug/l		90
20) Diisopropyl ether	3.751	45	25687	4.740	ug/l	#	87
21) 1,1-Dichloroethane	3.599	63	14970	4.967	ug/l		99
22) cis-1,2-Dichloroethene	4.477	96	9065	4.959	ug/l		95
23) tert-Butyl Alcohol	2.971	59	7280m	24.352	ug/l		
24) Methyl tert-Butyl Ether	3.105	73	23498	4.775	ug/l		96
25) Chloroform	5.087	83	14134	4.855	ug/l		99
26) Cyclohexane	5.452	56	13400	4.816	ug/l	#	98
29) 1,1-Dichloropropene	5.690	75	9965	5.032	ug/l		97
30) 2-Butanone	4.562	43	28712	25.103	ug/l		97
31) 2,2-Dichloropropane	4.459	77	11020	4.922	ug/l	#	69
32) 1,1,1-Trichloroethane	5.373	97	12088	5.038	ug/l		99
33) Carbon Tetrachloride	5.666	117	10269	5.071	ug/l		91
34) Benzene	6.031	78	31321	5.044	ug/l		97
35) Methacrylonitrile	4.916	41	5515m	4.506	ug/l		
36) 1,2-Dichloroethane	6.074	62	10725	5.045	ug/l	#	82
37) Trichloroethene	7.123	130	7309	5.031	ug/l		95
38) Methylcyclohexane	7.373	83	13407	5.042	ug/l		95
39) 1,2-Dichloropropane	7.428	63	7710	4.994	ug/l		96
40) Dibromomethane	7.574	93	5709	5.153	ug/l		97
41) Bromodichloromethane	7.818	83	10949	4.973	ug/l		97
42) Vinyl Acetate	3.715	43	101864	22.951	ug/l		100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022125\
Data File : VX045008.D
Acq On : 21 Feb 2025 09:58
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 22 00:46:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X022125W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Feb 22 00:21:26 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
43) Ethyl Acetate	4.709	43	9903	4.617 ug/l #	78
44) Isopropyl Acetate	6.336	43	15951	4.518 ug/l	95
45) 1,4-Dioxane	7.665	88	3476	94.718 ug/l #	94
46) Methyl methacrylate	7.696	41	7550	4.362 ug/l	95
47) n-amyl Acetate	10.842	43	12931	4.221 ug/l	99
48) t-1,3-Dichloropropene	8.976	75	9461	4.458 ug/l	95
49) cis-1,3-Dichloropropene	8.366	75	11016	4.585 ug/l	98
50) 1,1,2-Trichloroethane	9.147	97	7268	5.030 ug/l	96
51) Ethyl methacrylate	9.116	69	9742	4.287 ug/l	97
52) 1,3-Dichloropropane	9.305	76	12611	4.981 ug/l	99
53) Dibromochloromethane	9.519	129	7657	4.791 ug/l	97
54) 1,2-Dibromoethane	9.610	107	7119	4.851 ug/l	95
55) 2-Chloroethyl vinyl ether	8.238	63	26987	23.123 ug/l	97
56) Bromoform	10.799	173	4498	4.491 ug/l	97
58) 4-Methyl-2-Pentanone	8.568	43	52017	23.177 ug/l	99
59) 2-Hexanone	9.427	43	36637	22.584 ug/l	99
61) Tetrachloroethene	9.269	164	6401	5.269 ug/l	99
62) Toluene	8.714	91	33141	5.071 ug/l	95
64) Chlorobenzene	10.073	112	20106	4.965 ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.159	131	6593	4.934 ug/l	98
66) Ethyl Benzene	10.189	91	34439	4.813 ug/l	97
67) m/p-Xylenes	10.299	106	25804	9.679 ug/l	98
68) o-Xylene	10.640	106	12618	4.824 ug/l	97
69) Styrene	10.653	104	20710	4.741 ug/l	97
70) Isopropylbenzene	10.957	105	32576	4.826 ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.207	83	10940	4.929 ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	8856m	4.851 ug/l	
73) Bromobenzene	11.195	156	7592	4.886 ug/l	99
74) n-propylbenzene	11.299	91	37507	4.669 ug/l	99
75) 2-Chlorotoluene	11.360	91	24091	4.961 ug/l	97
76) 1,3,5-Trimethylbenzene	11.445	105	26935	4.837 ug/l	97
77) t-1,4-Dichloro-2-butene	11.018	75	2182	3.552 ug/l	82
78) 4-Chlorotoluene	11.451	91	25983	4.800 ug/l	99
79) tert-butylbenzene	11.713	119	26773	4.772 ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	26568	4.763 ug/l	97
81) sec-Butylbenzene	11.884	105	33807	4.801 ug/l	99
82) p-Isopropyltoluene	12.006	119	26547	4.653 ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	14060	4.863 ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	13556	4.755 ug/l	95
85) n-Butylbenzene	12.329	91	22634	4.344 ug/l	99
86) Hexachloroethane	12.536	117	4340	4.313 ug/l	98
87) 1,2-Dichlorobenzene	12.335	146	14188	5.001 ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.939	75	2067	4.810 ug/l	86
89) 1,2,4-Trichlorobenzene	13.585	180	7586	4.412 ug/l	98
90) Hexachlorobutadiene	13.725	225	3570	5.091 ug/l	96
91) Naphthalene	13.774	128	26410	4.356 ug/l	99
92) 1,2,3-Trichlorobenzene	13.957	180	8240	4.655 ug/l	99

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

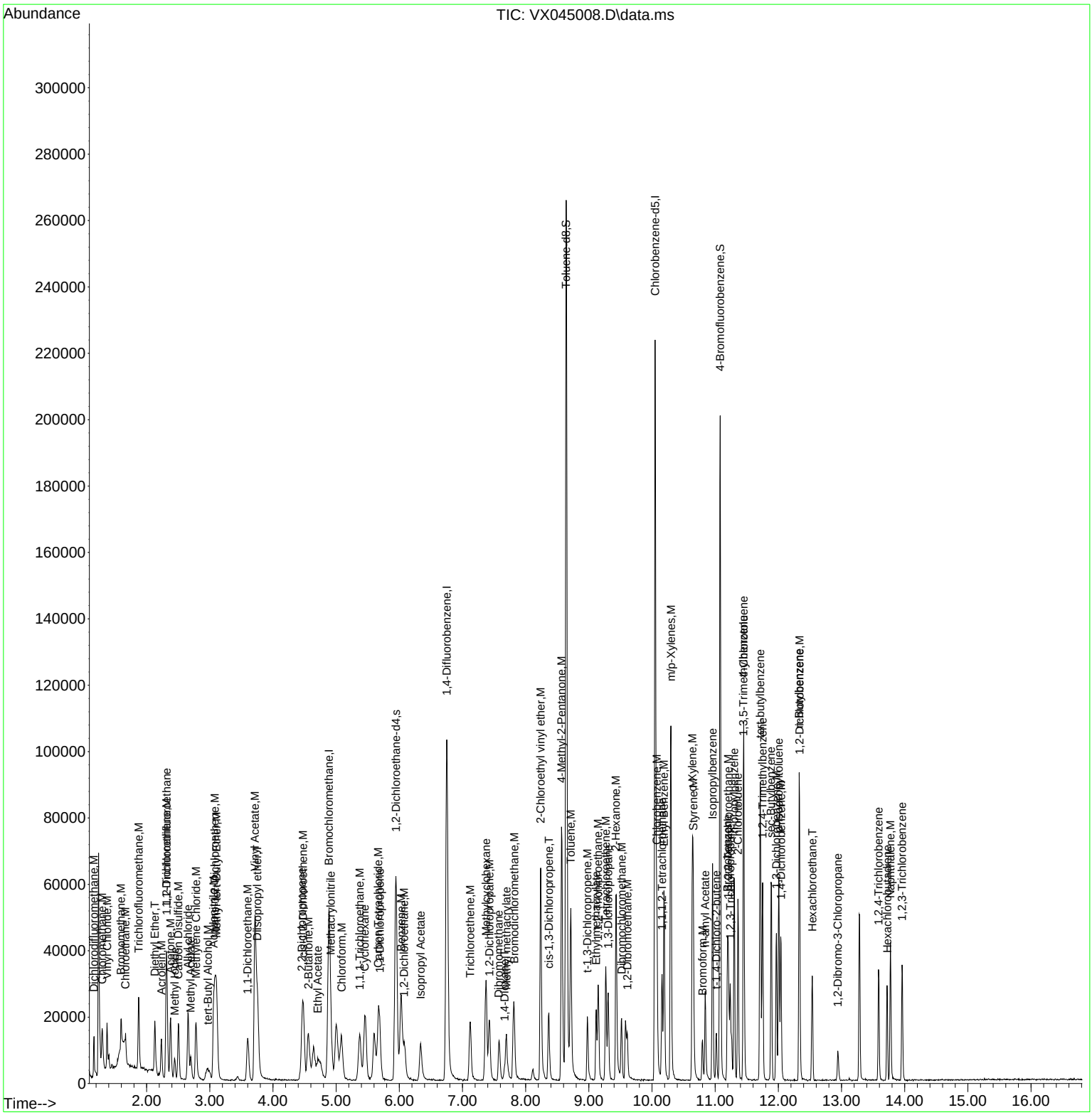
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022125\
Data File : VX045008.D
Acq On : 21 Feb 2025 09:58
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

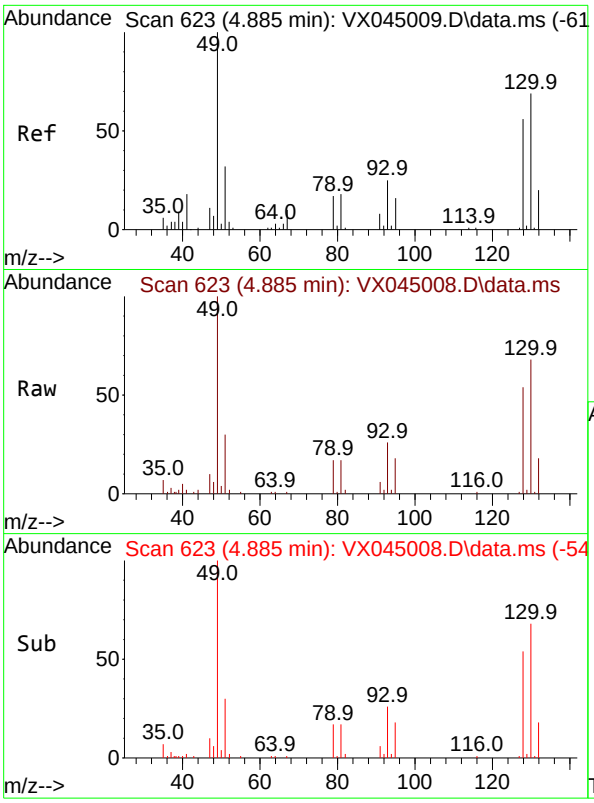
Quant Time: Feb 22 00:46:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X022125W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Feb 22 00:21:26 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

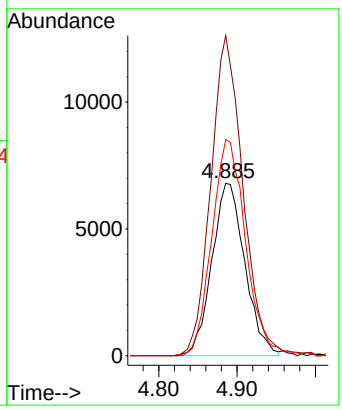




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.885 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion:128 Resp: 1985

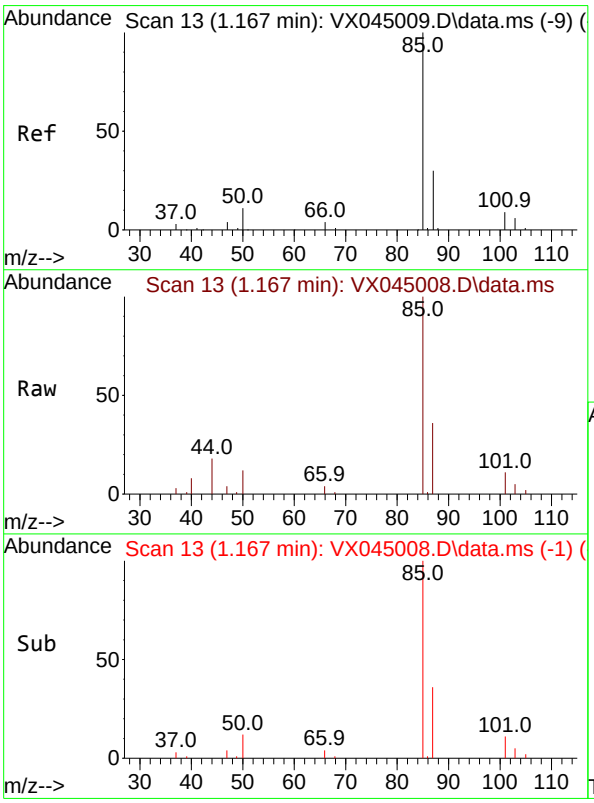
Ion	Ratio	Lower	Upper
128	100		
49	181.3	0.0	449.7
130	128.7	0.0	312.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

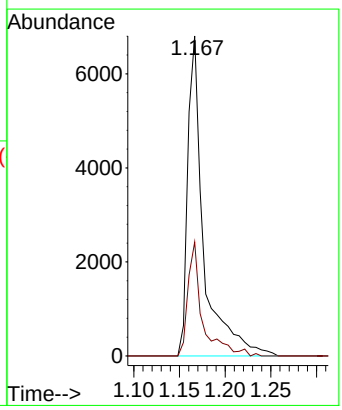
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

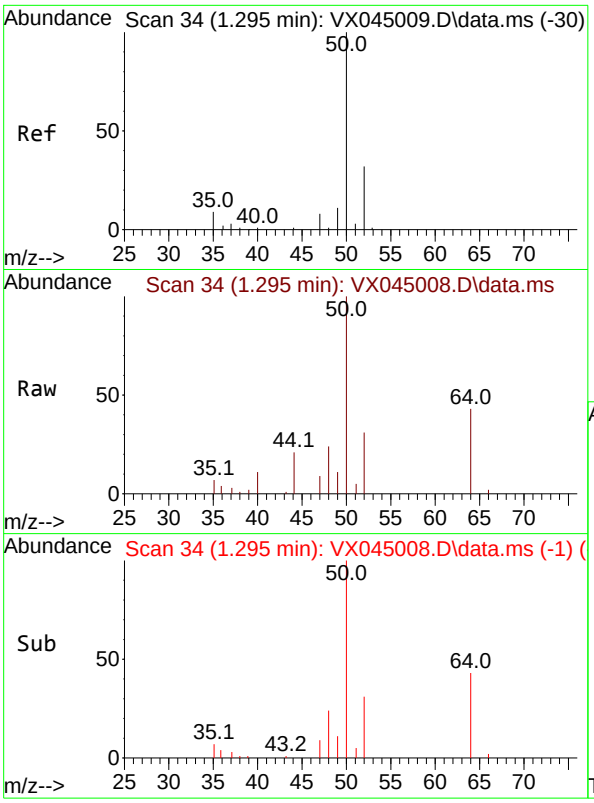


#2
Dichlorodifluoromethane
Concen: 4.942 ug/l
RT: 1.167 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion: 85 Resp: 8269

Ion	Ratio	Lower	Upper
85	100		
87	35.6	15.1	45.3

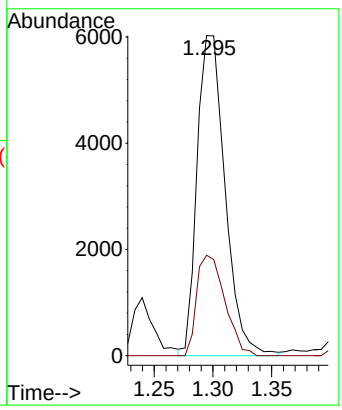




#3
Chloromethane
Concen: 4.986 ug/l
RT: 1.295 min Scan# 34
Delta R.T. -0.000 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion: 50 Resp: 999

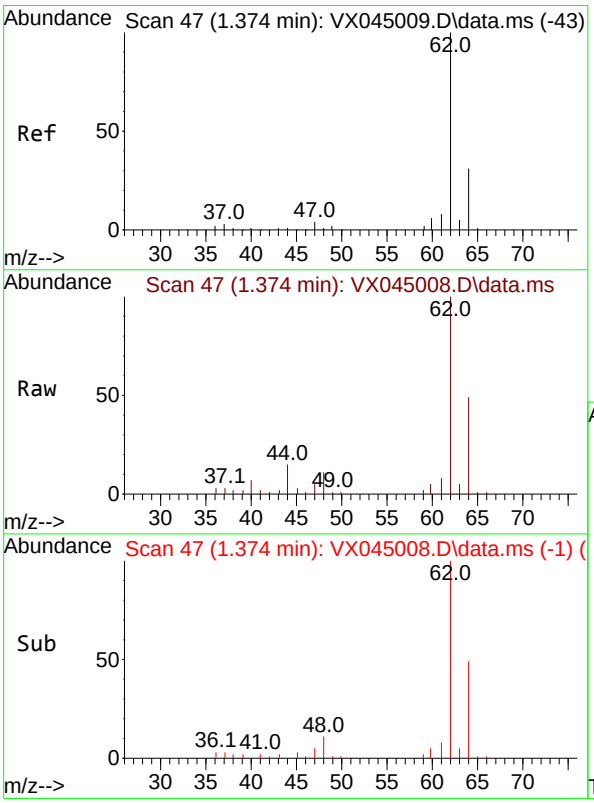
Ion	Ratio	Lower	Upper
50	100		
52	31.7	25.7	38.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

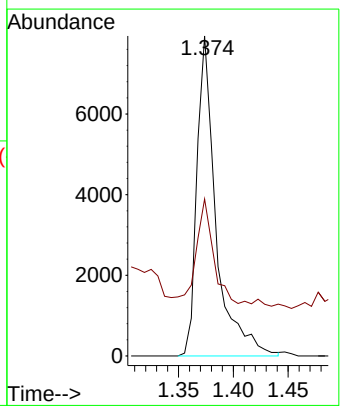
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

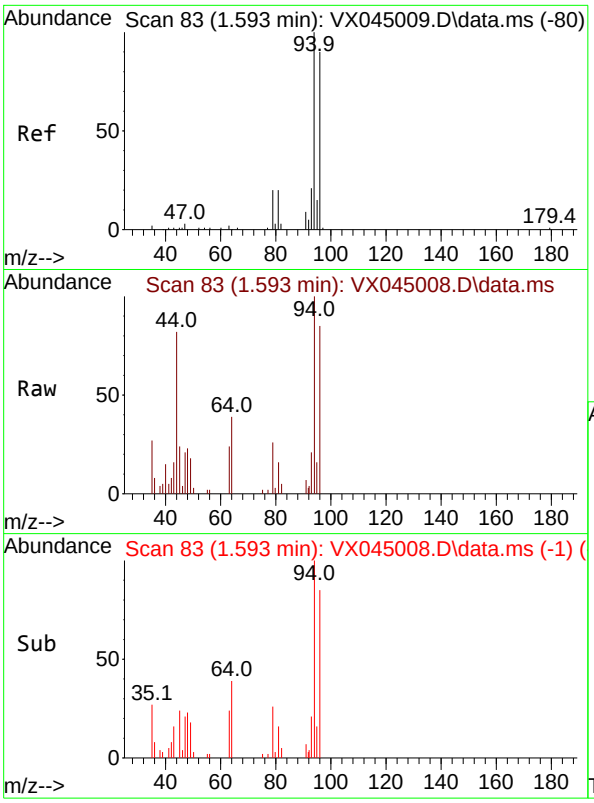


#4
Vinyl Chloride
Concen: 4.989 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion: 62 Resp: 9648

Ion	Ratio	Lower	Upper
62	100		
64	32.8	25.1	37.7





#5
Bromomethane
Concen: 5.486 ug/l
RT: 1.593 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

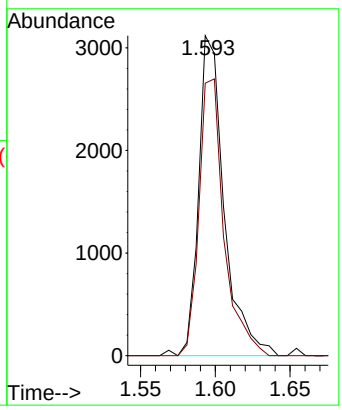
Tgt Ion: 94 Resp: 369

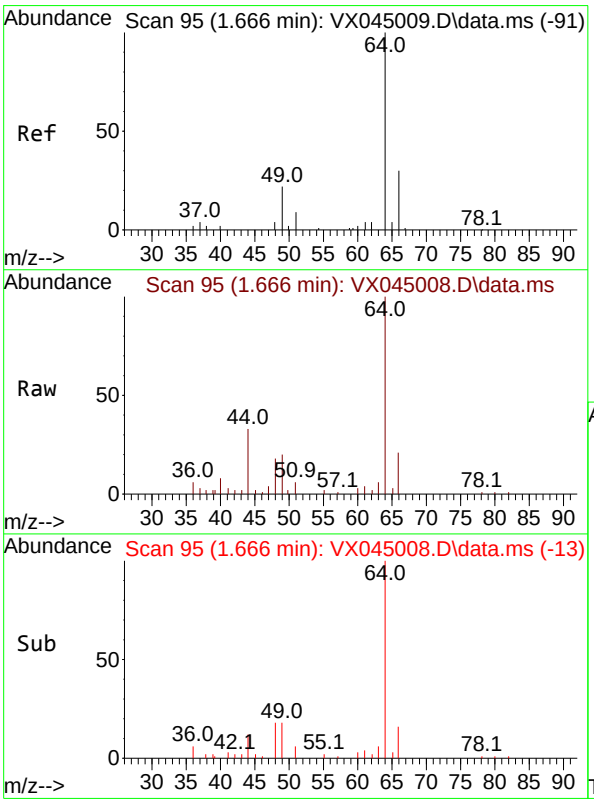
Ion	Ratio	Lower	Upper
94	100		
96	85.2	72.2	108.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

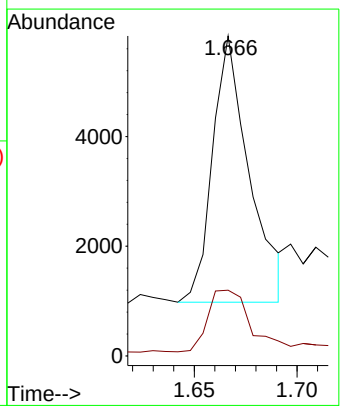


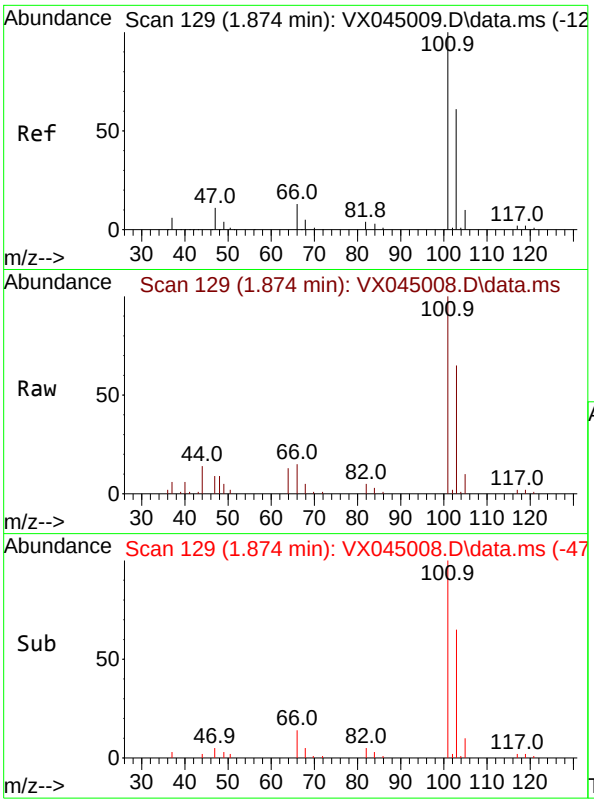


#6
Chloroethane
Concen: 5.753 ug/l
RT: 1.666 min Scan# 95
Delta R.T. -0.000 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion: 64 Resp: 6026

Ion	Ratio	Lower	Upper
64	100		
66	23.1	23.7	35.5#

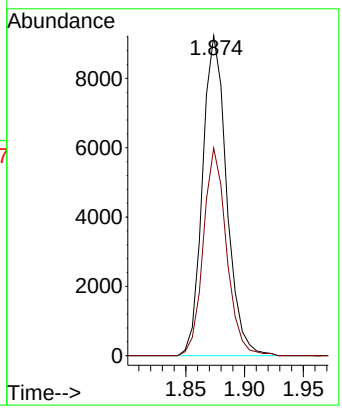




#7
Trichlorofluoromethane
Concen: 5.068 ug/l
RT: 1.874 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion:101 Resp: 1317

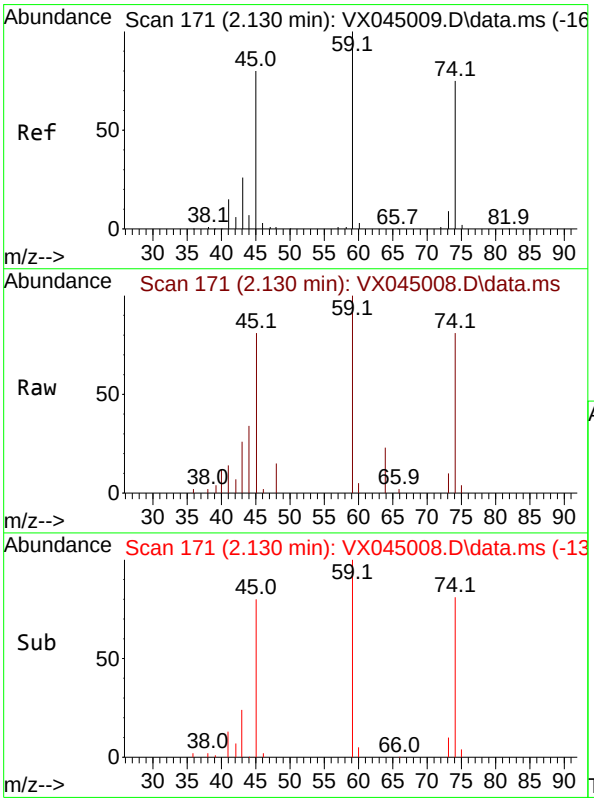
Ion	Ratio	Lower	Upper
101	100		
103	64.8	48.8	73.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

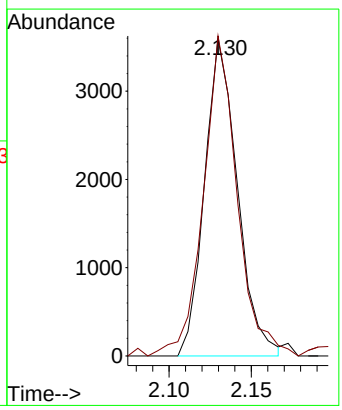
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

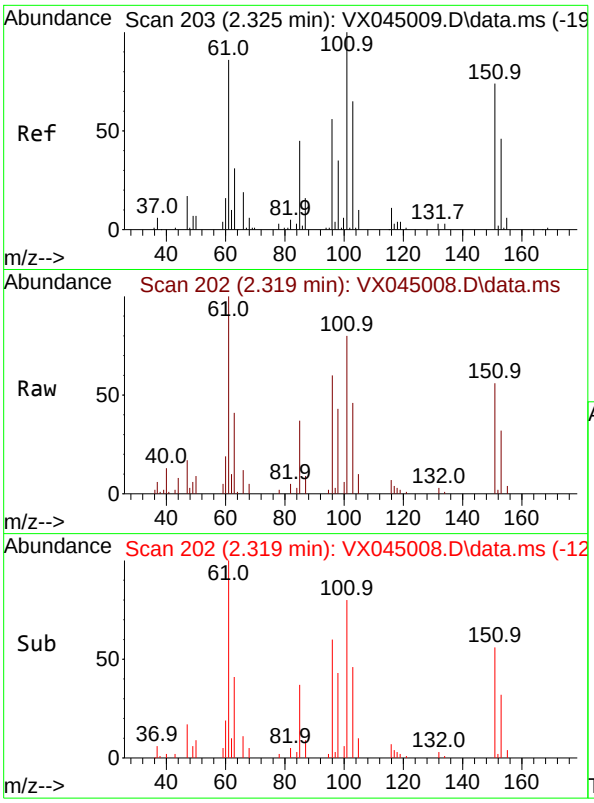


#8
Diethyl Ether
Concen: 5.068 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.000 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion: 74 Resp: 4984

Ion	Ratio	Lower	Upper
74	100		
45	103.9	20.8	186.8





#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.095 ug/l
RT: 2.319 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

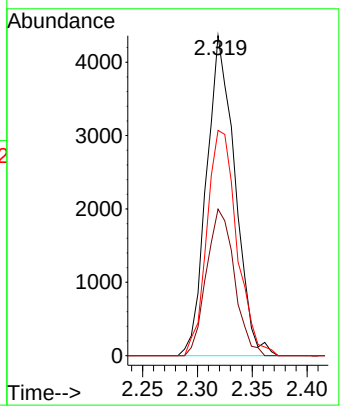
Tgt Ion:101 Resp: 786

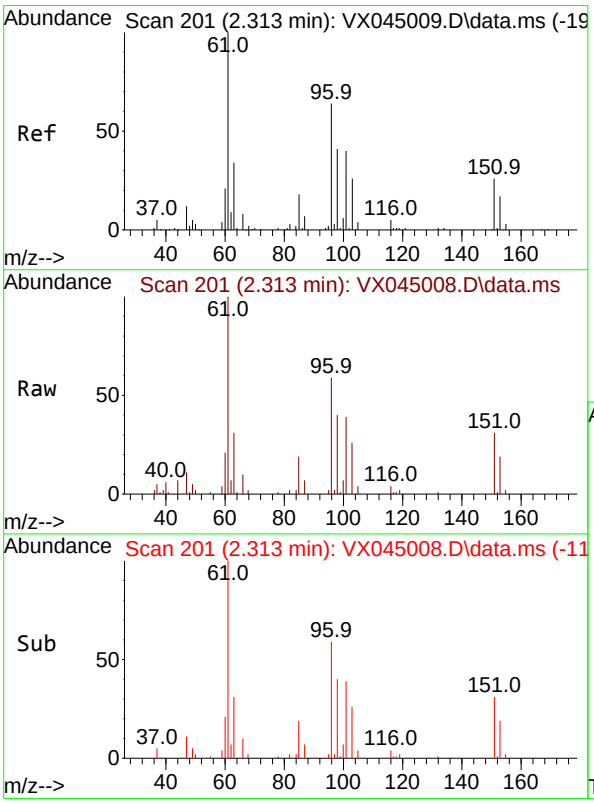
Ion	Ratio	Lower	Upper
101	100		
85	45.0	0.0	90.6
151	74.3	0.0	147.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

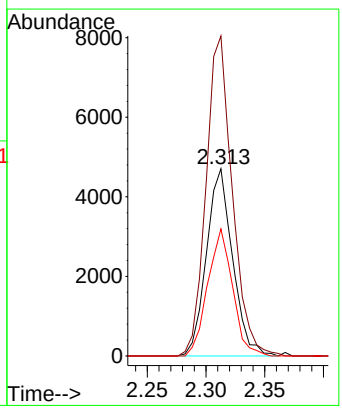


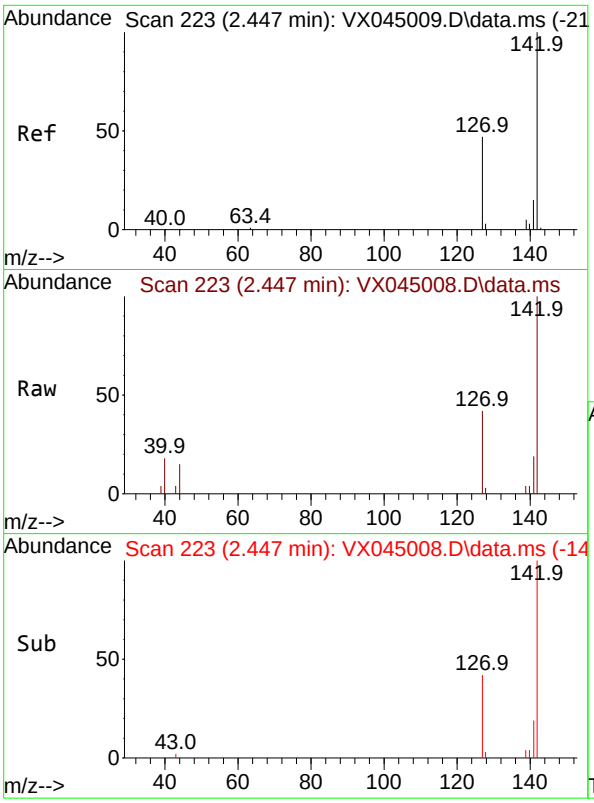


#10
1,1-Dichloroethene
Concen: 4.826 ug/l
RT: 2.313 min Scan# 201
Delta R.T. -0.000 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion: 96 Resp: 7277

Ion	Ratio	Lower	Upper
96	100		
61	170.9	124.2	186.2
98	67.8	51.1	76.7





#11
Methyl Iodide
Concen: 3.722 ug/l
RT: 2.447 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion:142 Resp: 635

Ion	Ratio	Lower	Upper
142	100		
127	42.0	23.3	69.9
141	18.9	7.5	22.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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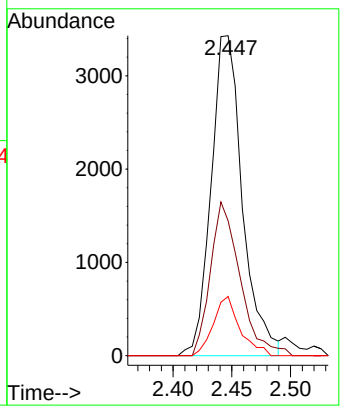
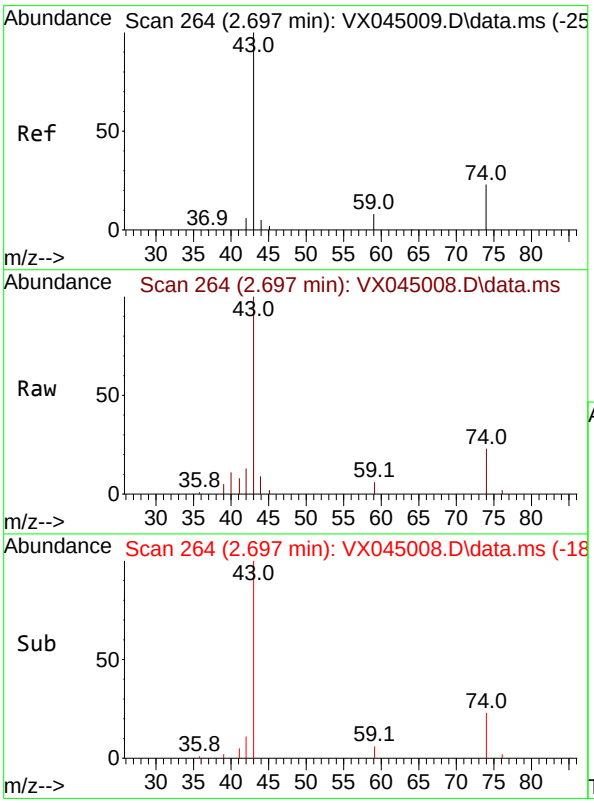
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

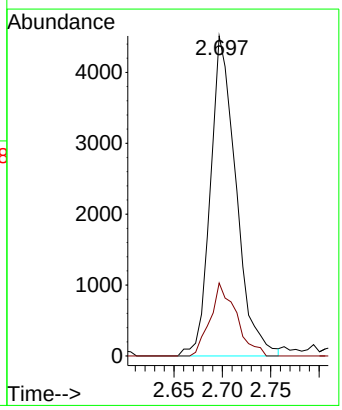


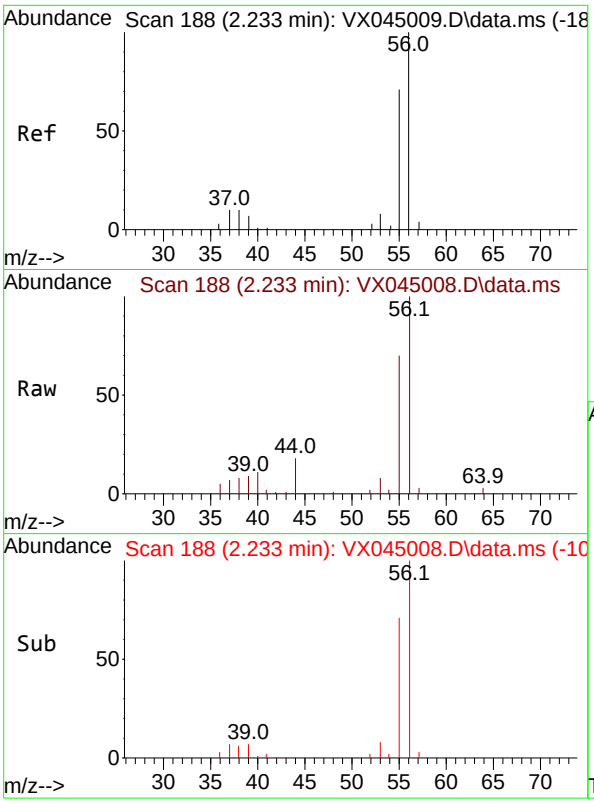


#12
Methyl Acetate
Concen: 4.758 ug/l
RT: 2.697 min Scan# 264
Delta R.T. -0.000 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion: 43 Resp: 8331

Ion	Ratio	Lower	Upper
43	100		
74	23.1	17.9	26.9





#13
Acrolein
Concen: 23.736 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion: 56 Resp: 833

Ion	Ratio	Lower	Upper
56	100		
55	71.2	55.4	83.2

Instrument :
MSVOA_X
ClientSampleId :
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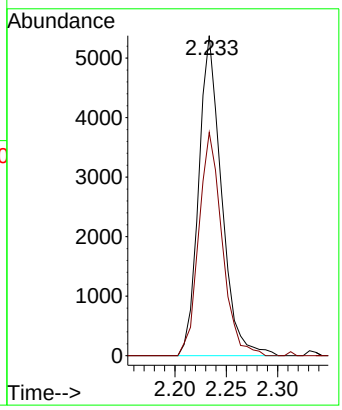
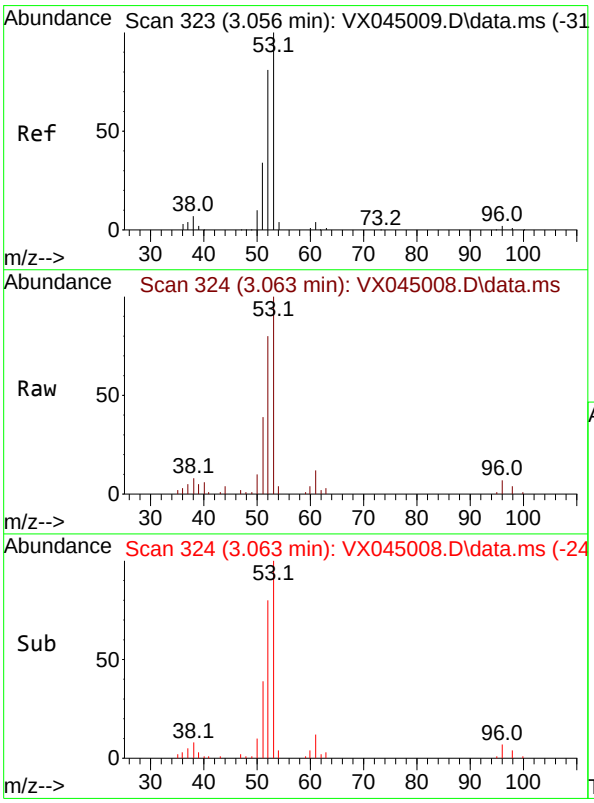
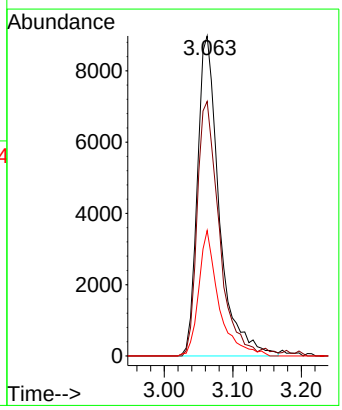


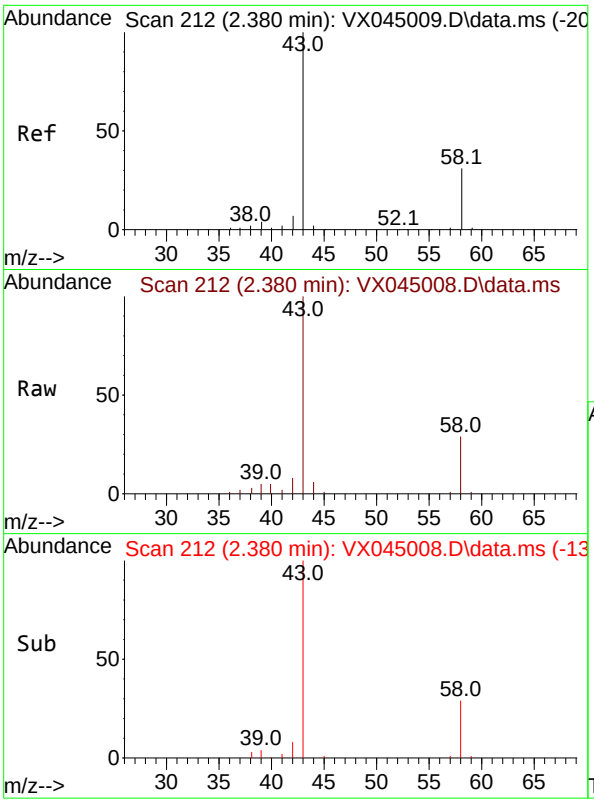


#14
Acrylonitrile
Concen: 23.285 ug/l
RT: 3.063 min Scan# 324
Delta R.T. 0.006 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion: 53 Resp: 19916

Ion	Ratio	Lower	Upper
53	100		
52	79.7	40.9	122.8
51	36.2	18.0	54.0

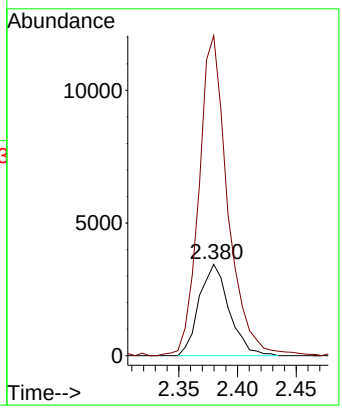




#15
Acetone
Concen: 26.175 ug/l
RT: 2.380 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion: 58 Resp: 614

Ion	Ratio	Lower	Upper
58	100		
43	345.3	258.6	388.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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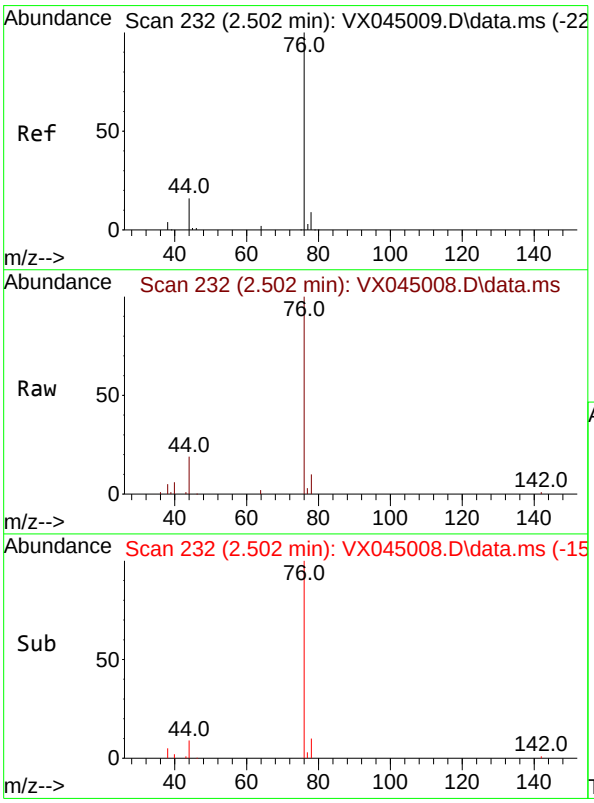
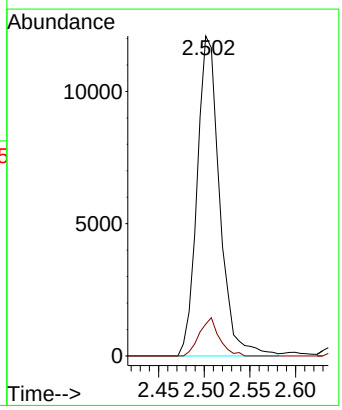
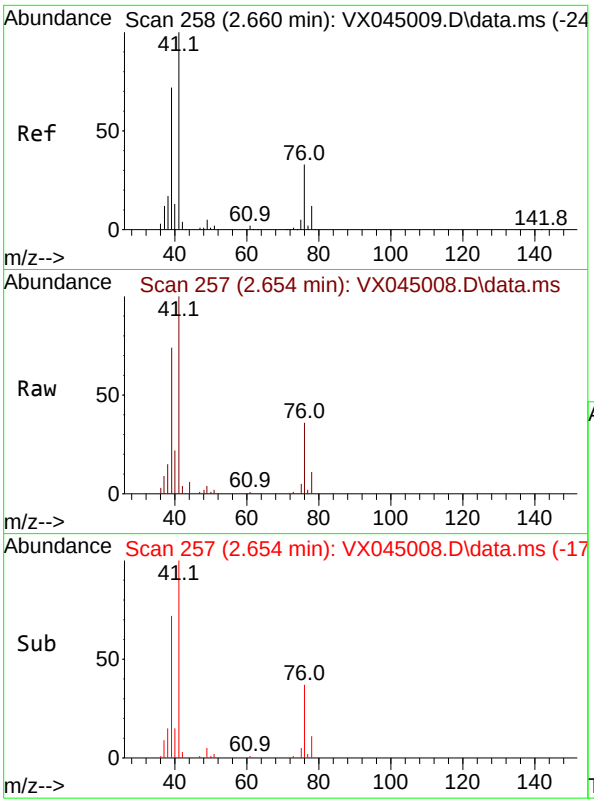


#16
Carbon Disulfide
Concen: 4.849 ug/l
RT: 2.502 min Scan# 232
Delta R.T. -0.000 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion: 76 Resp: 20739

Ion	Ratio	Lower	Upper
76	100		
78	9.9	7.3	10.9

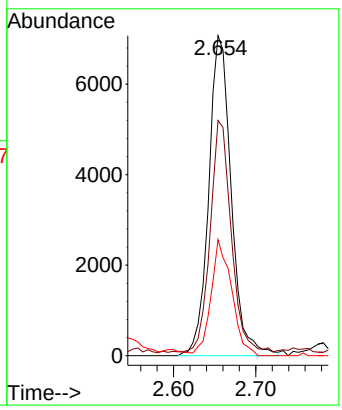




#17
Allyl chloride
Concen: 4.770 ug/l
RT: 2.654 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion: 41 Resp: 1345

Ion	Ratio	Lower	Upper
41	100		
39	72.3	36.2	108.6
76	36.3	17.2	51.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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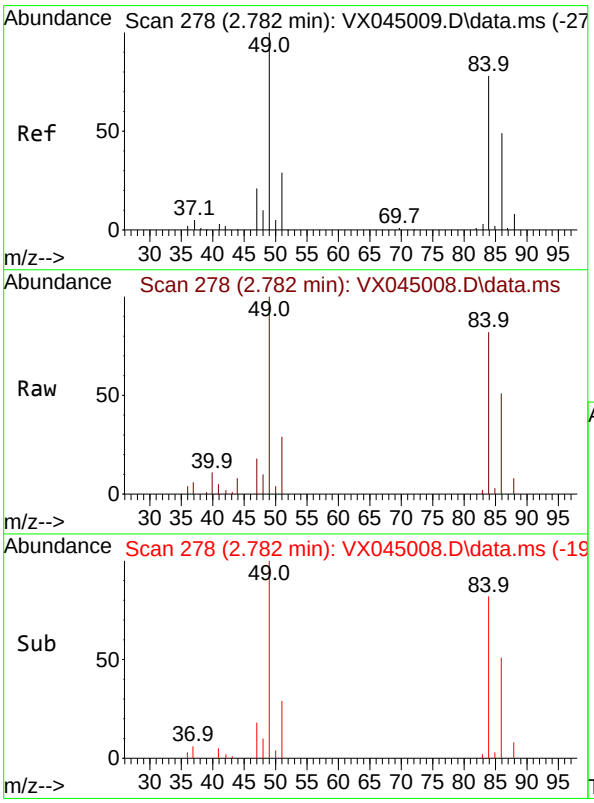
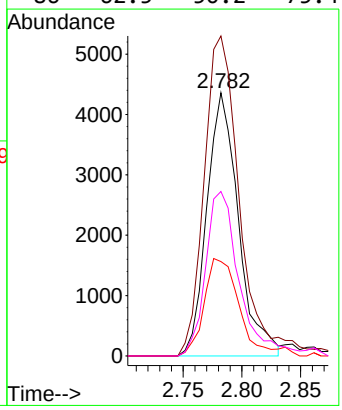
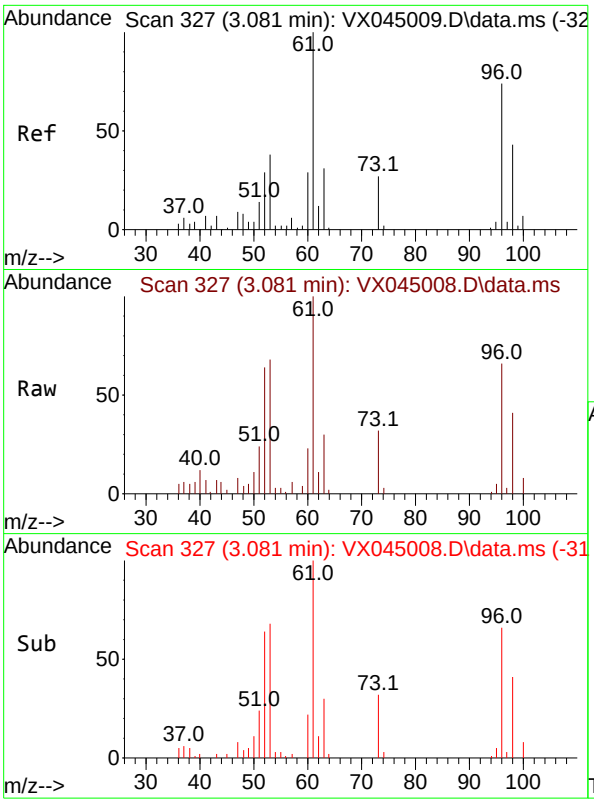


#18
Methylene Chloride
Concen: 4.803 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion: 84 Resp: 8146

Ion	Ratio	Lower	Upper
84	100		
49	121.6	102.8	154.2
51	35.8	30.1	45.1
86	62.5	50.2	75.4





#19
trans-1,2-Dichloroethene
Concen: 4.841 ug/l
RT: 3.081 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion: 96 Resp: 738

Ion	Ratio	Lower	Upper
96	100		
61	149.5	108.6	163.0
98	62.5	46.5	69.7

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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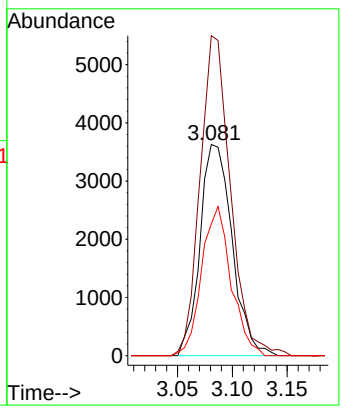
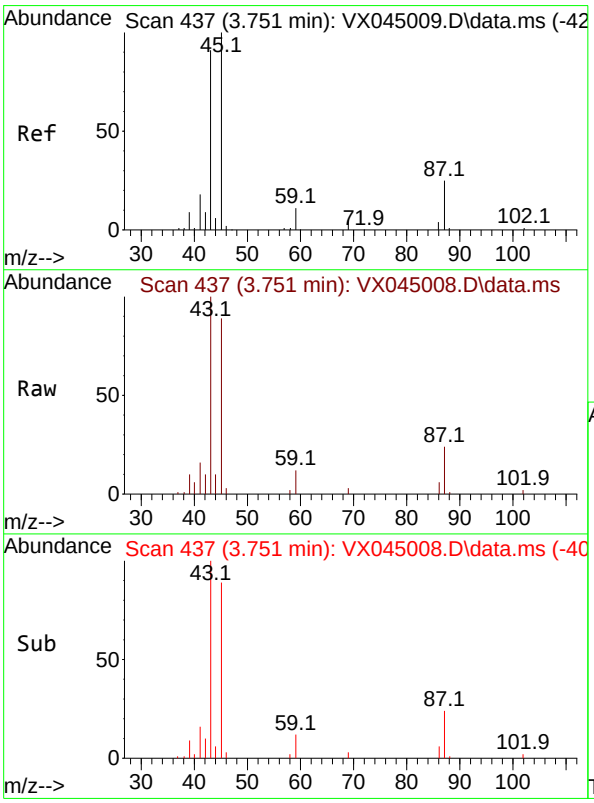
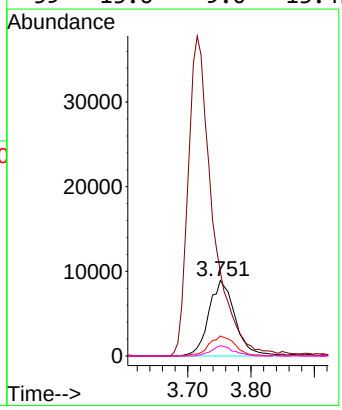


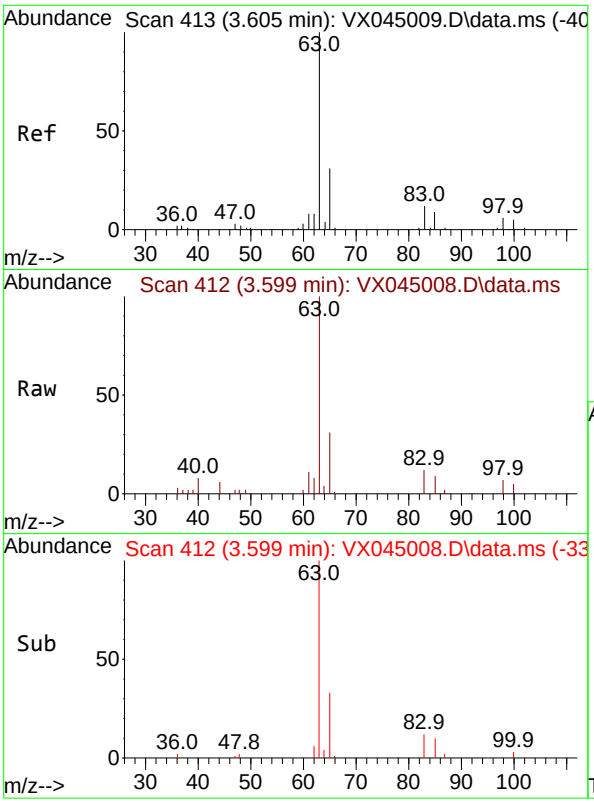


#20
Diisopropyl ether
Concen: 4.740 ug/l
RT: 3.751 min Scan# 437
Delta R.T. -0.000 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion: 45 Resp: 25687

Ion	Ratio	Lower	Upper
45	100		
43	108.7	74.4	111.6
87	26.5	19.8	29.8
59	13.6	9.0	13.4#

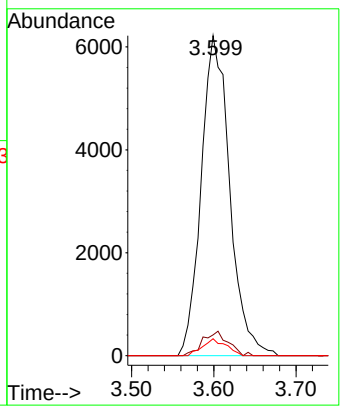




#21
1,1-Dichloroethane
Concen: 4.967 ug/l
RT: 3.599 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion: 63 Resp: 1497

Ion	Ratio	Lower	Upper
63	100		
98	6.5	3.3	9.8
100	5.3	2.4	7.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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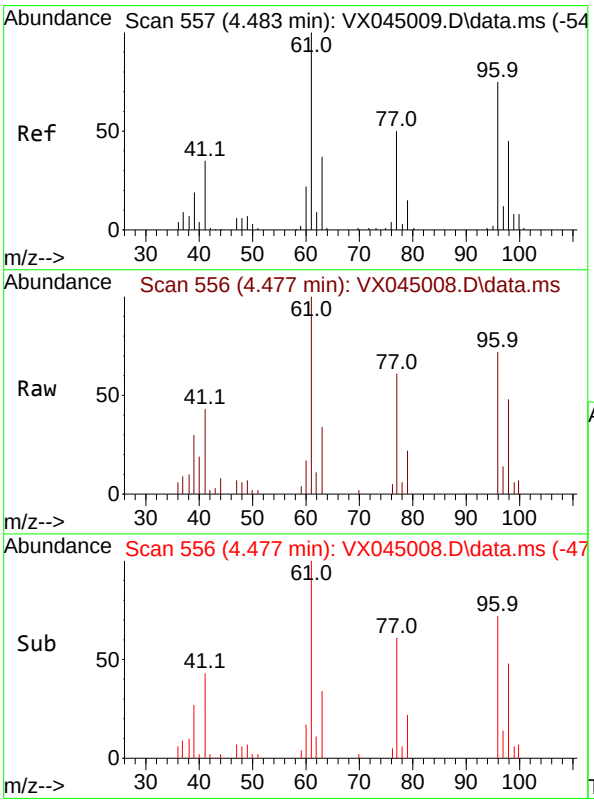
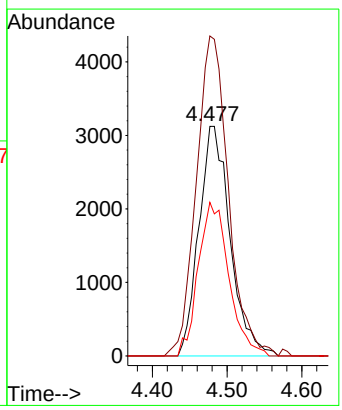
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

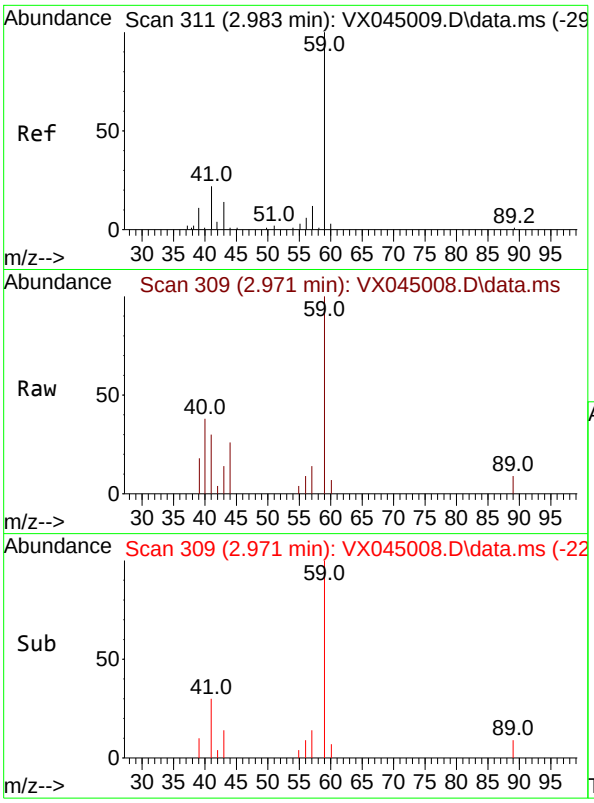


#22
cis-1,2-Dichloroethene
Concen: 4.959 ug/l
RT: 4.477 min Scan# 556
Delta R.T. -0.006 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion: 96 Resp: 9065

Ion	Ratio	Lower	Upper
96	100		
61	141.8	118.9	178.3
98	65.6	50.7	76.1

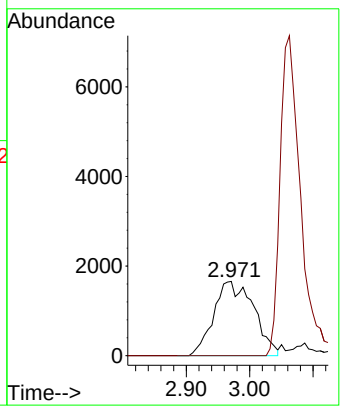




#23
tert-Butyl Alcohol
Concen: 24.352 ug/l m
RT: 2.971 min Scan# 3
Delta R.T. -0.012 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion: 59 Resp: 728

Ion	Ratio	Lower	Upper
59	100		
52	0.0	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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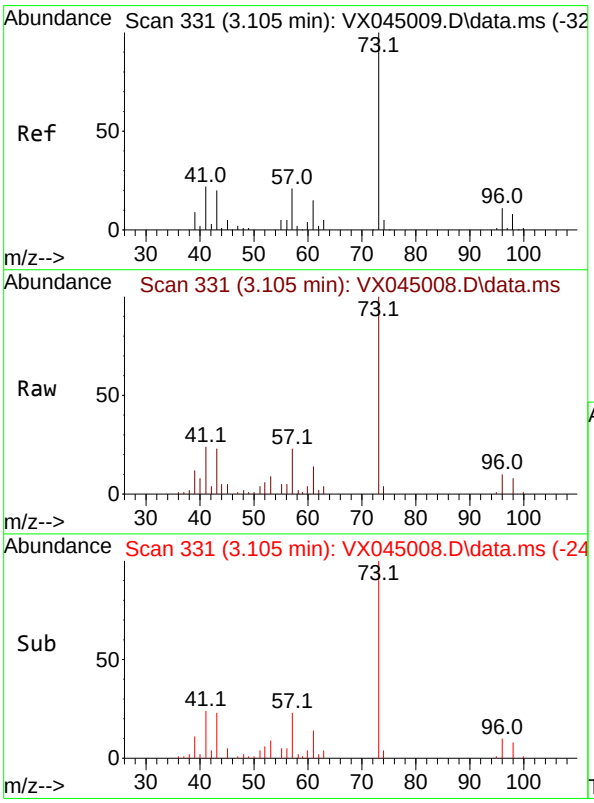
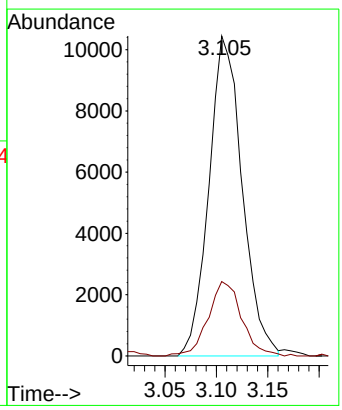
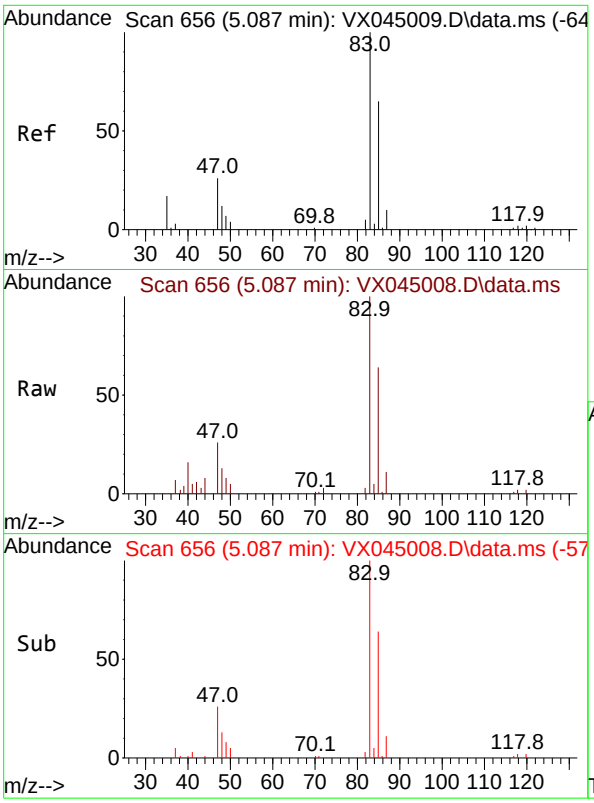


#24
Methyl tert-Butyl Ether
Concen: 4.775 ug/l
RT: 3.105 min Scan# 331
Delta R.T. -0.000 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion: 73 Resp: 23498

Ion	Ratio	Lower	Upper
73	100		
43	23.4	17.4	26.0

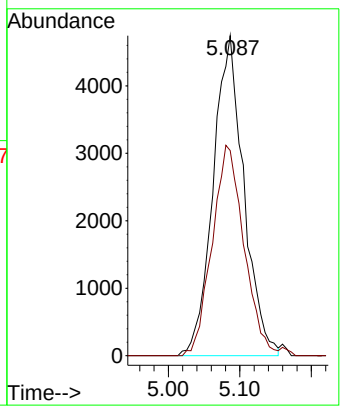




#25
Chloroform
Concen: 4.855 ug/l
RT: 5.087 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion: 83 Resp: 1413

Ion	Ratio	Lower	Upper
83	100		
85	64.1	51.7	77.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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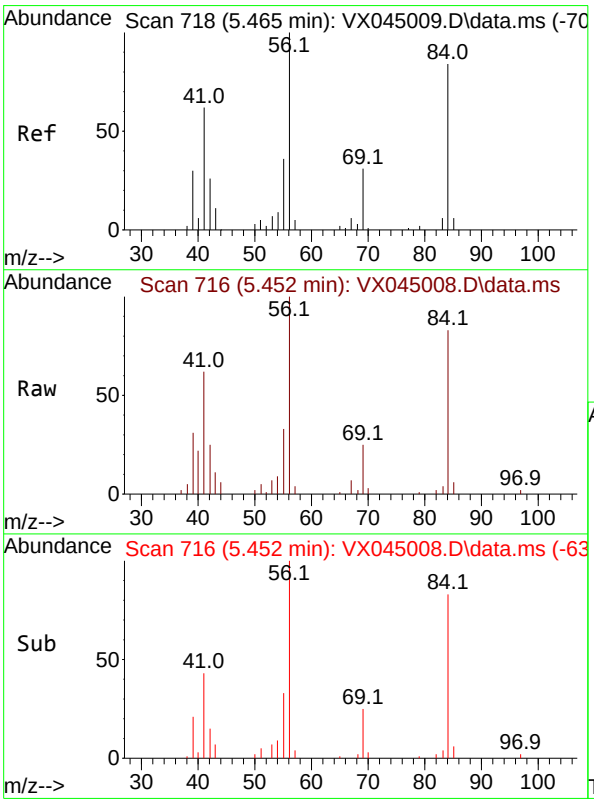
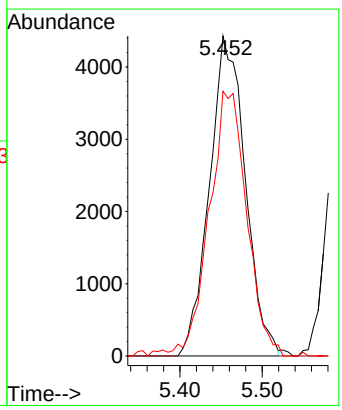
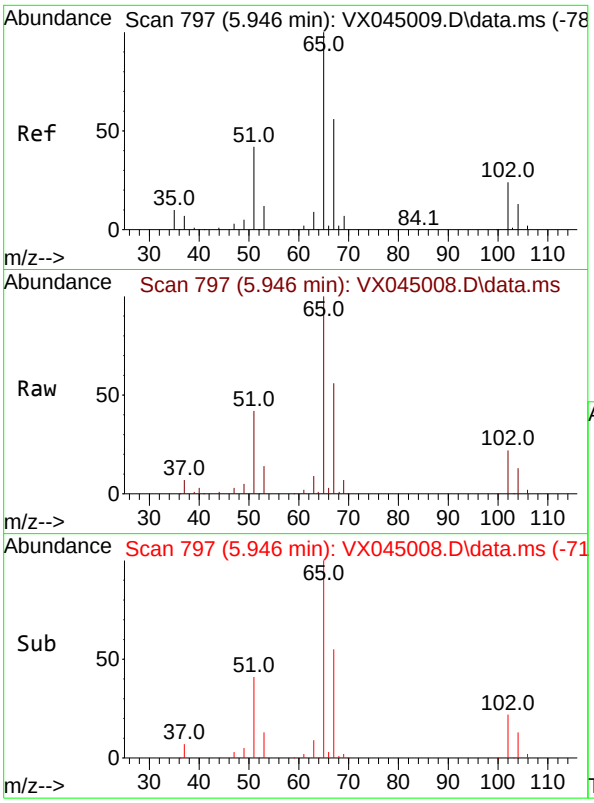


#26
Cyclohexane
Concen: 4.816 ug/l
RT: 5.452 min Scan# 716
Delta R.T. -0.012 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion: 56 Resp: 13400

Ion	Ratio	Lower	Upper
56	100		
89	0.0	0.0	0.0
84	86.2	67.1	100.7





#27
1,2-Dichloroethane-d4
Concen: 29.664 ug/l
RT: 5.946 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion: 65 Resp: 5719

Ion	Ratio	Lower	Upper
65	100		
67	53.7	42.6	64.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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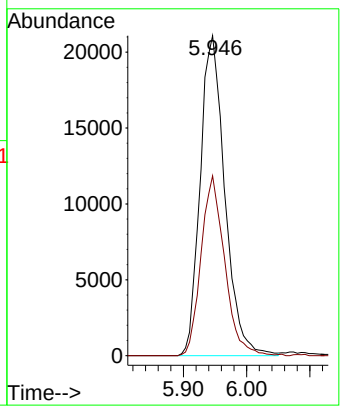
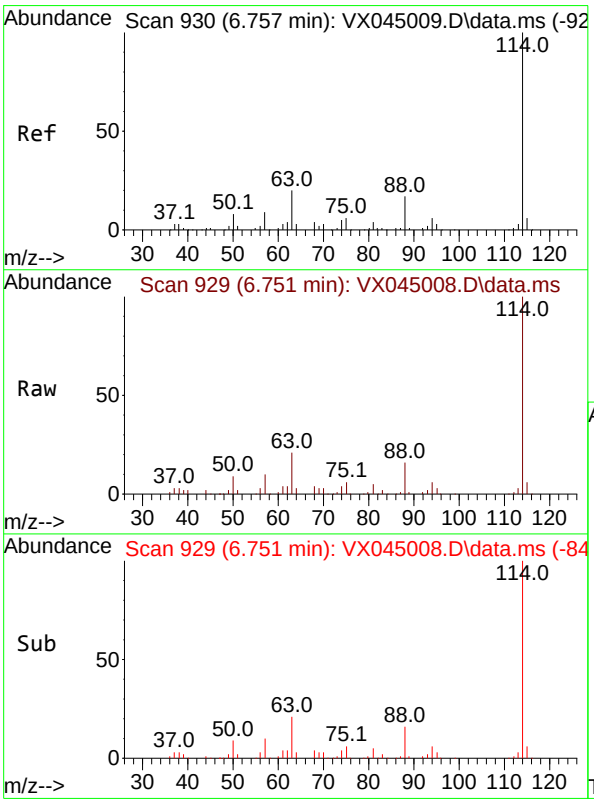
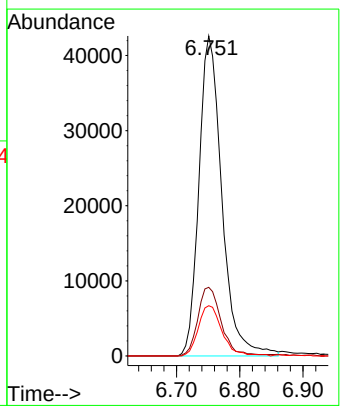


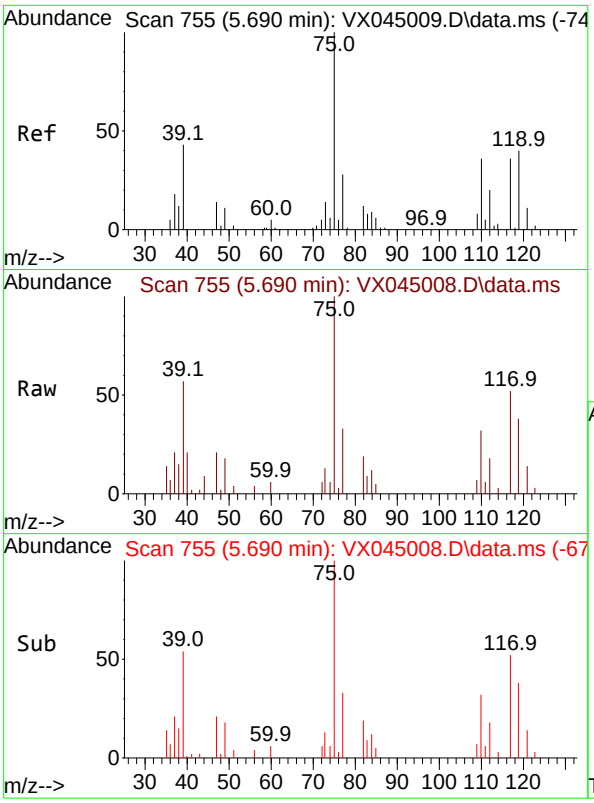


#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. -0.006 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion:114 Resp: 107647

Ion	Ratio	Lower	Upper
114	100		
63	21.2	16.8	25.2
88	16.0	12.7	19.1

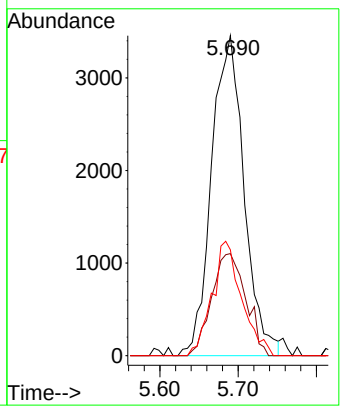




#29
1,1-Dichloropropene
Concen: 5.032 ug/l
RT: 5.690 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion: 75 Resp: 996

Ion	Ratio	Lower	Upper
75	100		
110	33.6	0.0	69.2
77	32.5	0.0	61.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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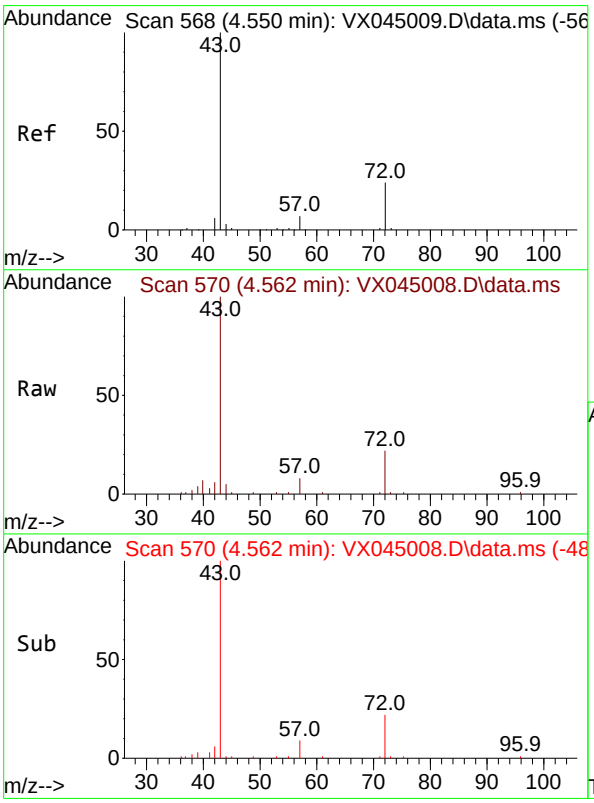
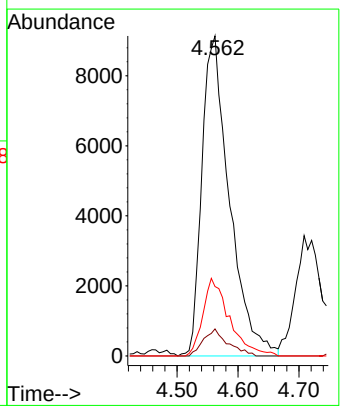
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

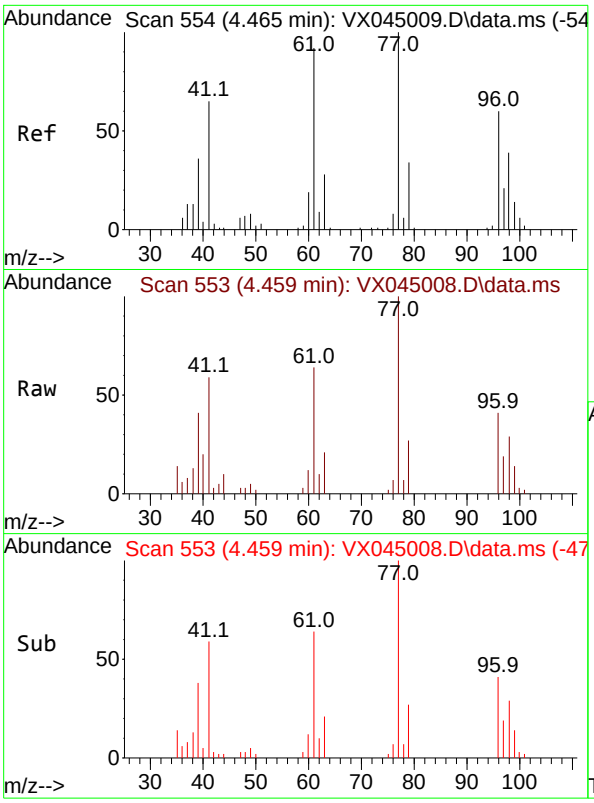


#30
2-Butanone
Concen: 25.103 ug/l
RT: 4.562 min Scan# 570
Delta R.T. 0.012 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion: 43 Resp: 28712

Ion	Ratio	Lower	Upper
43	100		
57	7.5	6.2	9.2
72	23.4	20.2	30.2





#31
2,2-Dichloropropane
Concen: 4.922 ug/l
RT: 4.459 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion: 77 Resp: 1102

Ion	Ratio	Lower	Upper
77	100		
97	7.5	18.0	27.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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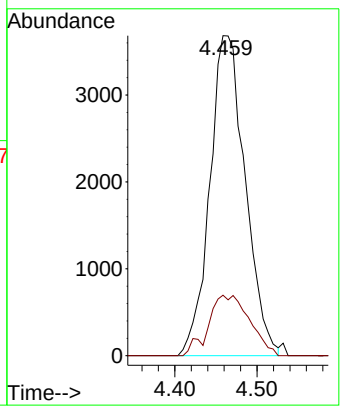
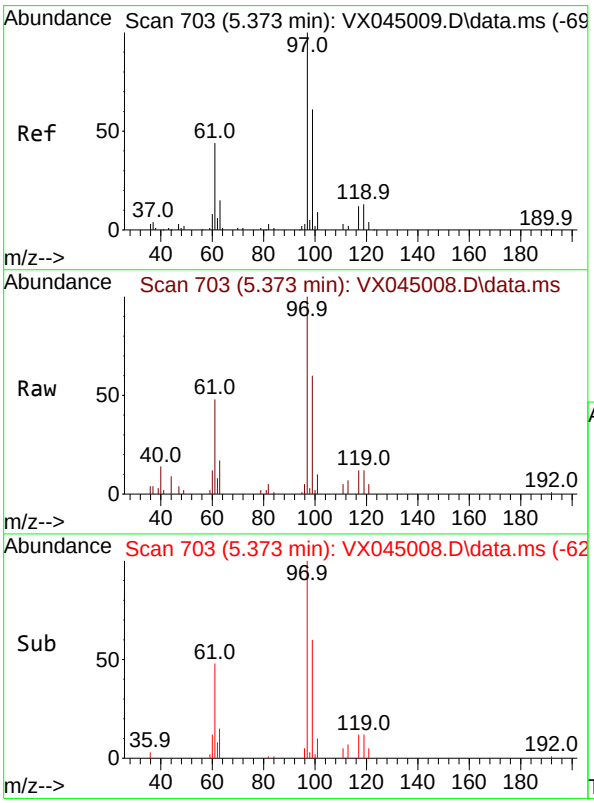
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

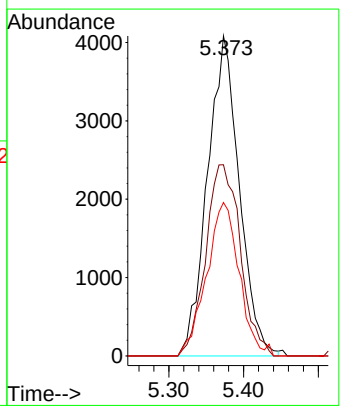


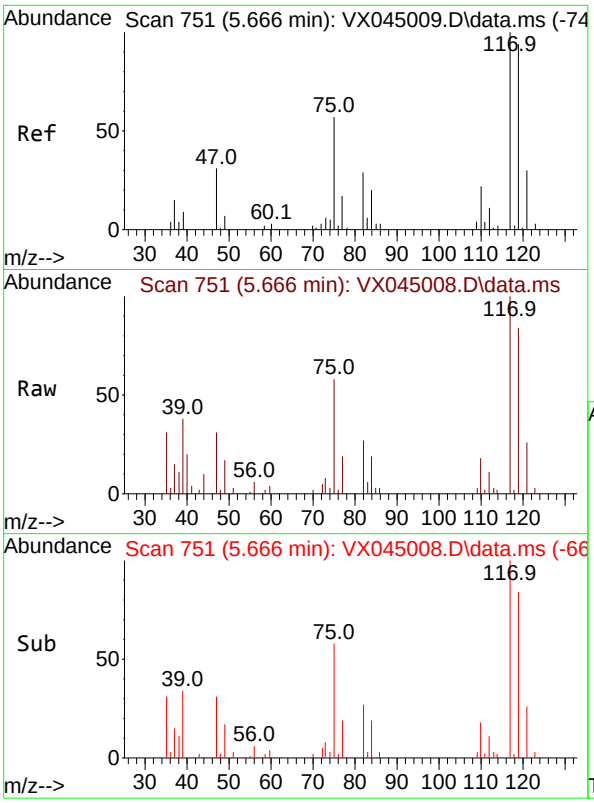


#32
1,1,1-Trichloroethane
Concen: 5.038 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion: 97 Resp: 12088

Ion	Ratio	Lower	Upper
97	100		
99	64.9	52.2	78.2
61	48.7	38.5	57.7

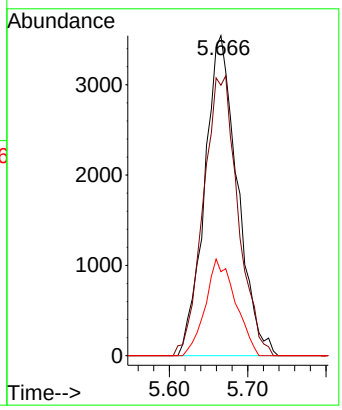




#33
Carbon Tetrachloride
Concen: 5.071 ug/l
RT: 5.666 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion:117 Resp: 1026

Ion	Ratio	Lower	Upper
117	100		
119	84.5	75.1	112.7
121	26.2	23.9	35.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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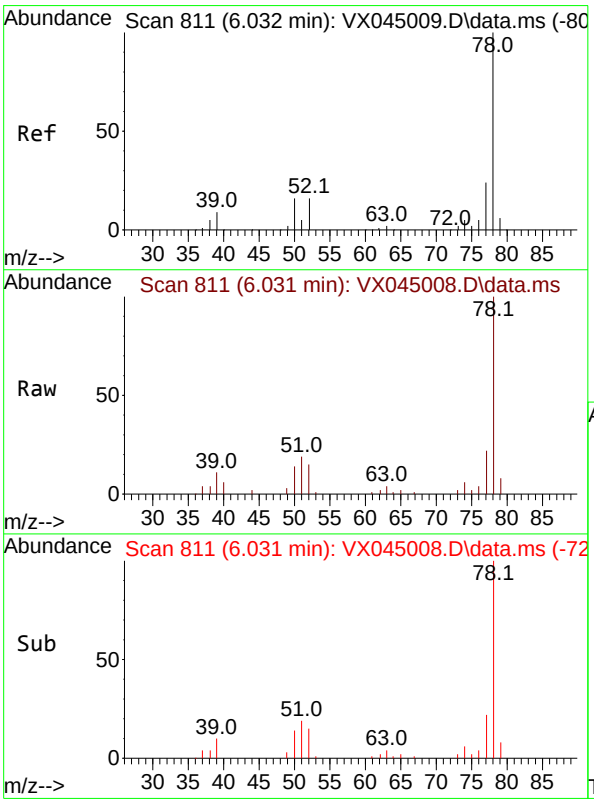
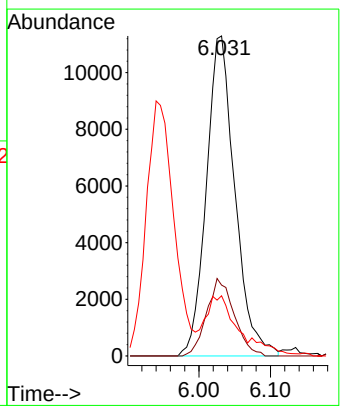
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

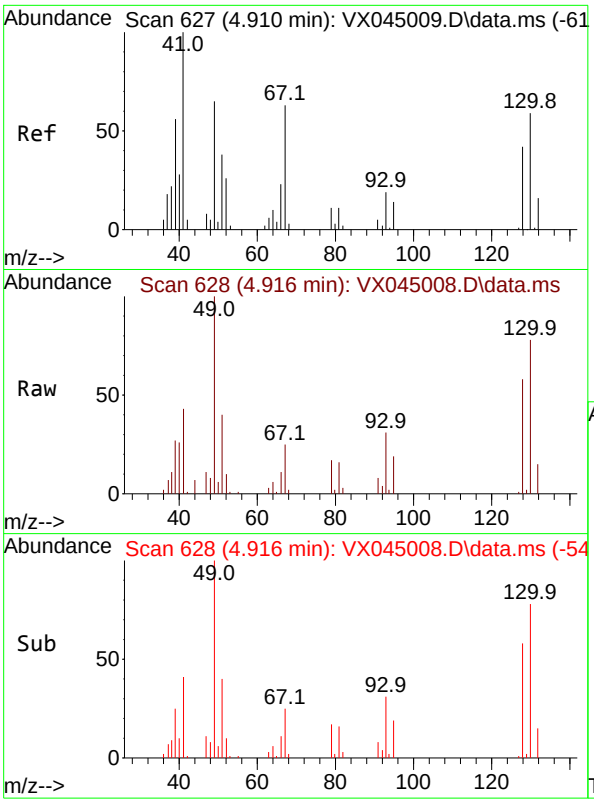


#34
Benzene
Concen: 5.044 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion: 78 Resp: 31321

Ion	Ratio	Lower	Upper
78	100		
77	22.2	19.6	29.4
51	17.3	13.8	20.6

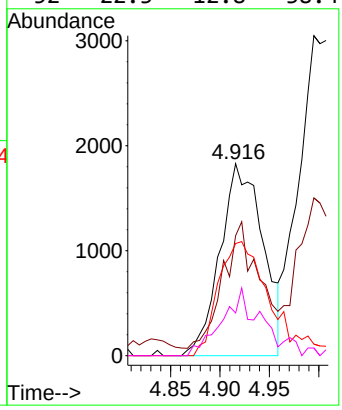




#35
Methacrylonitrile
Concen: 4.506 ug/l m
RT: 4.916 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion: 41 Resp: 551

Ion	Ratio	Lower	Upper
41	100		
39	62.5	27.8	83.4
67	58.4	31.5	94.5
52	22.3	12.8	38.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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Reviewed By :John Carlone 02/24/2025
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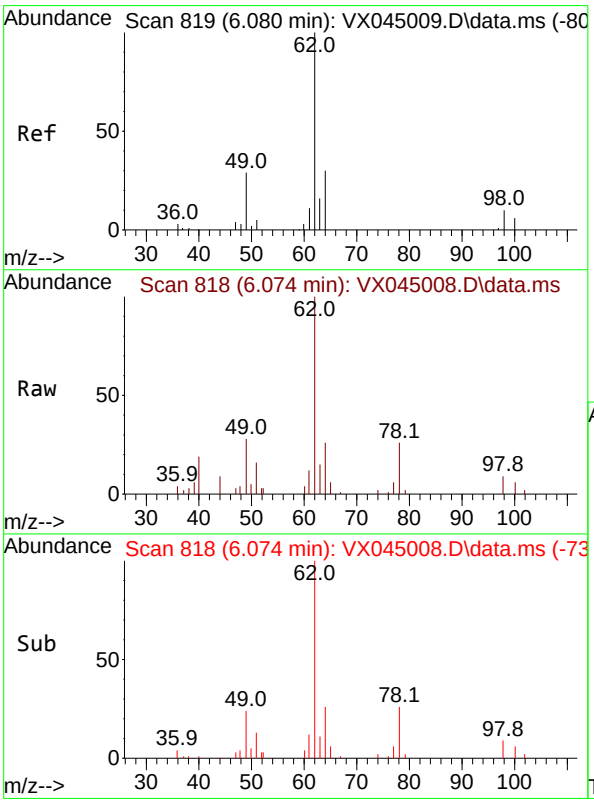
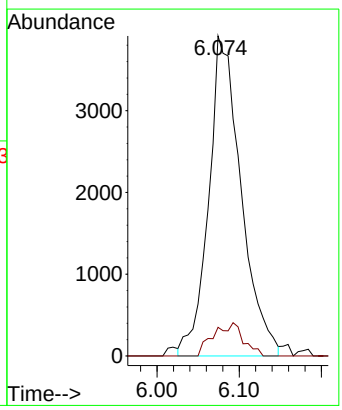
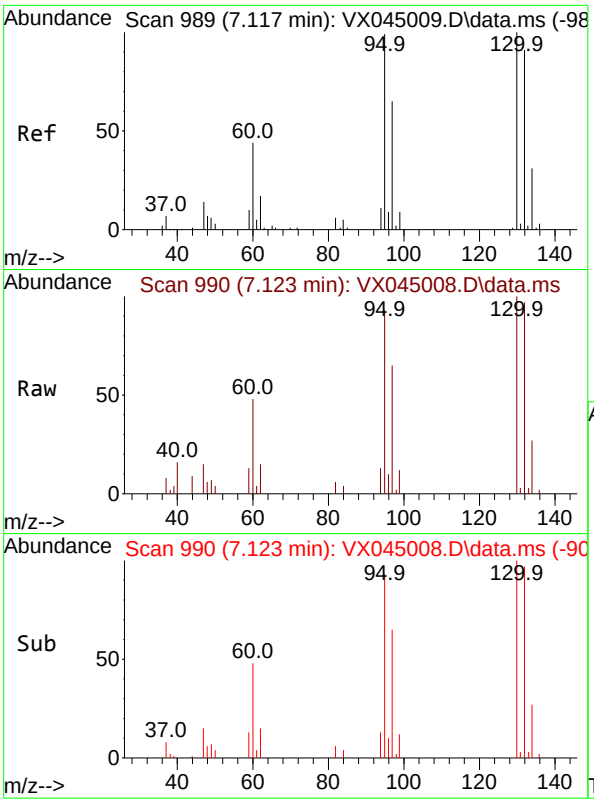


#36
1,2-Dichloroethane
Concen: 5.045 ug/l
RT: 6.074 min Scan# 818
Delta R.T. -0.006 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion: 62 Resp: 10725

Ion	Ratio	Lower	Upper
62	100		
98	3.3	7.9	11.9#

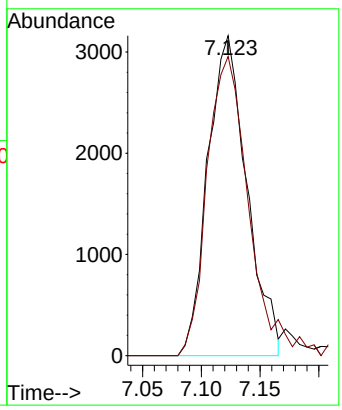




#37
Trichloroethene
Concen: 5.031 ug/l
RT: 7.123 min Scan# 9
Delta R.T. 0.006 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion:130 Resp: 730

Ion	Ratio	Lower	Upper
130	100		
95	93.5	79.0	118.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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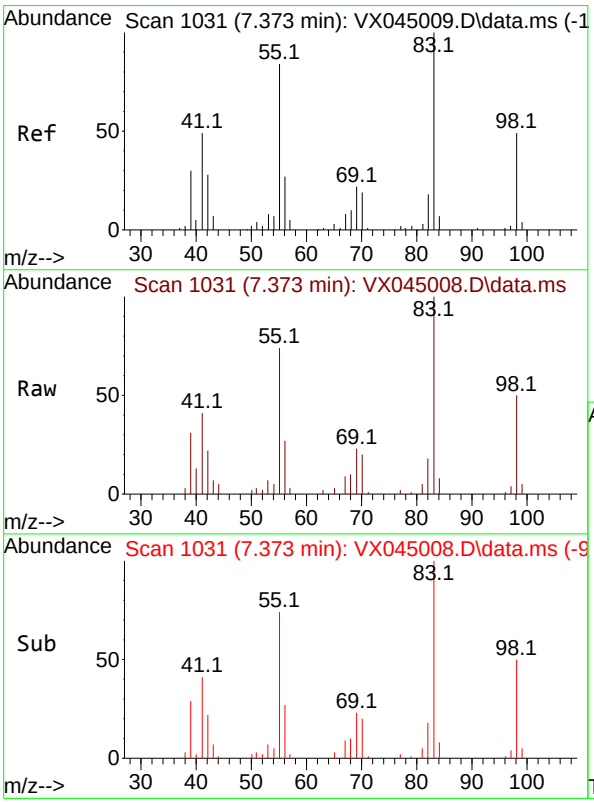
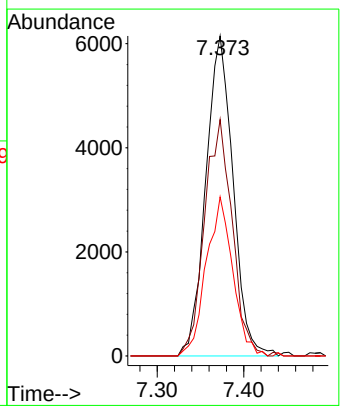
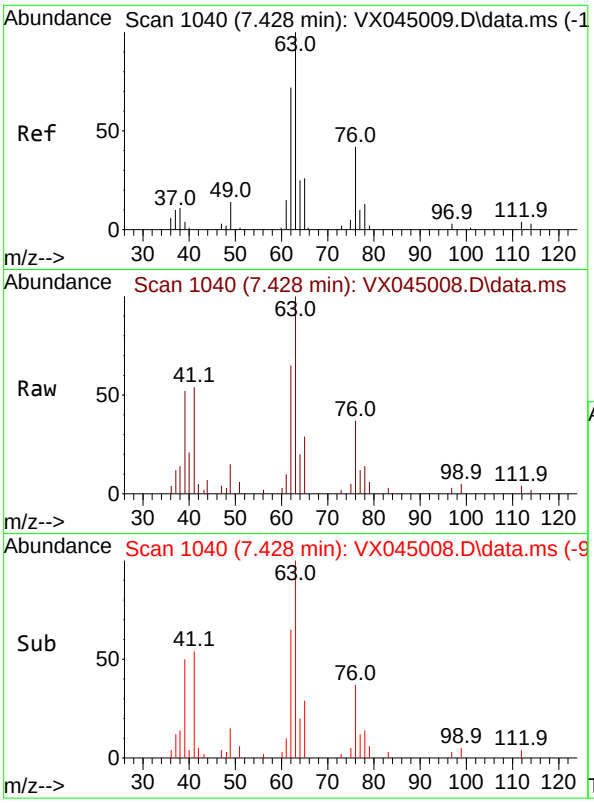


#38
Methylcyclohexane
Concen: 5.042 ug/l
RT: 7.373 min Scan# 1031
Delta R.T. -0.000 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion: 83 Resp: 13407

Ion	Ratio	Lower	Upper
83	100		
55	75.2	40.6	122.0
98	48.5	24.9	74.6

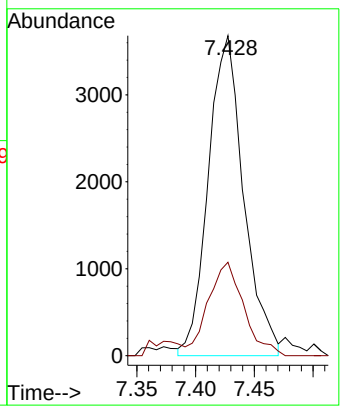




#39
1,2-Dichloropropane
Concen: 4.994 ug/l
RT: 7.428 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion: 63 Resp: 771

Ion	Ratio	Lower	Upper
63	100		
65	28.4	24.3	36.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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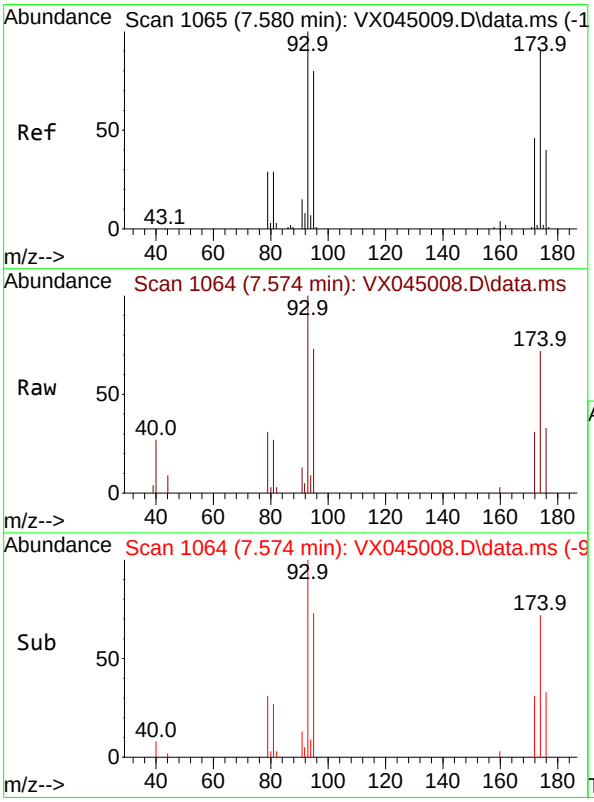
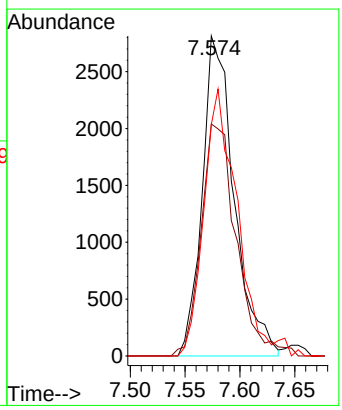
Supervised By :Mahesh Dadoda 02/24/2025

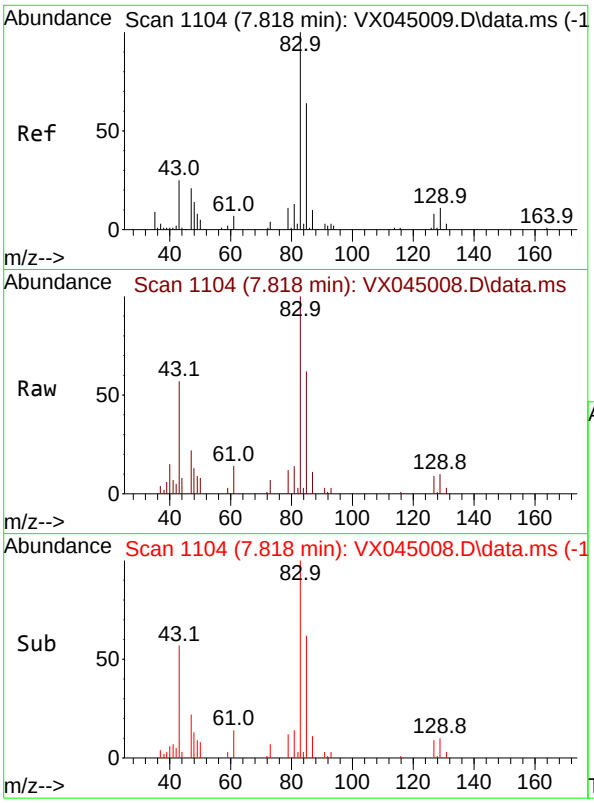


#40
Dibromomethane
Concen: 5.153 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. -0.006 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion: 93 Resp: 5709

Ion	Ratio	Lower	Upper
93	100		
95	79.4	0.0	162.6
174	85.6	0.0	178.8

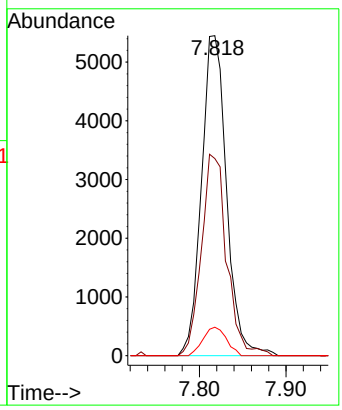




#41
Bromodichloromethane
Concen: 4.973 ug/l
RT: 7.818 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion: 83 Resp: 1094

Ion	Ratio	Lower	Upper
83	100		
85	61.6	51.0	76.6
127	8.9	6.1	9.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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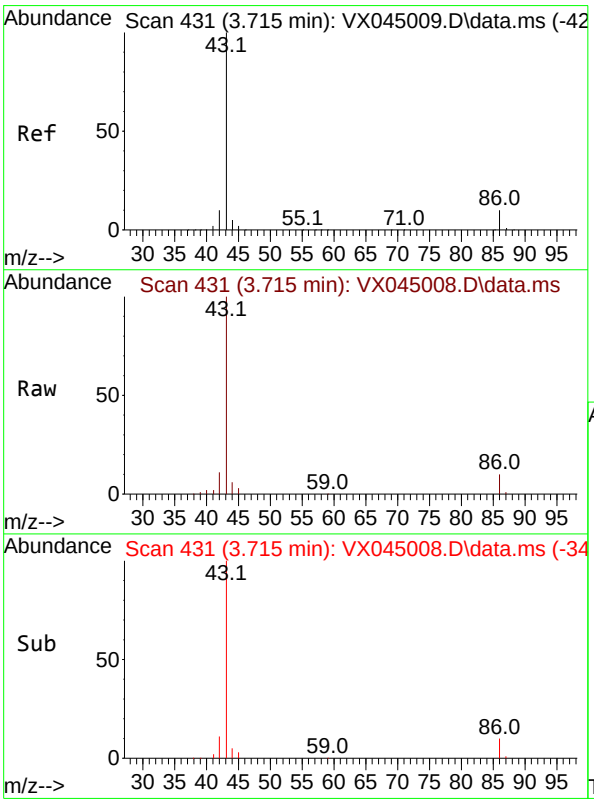
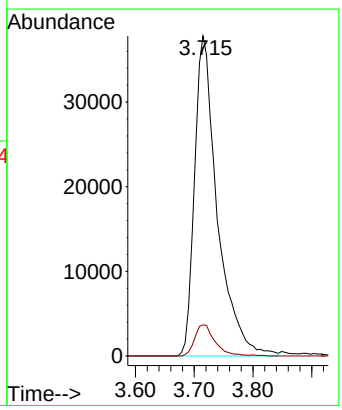
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

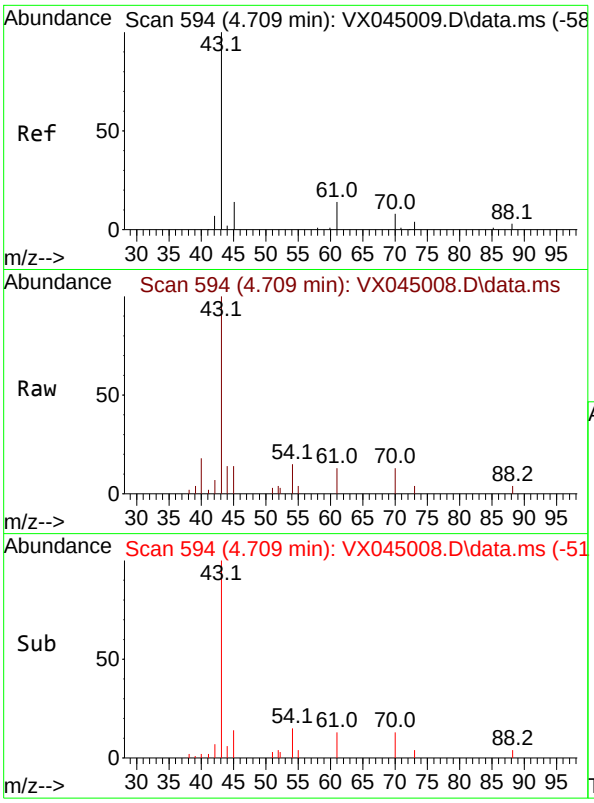


#42
Vinyl Acetate
Concen: 22.951 ug/l
RT: 3.715 min Scan# 431
Delta R.T. -0.000 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion: 43 Resp: 101864

Ion	Ratio	Lower	Upper
43	100		
86	8.6	7.0	10.4





#43
Ethyl Acetate
Concen: 4.617 ug/l
RT: 4.709 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion: 43 Resp: 990

Ion	Ratio	Lower	Upper
43	100		
45	6.6	12.7	19.1#

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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Reviewed By :John Carlone 02/24/2025
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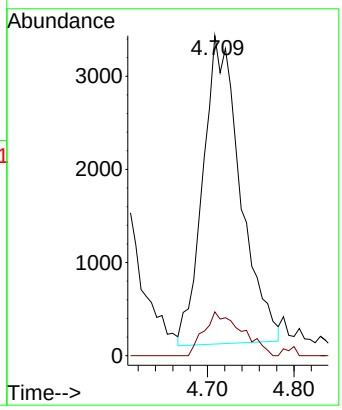
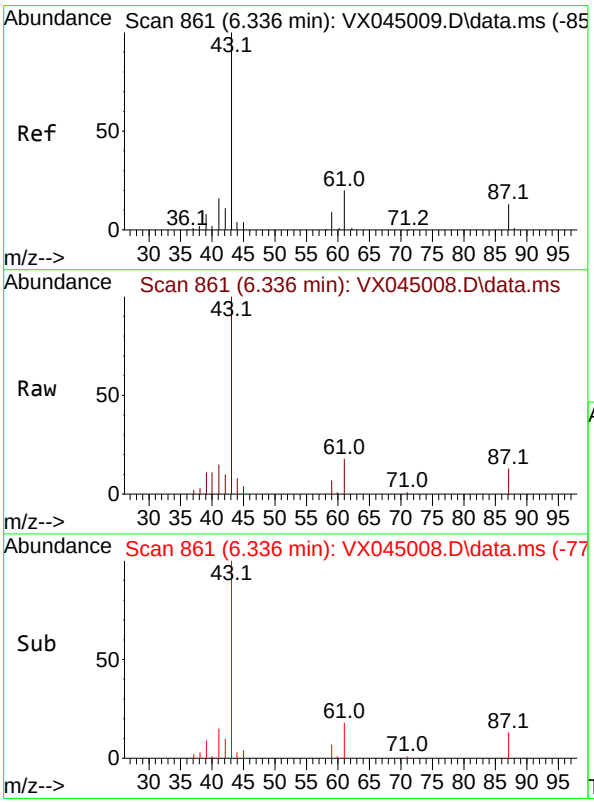
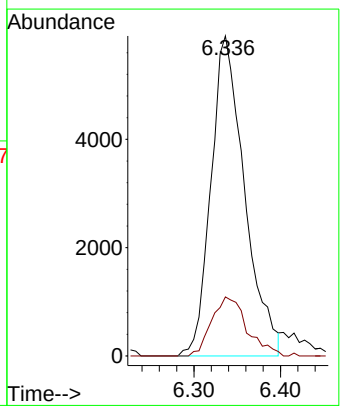


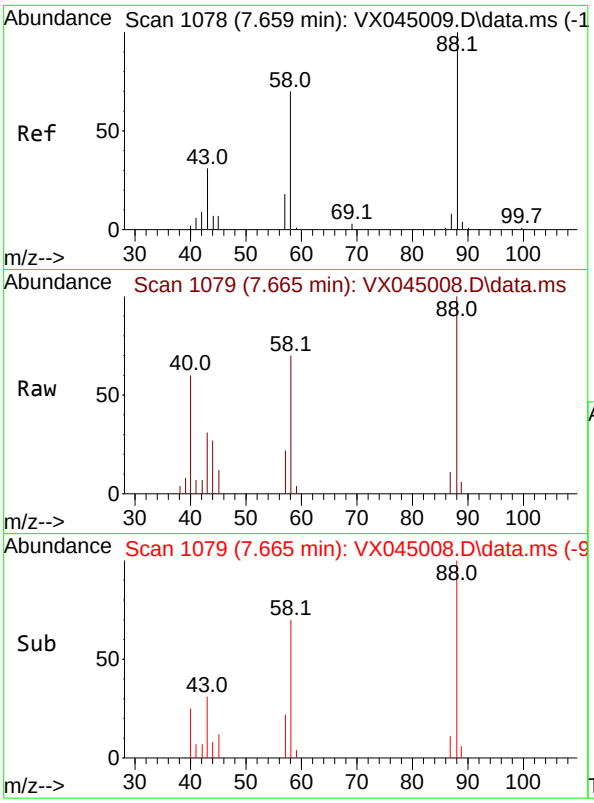


#44
Isopropyl Acetate
Concen: 4.518 ug/l
RT: 6.336 min Scan# 861
Delta R.T. -0.000 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion: 43 Resp: 15951

Ion	Ratio	Lower	Upper
43	100		
61	17.2	15.5	23.3





#45
1,4-Dioxane
Concen: 94.718 ug/l
RT: 7.665 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion: 88 Resp: 347

Ion	Ratio	Lower	Upper
88	100		
43	28.7	29.6	44.4
58	71.4	56.2	84.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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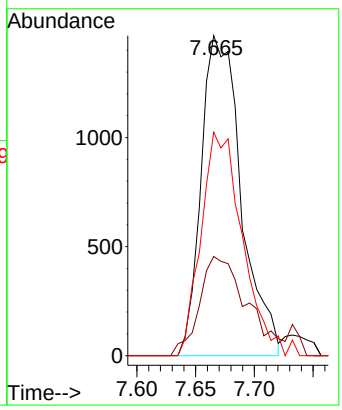
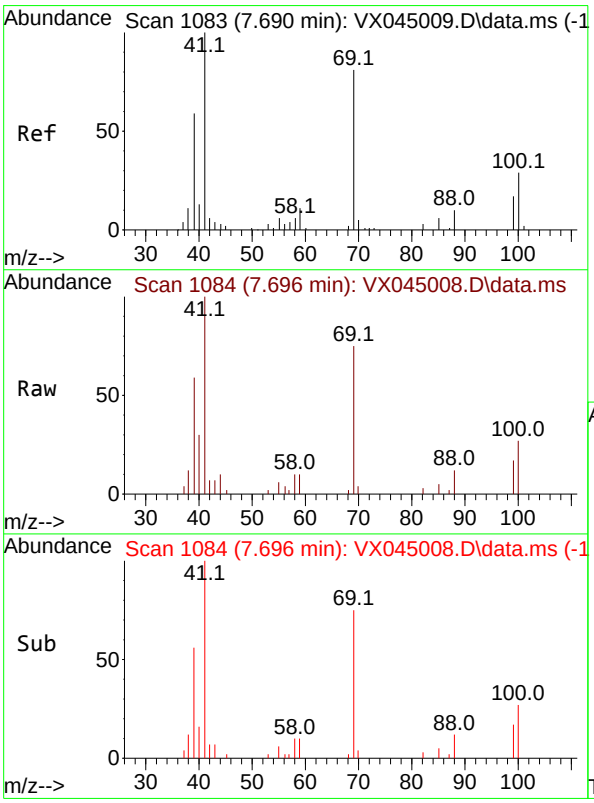
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

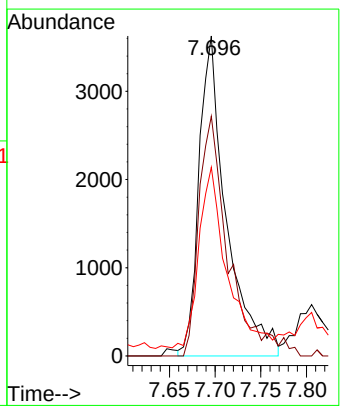


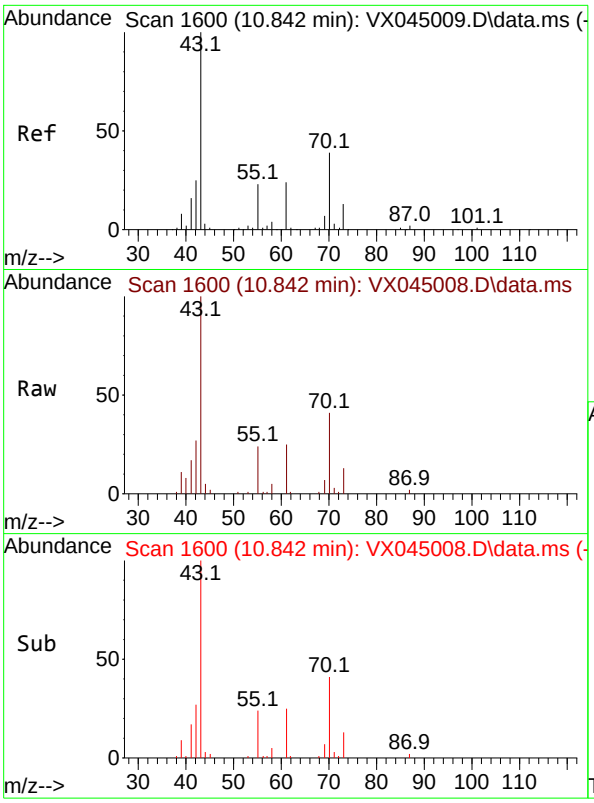


#46
Methyl methacrylate
Concen: 4.362 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. 0.006 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion: 41 Resp: 7550

Ion	Ratio	Lower	Upper
41	100		
69	76.2	40.7	122.1
39	55.9	29.5	88.5





#47
n-amyl Acetate
Concen: 4.221 ug/l
RT: 10.842 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion: 43 Resp: 1293

Ion	Ratio	Lower	Upper
43	100		
55	22.9	18.6	27.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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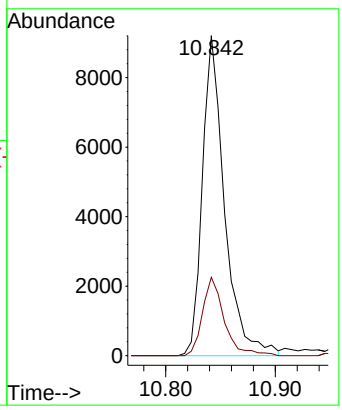
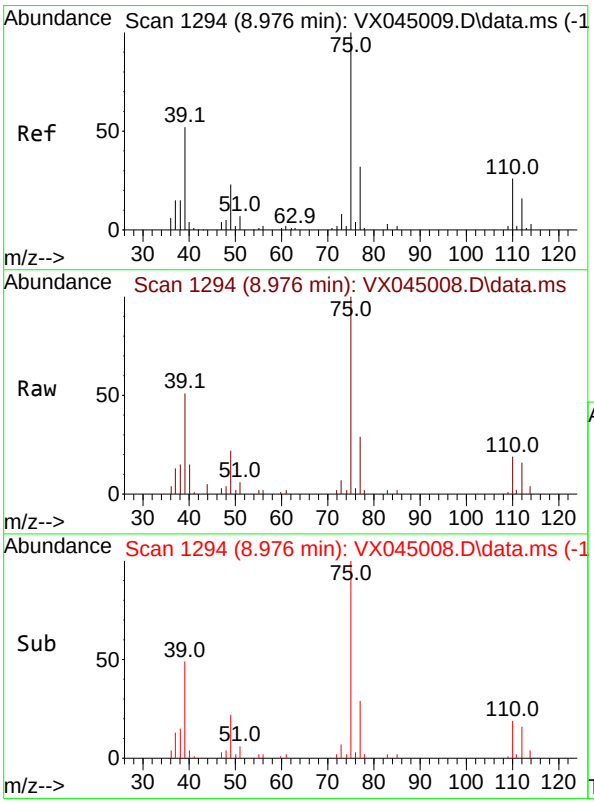
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

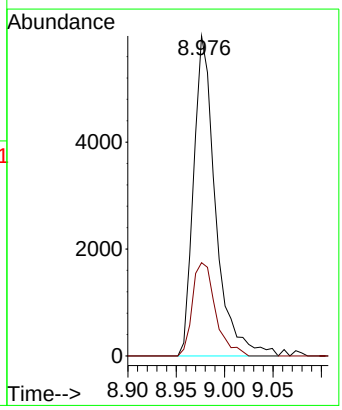


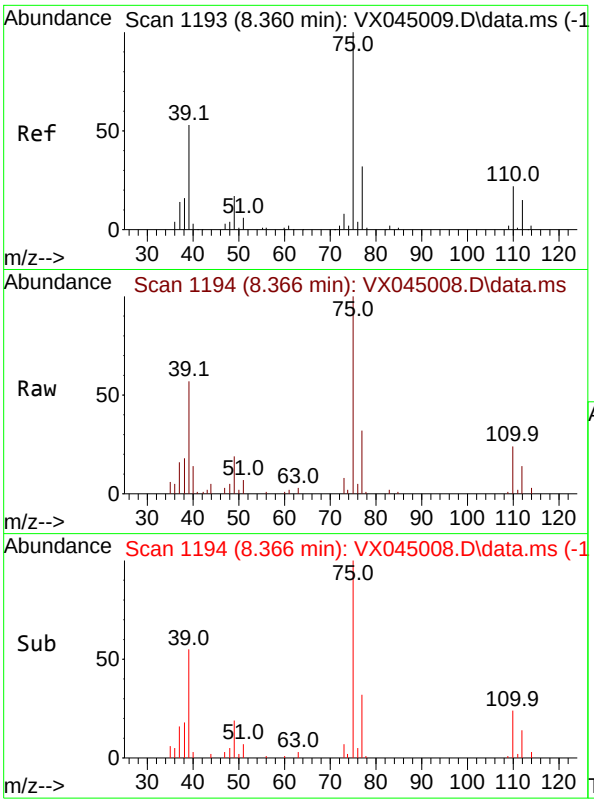


#48
t-1,3-Dichloropropene
Concen: 4.458 ug/l
RT: 8.976 min Scan# 1294
Delta R.T. -0.000 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion: 75 Resp: 9461

Ion	Ratio	Lower	Upper
75	100		
77	29.2	25.7	38.5

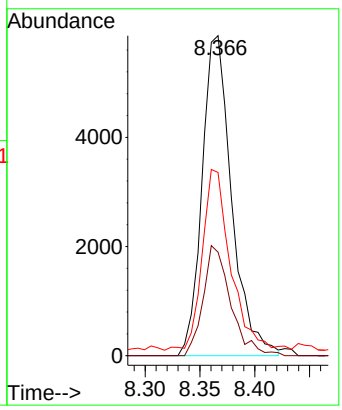




#49
cis-1,3-Dichloropropene
Concen: 4.585 ug/l
RT: 8.366 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion: 75 Resp: 1101

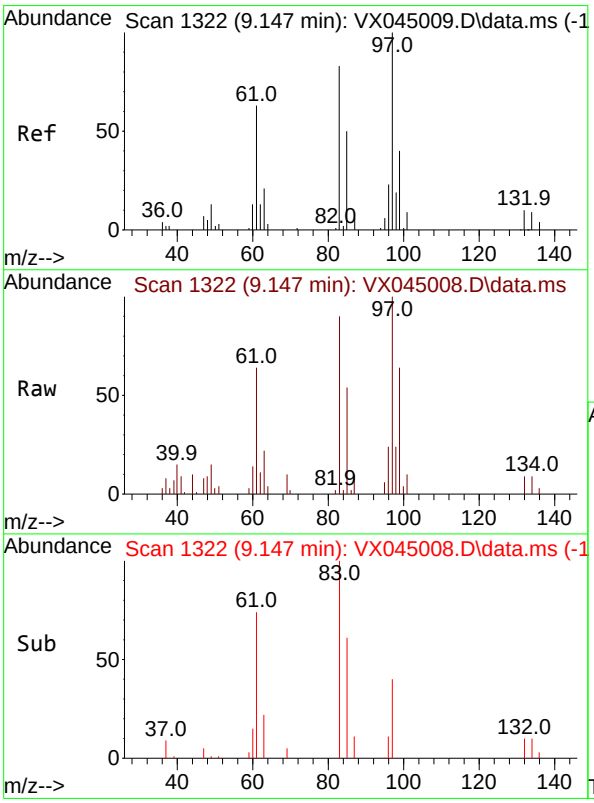
Ion	Ratio	Lower	Upper
75	100		
77	32.3	25.9	38.9
39	54.7	42.3	63.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

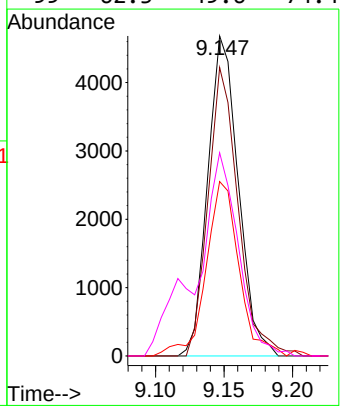
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

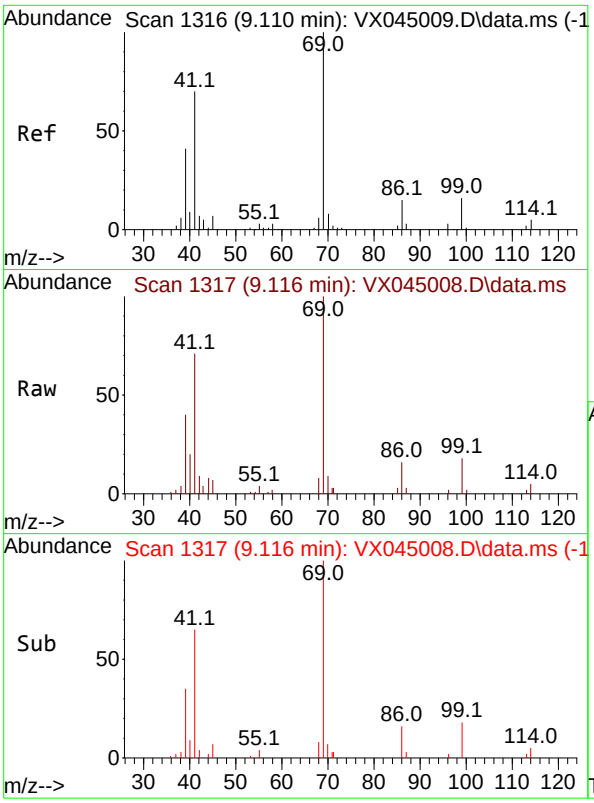


#50
1,1,2-Trichloroethane
Concen: 5.030 ug/l
RT: 9.147 min Scan# 1322
Delta R.T. -0.000 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion: 97 Resp: 7268

Ion	Ratio	Lower	Upper
97	100		
83	90.2	66.0	99.0
85	52.5	42.5	63.7
99	62.3	49.6	74.4





#51
Ethyl methacrylate
Concen: 4.287 ug/l
RT: 9.116 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

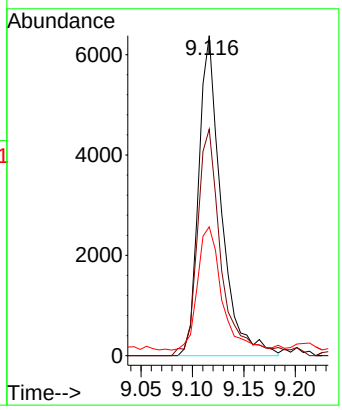
Tgt Ion: 69 Resp: 974

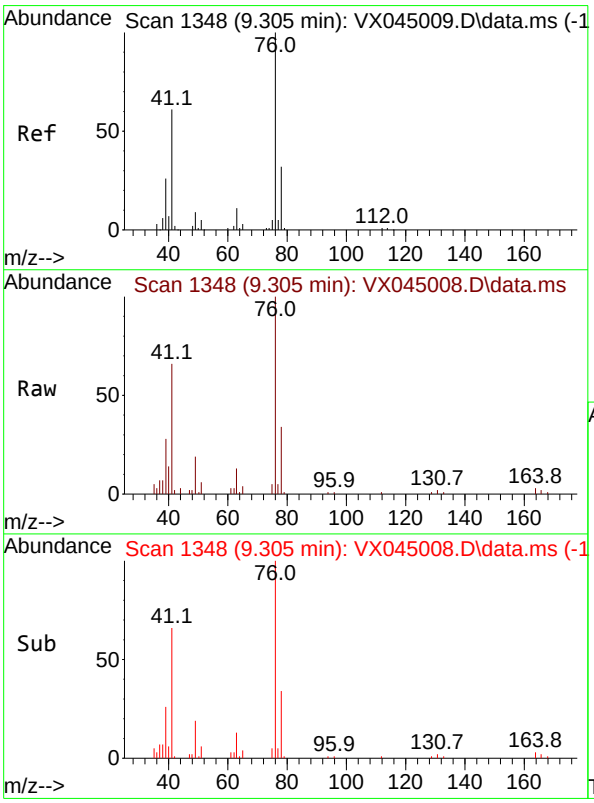
Ion	Ratio	Lower	Upper
69	100		
41	68.6	35.1	105.3
39	38.2	20.5	61.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

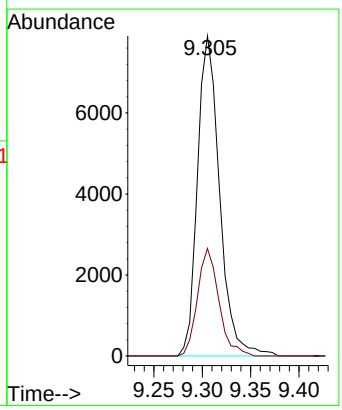


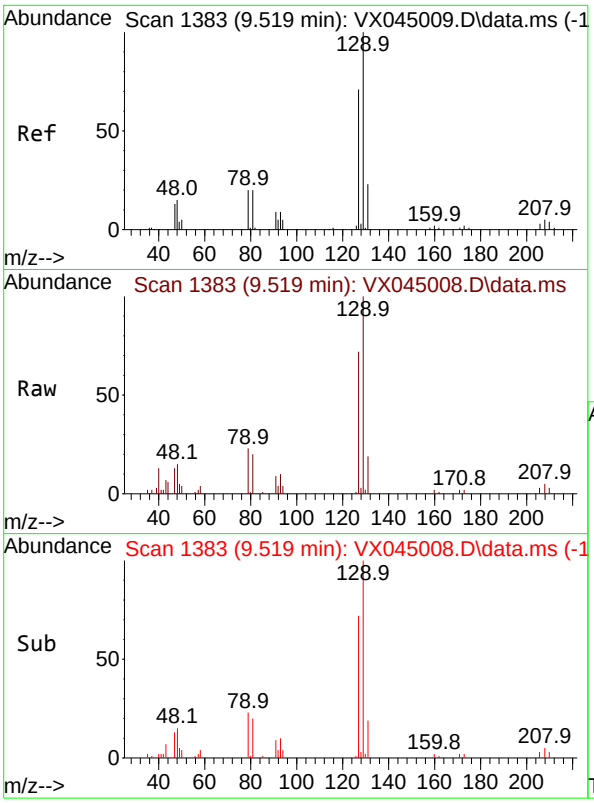


#52
1,3-Dichloropropane
Concen: 4.981 ug/l
RT: 9.305 min Scan# 1348
Delta R.T. -0.000 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion: 76 Resp: 12611

Ion	Ratio	Lower	Upper
76	100		
78	32.5	0.0	63.6

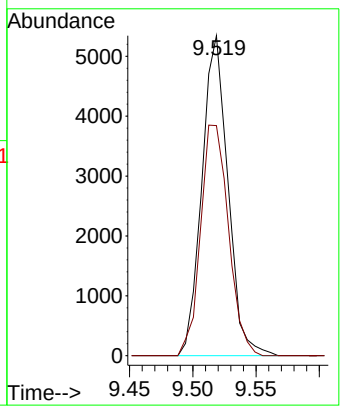




#53
Dibromochloromethane
Concen: 4.791 ug/l
RT: 9.519 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion:129 Resp: 765

Ion	Ratio	Lower	Upper
129	100		
127	77.3	37.3	111.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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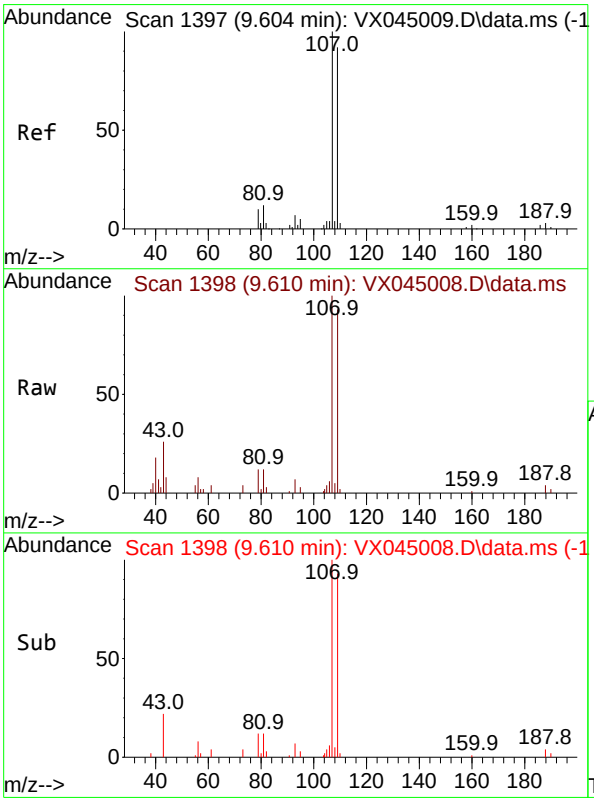
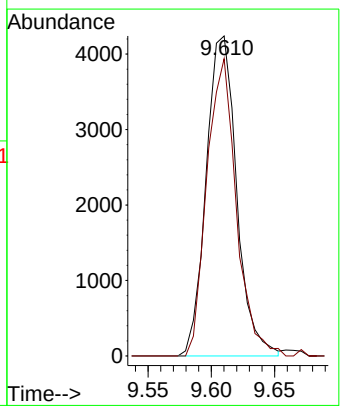
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

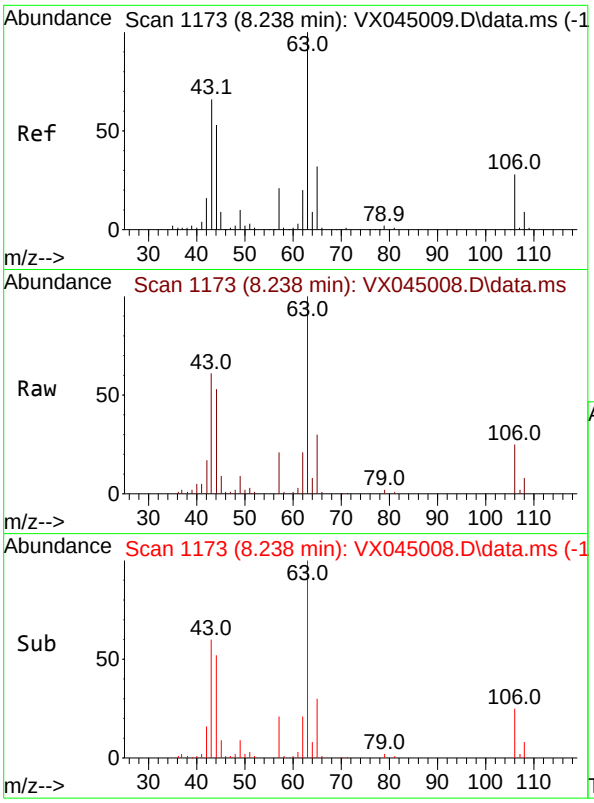


#54
1,2-Dibromoethane
Concen: 4.851 ug/l
RT: 9.610 min Scan# 1398
Delta R.T. 0.006 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion:107 Resp: 7119

Ion	Ratio	Lower	Upper
107	100		
109	89.5	75.8	113.8





#55
2-Chloroethyl vinyl ether
Concen: 23.123 ug/l
RT: 8.238 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion: 63 Resp: 2698

Ion	Ratio	Lower	Upper
63	100		
65	30.5	26.2	39.2
106	27.2	21.2	31.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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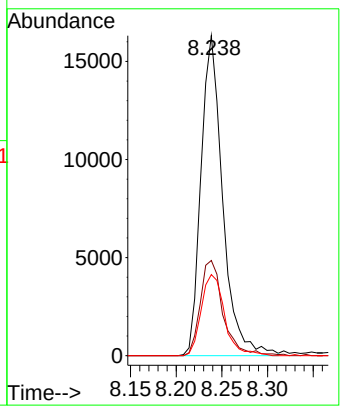
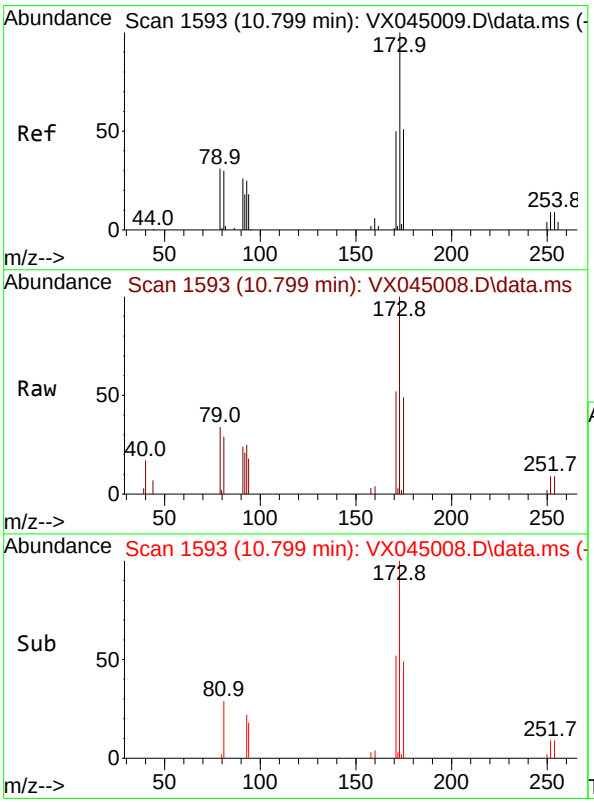
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

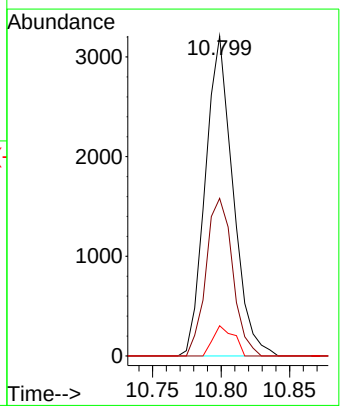


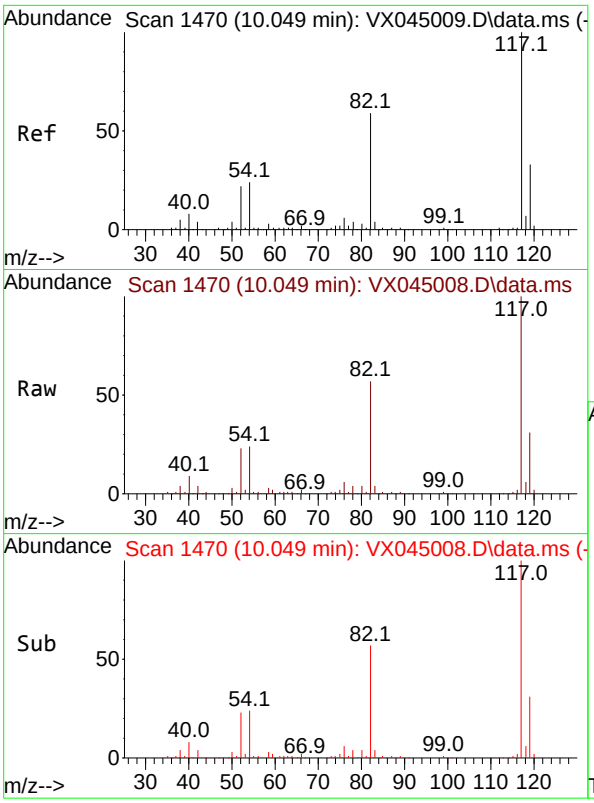


#56
Bromoform
Concen: 4.491 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. -0.000 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion:173 Resp: 4498

Ion	Ratio	Lower	Upper
173	100		
175	47.6	39.6	59.4
254	7.2	6.3	9.5

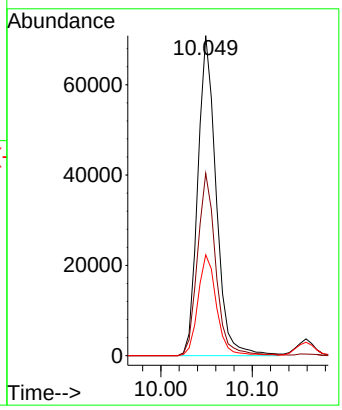




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion:117 Resp: 9866

Ion	Ratio	Lower	Upper
117	100		
82	57.0	45.8	68.8
119	32.0	25.5	38.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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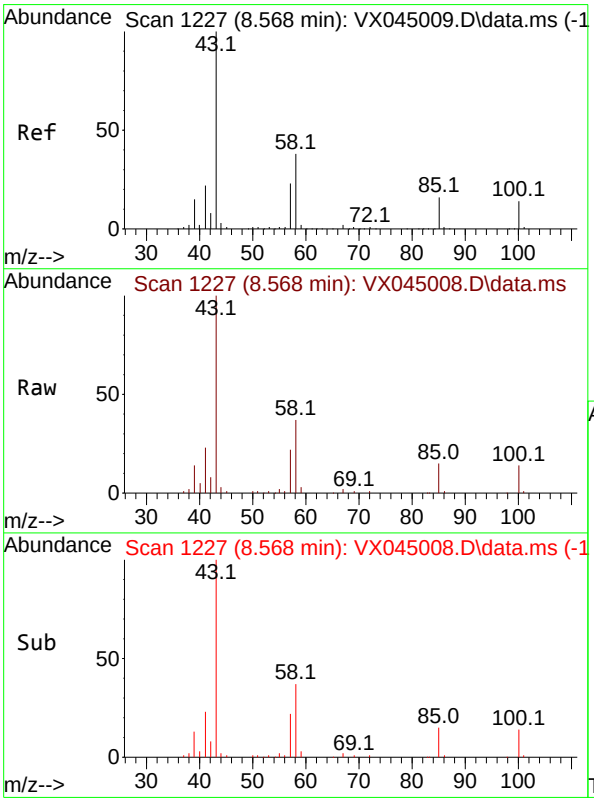
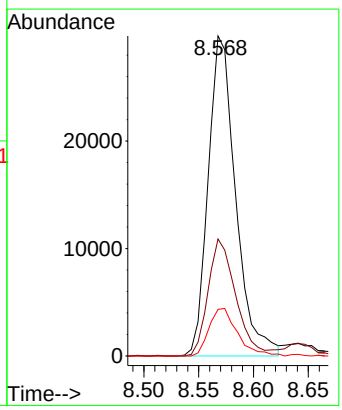
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

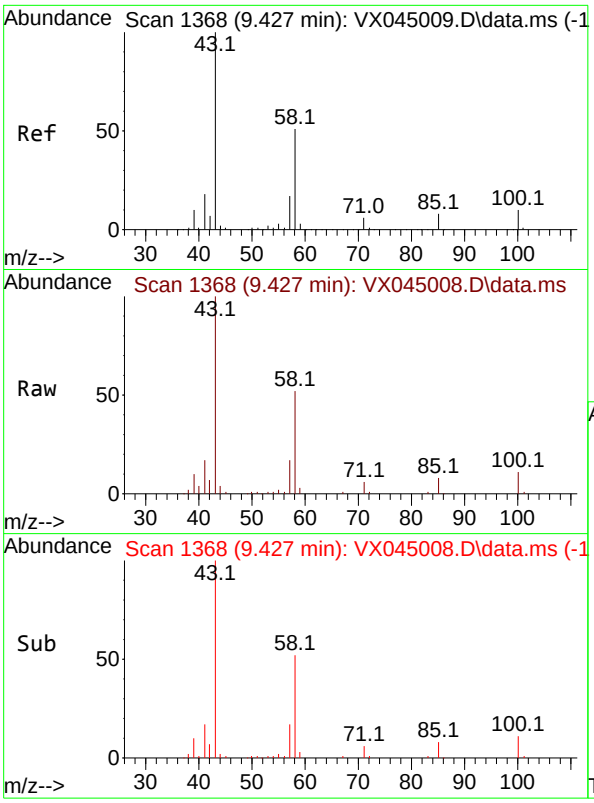


#58
4-Methyl-2-Pentanone
Concen: 23.177 ug/l
RT: 8.568 min Scan# 1227
Delta R.T. -0.000 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion: 43 Resp: 52017

Ion	Ratio	Lower	Upper
43	100		
58	36.3	29.5	44.3
85	15.3	12.9	19.3





#59
2-Hexanone
Concen: 22.584 ug/l
RT: 9.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion: 43 Resp: 3663

Ion	Ratio	Lower	Upper
43	100		
58	51.4	41.6	62.4
57	17.6	13.8	20.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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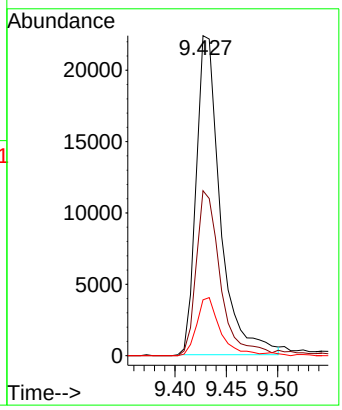
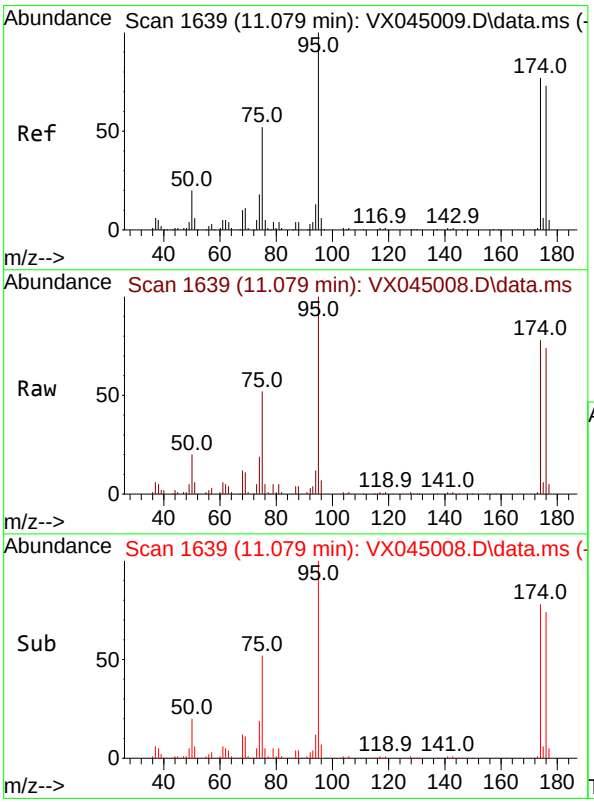
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

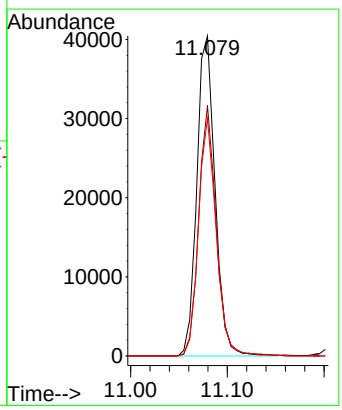


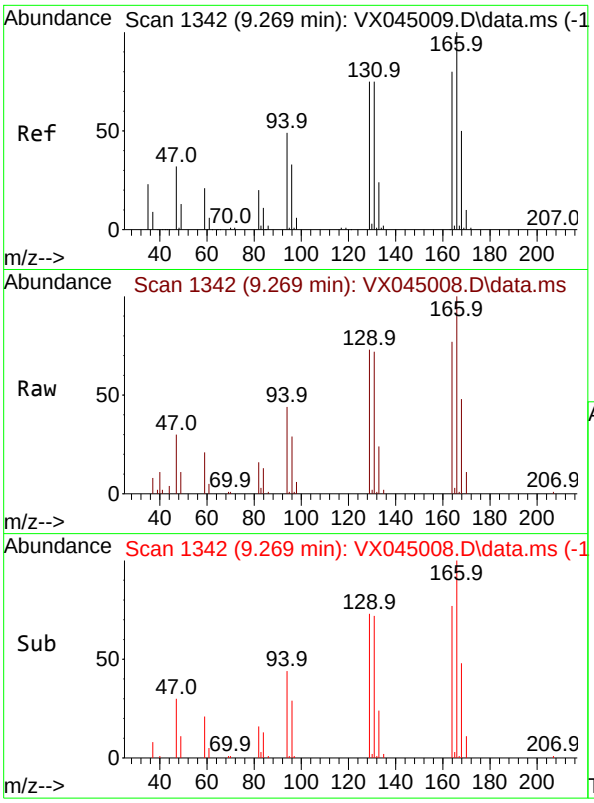


#60
4-Bromofluorobenzene
Concen: 28.855 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion: 95 Resp: 53212

Ion	Ratio	Lower	Upper
95	100		
174	74.3	59.5	89.3
176	72.7	55.5	83.3

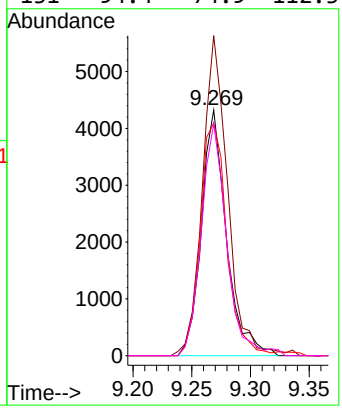




#61
Tetrachloroethene
Concen: 5.269 ug/l
RT: 9.269 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion:164 Resp: 640

Ion	Ratio	Lower	Upper
164	100		
166	128.6	100.3	150.5
129	94.8	75.5	113.3
131	94.4	74.9	112.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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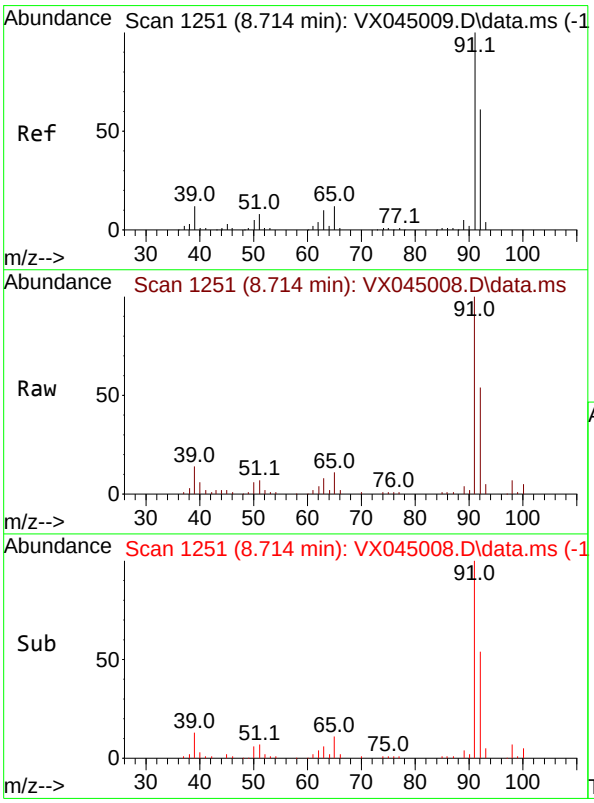
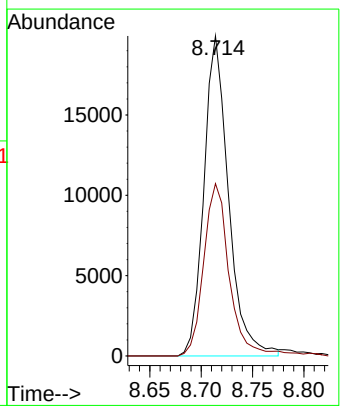
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

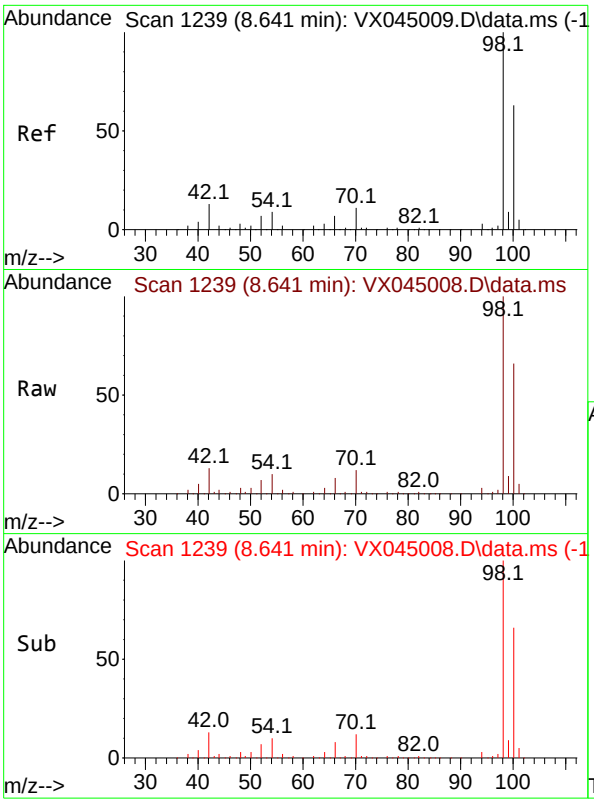


#62
Toluene
Concen: 5.071 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion: 91 Resp: 33141

Ion	Ratio	Lower	Upper
91	100		
92	55.1	46.9	70.3





#63
Toluene-d8
Concen: 29.865 ug/l
RT: 8.641 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion: 98 Resp: 16300

Ion	Ratio	Lower	Upper
98	100		
100	66.6	51.7	77.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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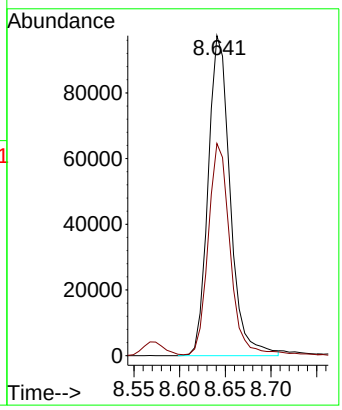
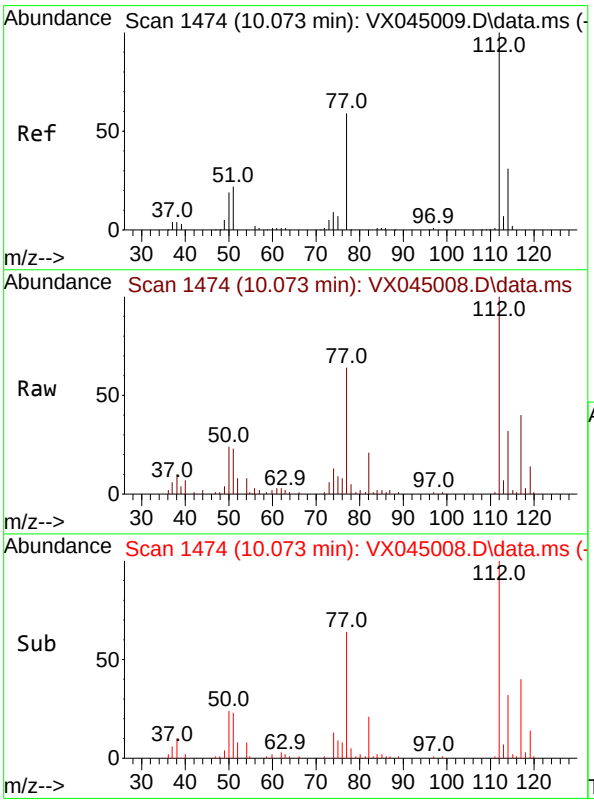
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

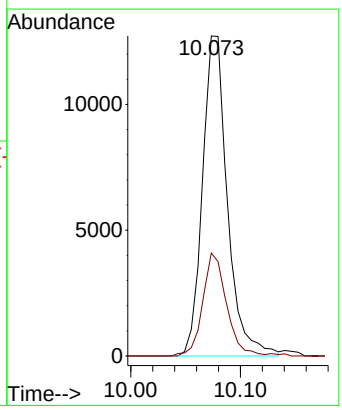


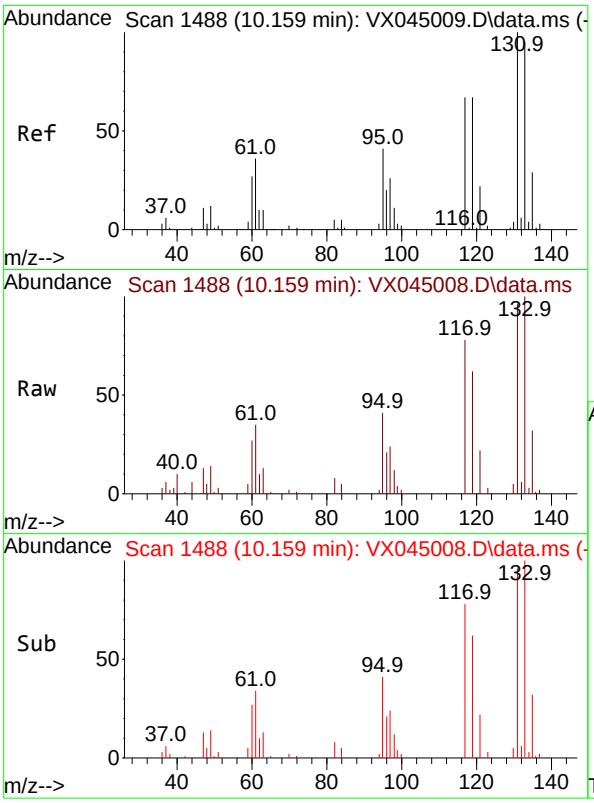


#64
Chlorobenzene
Concen: 4.965 ug/l
RT: 10.073 min Scan# 1474
Delta R.T. -0.000 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion:112 Resp: 20106

Ion	Ratio	Lower	Upper
112	100		
114	31.7	24.7	37.1





#65
1,1,1,2-Tetrachloroethane
Concen: 4.934 ug/l
RT: 10.159 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion:131 Resp: 659

Ion	Ratio	Lower	Upper
131	100		
133	96.7	0.0	187.8
119	67.3	0.0	133.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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Reviewed By :John Carlone 02/24/2025
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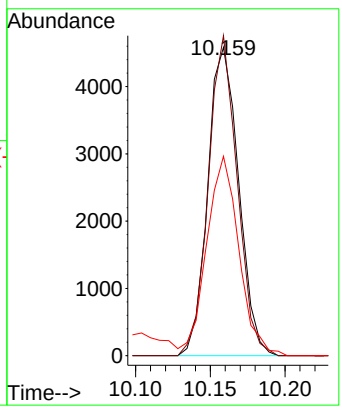
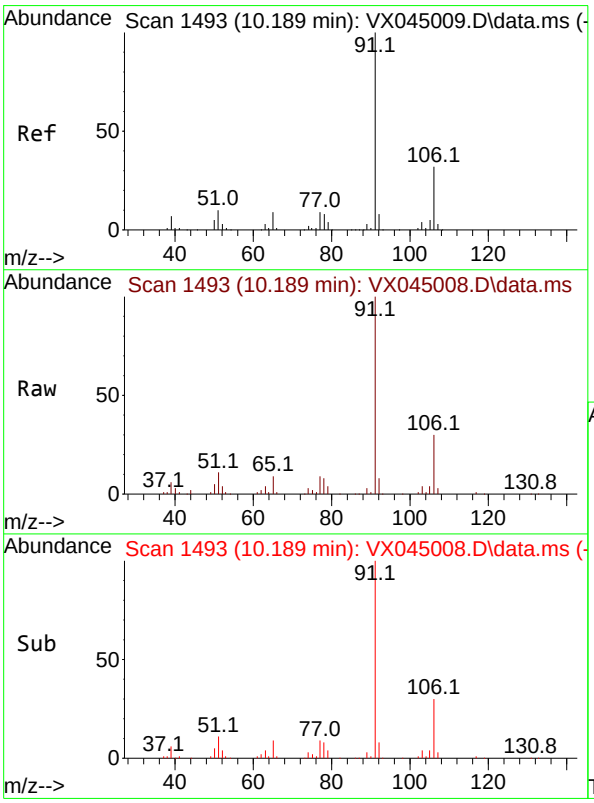
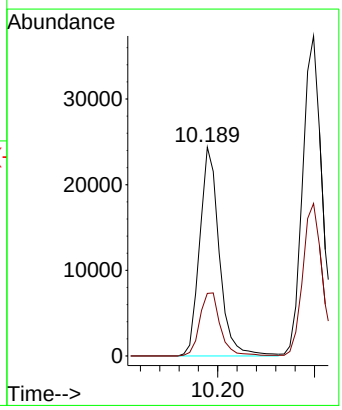


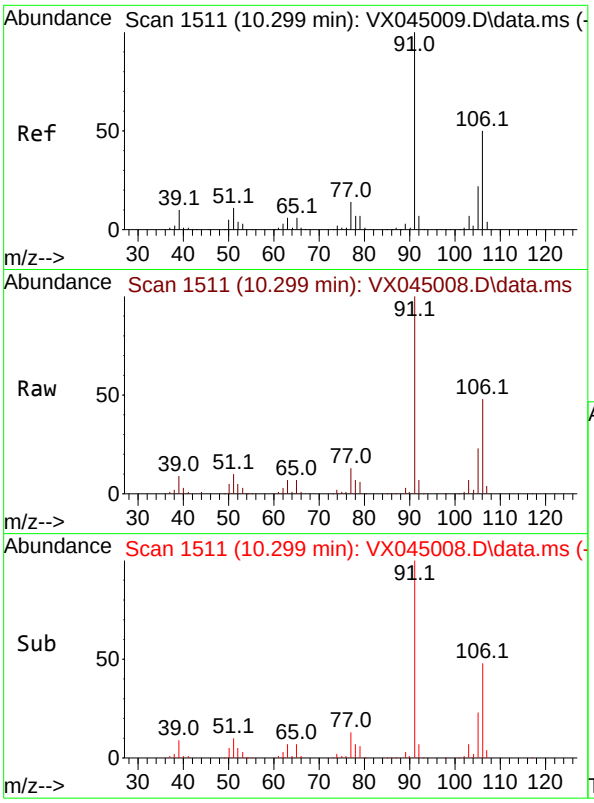


#66
Ethyl Benzene
Concen: 4.813 ug/l
RT: 10.189 min Scan# 1493
Delta R.T. -0.000 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion: 91 Resp: 34439

Ion	Ratio	Lower	Upper
91	100		
106	29.9	25.4	38.2





#67
m/p-Xylenes
Concen: 9.679 ug/l
RT: 10.299 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion:106 Resp: 2580

Ion	Ratio	Lower	Upper
106	100		
91	208.2	163.7	245.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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Reviewed By :John Carlone 02/24/2025
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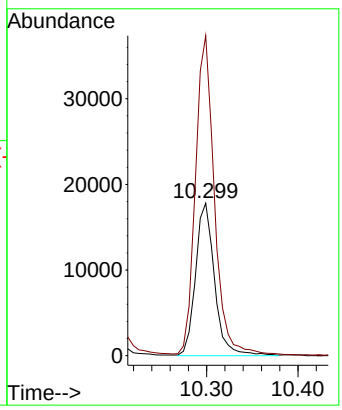
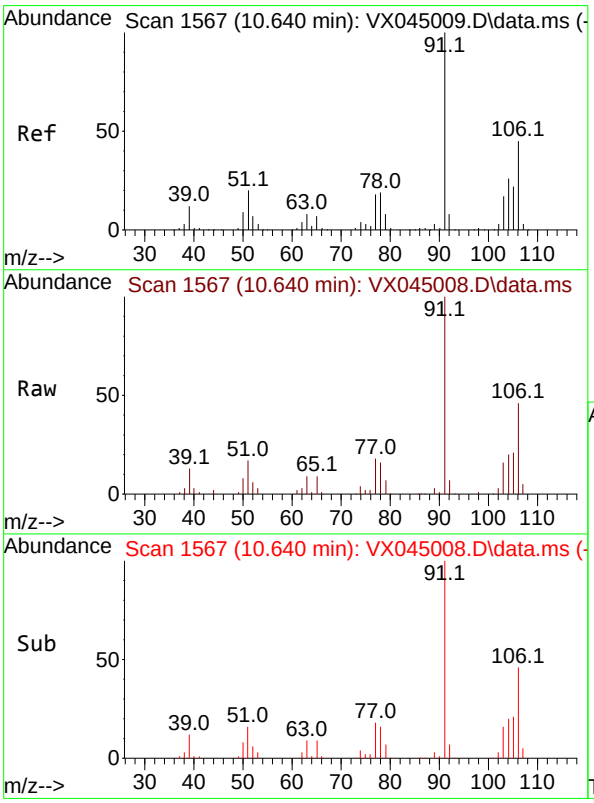
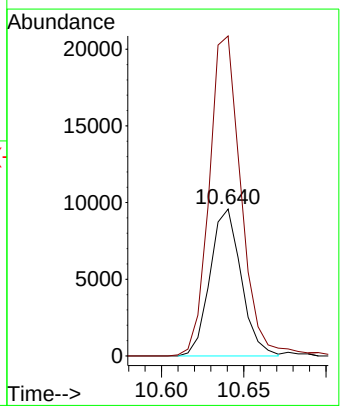


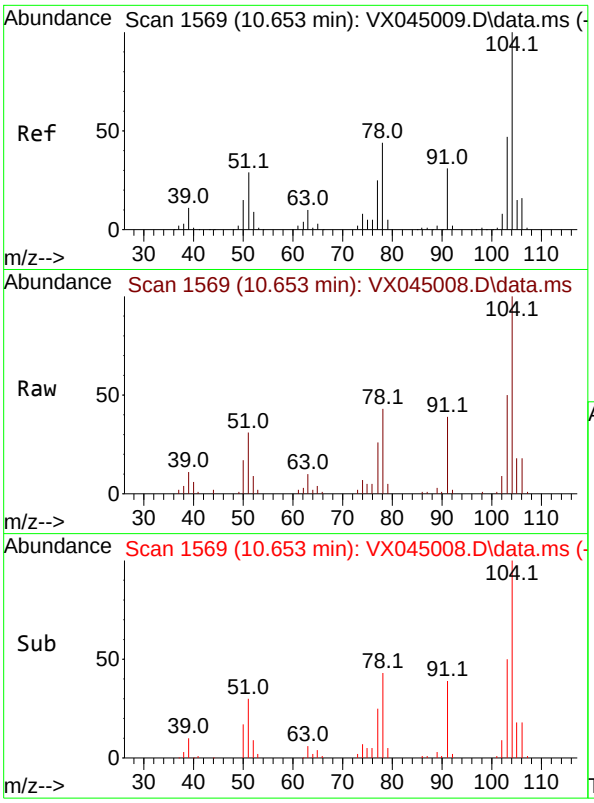


#68
o-Xylene
Concen: 4.824 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion:106 Resp: 12618

Ion	Ratio	Lower	Upper
106	100		
91	223.5	109.7	329.1

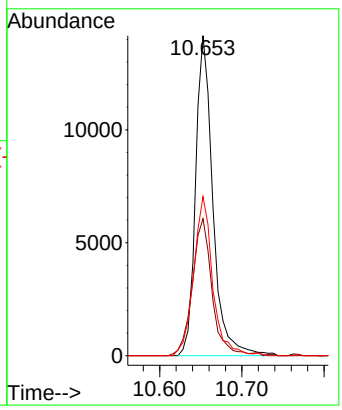




#69
Styrene
Concen: 4.741 ug/l
RT: 10.653 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion:104 Resp: 2071

Ion	Ratio	Lower	Upper
104	100		
78	48.4	41.4	62.0
103	54.4	43.0	64.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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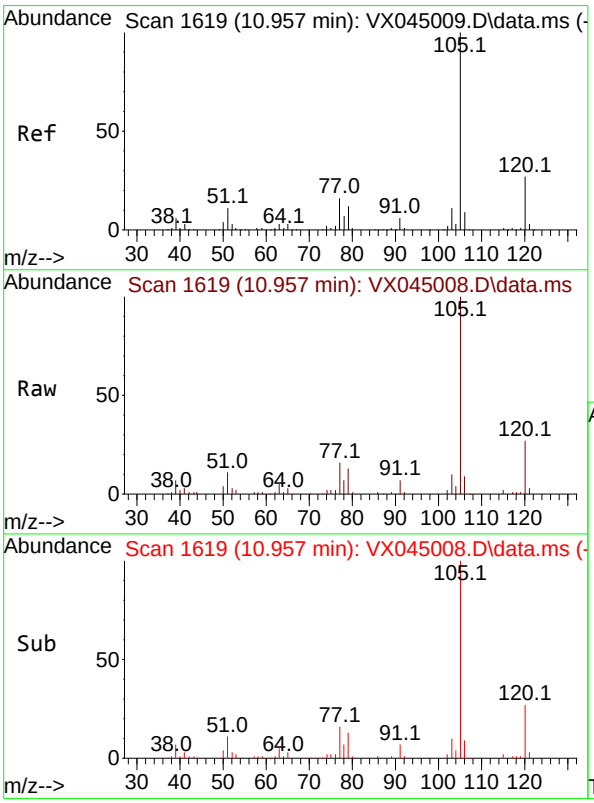
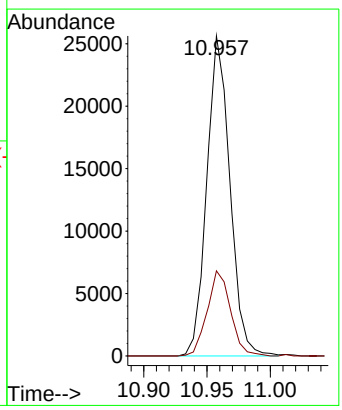
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

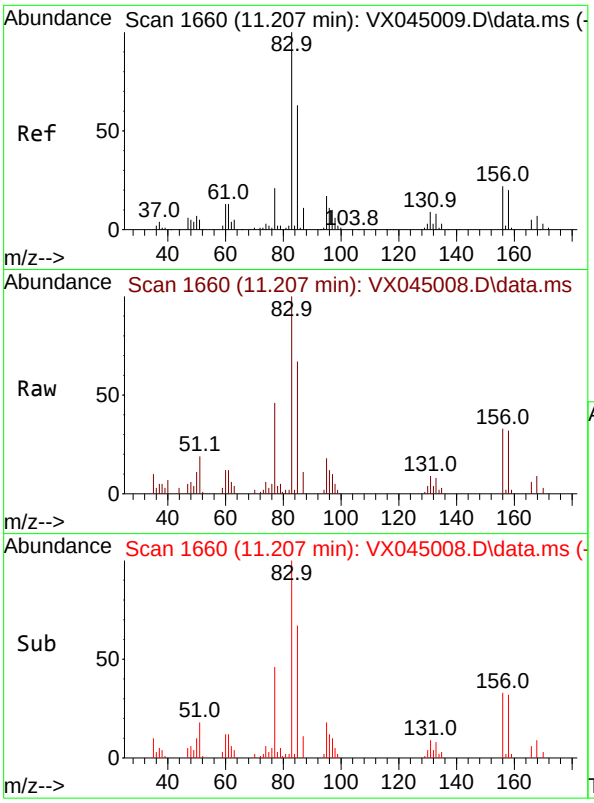


#70
Isopropylbenzene
Concen: 4.826 ug/l
RT: 10.957 min Scan# 1619
Delta R.T. -0.000 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion:105 Resp: 32576

Ion	Ratio	Lower	Upper
105	100		
120	26.8	18.4	34.2





#71
1,1,2,2-Tetrachloroethane
Concen: 4.929 ug/l
RT: 11.207 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion: 83 Resp: 1094

Ion	Ratio	Lower	Upper
83	100		
131	9.1	4.8	14.3
85	65.5	32.3	96.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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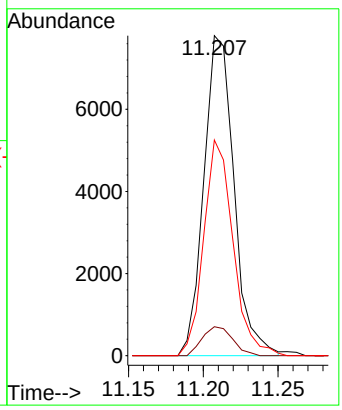
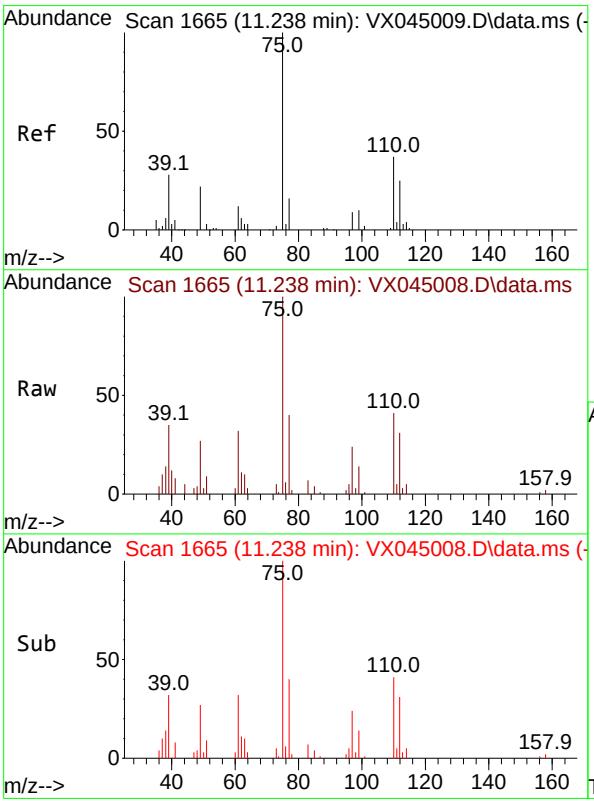
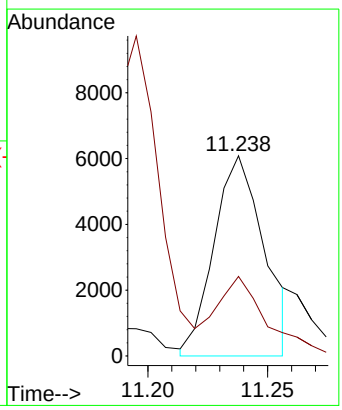


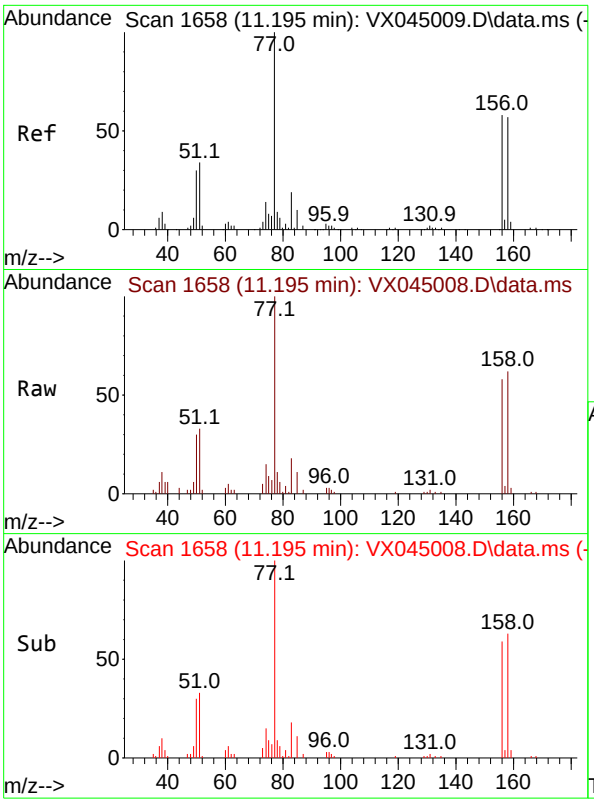


#72
1,2,3-Trichloropropane
Concen: 4.851 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion: 75 Resp: 8856

Ion	Ratio	Lower	Upper
75	100		
77	40.4	0.0	84.0

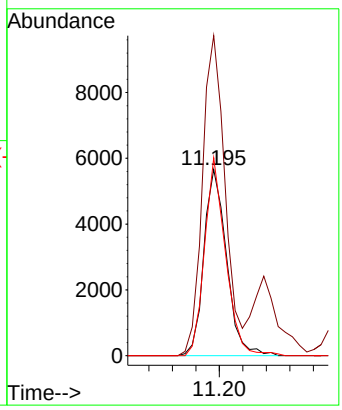




#73
Bromobenzene
Concen: 4.886 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion:156 Resp: 759

Ion	Ratio	Lower	Upper
156	100		
77	170.9	0.0	347.2
158	98.2	0.0	197.6



Instrument :
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ClientSampleId :
VSTDICC005

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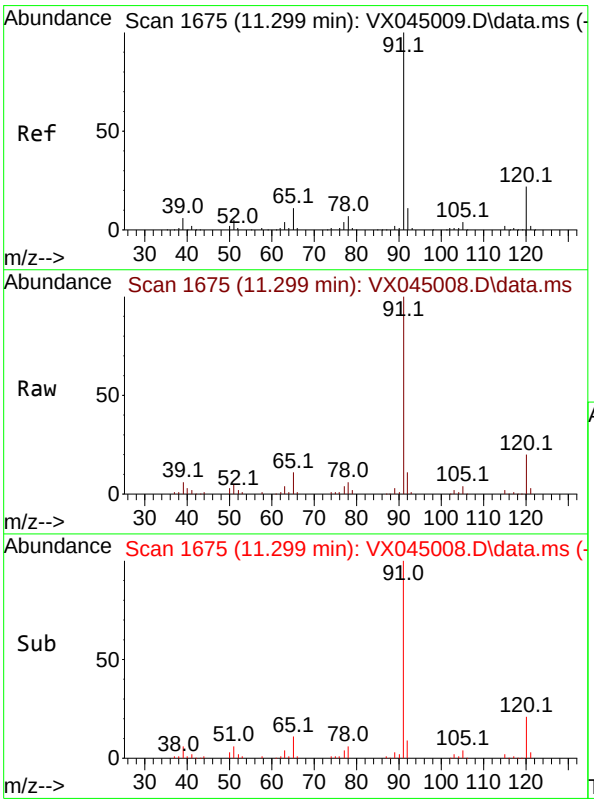
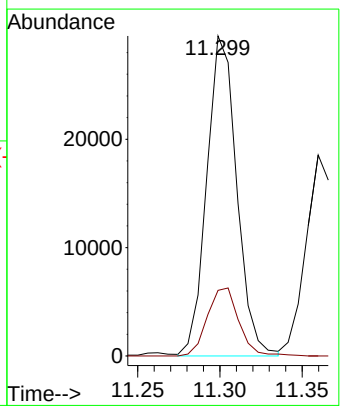
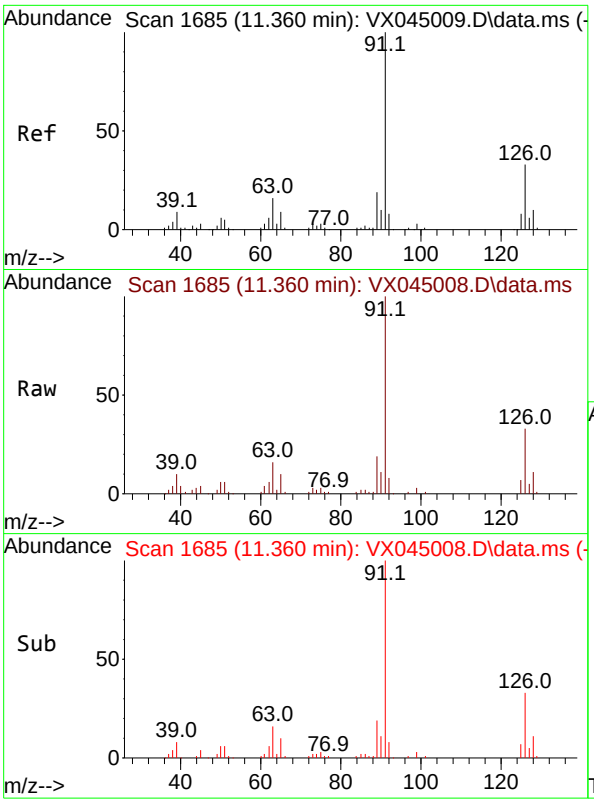


#74
n-propylbenzene
Concen: 4.669 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. -0.000 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion: 91 Resp: 37507

Ion	Ratio	Lower	Upper
91	100		
120	22.3	0.0	44.2





#75
2-Chlorotoluene
Concen: 4.961 ug/l
RT: 11.360 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion: 91 Resp: 2409

Ion	Ratio	Lower	Upper
91	100		
126	31.2	0.0	65.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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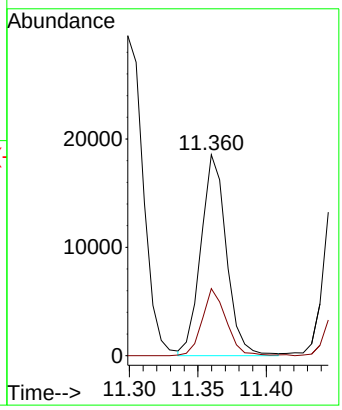
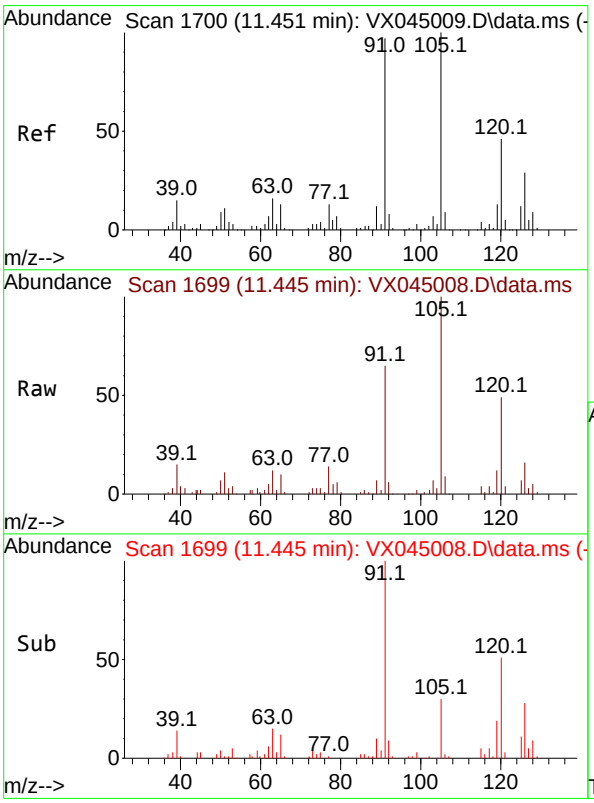
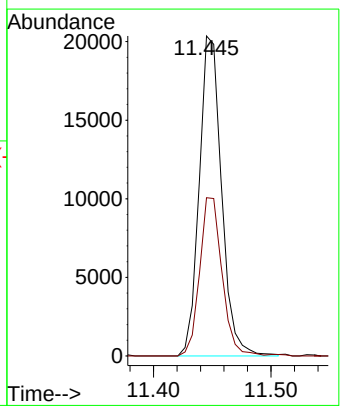


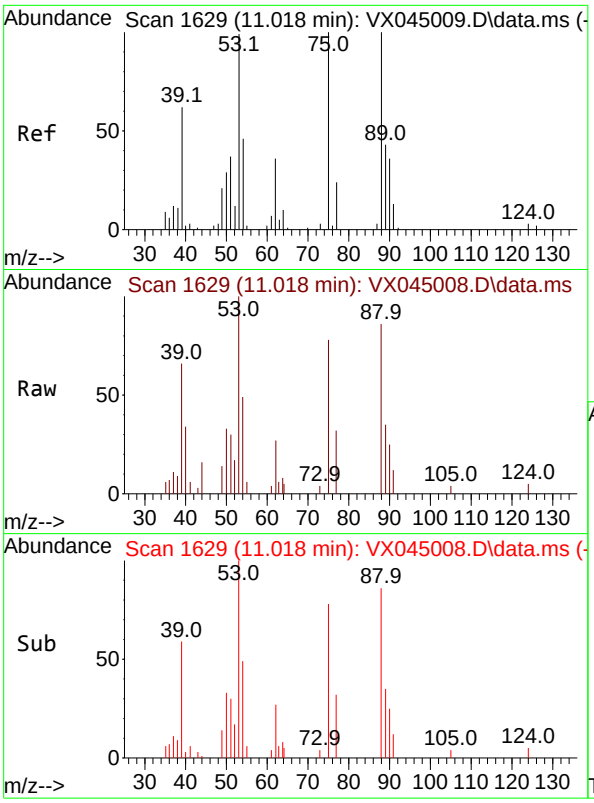


#76
1,3,5-Trimethylbenzene
Concen: 4.837 ug/l
RT: 11.445 min Scan# 1699
Delta R.T. -0.006 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion:105 Resp: 26935

Ion	Ratio	Lower	Upper
105	100		
120	49.5	0.0	94.4





#77
t-1,4-Dichloro-2-butene
Concen: 3.552 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion: 75 Resp: 218

Ion	Ratio	Lower	Upper
75	100		
53	123.8	49.8	149.4
89	45.4	21.4	64.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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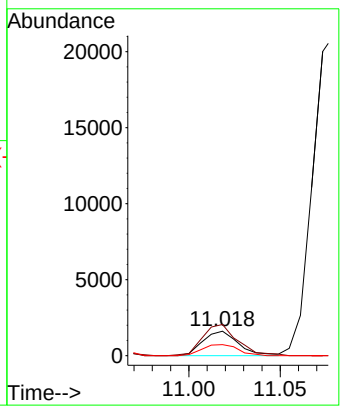
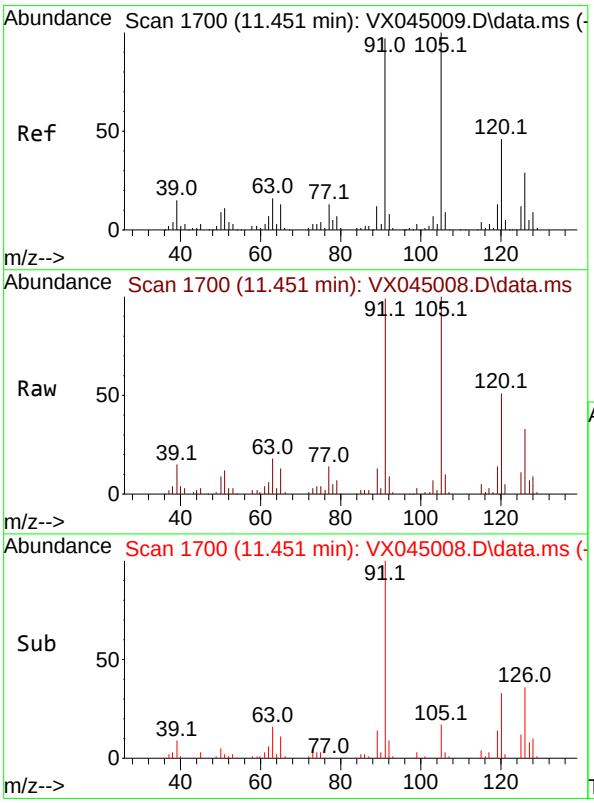
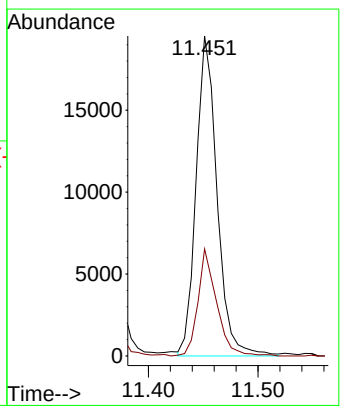


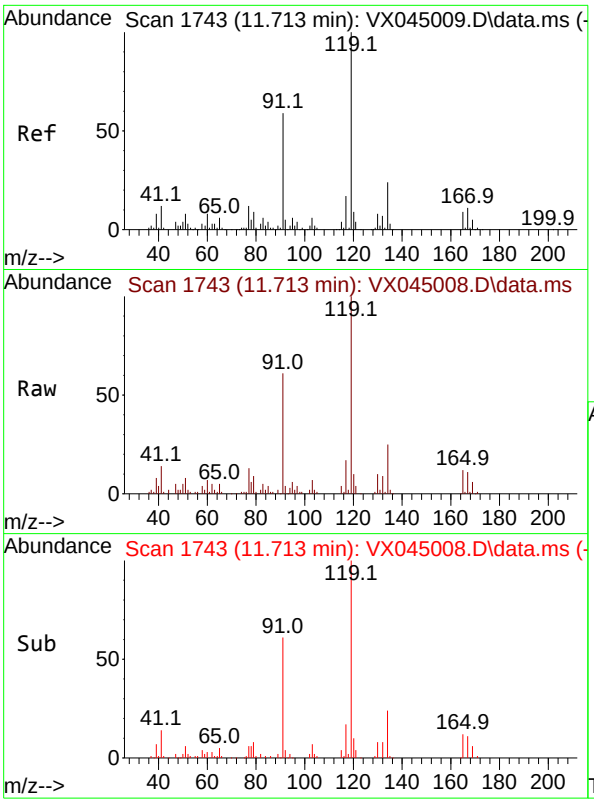


#78
4-Chlorotoluene
Concen: 4.800 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion: 91 Resp: 25983

Ion	Ratio	Lower	Upper
91	100		
126	29.6	0.0	58.0

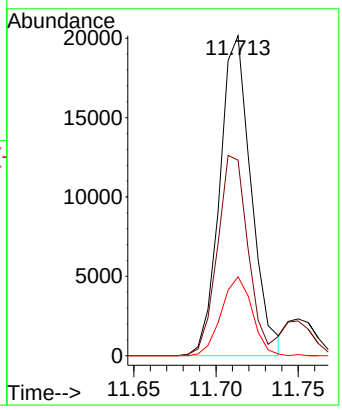




#79
tert-butylbenzene
Concen: 4.772 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion:119 Resp: 2677

Ion	Ratio	Lower	Upper
119	100		
91	60.8	0.0	120.6
134	24.1	0.0	48.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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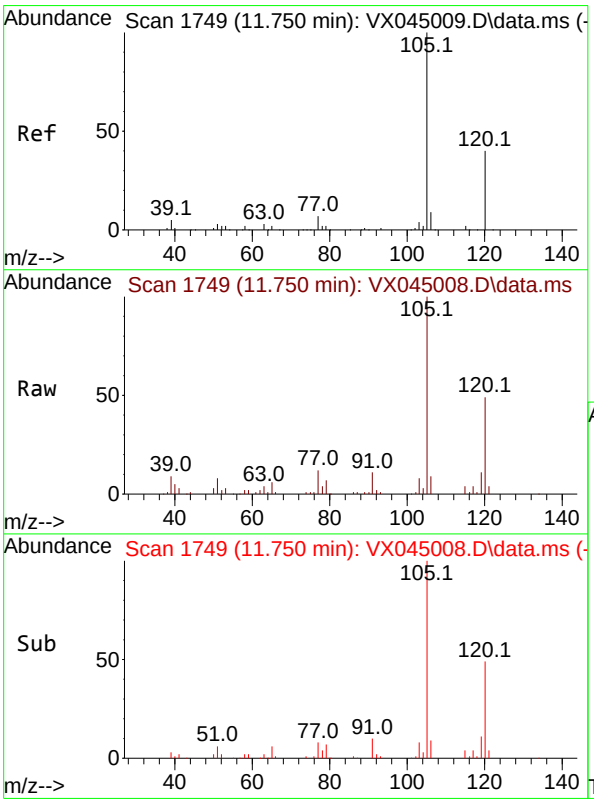
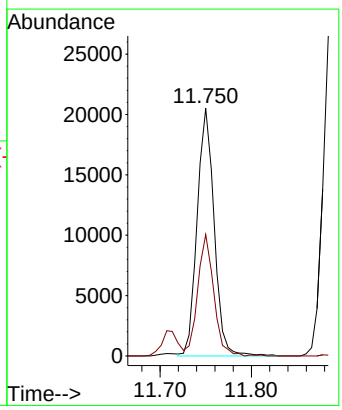
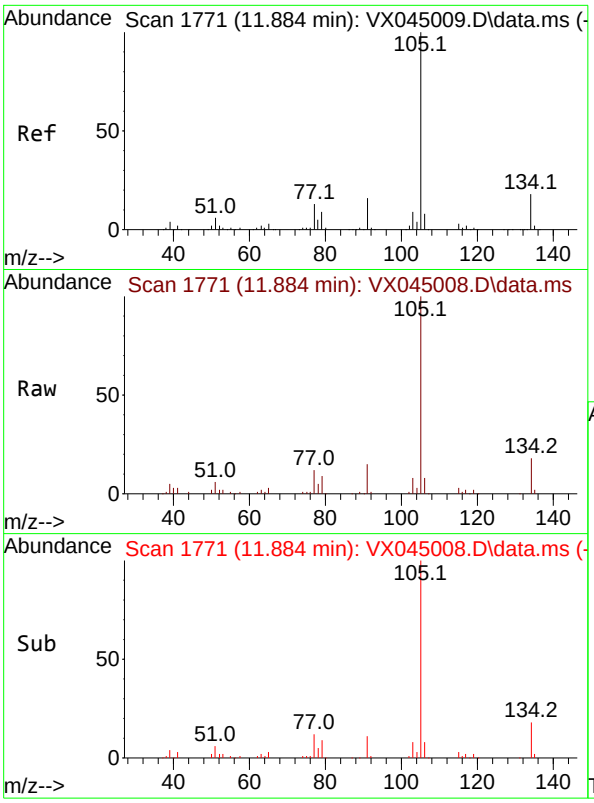


#80
1,2,4-Trimethylbenzene
Concen: 4.763 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion:105 Resp: 26568

Ion	Ratio	Lower	Upper
105	100		
120	46.0	0.0	88.4





#81
sec-Butylbenzene
Concen: 4.801 ug/l
RT: 11.884 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion:105 Resp: 3380

Ion	Ratio	Lower	Upper
105	100		
134	19.2	0.0	39.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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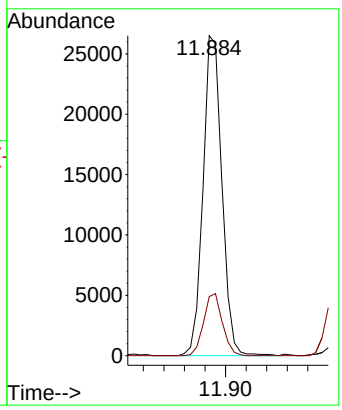
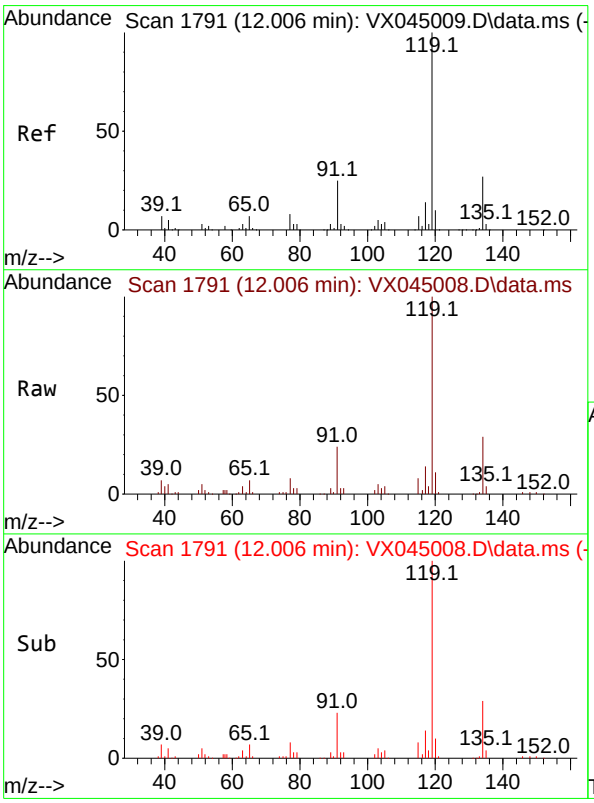
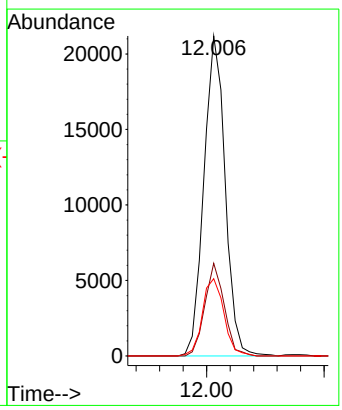


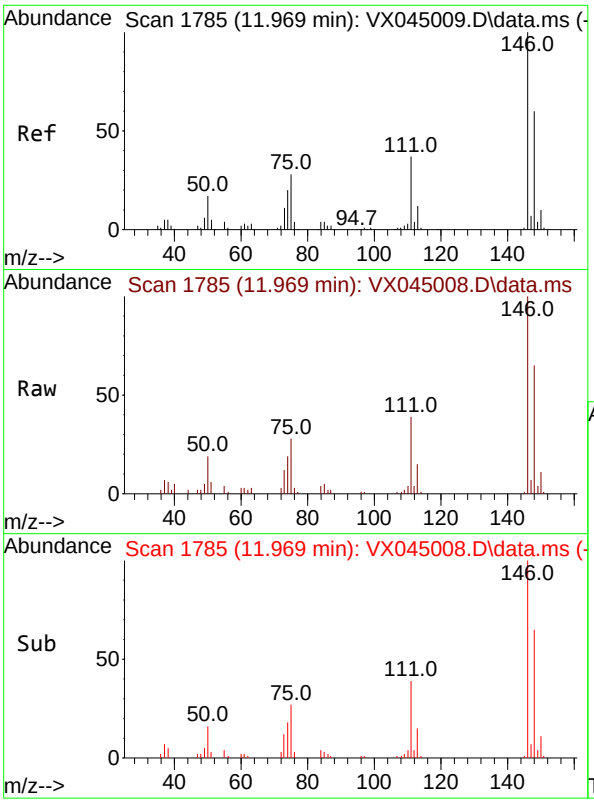


#82
p-Isopropyltoluene
Concen: 4.653 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion:119 Resp: 26547

Ion	Ratio	Lower	Upper
119	100		
134	26.5	0.0	52.6
91	24.5	0.0	51.0

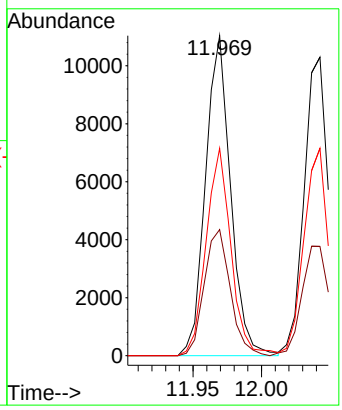




#83
1,3-Dichlorobenzene
Concen: 4.863 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion:146 Resp: 1406

Ion	Ratio	Lower	Upper
146	100		
111	40.9	20.2	60.5
148	63.5	31.2	93.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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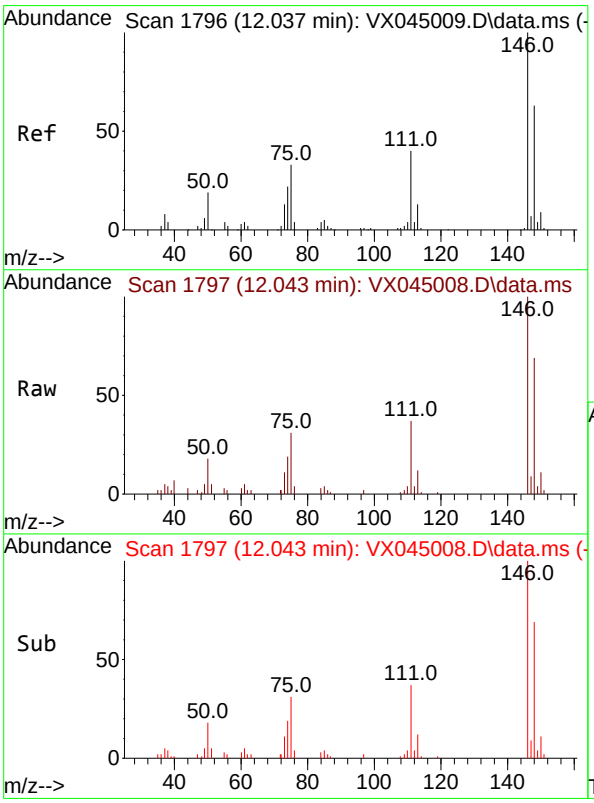
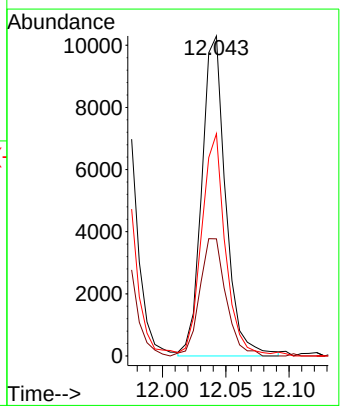
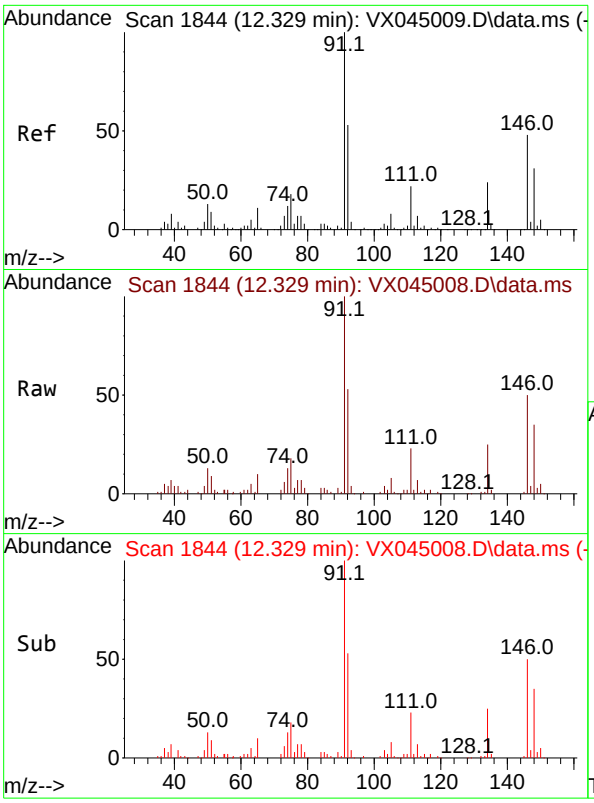


#84
1,4-Dichlorobenzene
Concen: 4.755 ug/l
RT: 12.043 min Scan# 1797
Delta R.T. 0.006 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion:146 Resp: 13556

Ion	Ratio	Lower	Upper
146	100		
111	40.3	20.4	61.2
148	69.1	31.8	95.4

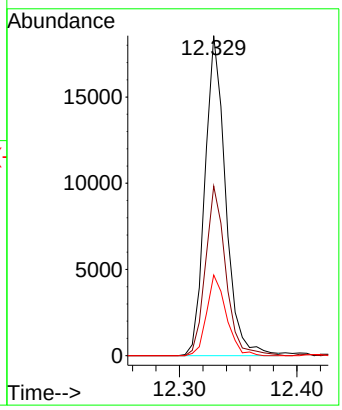




#85
n-Butylbenzene
Concen: 4.344 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion: 91 Resp: 2263

Ion	Ratio	Lower	Upper
91	100		
92	52.0	0.0	105.2
134	23.5	0.0	49.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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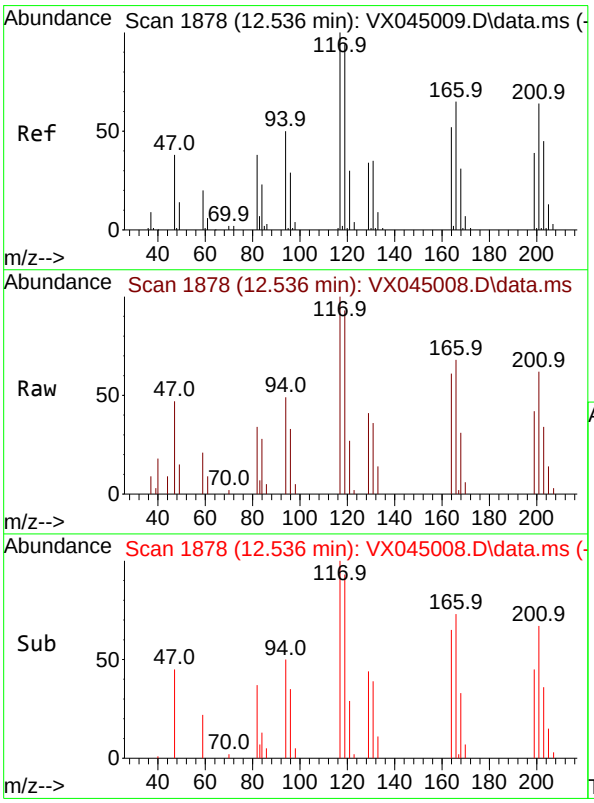
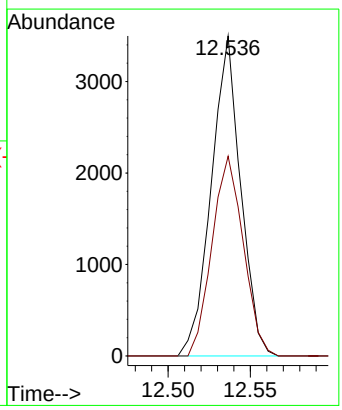
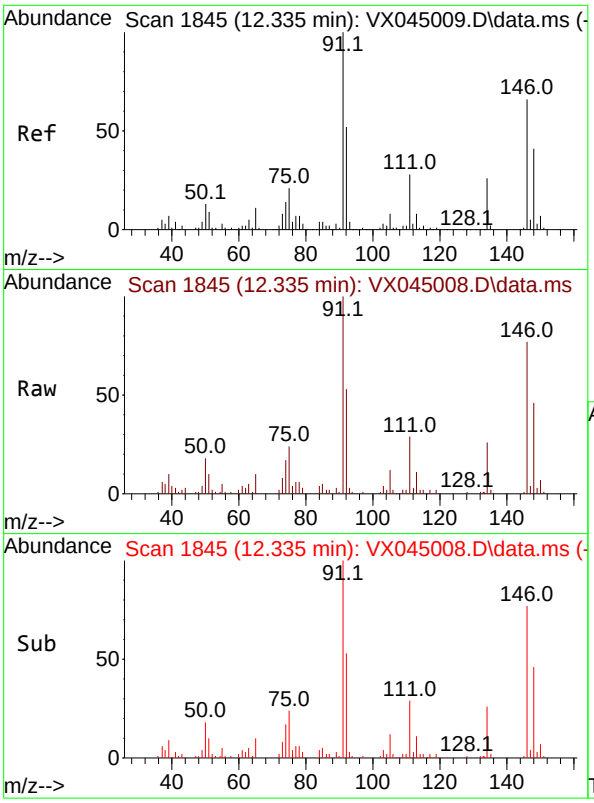


#86
Hexachloroethane
Concen: 4.313 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion:117 Resp: 4340

Ion	Ratio	Lower	Upper
117	100		
201	66.5	32.6	97.7

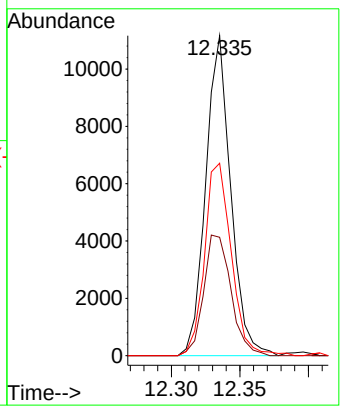




#87
1,2-Dichlorobenzene
Concen: 5.001 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion:146 Resp: 1418

Ion	Ratio	Lower	Upper
146	100		
111	41.2	21.7	65.1
148	64.4	31.8	95.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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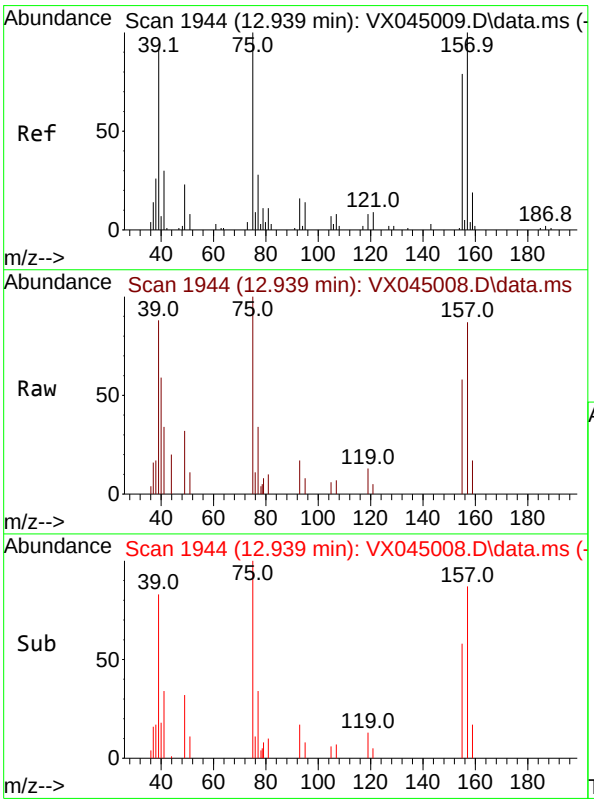
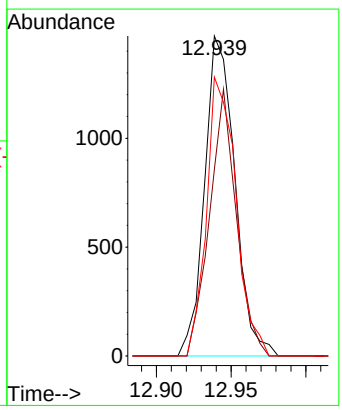
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

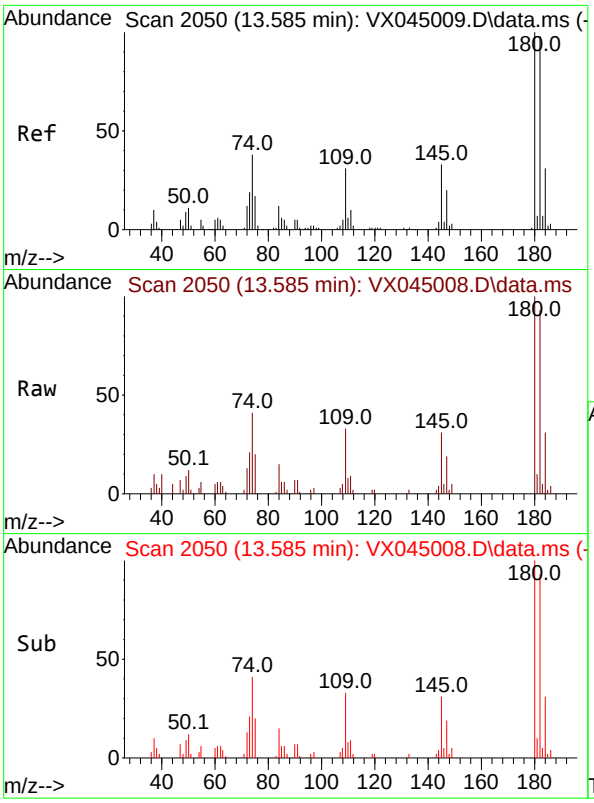


#88
1,2-Dibromo-3-Chloropropane
Concen: 4.810 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.000 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion: 75 Resp: 2067

Ion	Ratio	Lower	Upper
75	100		
155	74.0	66.2	99.4
157	84.6	81.4	122.2

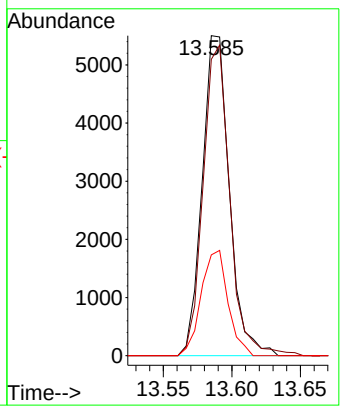




#89
1,2,4-Trichlorobenzene
Concen: 4.412 ug/l
RT: 13.585 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion:180 Resp: 758

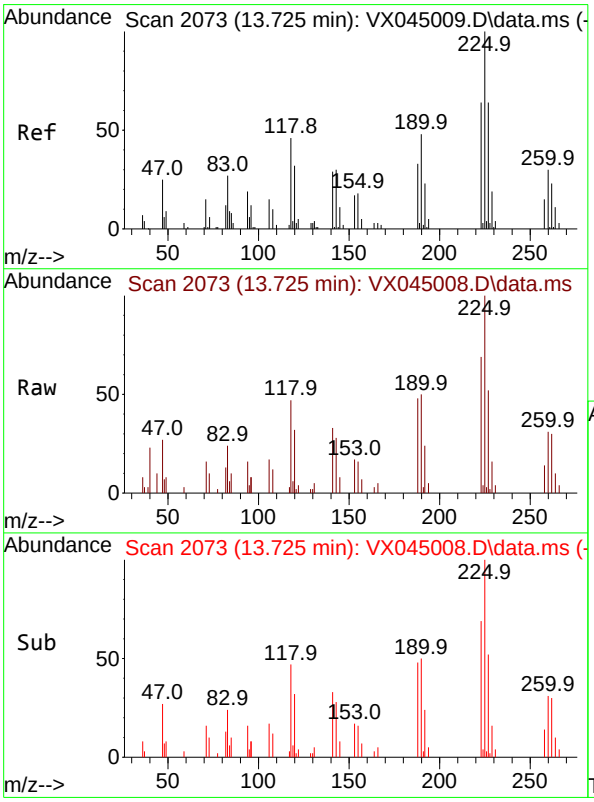
Ion	Ratio	Lower	Upper
180	100		
182	95.3	77.7	116.5
145	32.5	25.8	38.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

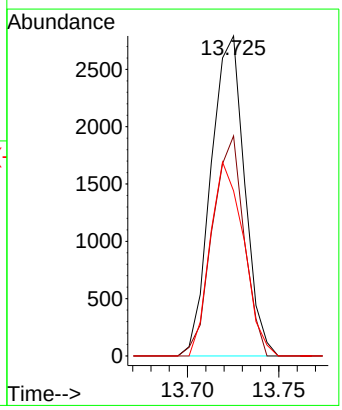
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

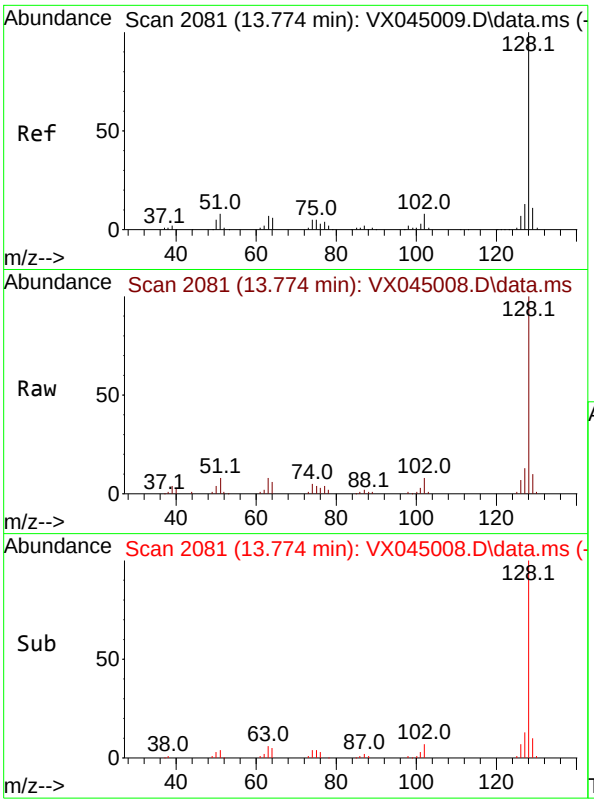


#90
Hexachlorobutadiene
Concen: 5.091 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion:225 Resp: 3570

Ion	Ratio	Lower	Upper
225	100		
223	64.8	0.0	123.4
227	60.6	0.0	127.4

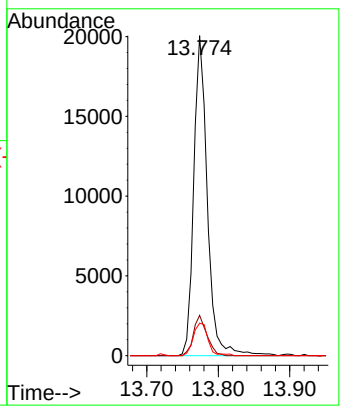




#91
Naphthalene
Concen: 4.356 ug/l
RT: 13.774 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion:128 Resp: 2641

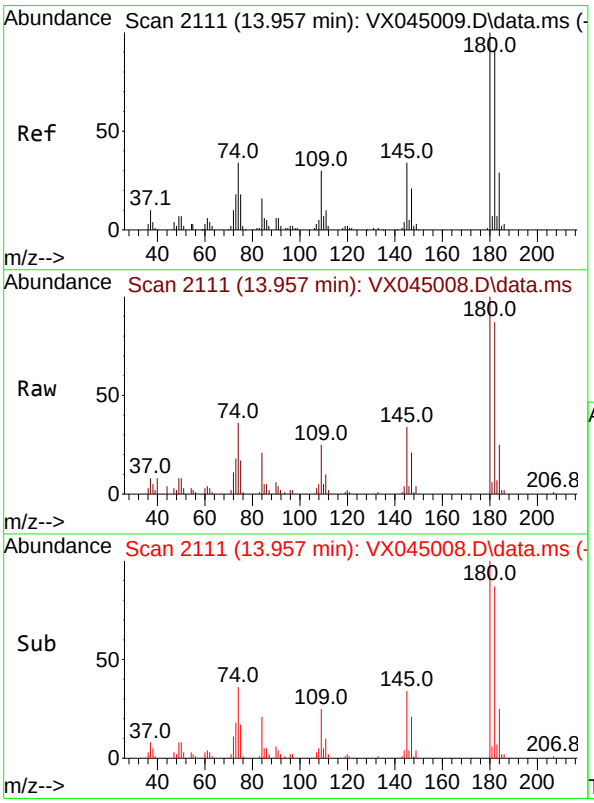
Ion	Ratio	Lower	Upper
128	100		
127	12.5	10.5	15.7
129	10.6	8.7	13.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

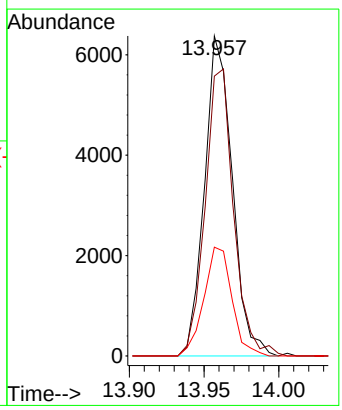
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025



#92
1,2,3-Trichlorobenzene
Concen: 4.655 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VX045008.D
Acq: 21 Feb 2025 09:58

Tgt Ion:180 Resp: 8240

Ion	Ratio	Lower	Upper
180	100		
182	91.9	0.0	186.6
145	34.4	0.0	68.4



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022125\
Data File : VX045009.D
Acq On : 21 Feb 2025 10:21
Operator : JC/MD
Sample : VSTDICCC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC020

Manual Integrations APPROVED

Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

Quant Time: Feb 22 00:47:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X022125W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Feb 22 00:21:26 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	4.885	128	18456	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	100876	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.049	117	91818	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.946	65	53173	29.663	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 98.867%			
60) 4-Bromofluorobenzene	11.079	95	51382	29.939	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 99.800%			
63) Toluene-d8	8.641	98	153274	30.175	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.567%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.167	85	30488	19.596	ug/l	100
3) Chloromethane	1.295	50	36739	19.715	ug/l	100
4) Vinyl Chloride	1.374	62	34827	19.369	ug/l	100
5) Bromomethane	1.593	94	12009	19.186	ug/l	100
6) Chloroethane	1.666	64	20465	21.014	ug/l	100
7) Trichlorofluoromethane	1.874	101	45678	18.901	ug/l	100
8) Diethyl Ether	2.130	74	17586	19.233	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.325	101	26971	18.790	ug/l	100
10) 1,1-Dichloroethene	2.313	96	26361	18.802	ug/l	100
11) Methyl Iodide	2.447	142	26786	16.880	ug/l	100
12) Methyl Acetate	2.697	43	30401	18.673	ug/l	100
13) Acrolein	2.233	56	29114	89.216	ug/l	100
14) Acrylonitrile	3.056	53	76500	96.198	ug/l	100
15) Acetone	2.380	58	21647	99.253	ug/l	100
16) Carbon Disulfide	2.502	76	73699	18.532	ug/l	100
17) Allyl chloride	2.660	41	48603	18.535	ug/l	100
18) Methylene Chloride	2.782	84	30537	19.365	ug/l	100
19) trans-1,2-Dichloroethene	3.081	96	26955	19.003	ug/l	100
20) Diisopropyl ether	3.751	45	95769	19.005	ug/l	100
21) 1,1-Dichloroethane	3.605	63	53432	19.066	ug/l	100
22) cis-1,2-Dichloroethene	4.483	96	32387	19.054	ug/l	100
23) tert-Butyl Alcohol	2.983	59	26136	94.028	ug/l #	100
24) Methyl tert-Butyl Ether	3.105	73	86386	18.878	ug/l	100
25) Chloroform	5.087	83	52389	19.354	ug/l	100
26) Cyclohexane	5.465	56	49670	19.201	ug/l #	100
29) 1,1-Dichloropropene	5.690	75	36104	19.456	ug/l	100
30) 2-Butanone	4.550	43	104263	97.278	ug/l	100
31) 2,2-Dichloropropane	4.465	77	39511	18.830	ug/l	100
32) 1,1,1-Trichloroethane	5.373	97	43317	19.266	ug/l	100
33) Carbon Tetrachloride	5.666	117	36851	19.421	ug/l	100
34) Benzene	6.032	78	114107	19.609	ug/l	100
35) Methacrylonitrile	4.910	41	22376	19.509	ug/l	100
36) 1,2-Dichloroethane	6.080	62	39058	19.604	ug/l	100
37) Trichloroethene	7.117	130	26892	19.753	ug/l	100
38) Methylcyclohexane	7.373	83	47088	18.899	ug/l	100
39) 1,2-Dichloropropane	7.428	63	28555	19.738	ug/l	100
40) Dibromomethane	7.580	93	20254	19.509	ug/l	100
41) Bromodichloromethane	7.818	83	39895	19.335	ug/l	100
42) Vinyl Acetate	3.715	43	400180	96.216	ug/l	100

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022125\
Data File : VX045009.D
Acq On : 21 Feb 2025 10:21
Operator : JC/MD
Sample : VSTDICCC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 22 00:47:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X022125W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Feb 22 00:21:26 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC020

Manual Integrations APPROVED

Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.709	43	38893	19.350	ug/l	100
44) Isopropyl Acetate	6.336	43	61693	18.649	ug/l	100
45) 1,4-Dioxane	7.659	88	14028	407.910	ug/l	100
46) Methyl methacrylate	7.690	41	30666	18.904	ug/l	100
47) n-amyl Acetate	10.842	43	54008	18.814	ug/l	100
48) t-1,3-Dichloropropene	8.976	75	35645	17.922	ug/l	100
49) cis-1,3-Dichloropropene	8.360	75	42718	18.974	ug/l	100
50) 1,1,2-Trichloroethane	9.147	97	27147	20.047	ug/l	100
51) Ethyl methacrylate	9.110	69	39389	18.495	ug/l	100
52) 1,3-Dichloropropane	9.305	76	47373	19.965	ug/l	100
53) Dibromochloromethane	9.519	129	29289	19.556	ug/l	100
54) 1,2-Dibromoethane	9.604	107	26948	19.597	ug/l	100
55) 2-Chloroethyl vinyl ether	8.238	63	105624	96.576	ug/l	100
56) Bromoform	10.799	173	17331	18.467	ug/l	100
58) 4-Methyl-2-Pentanone	8.568	43	208023	99.596	ug/l	100
59) 2-Hexanone	9.427	43	149308	98.899	ug/l	100
61) Tetrachloroethene	9.269	164	22529	19.926	ug/l	100
62) Toluene	8.714	91	119473	19.642	ug/l	100
64) Chlorobenzene	10.073	112	74287	19.710	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.159	131	24135	19.406	ug/l	100
66) Ethyl Benzene	10.189	91	128535	19.302	ug/l	100
67) m/p-Xylenes	10.299	106	99887	40.260	ug/l	100
68) o-Xylene	10.640	106	48859	20.071	ug/l	100
69) Styrene	10.653	104	80660	19.839	ug/l	100
70) Isopropylbenzene	10.957	105	124935	19.888	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.207	83	40659	19.683	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	33046m	19.450	ug/l	
73) Bromobenzene	11.195	156	28601	19.777	ug/l	100
74) n-propylbenzene	11.299	91	146105	19.544	ug/l	100
75) 2-Chlorotoluene	11.360	91	89859	19.883	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	103532	19.977	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	9794	17.133	ug/l	100
78) 4-Chlorotoluene	11.451	91	99015	19.654	ug/l	100
79) tert-butylbenzene	11.713	119	104250	19.965	ug/l	100
80) 1,2,4-Trimethylbenzene	11.750	105	104388	20.108	ug/l	100
81) sec-Butylbenzene	11.884	105	129645	19.783	ug/l	100
82) p-Isopropyltoluene	12.006	119	104594	19.698	ug/l	100
83) 1,3-Dichlorobenzene	11.969	146	53471	19.873	ug/l	100
84) 1,4-Dichlorobenzene	12.037	146	52302	19.714	ug/l	100
85) n-Butylbenzene	12.329	91	92551	19.087	ug/l	100
86) Hexachloroethane	12.536	117	17240	18.410	ug/l	100
87) 1,2-Dichlorobenzene	12.335	146	53134	20.126	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	12.939	75	7393	18.485	ug/l	100
89) 1,2,4-Trichlorobenzene	13.585	180	30018	18.760	ug/l	100
90) Hexachlorobutadiene	13.725	225	12822	19.649	ug/l	100
91) Naphthalene	13.774	128	108844	19.291	ug/l	100
92) 1,2,3-Trichlorobenzene	13.957	180	32019	19.437	ug/l	100

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

ICAL Form

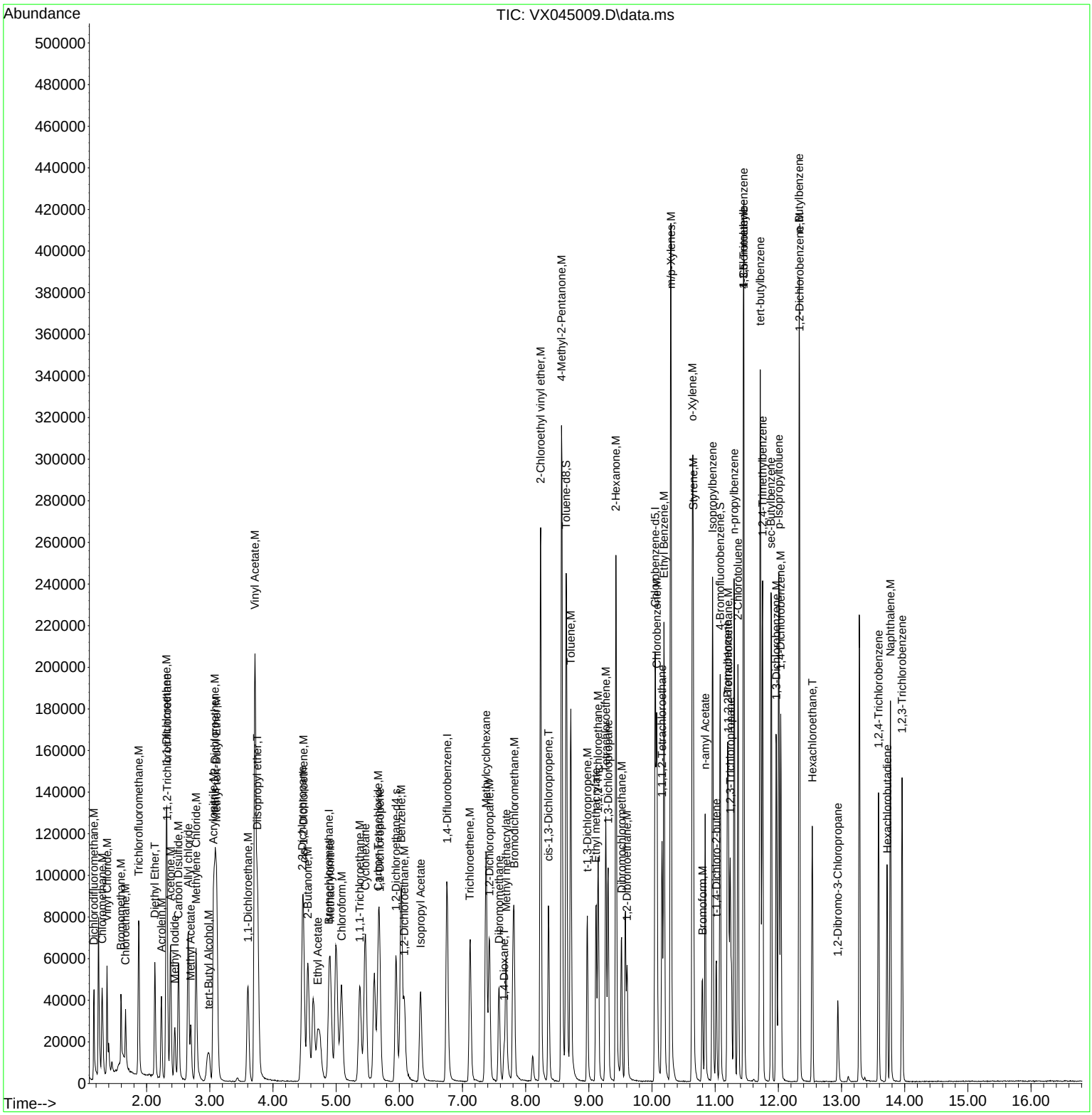
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022125\
Data File : VX045009.D
Acq On : 21 Feb 2025 10:21
Operator : JC/MD
Sample : VSTDICCC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 3 Sample Multiplier: 1

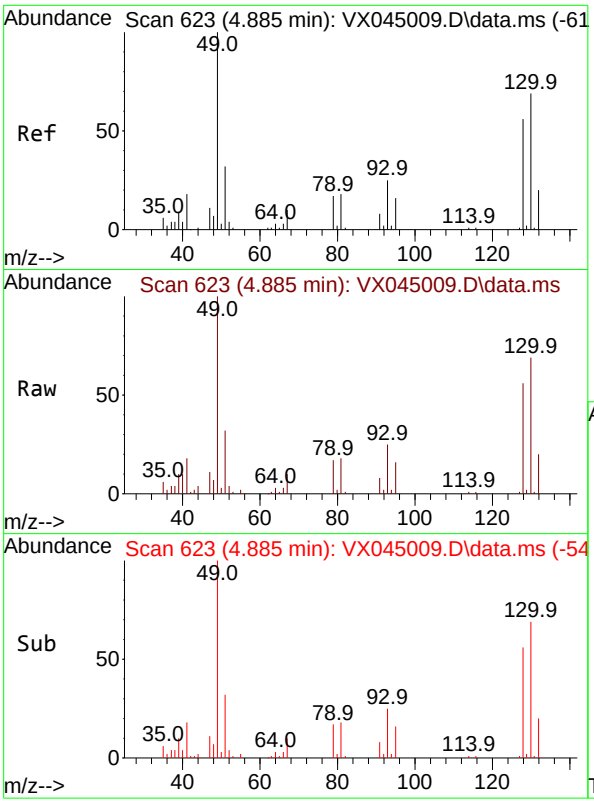
Quant Time: Feb 22 00:47:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X022125W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Feb 22 00:21:26 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC020

Manual Integrations APPROVED

Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

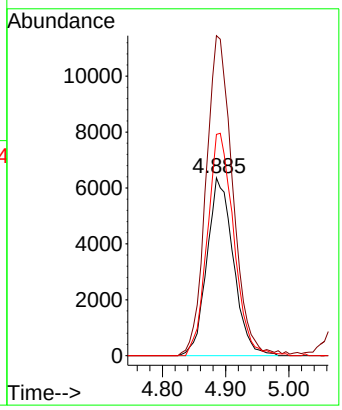




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.885 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion:128 Resp: 1845

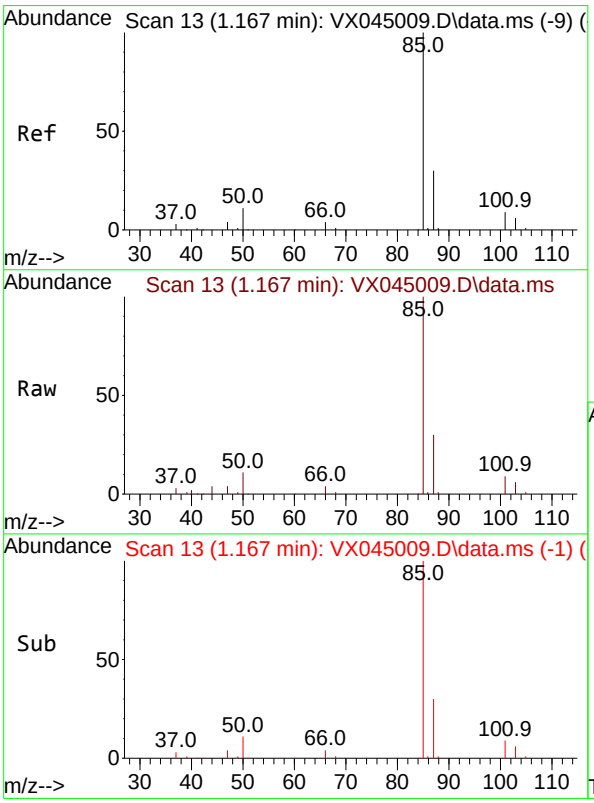
Ion	Ratio	Lower	Upper
128	100		
49	179.9	0.0	449.7
130	125.1	0.0	312.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC020

Manual Integrations
APPROVED

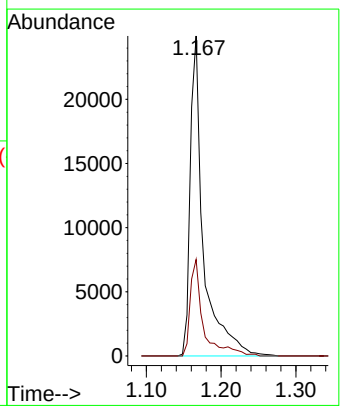
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

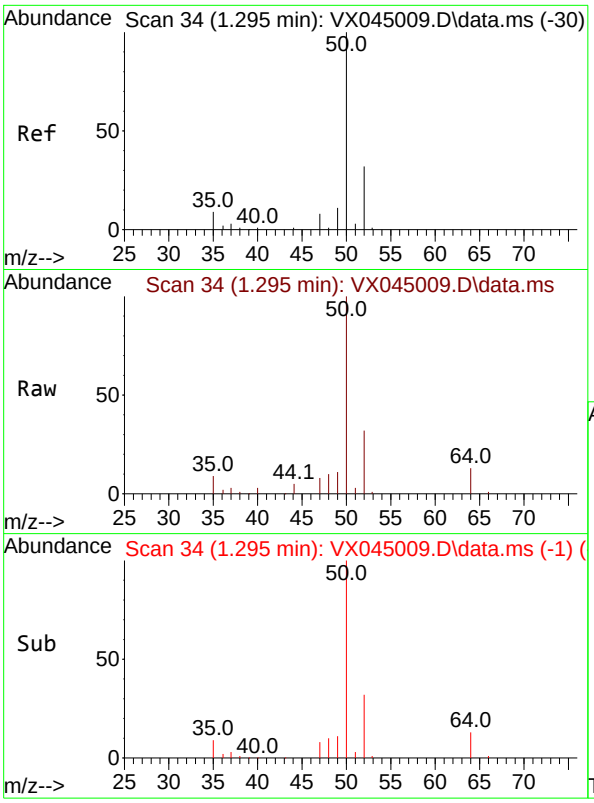


#2
Dichlorodifluoromethane
Concen: 19.596 ug/l
RT: 1.167 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion: 85 Resp: 30488

Ion	Ratio	Lower	Upper
85	100		
87	30.2	15.1	45.3

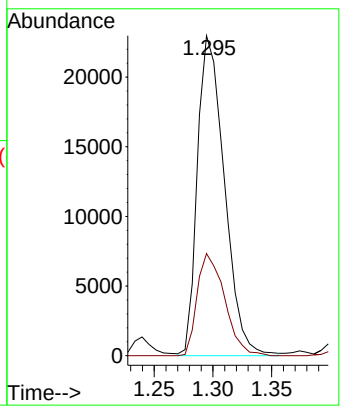




#3
Chloromethane
Concen: 19.715 ug/l
RT: 1.295 min Scan# 34
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion: 50 Resp: 3673

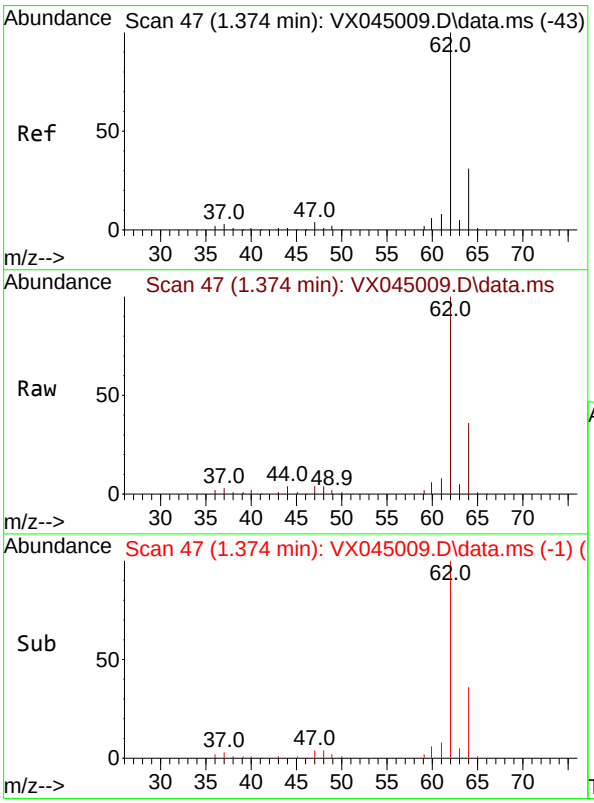
Ion	Ratio	Lower	Upper
50	100		
52	32.1	25.7	38.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC020

Manual Integrations
APPROVED

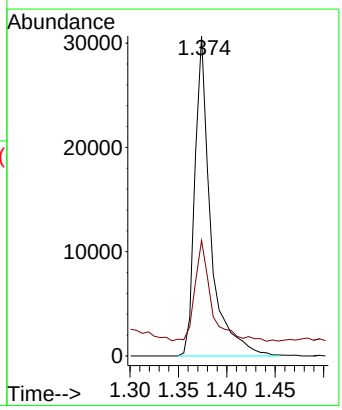
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

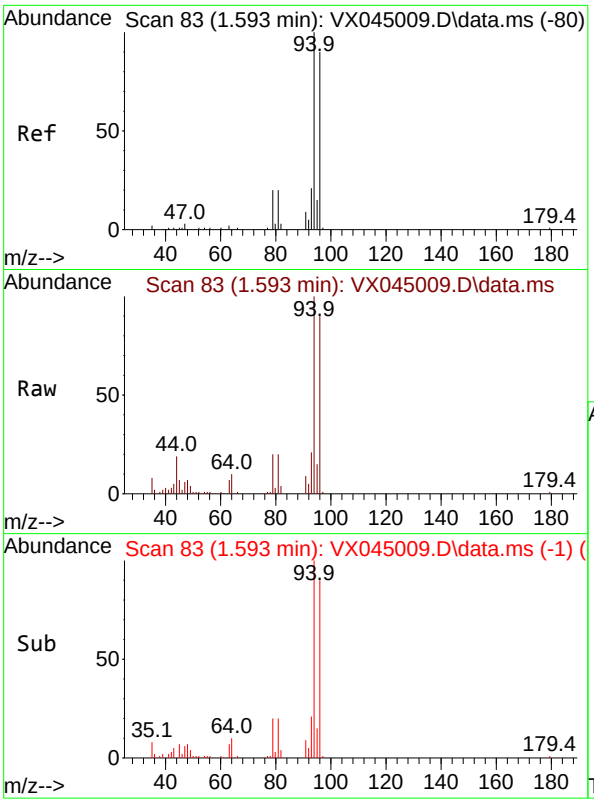


#4
Vinyl Chloride
Concen: 19.369 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion: 62 Resp: 34827

Ion	Ratio	Lower	Upper
62	100		
64	31.4	25.1	37.7

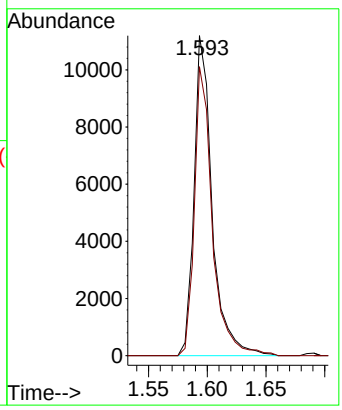




#5
Bromomethane
Concen: 19.186 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion: 94 Resp: 1200

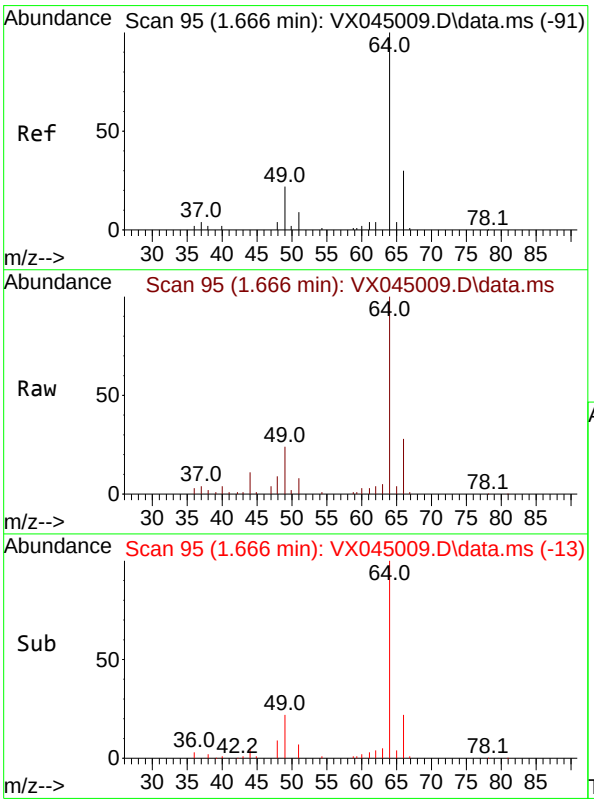
Ion	Ratio	Lower	Upper
94	100		
96	90.3	72.2	108.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC020

Manual Integrations
APPROVED

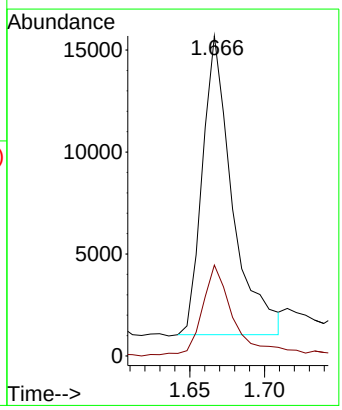
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

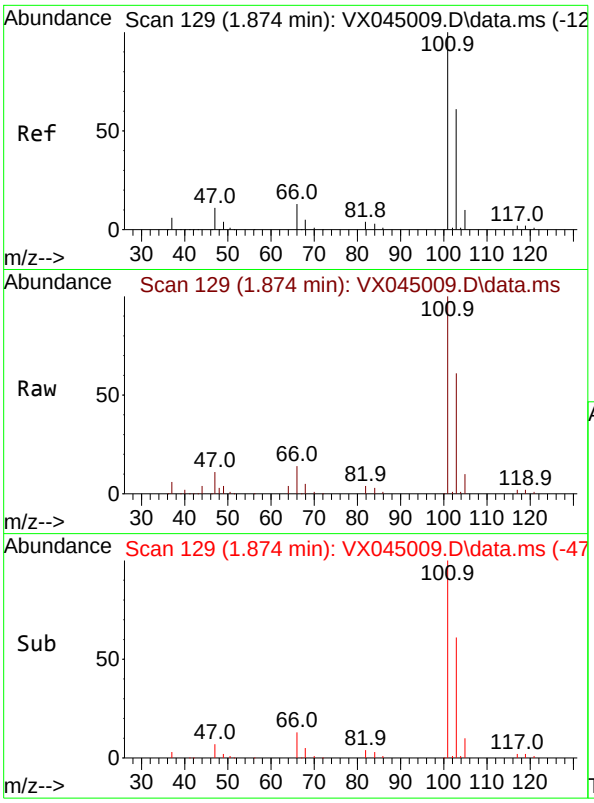


#6
Chloroethane
Concen: 21.014 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion: 64 Resp: 20465

Ion	Ratio	Lower	Upper
64	100		
66	29.6	23.7	35.5

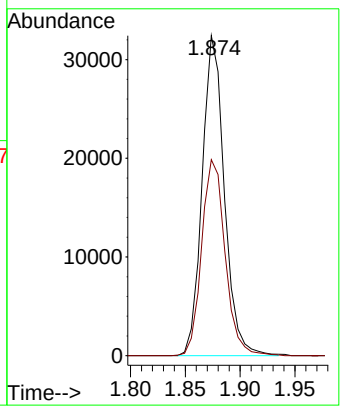




#7
Trichlorofluoromethane
Concen: 18.901 ug/l
RT: 1.874 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion:101 Resp: 4567

Ion	Ratio	Lower	Upper
101	100		
103	61.0	48.8	73.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC020

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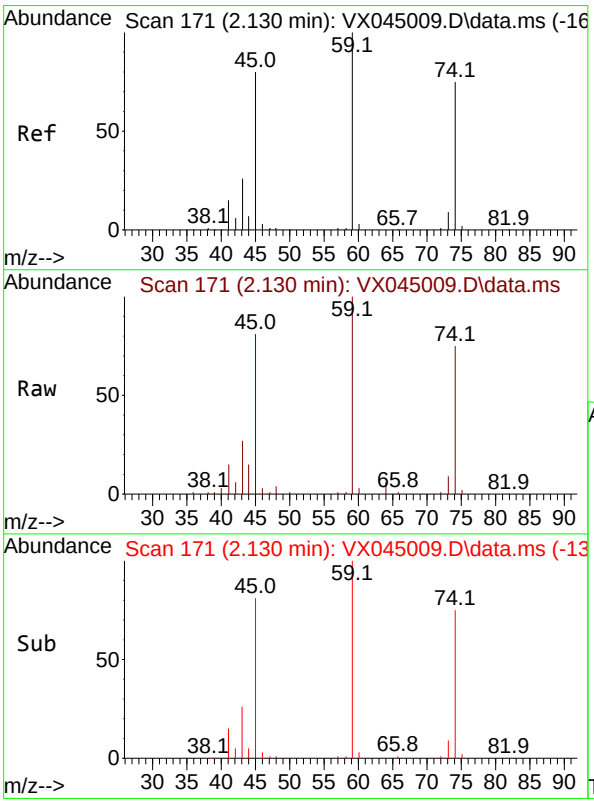
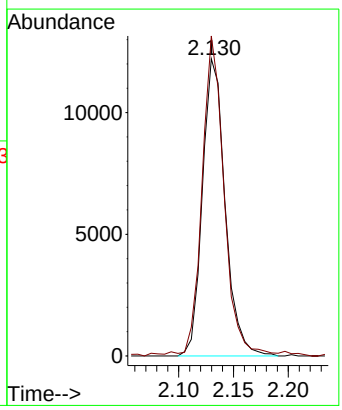
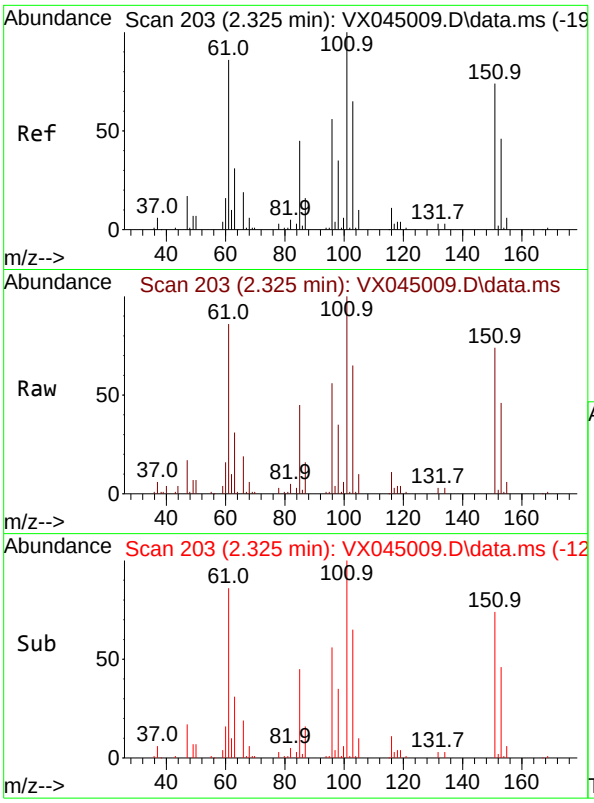


#8
Diethyl Ether
Concen: 19.233 ug/l
RT: 2.130 min Scan# 171
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion: 74 Resp: 17586

Ion	Ratio	Lower	Upper
74	100		
45	103.8	20.8	186.8





#9
1,1,2-Trichlorotrifluoroethane
Concen: 18.790 ug/l
RT: 2.325 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC020

Tgt Ion:101 Resp: 2697

Ion	Ratio	Lower	Upper
101	100		
85	45.3	0.0	90.6
151	73.8	0.0	147.6

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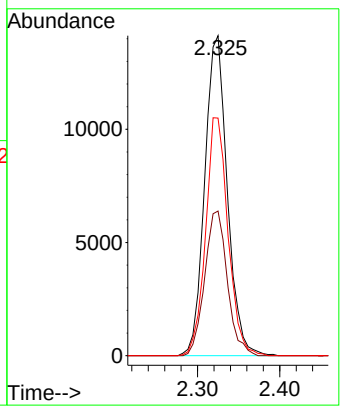
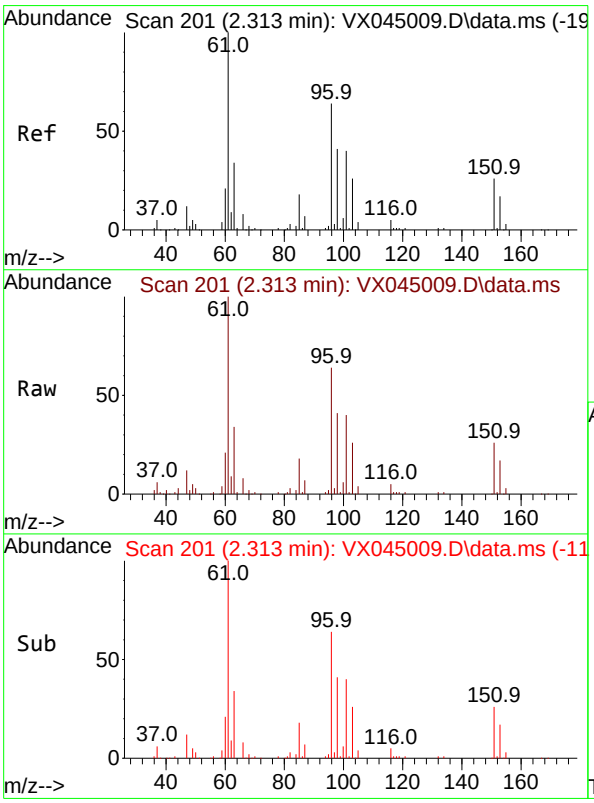
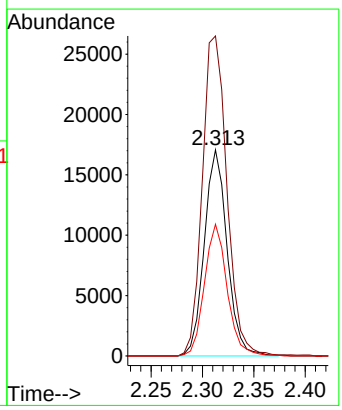


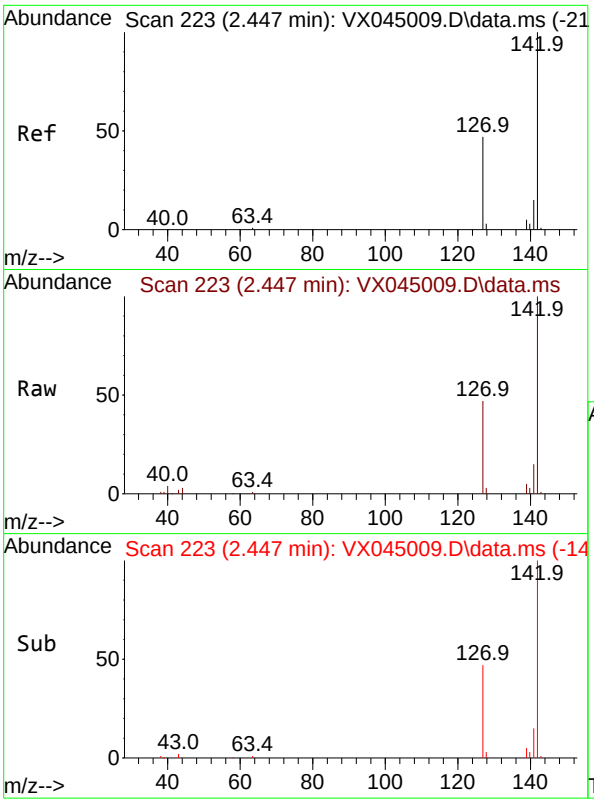


#10
1,1-Dichloroethene
Concen: 18.802 ug/l
RT: 2.313 min Scan# 201
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion: 96 Resp: 26361

Ion	Ratio	Lower	Upper
96	100		
61	155.2	124.2	186.2
98	63.9	51.1	76.7

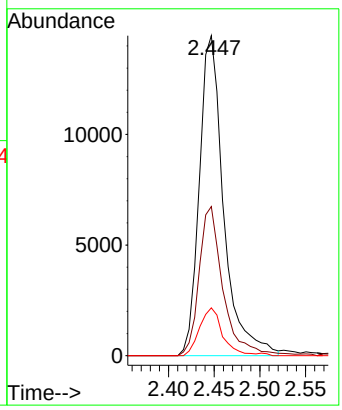




#11
Methyl Iodide
Concen: 16.880 ug/l
RT: 2.447 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion:142 Resp: 2678

Ion	Ratio	Lower	Upper
142	100		
127	46.6	23.3	69.9
141	15.1	7.5	22.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC020

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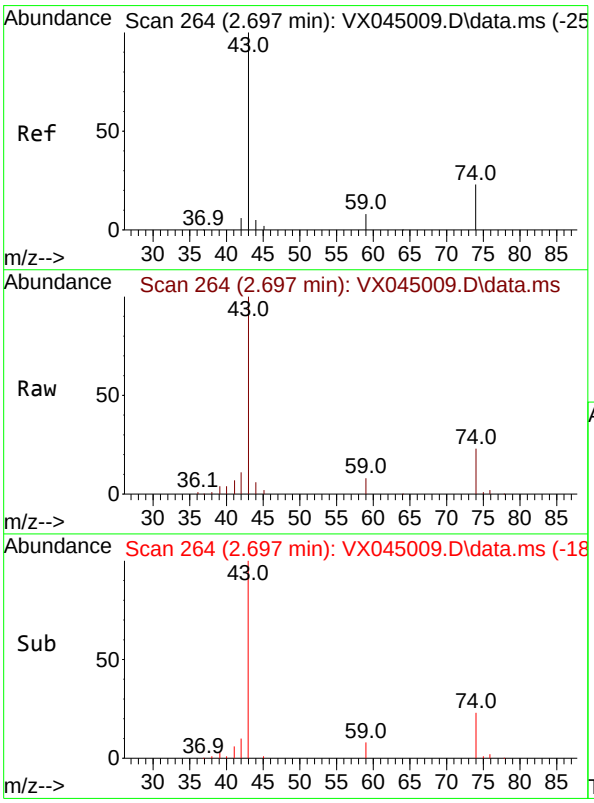
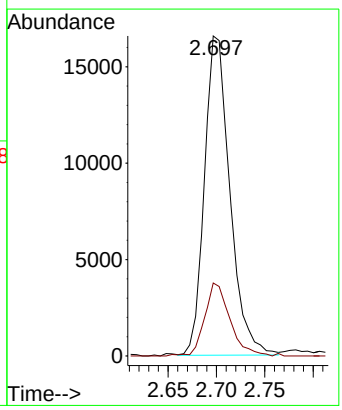
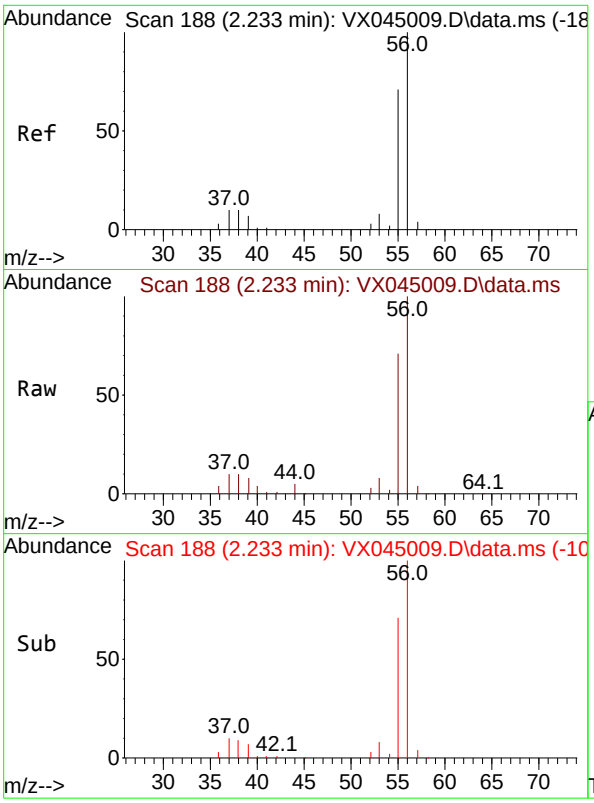


#12
Methyl Acetate
Concen: 18.673 ug/l
RT: 2.697 min Scan# 264
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion: 43 Resp: 30401

Ion	Ratio	Lower	Upper
43	100		
74	22.4	17.9	26.9

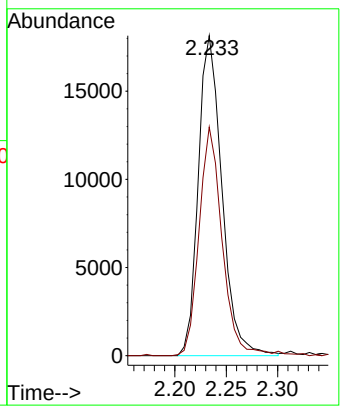




#13
Acrolein
Concen: 89.216 ug/l
RT: 2.233 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion: 56 Resp: 2911

Ion	Ratio	Lower	Upper
56	100		
55	69.3	55.4	83.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC020

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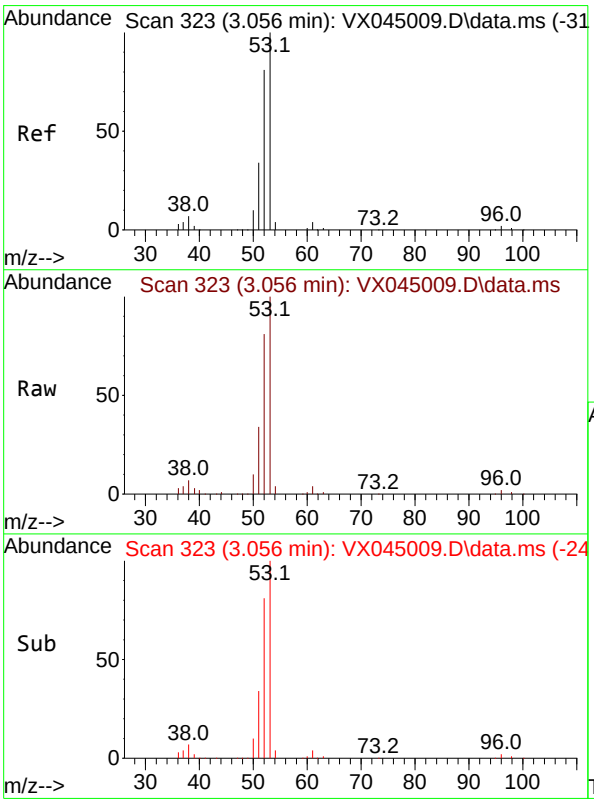
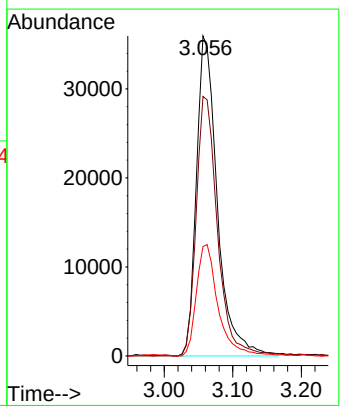
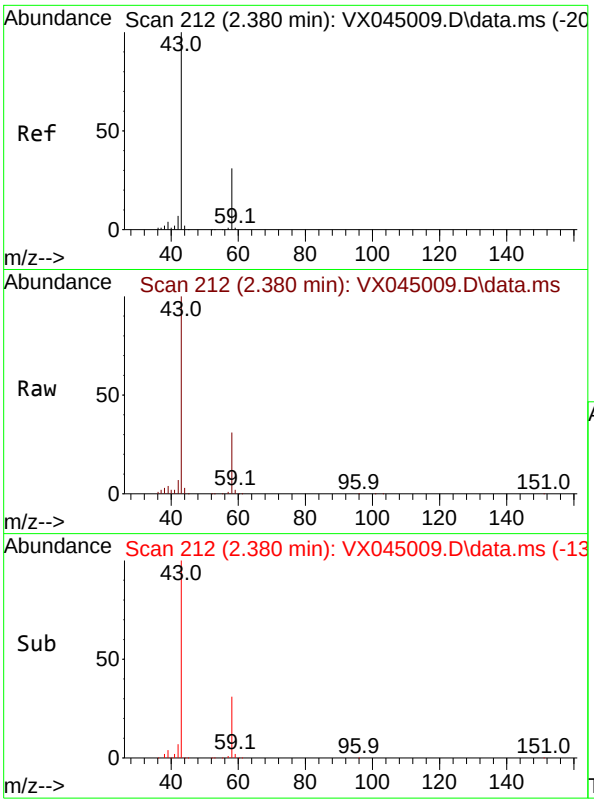


#14
Acrylonitrile
Concen: 96.198 ug/l
RT: 3.056 min Scan# 323
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion: 53 Resp: 76500

Ion	Ratio	Lower	Upper
53	100		
52	81.9	40.9	122.8
51	36.0	18.0	54.0





#15
Acetone
Concen: 99.253 ug/l
RT: 2.380 min Scan# 21
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion: 58 Resp: 2164

Ion	Ratio	Lower	Upper
58	100		
43	323.3	258.6	388.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC020

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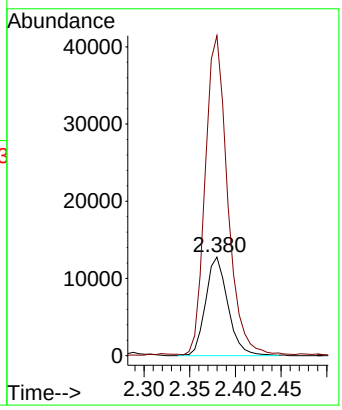
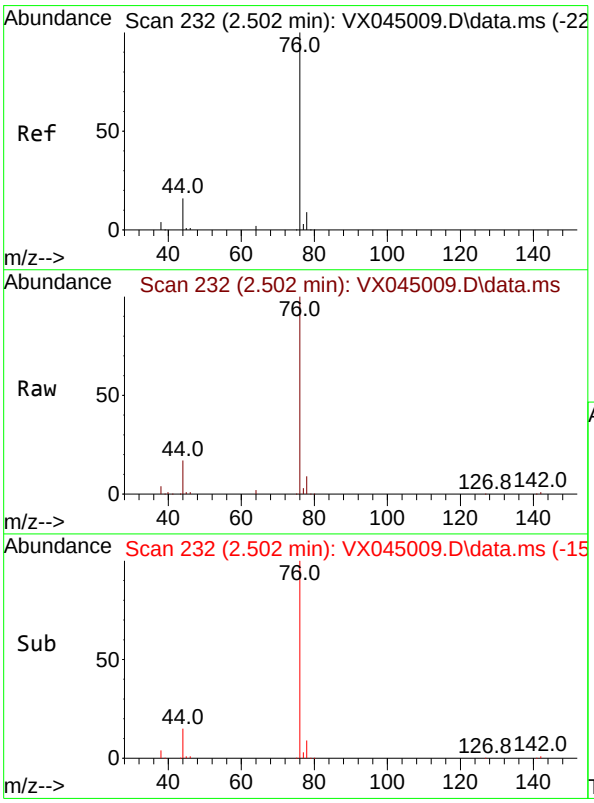
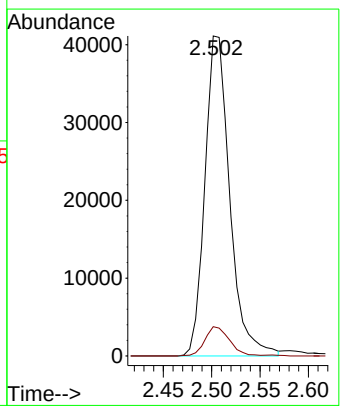


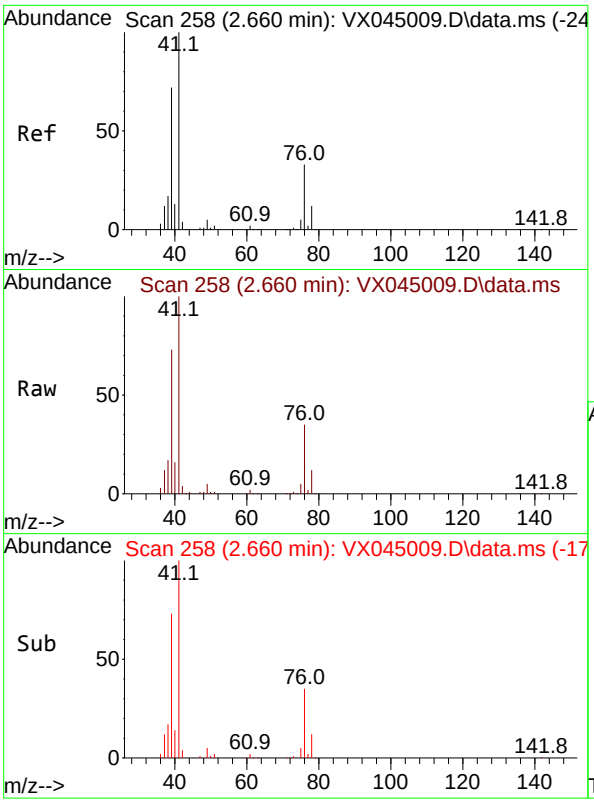


#16
Carbon Disulfide
Concen: 18.532 ug/l
RT: 2.502 min Scan# 232
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion: 76 Resp: 73699

Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.3	10.9

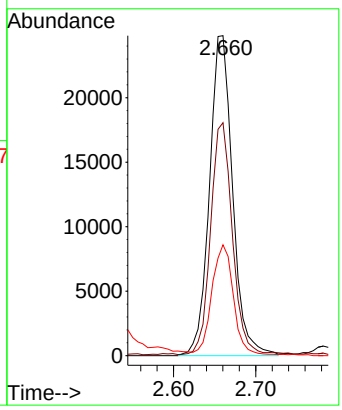




#17
Allyl chloride
Concen: 18.535 ug/l
RT: 2.660 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion: 41 Resp: 4860

Ion	Ratio	Lower	Upper
41	100		
39	72.4	36.2	108.6
76	34.3	17.2	51.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC020

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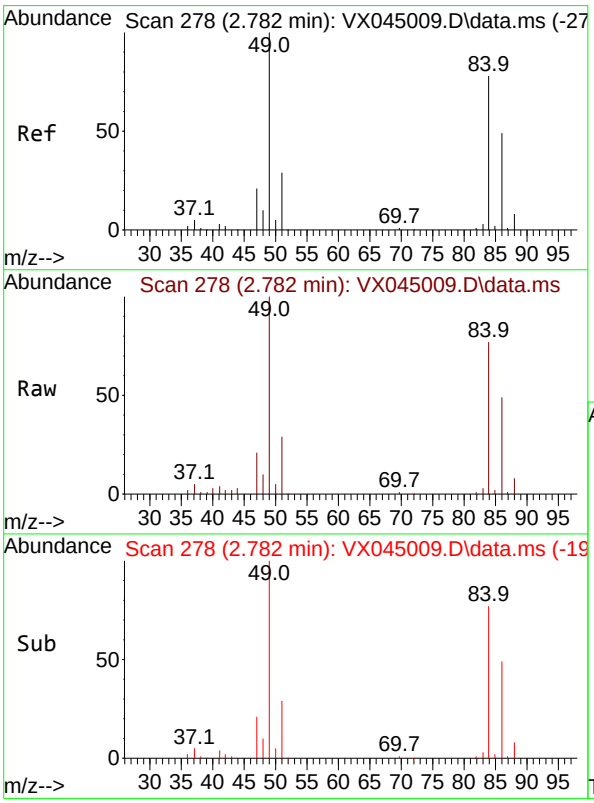
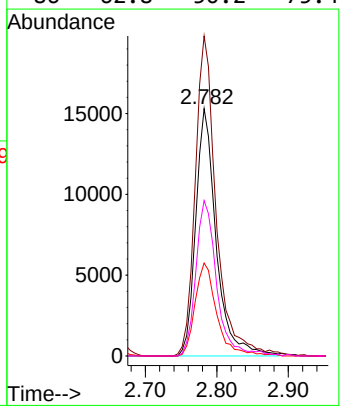
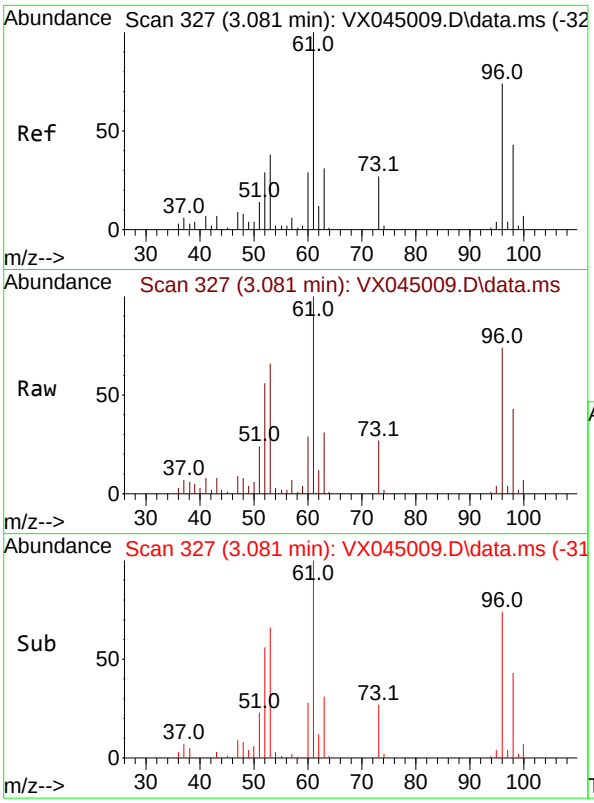


#18
Methylene Chloride
Concen: 19.365 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion: 84 Resp: 30537

Ion	Ratio	Lower	Upper
84	100		
49	128.5	102.8	154.2
51	37.6	30.1	45.1
86	62.8	50.2	75.4

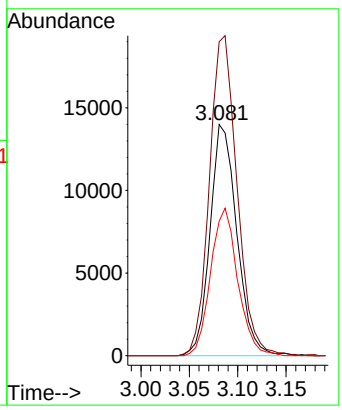




#19
trans-1,2-Dichloroethene
Concen: 19.003 ug/l
RT: 3.081 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion: 96 Resp: 2695

Ion	Ratio	Lower	Upper
96	100		
61	135.8	108.6	163.0
98	58.1	46.5	69.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC020

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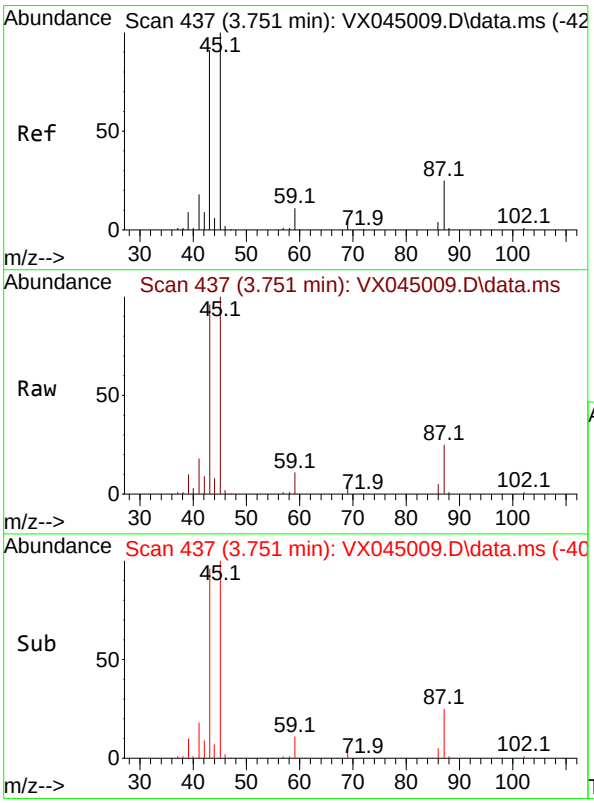
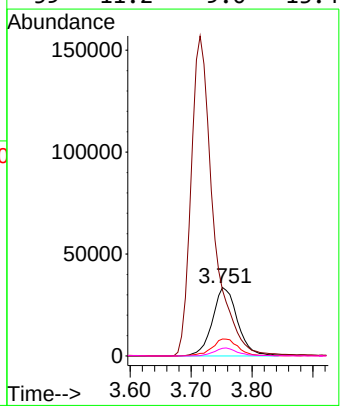
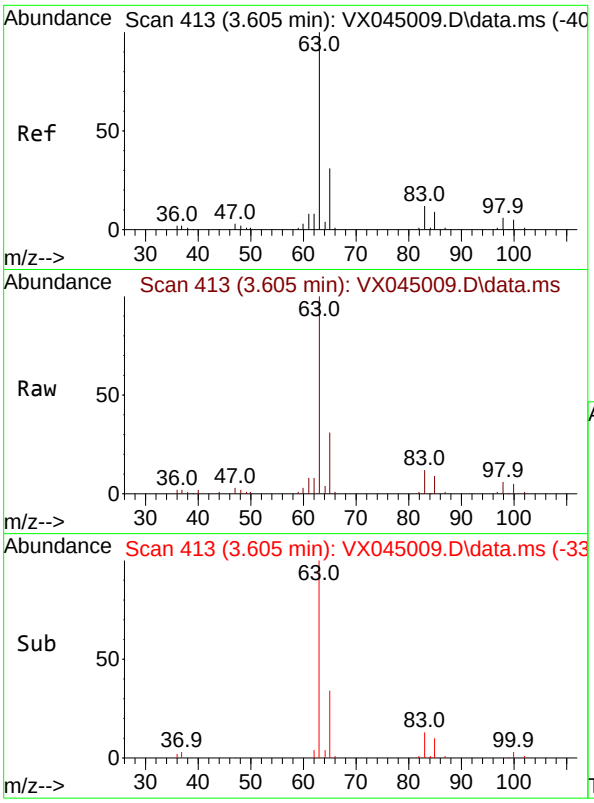


#20
Diisopropyl ether
Concen: 19.005 ug/l
RT: 3.751 min Scan# 437
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion: 45 Resp: 95769

Ion	Ratio	Lower	Upper
45	100		
43	93.0	74.4	111.6
87	24.8	19.8	29.8
59	11.2	9.0	13.4

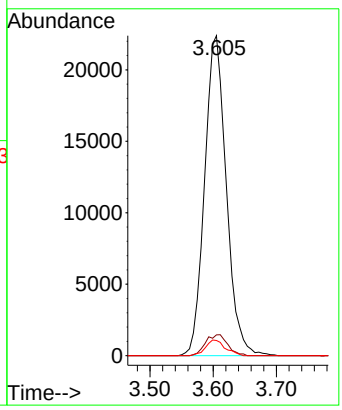




#21
1,1-Dichloroethane
Concen: 19.066 ug/l
RT: 3.605 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion: 63 Resp: 5343

Ion	Ratio	Lower	Upper
63	100		
98	6.5	3.3	9.8
100	4.7	2.4	7.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC020

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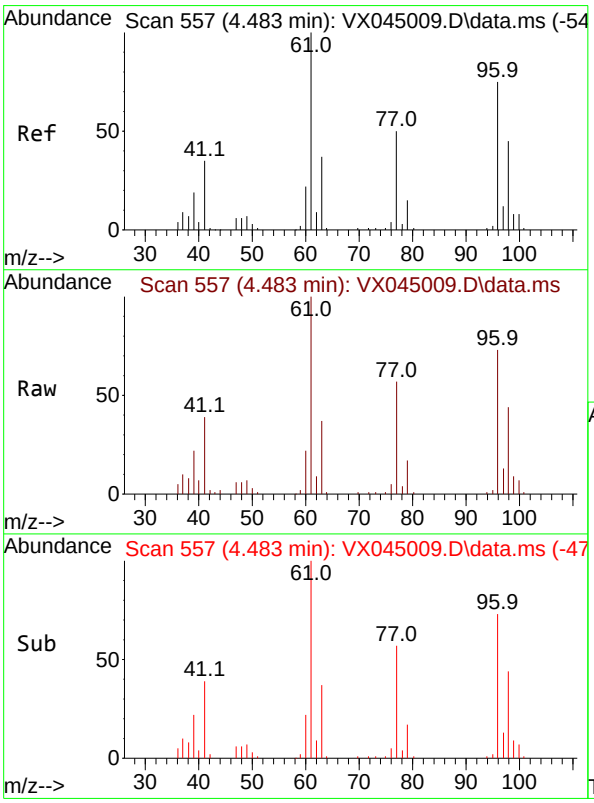
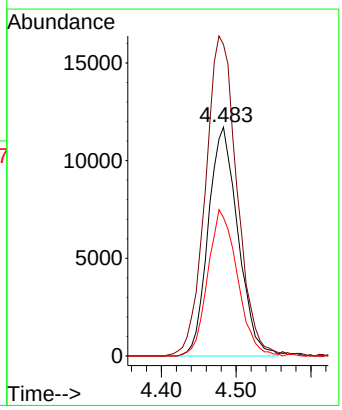
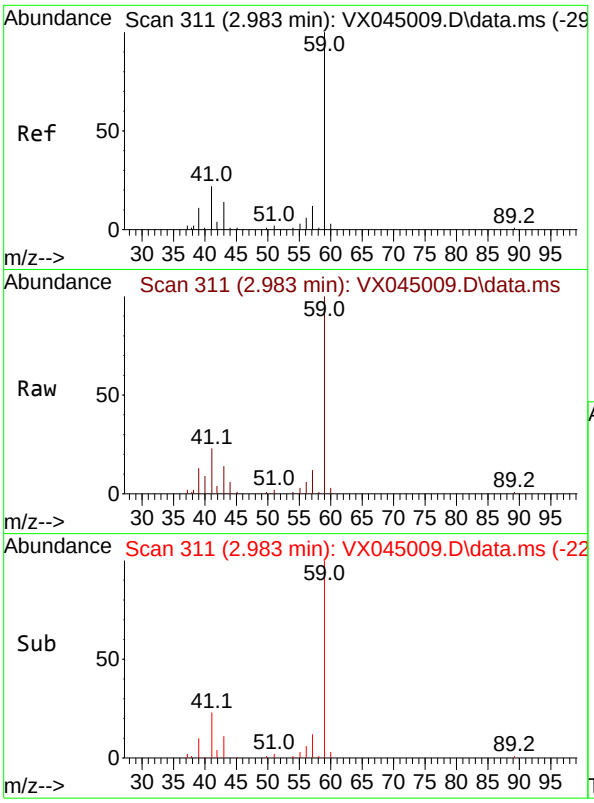


#22
cis-1,2-Dichloroethene
Concen: 19.054 ug/l
RT: 4.483 min Scan# 557
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion: 96 Resp: 32387

Ion	Ratio	Lower	Upper
96	100		
61	148.6	118.9	178.3
98	63.4	50.7	76.1





#23
tert-Butyl Alcohol
Concen: 94.028 ug/l
RT: 2.983 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion: 59 Resp: 2613

Ion	Ratio	Lower	Upper
59	100		
52	0.0	0.0	0.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC020

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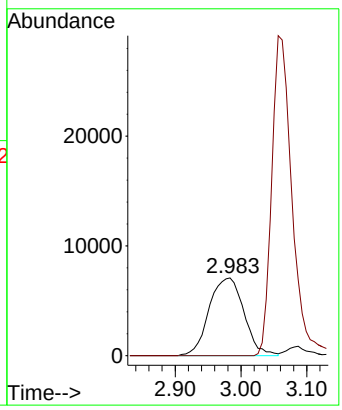
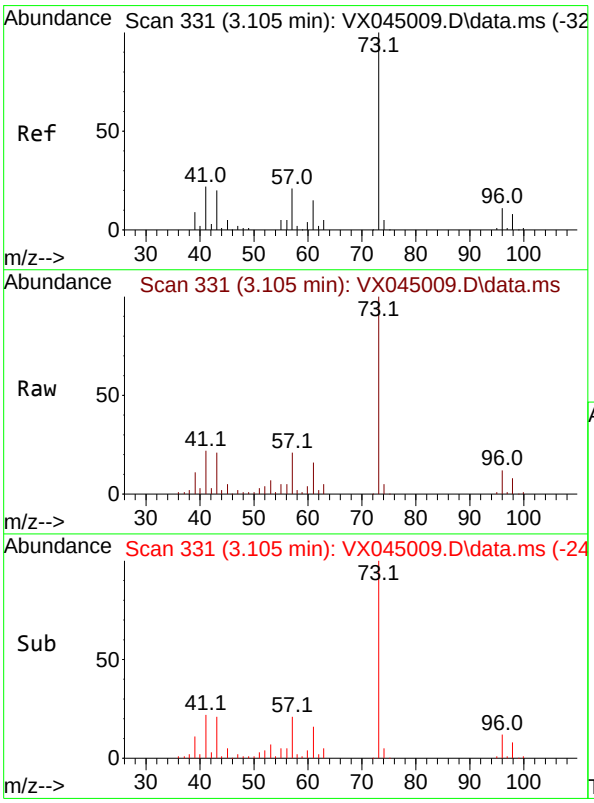
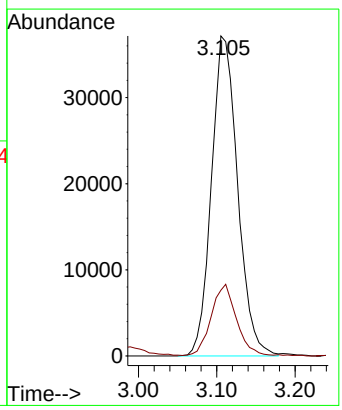


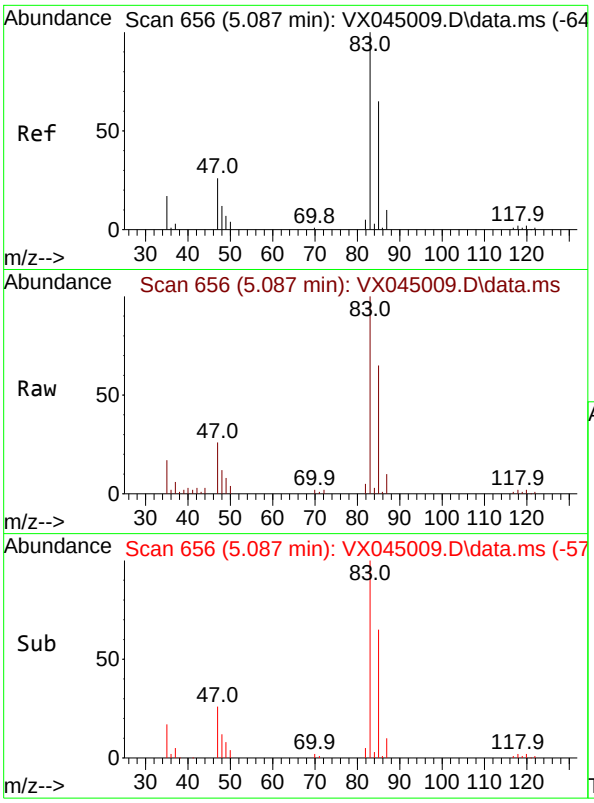


#24
Methyl tert-Butyl Ether
Concen: 18.878 ug/l
RT: 3.105 min Scan# 331
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion: 73 Resp: 86386

Ion	Ratio	Lower	Upper
73	100		
43	21.7	17.4	26.0

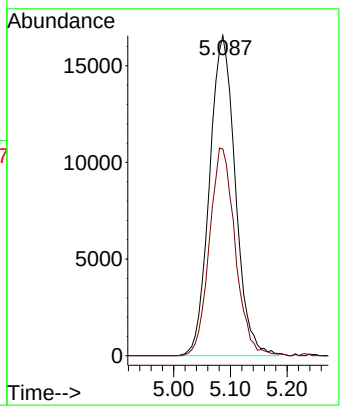




#25
Chloroform
Concen: 19.354 ug/l
RT: 5.087 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion: 83 Resp: 5238

Ion	Ratio	Lower	Upper
83	100		
85	64.6	51.7	77.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC020

Manual Integrations
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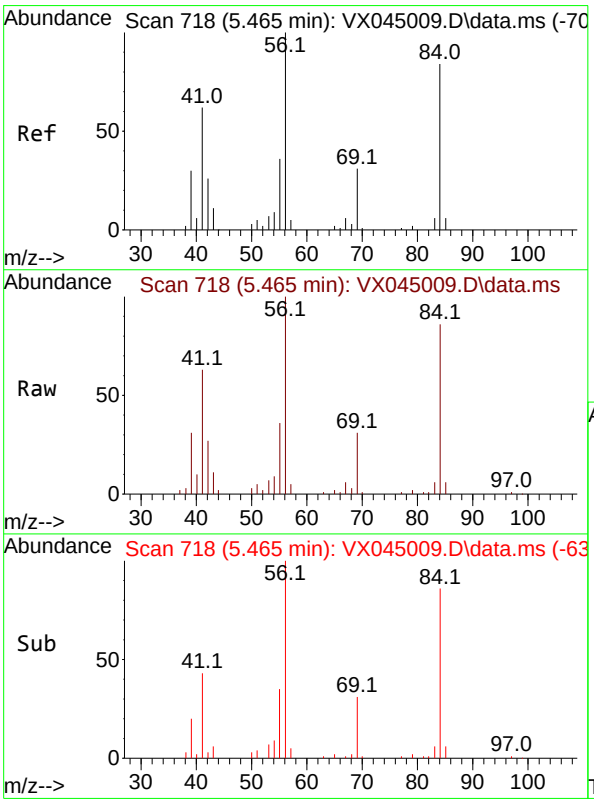
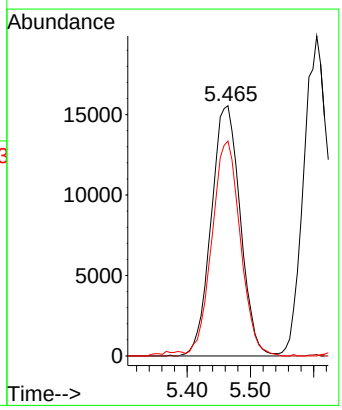
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

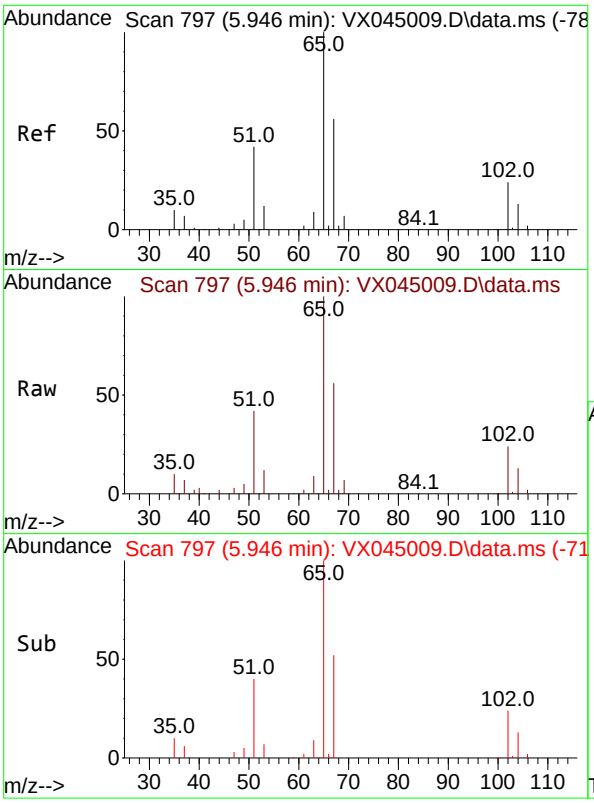


#26
Cyclohexane
Concen: 19.201 ug/l
RT: 5.465 min Scan# 718
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion: 56 Resp: 49670

Ion	Ratio	Lower	Upper
56	100		
89	0.0	0.0	0.0
84	83.9	67.1	100.7

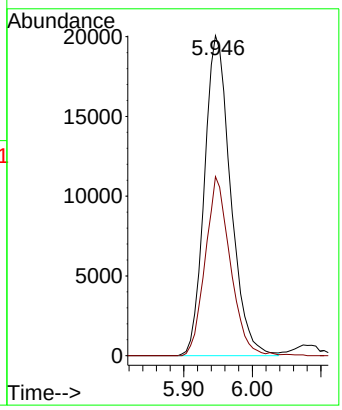




#27
1,2-Dichloroethane-d4
Concen: 29.663 ug/l
RT: 5.946 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion: 65 Resp: 5317

Ion	Ratio	Lower	Upper
65	100		
67	53.3	42.6	64.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC020

Manual Integrations
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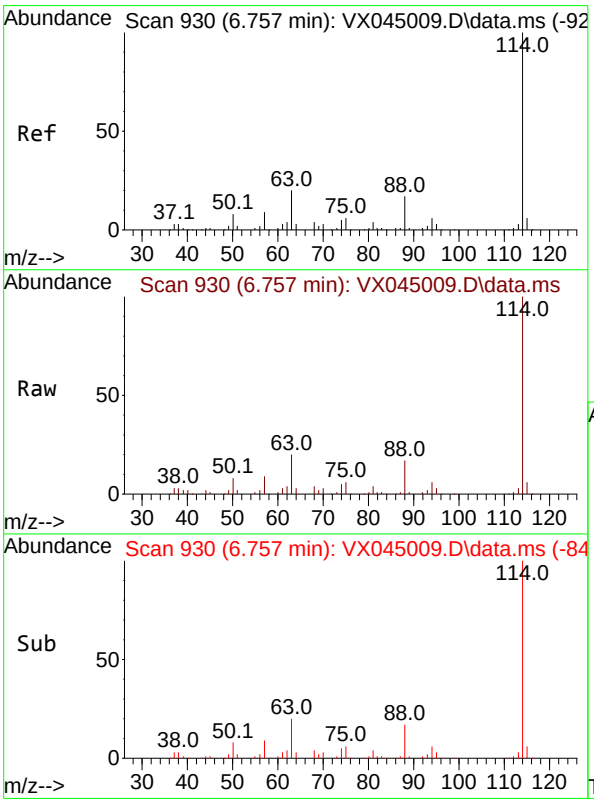
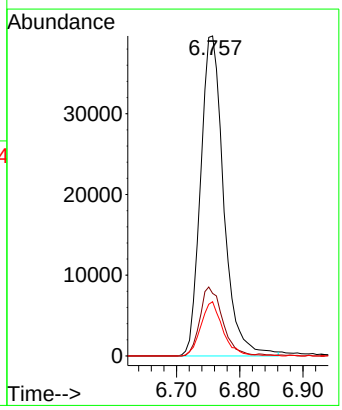
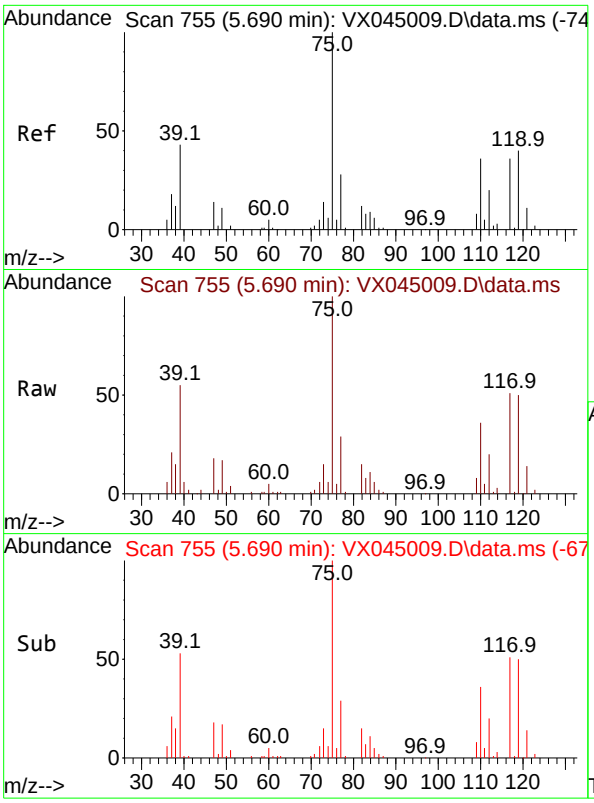


#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion:114 Resp: 100876

Ion	Ratio	Lower	Upper
114	100		
63	21.0	16.8	25.2
88	15.9	12.7	19.1

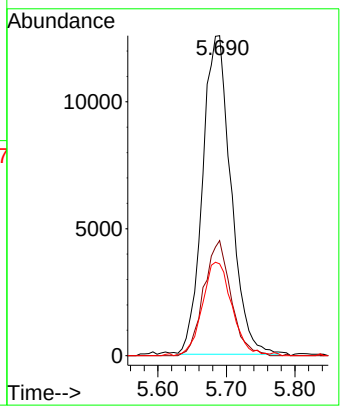




#29
1,1-Dichloropropene
Concen: 19.456 ug/l
RT: 5.690 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion: 75 Resp: 3610

Ion	Ratio	Lower	Upper
75	100		
110	34.6	0.0	69.2
77	30.5	0.0	61.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC020

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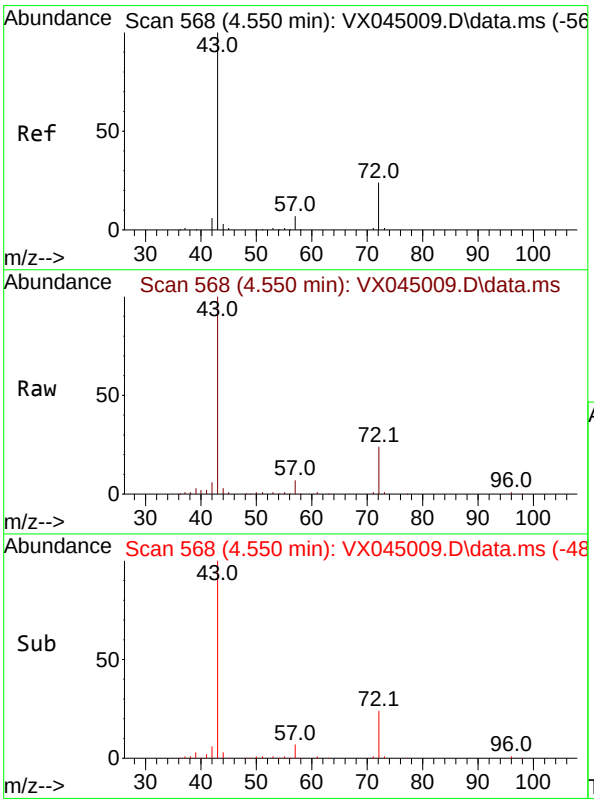
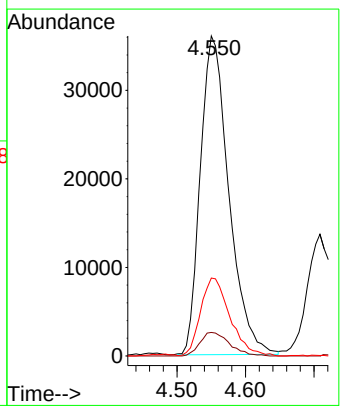
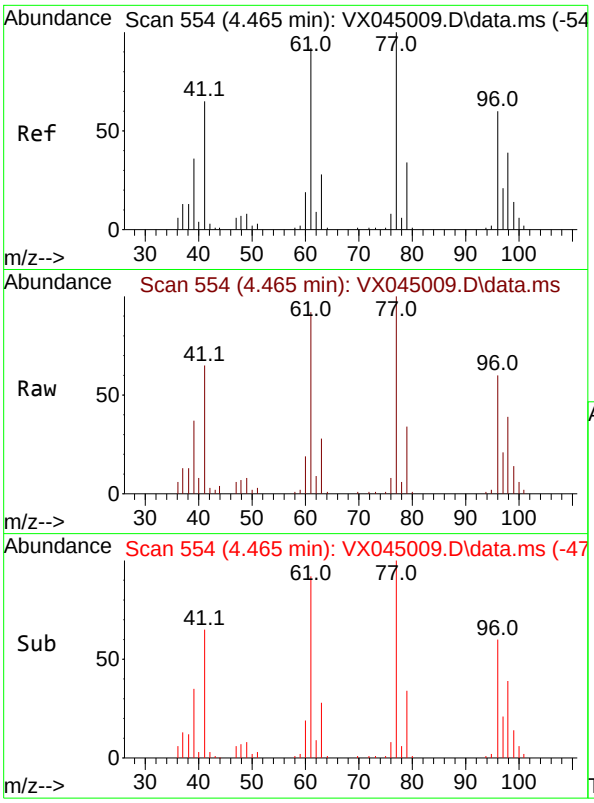


#30
2-Butanone
Concen: 97.278 ug/l
RT: 4.550 min Scan# 568
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion: 43 Resp: 104263

Ion	Ratio	Lower	Upper
43	100		
57	7.7	6.2	9.2
72	25.2	20.2	30.2

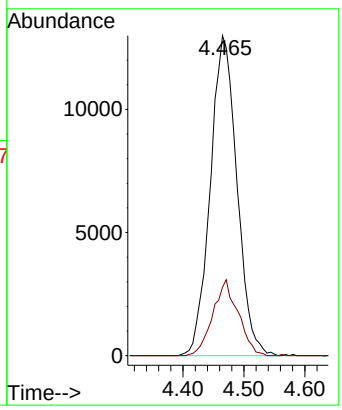




#31
2,2-Dichloropropane
Concen: 18.830 ug/l
RT: 4.465 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion: 77 Resp: 3951

Ion	Ratio	Lower	Upper
77	100		
97	22.5	18.0	27.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC020

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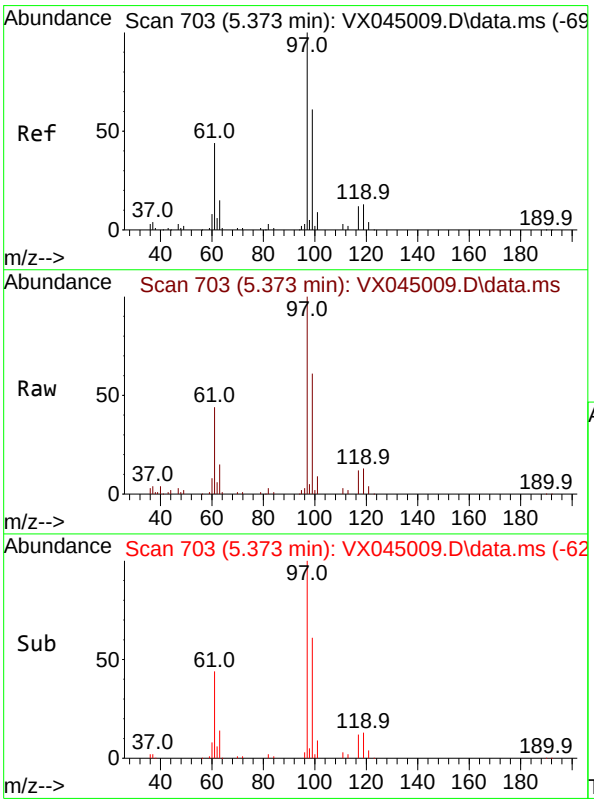
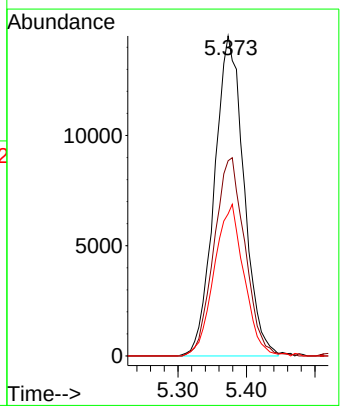
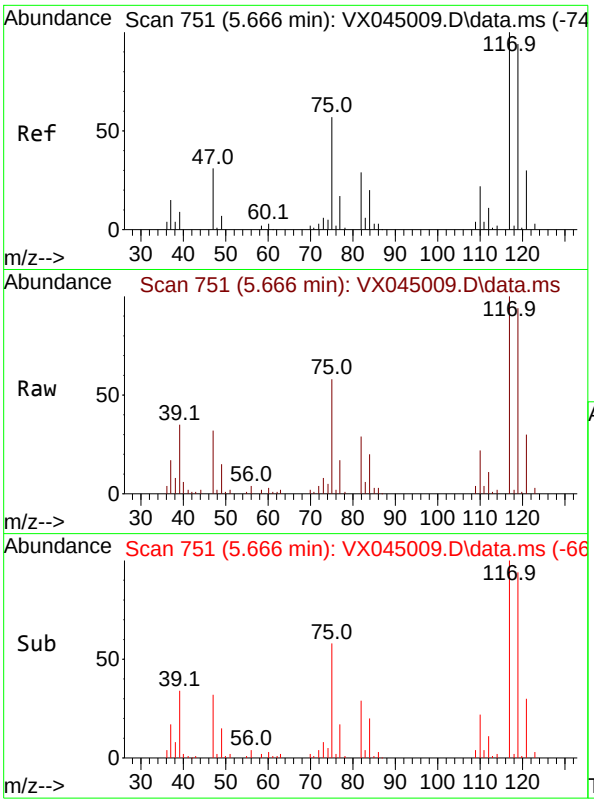


#32
1,1,1-Trichloroethane
Concen: 19.266 ug/l
RT: 5.373 min Scan# 703
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion: 97 Resp: 43317

Ion	Ratio	Lower	Upper
97	100		
99	65.2	52.2	78.2
61	48.1	38.5	57.7

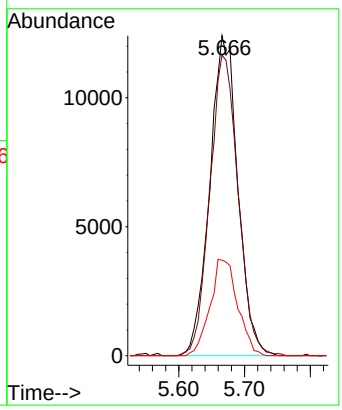




#33
Carbon Tetrachloride
Concen: 19.421 ug/l
RT: 5.666 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion:117 Resp: 3685

Ion	Ratio	Lower	Upper
117	100		
119	93.9	75.1	112.7
121	29.9	23.9	35.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC020

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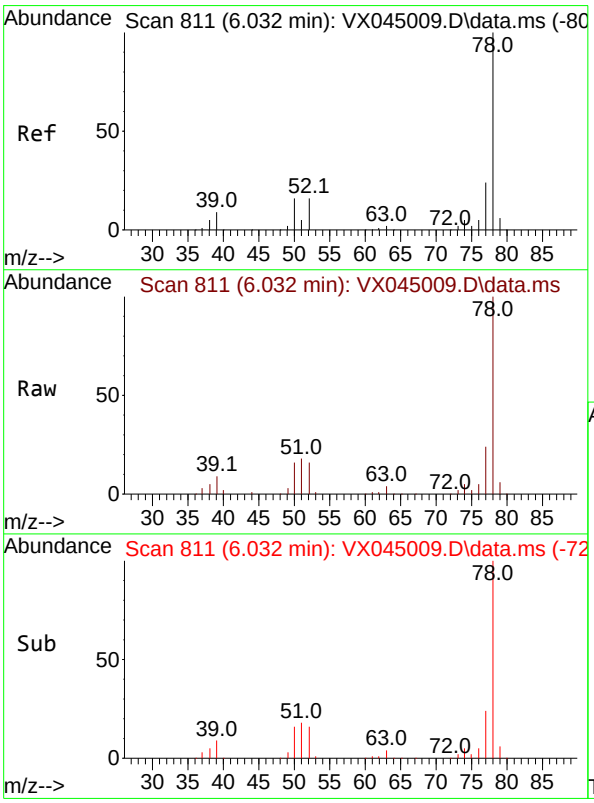
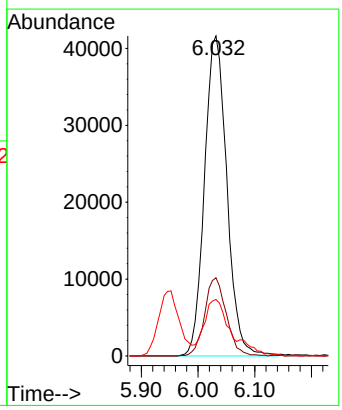
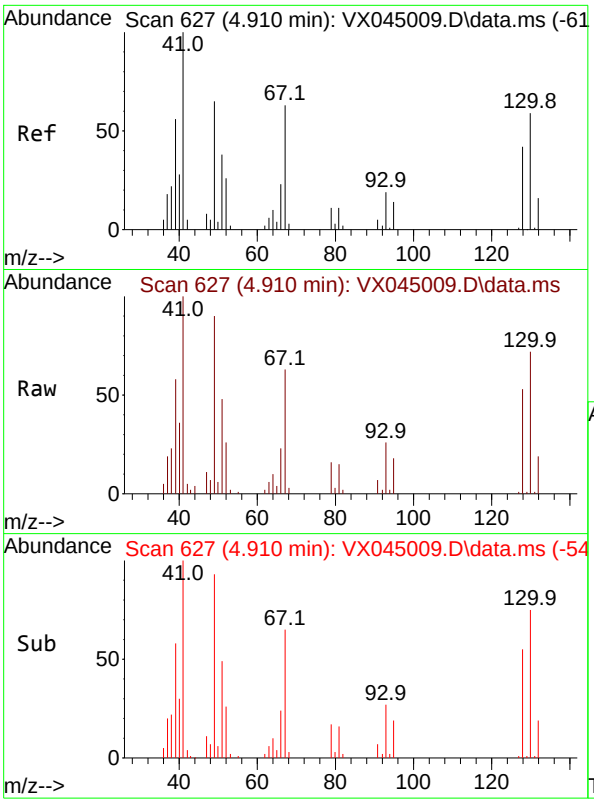


#34
Benzene
Concen: 19.609 ug/l
RT: 6.032 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion: 78 Resp: 114107

Ion	Ratio	Lower	Upper
78	100		
77	24.5	19.6	29.4
51	17.2	13.8	20.6

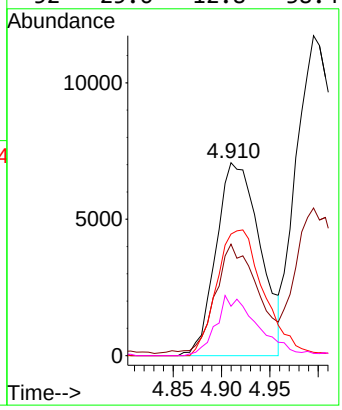




#35
Methacrylonitrile
Concen: 19.509 ug/l
RT: 4.910 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion: 41 Resp: 2237

Ion	Ratio	Lower	Upper
41	100		
39	55.6	27.8	83.4
67	63.0	31.5	94.5
52	25.6	12.8	38.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC020

Manual Integrations
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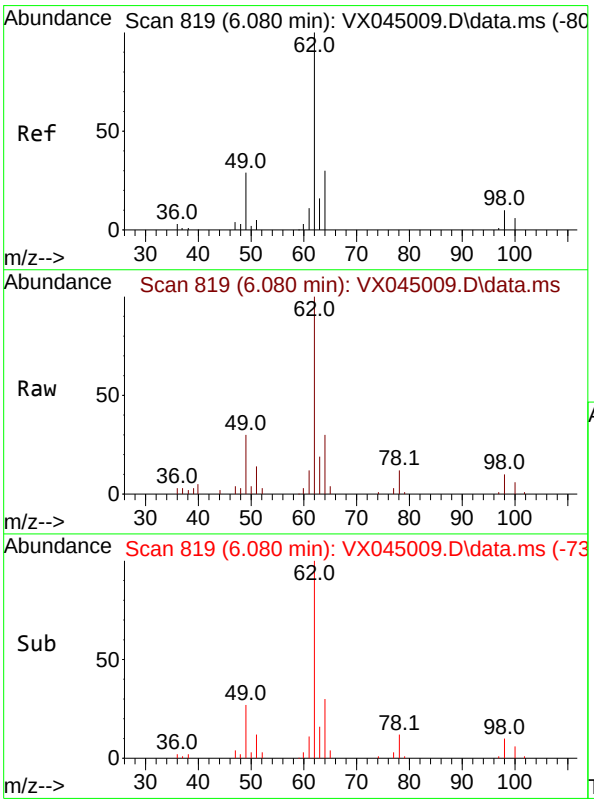
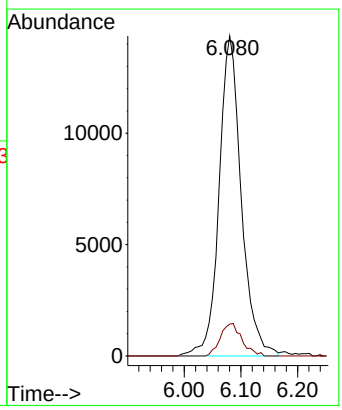
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

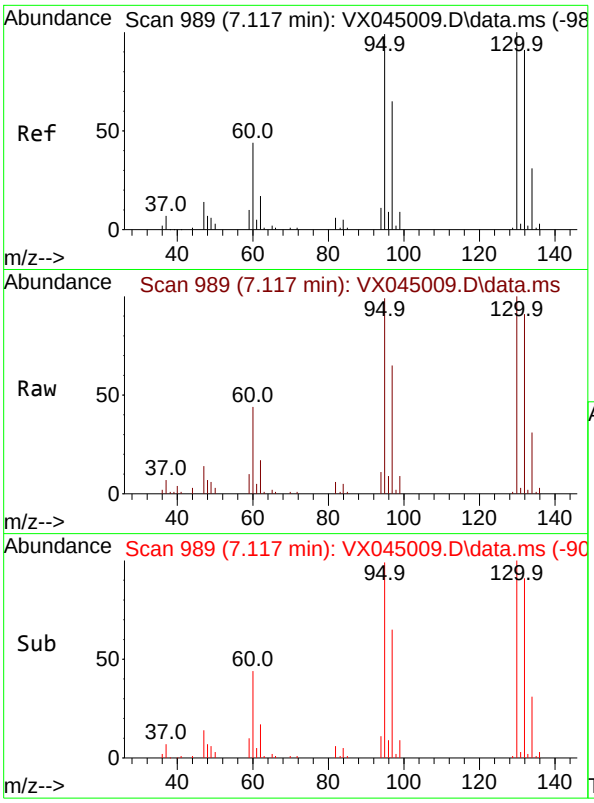


#36
1,2-Dichloroethane
Concen: 19.604 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion: 62 Resp: 39058

Ion	Ratio	Lower	Upper
62	100		
98	9.9	7.9	11.9

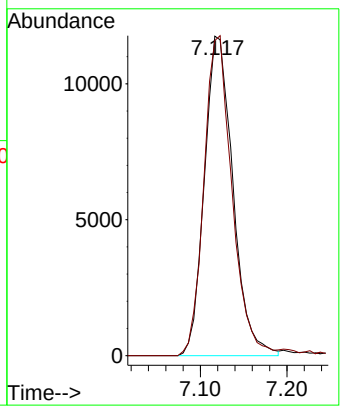




#37
Trichloroethene
Concen: 19.753 ug/l
RT: 7.117 min Scan# 9
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion:130 Resp: 2689

Ion	Ratio	Lower	Upper
130	100		
95	98.7	79.0	118.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC020

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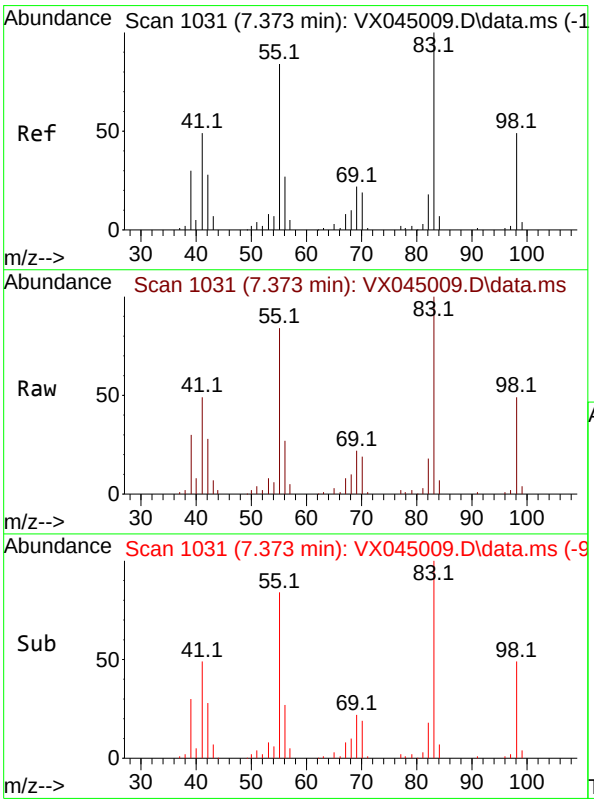
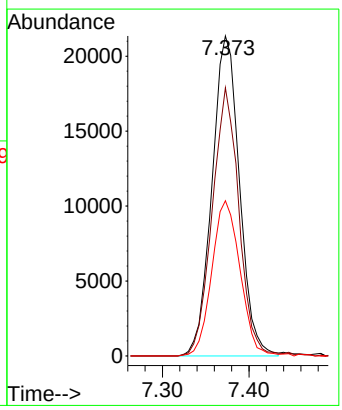
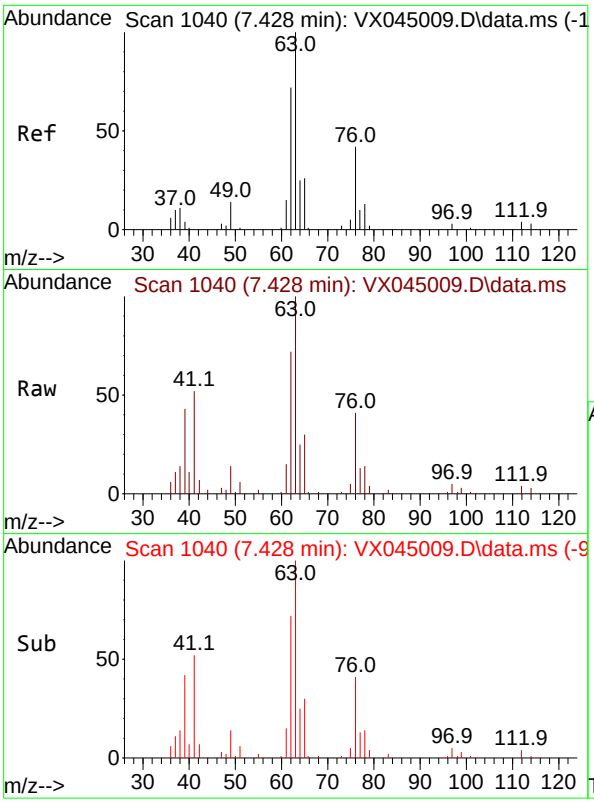


#38
Methylcyclohexane
Concen: 18.899 ug/l
RT: 7.373 min Scan# 1031
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion: 83 Resp: 47088

Ion	Ratio	Lower	Upper
83	100		
55	81.3	40.6	122.0
98	49.7	24.9	74.6

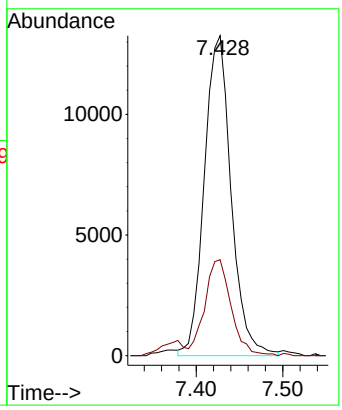




#39
1,2-Dichloropropane
Concen: 19.738 ug/l
RT: 7.428 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion: 63 Resp: 2855

Ion	Ratio	Lower	Upper
63	100		
65	30.4	24.3	36.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC020

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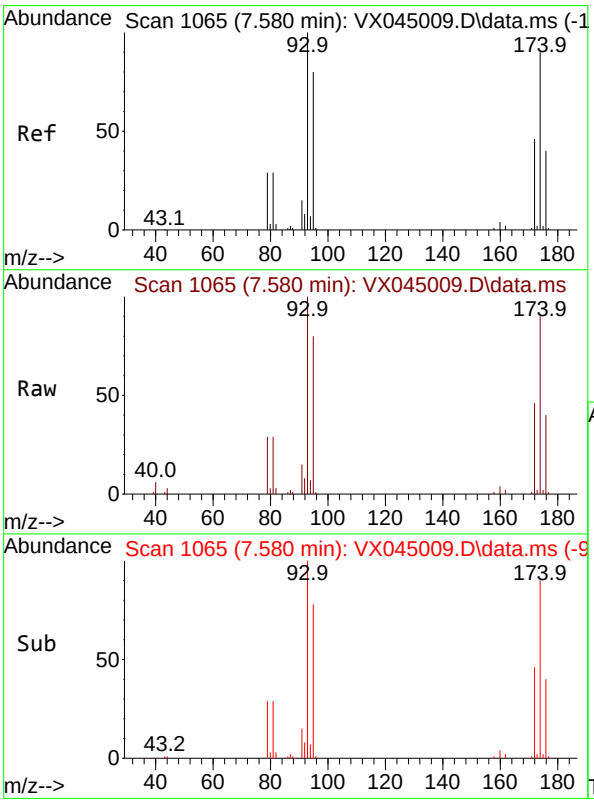
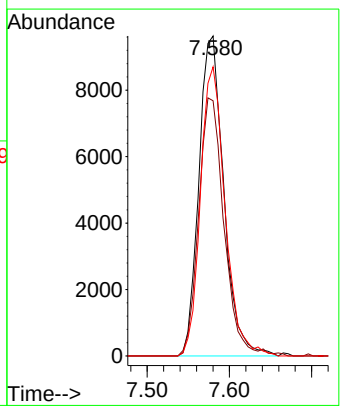
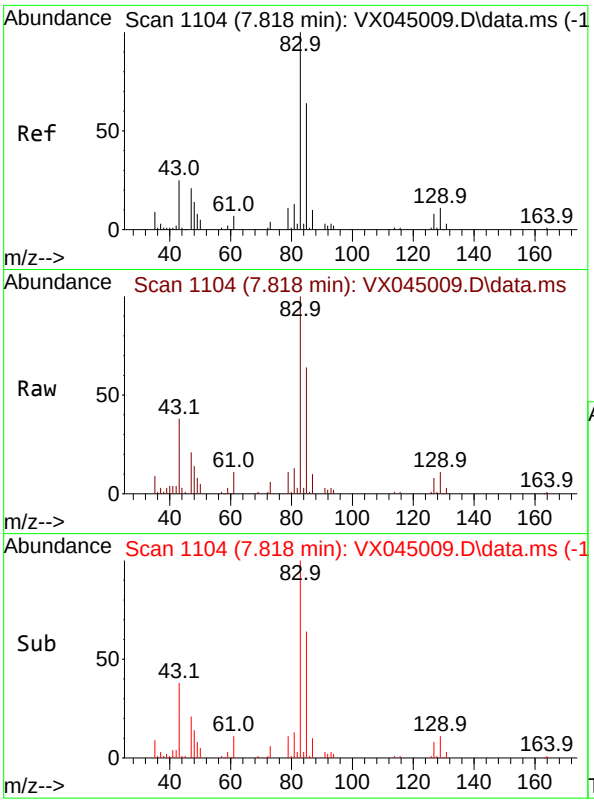


#40
Dibromomethane
Concen: 19.509 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion: 93 Resp: 20254

Ion	Ratio	Lower	Upper
93	100		
95	81.3	0.0	162.6
174	89.4	0.0	178.8

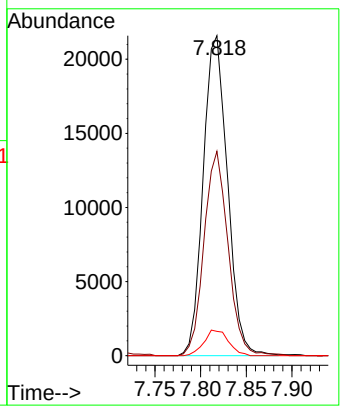




#41
Bromodichloromethane
Concen: 19.335 ug/l
RT: 7.818 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion: 83 Resp: 3989

Ion	Ratio	Lower	Upper
83	100		
85	63.8	51.0	76.6
127	7.6	6.1	9.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC020

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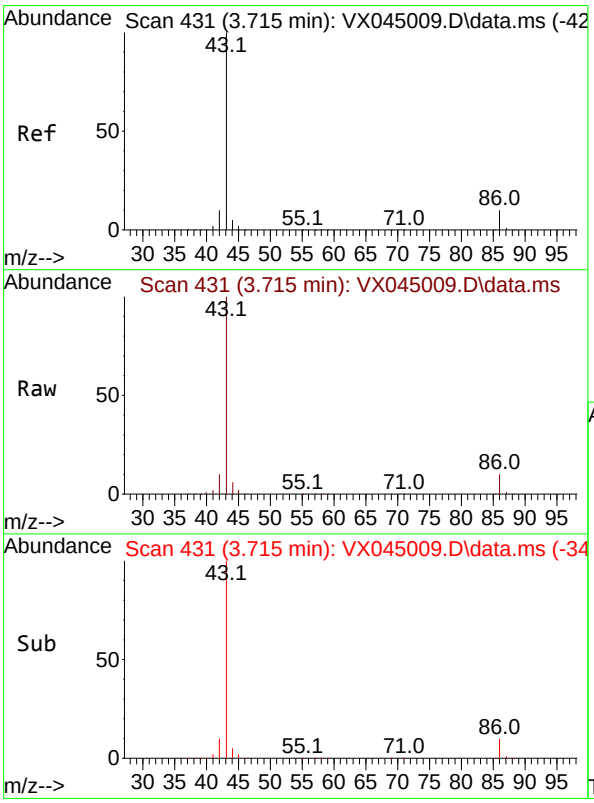
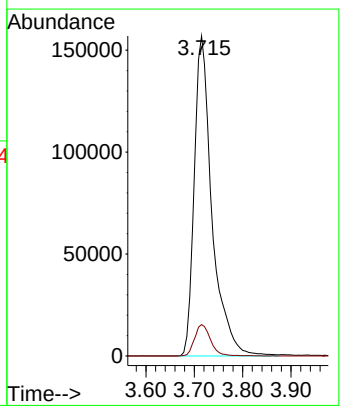
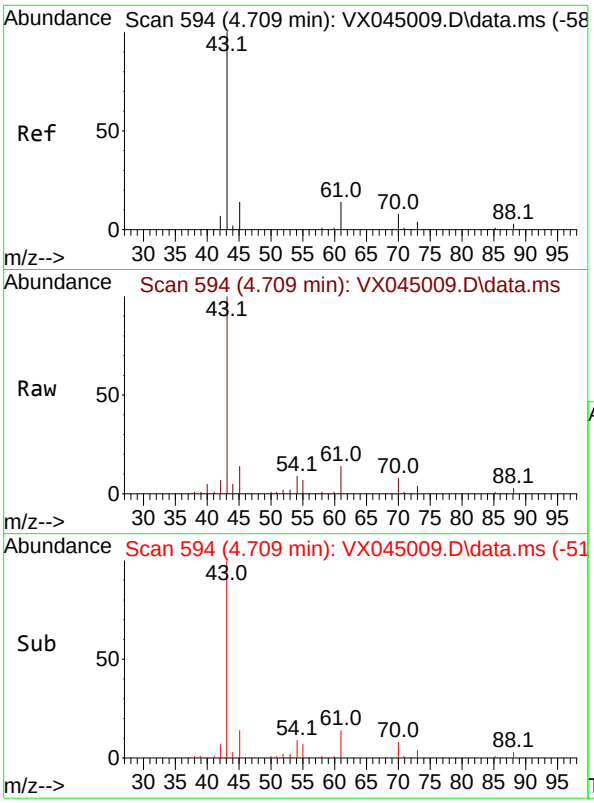


#42
Vinyl Acetate
Concen: 96.216 ug/l
RT: 3.715 min Scan# 431
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion: 43 Resp: 400180

Ion	Ratio	Lower	Upper
43	100		
86	8.7	7.0	10.4





#43
Ethyl Acetate
Concen: 19.350 ug/l
RT: 4.709 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion: 43 Resp: 3889

Ion	Ratio	Lower	Upper
43	100		
45	15.9	12.7	19.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC020

Manual Integrations
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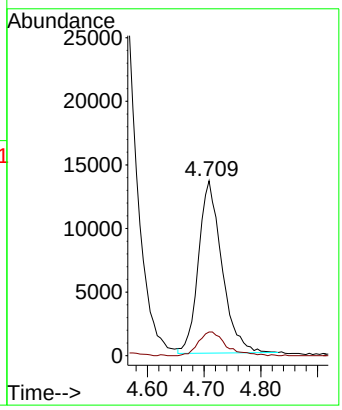
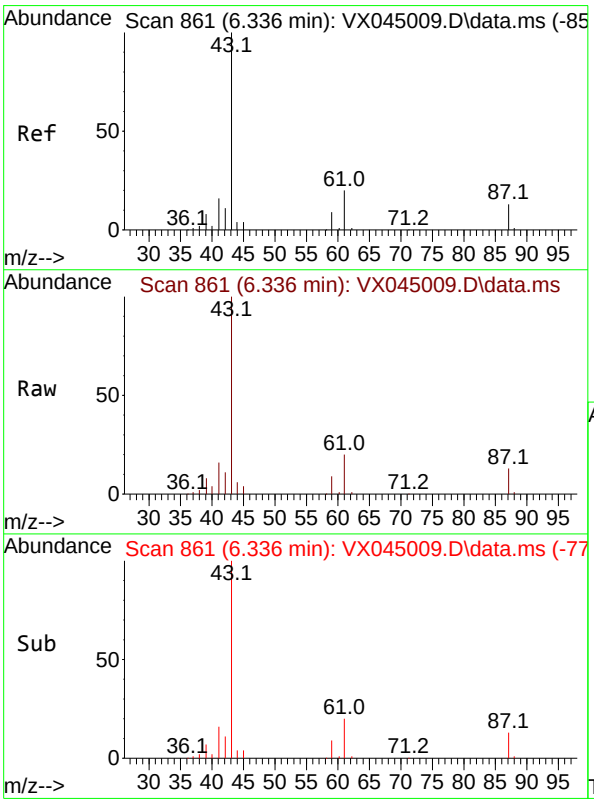
Supervised By :Mahesh Dadoda 02/24/2025

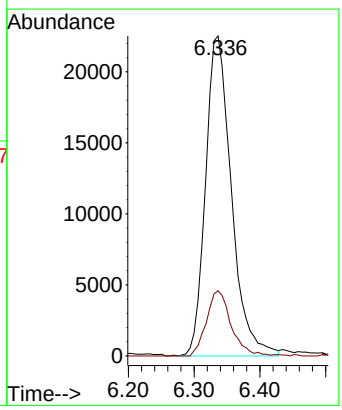


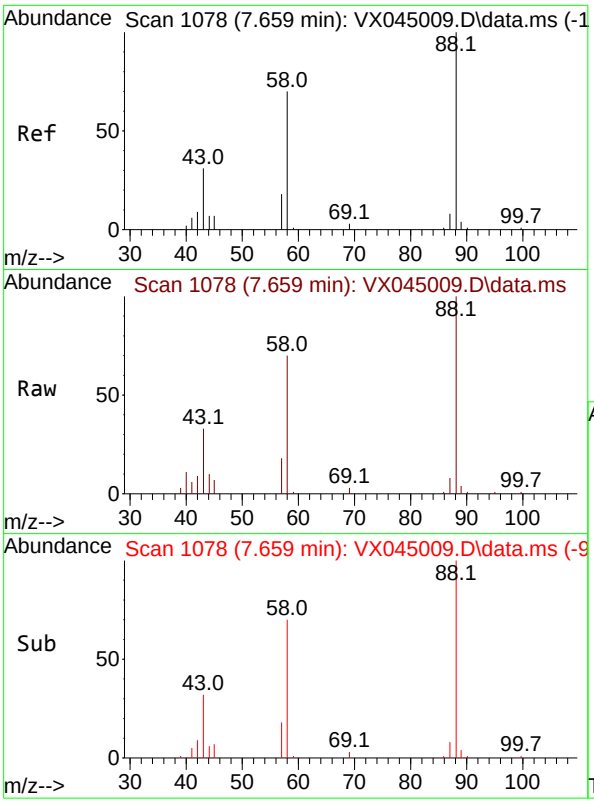


#44
Isopropyl Acetate
Concen: 18.649 ug/l
RT: 6.336 min Scan# 861
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion: 43 Resp: 61693

Ion	Ratio	Lower	Upper
43	100		
61	19.4	15.5	23.3





#45
1,4-Dioxane
Concen: 407.910 ug/l
RT: 7.659 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion: 88 Resp: 1402

Ion	Ratio	Lower	Upper
88	100		
43	37.0	29.6	44.4
58	70.3	56.2	84.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC020

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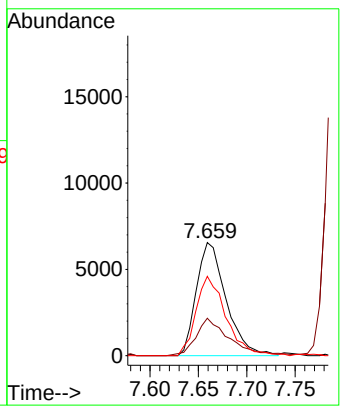
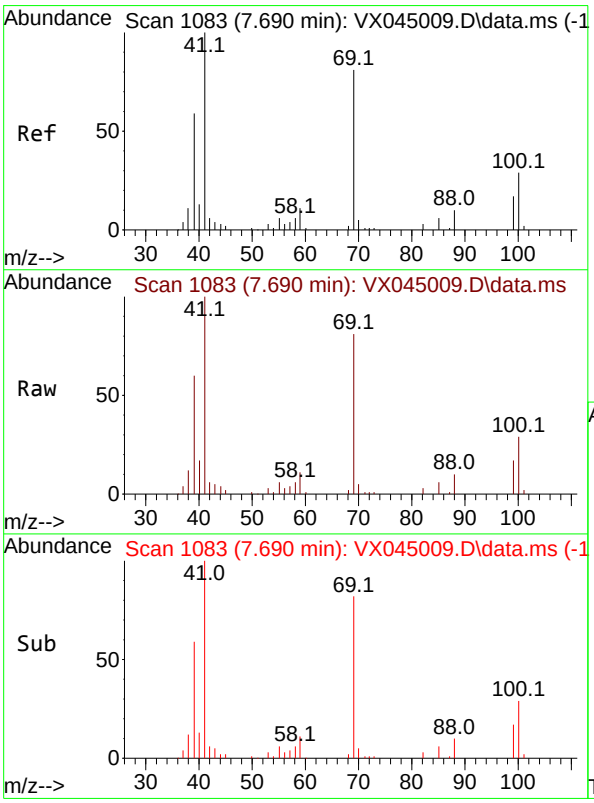
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

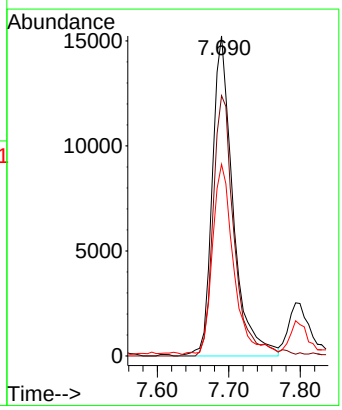


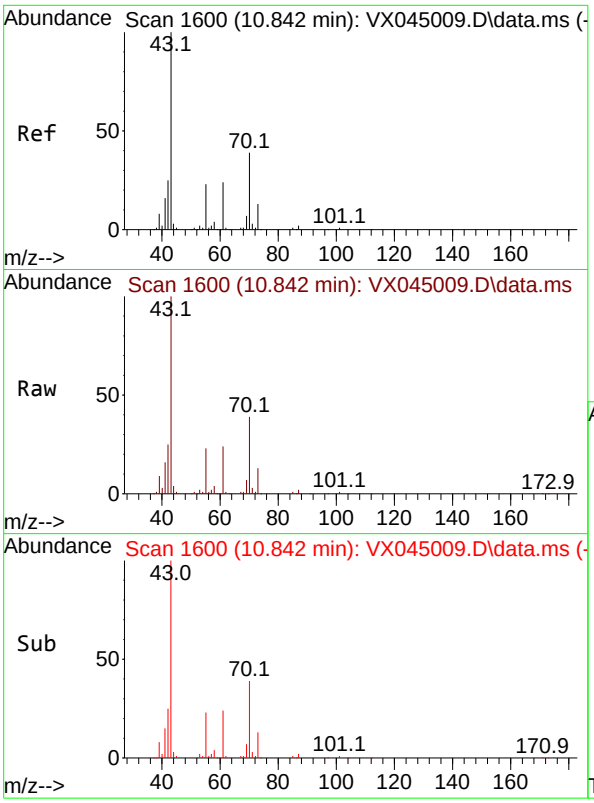


#46
Methyl methacrylate
Concen: 18.904 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion: 41 Resp: 30666

Ion	Ratio	Lower	Upper
41	100		
69	81.4	40.7	122.1
39	59.0	29.5	88.5

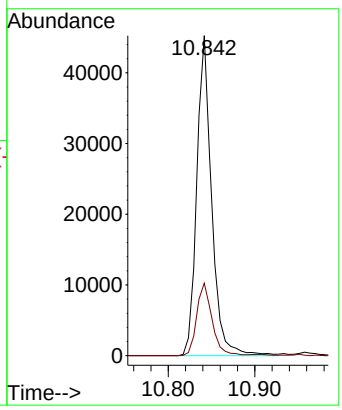




#47
n-amyl Acetate
Concen: 18.814 ug/l
RT: 10.842 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion: 43 Resp: 5400

Ion	Ratio	Lower	Upper
43	100		
55	23.2	18.6	27.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC020

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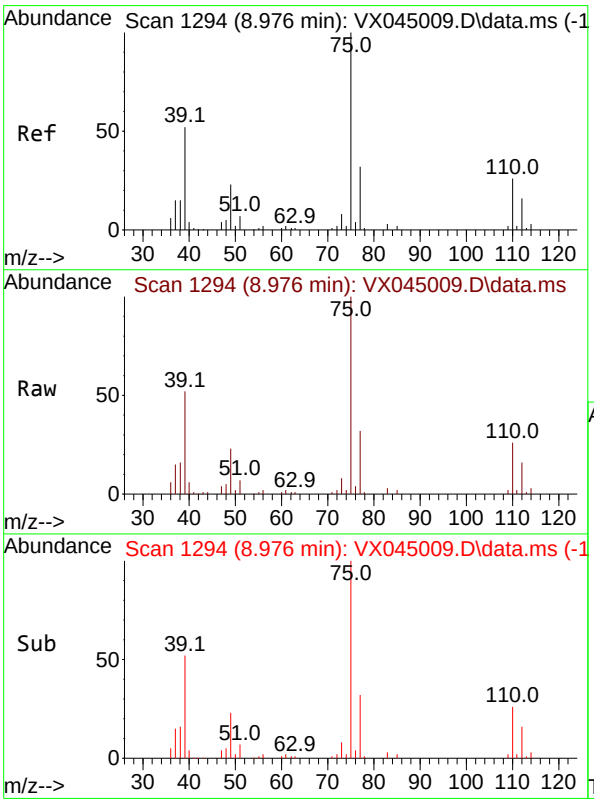
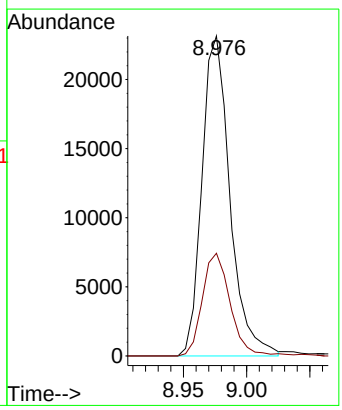
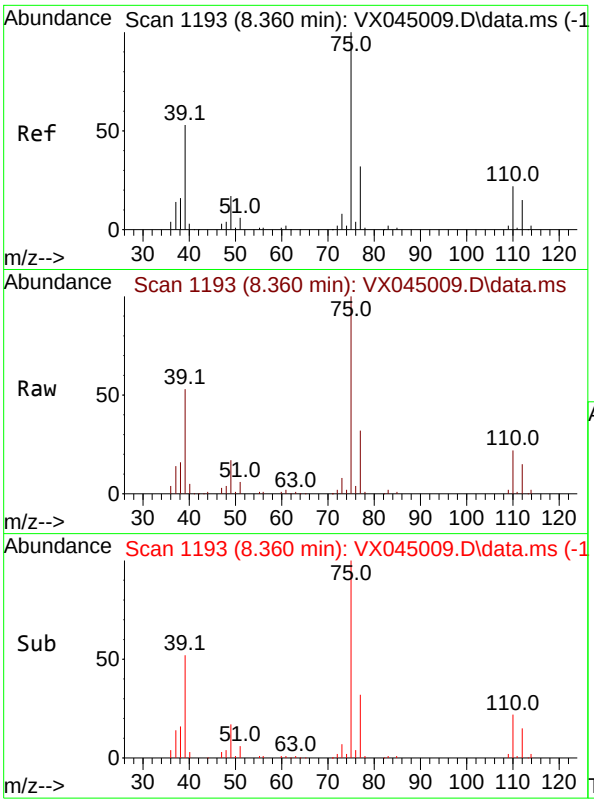


#48
t-1,3-Dichloropropene
Concen: 17.922 ug/l
RT: 8.976 min Scan# 1294
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion: 75 Resp: 35645

Ion	Ratio	Lower	Upper
75	100		
77	32.1	25.7	38.5

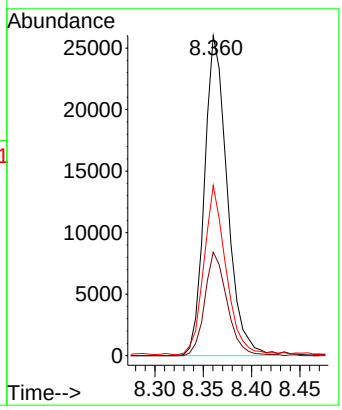




#49
cis-1,3-Dichloropropene
Concen: 18.974 ug/l
RT: 8.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion: 75 Resp: 4271

Ion	Ratio	Lower	Upper
75	100		
77	32.4	25.9	38.9
39	52.9	42.3	63.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC020

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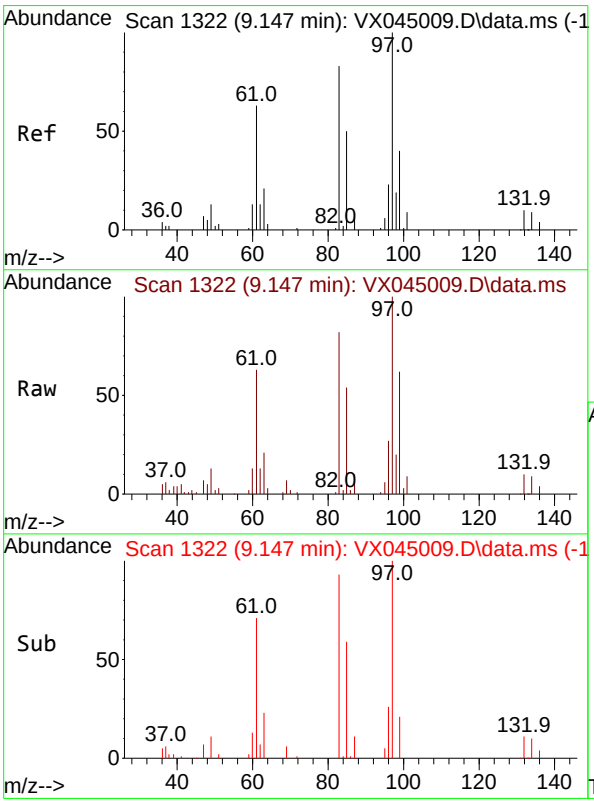
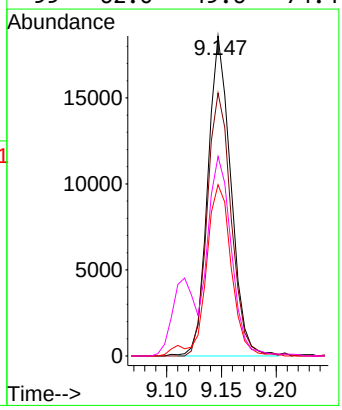
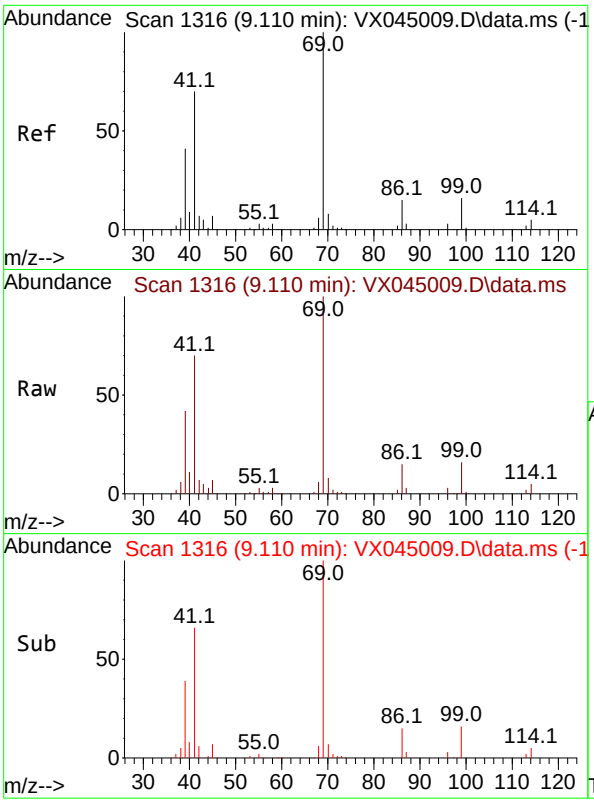


#50
1,1,2-Trichloroethane
Concen: 20.047 ug/l
RT: 9.147 min Scan# 1322
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion: 97 Resp: 27147

Ion	Ratio	Lower	Upper
97	100		
83	82.5	66.0	99.0
85	53.1	42.5	63.7
99	62.0	49.6	74.4

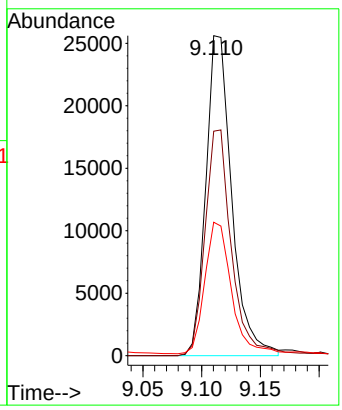




#51
Ethyl methacrylate
Concen: 18.495 ug/l
RT: 9.110 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion: 69 Resp: 3938

Ion	Ratio	Lower	Upper
69	100		
41	70.2	35.1	105.3
39	41.1	20.5	61.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC020

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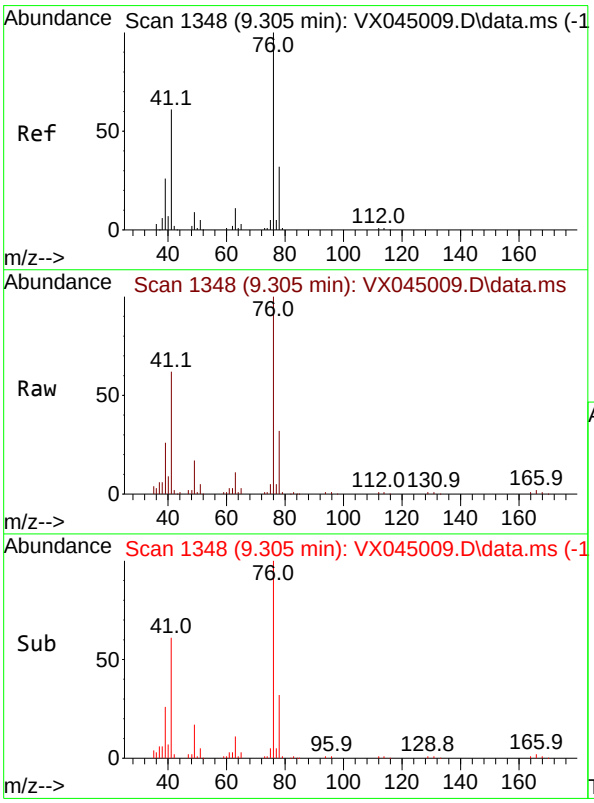
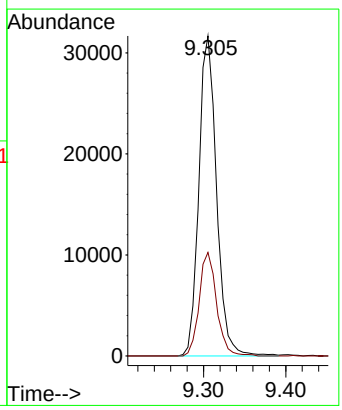
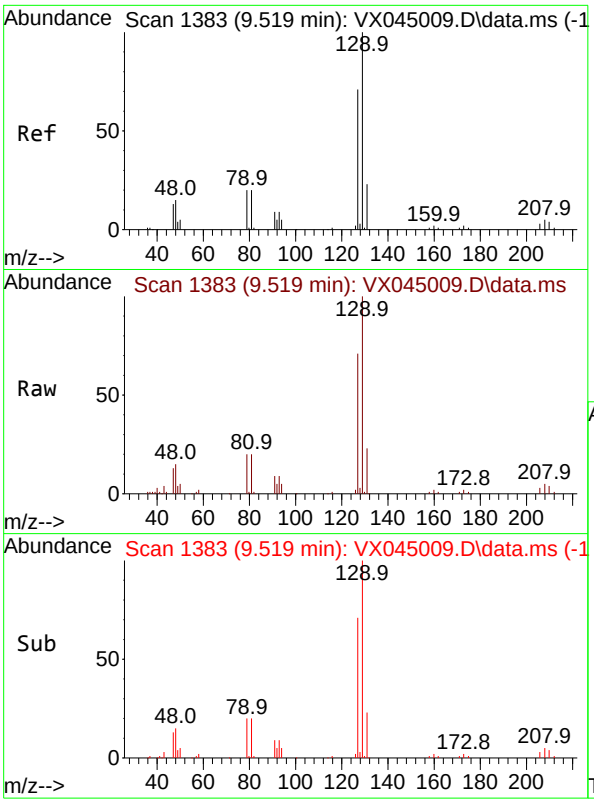


#52
1,3-Dichloropropane
Concen: 19.965 ug/l
RT: 9.305 min Scan# 1348
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion: 76 Resp: 47373

Ion	Ratio	Lower	Upper
76	100		
78	31.8	0.0	63.6





#53
Dibromochloromethane
Concen: 19.556 ug/l
RT: 9.519 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion:129 Resp: 2928

Ion	Ratio	Lower	Upper
129	100		
127	74.6	37.3	111.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC020

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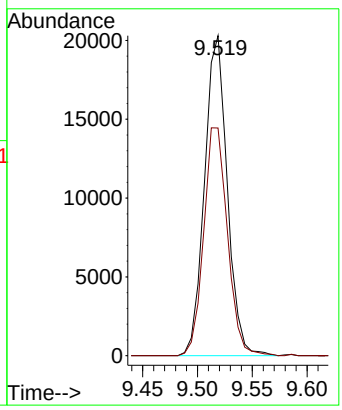
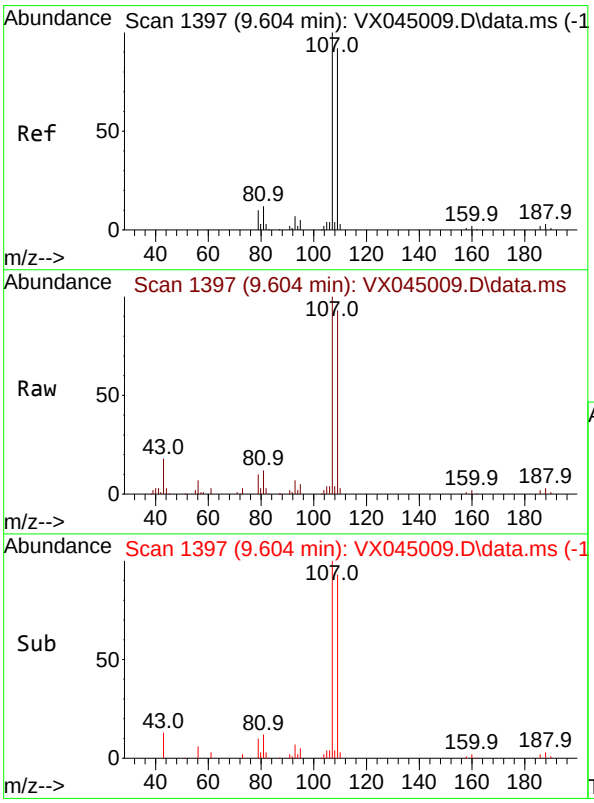
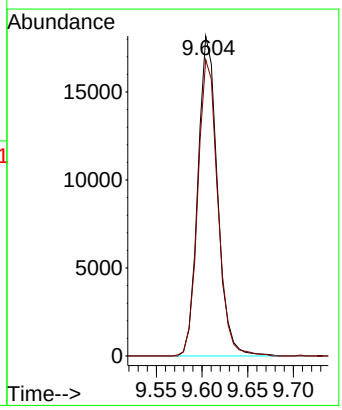


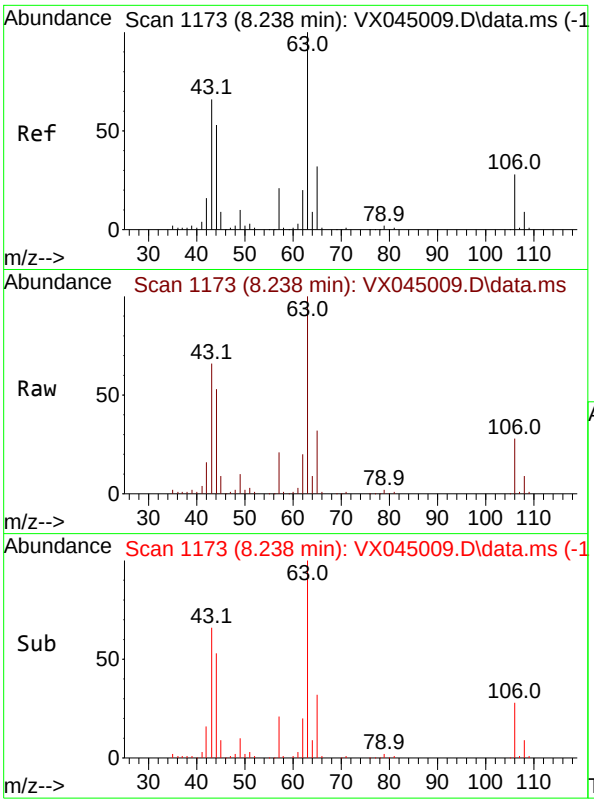


#54
1,2-Dibromoethane
Concen: 19.597 ug/l
RT: 9.604 min Scan# 1397
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion:107 Resp: 26948

Ion	Ratio	Lower	Upper
107	100		
109	94.8	75.8	113.8

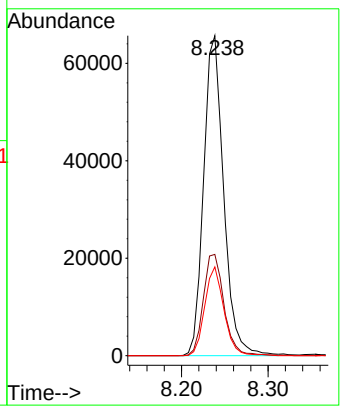




#55
2-Chloroethyl vinyl ether
Concen: 96.576 ug/l
RT: 8.238 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion: 63 Resp: 10562

Ion	Ratio	Lower	Upper
63	100		
65	32.7	26.2	39.2
106	26.5	21.2	31.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC020

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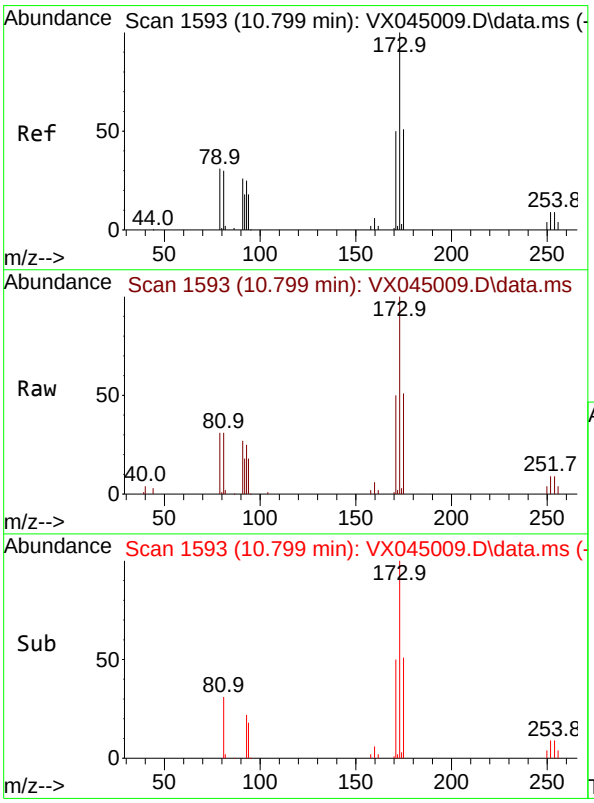
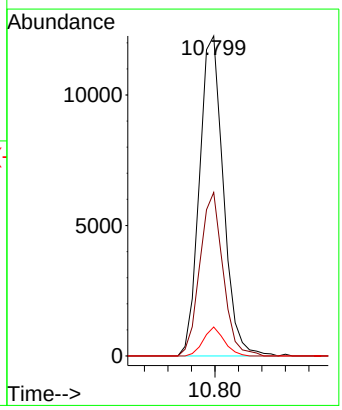
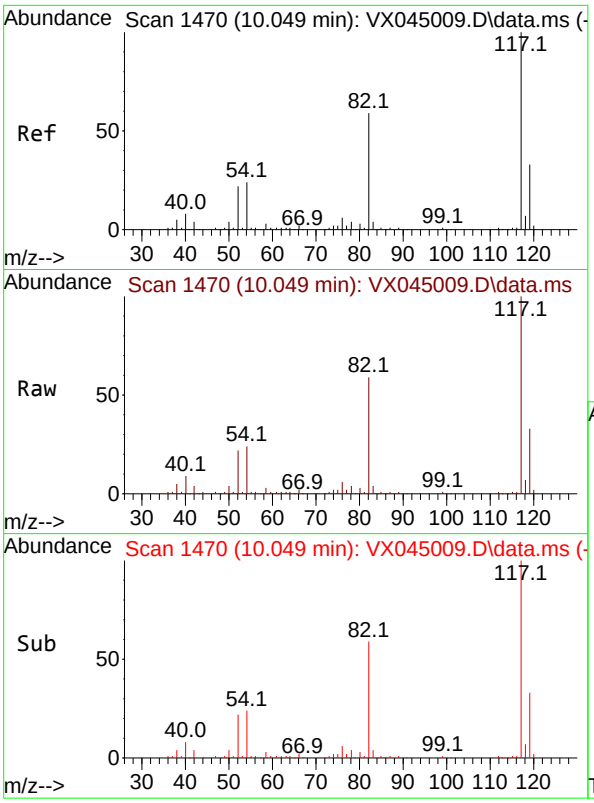


#56
Bromoform
Concen: 18.467 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion:173 Resp: 17331

Ion	Ratio	Lower	Upper
173	100		
175	49.5	39.6	59.4
254	7.9	6.3	9.5





#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion:117 Resp: 9181

Ion	Ratio	Lower	Upper
117	100		
82	57.3	45.8	68.8
119	31.9	25.5	38.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC020

Manual Integrations
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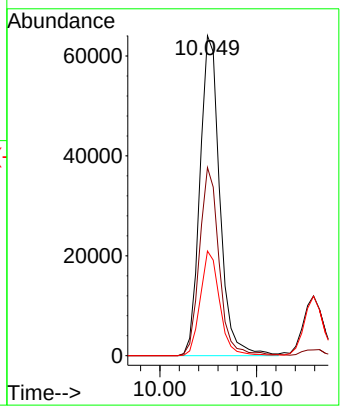
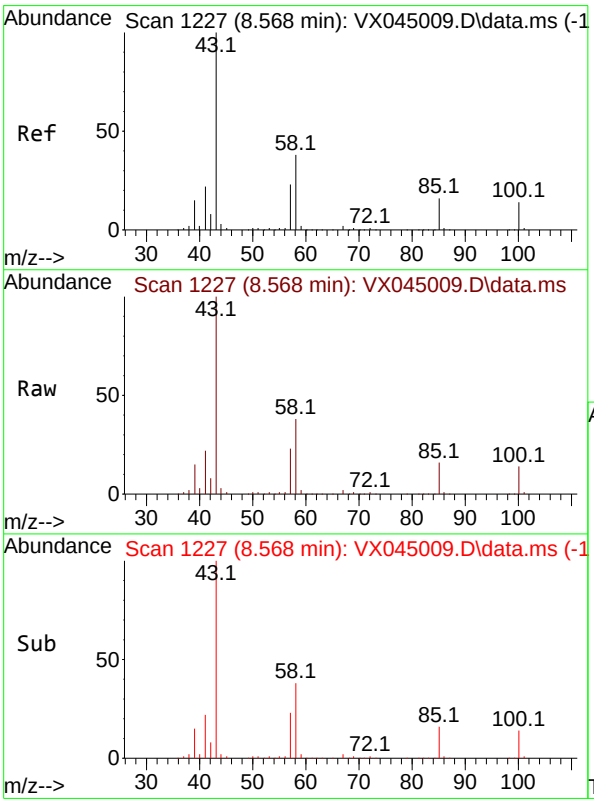
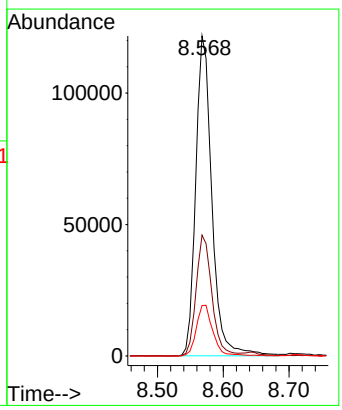


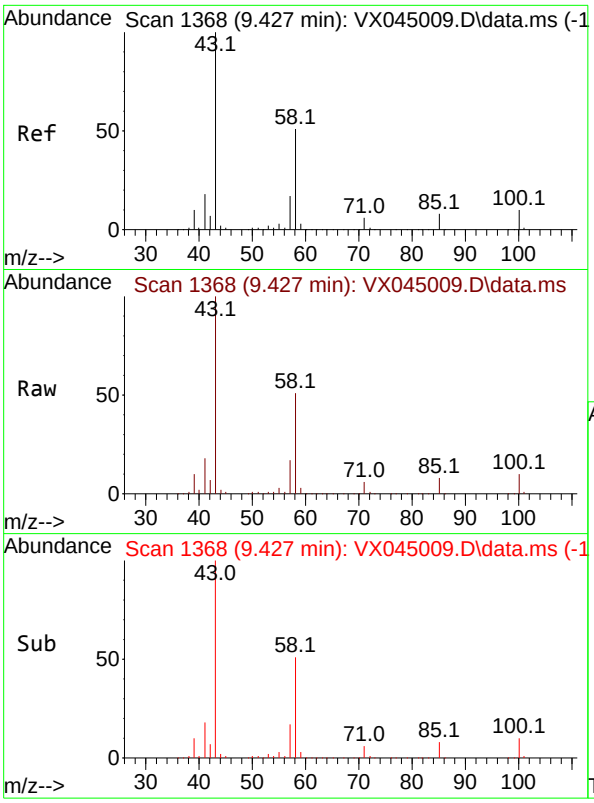


#58
4-Methyl-2-Pentanone
Concen: 99.596 ug/l
RT: 8.568 min Scan# 1227
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion: 43 Resp: 208023

Ion	Ratio	Lower	Upper
43	100		
58	36.9	29.5	44.3
85	16.1	12.9	19.3





#59
2-Hexanone
Concen: 98.899 ug/l
RT: 9.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion: 43 Resp: 14930

Ion	Ratio	Lower	Upper
43	100		
58	52.0	41.6	62.4
57	17.2	13.8	20.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC020

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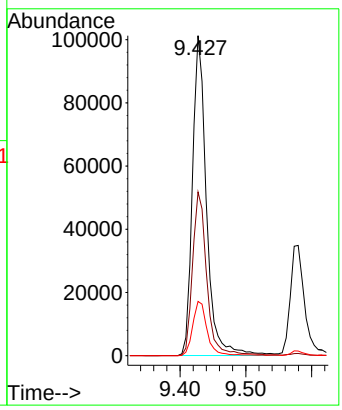
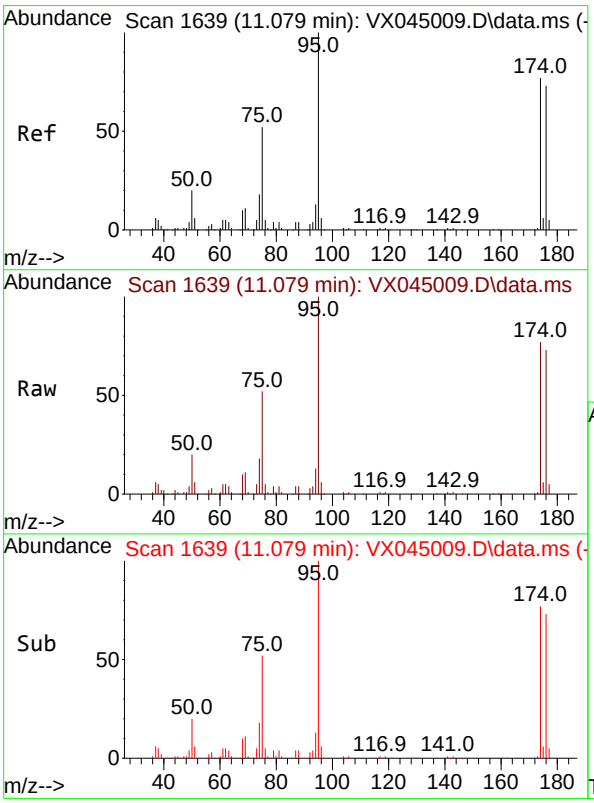
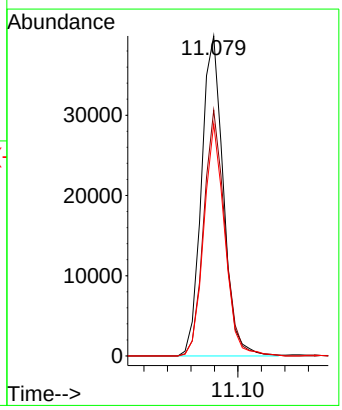


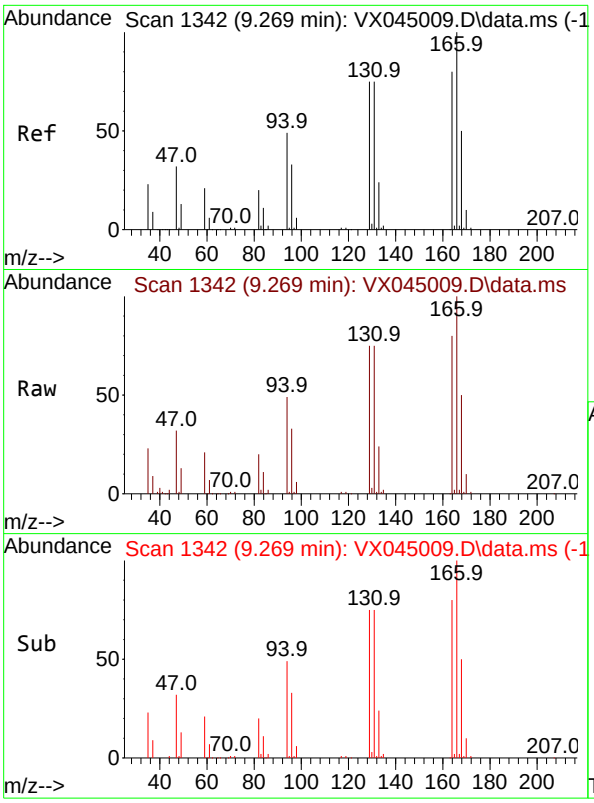


#60
4-Bromofluorobenzene
Concen: 29.939 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion: 95 Resp: 51382

Ion	Ratio	Lower	Upper
95	100		
174	74.4	59.5	89.3
176	69.4	55.5	83.3

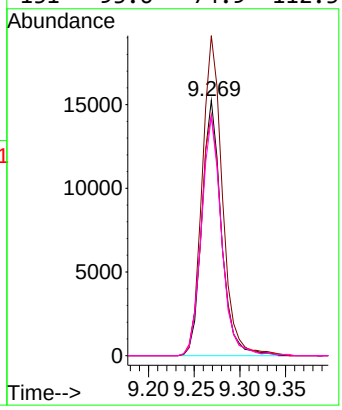




#61
Tetrachloroethene
Concen: 19.926 ug/l
RT: 9.269 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion:164 Resp: 2252

Ion	Ratio	Lower	Upper
164	100		
166	125.4	100.3	150.5
129	94.4	75.5	113.3
131	93.6	74.9	112.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC020

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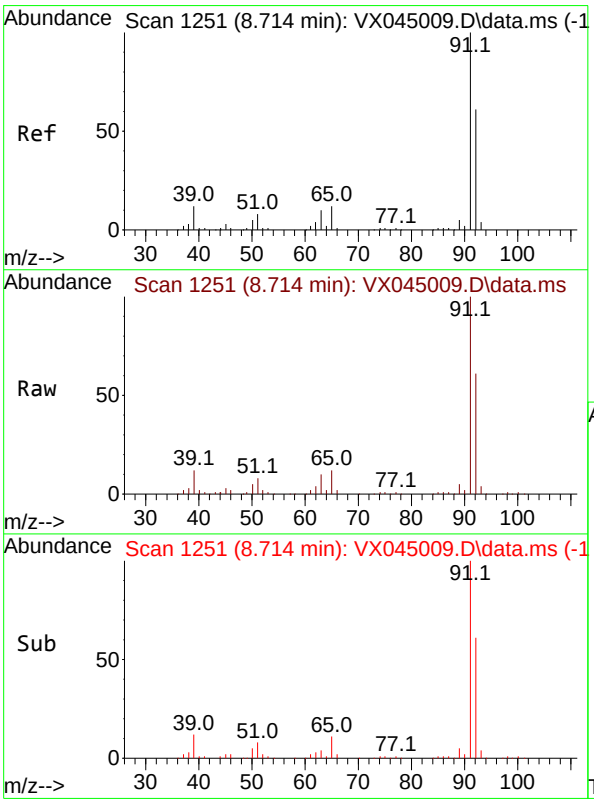
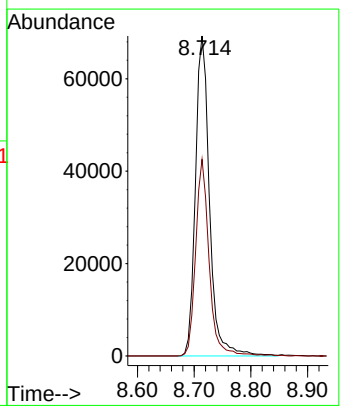
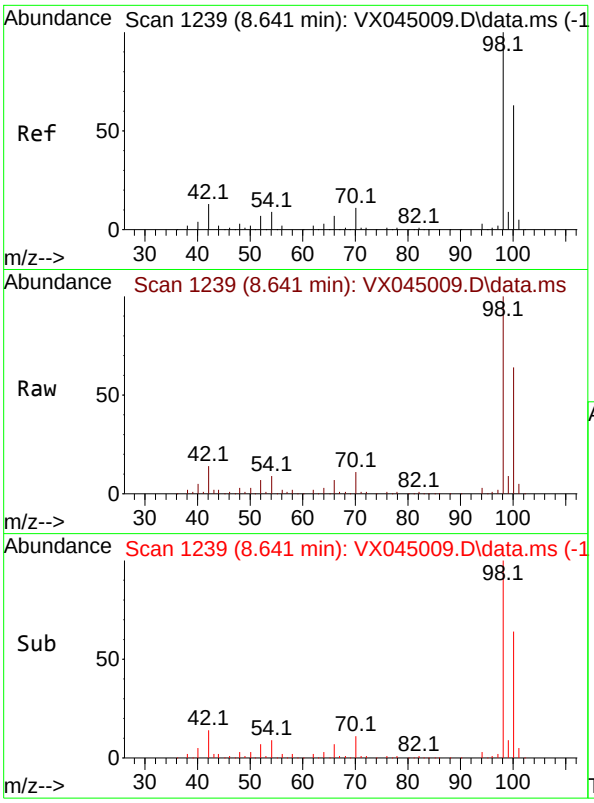


#62
Toluene
Concen: 19.642 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion: 91 Resp: 119473

Ion	Ratio	Lower	Upper
91	100		
92	58.6	46.9	70.3

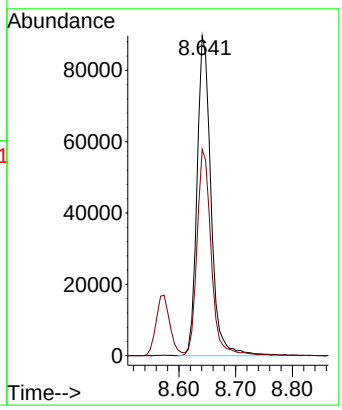




#63
Toluene-d8
Concen: 30.175 ug/l
RT: 8.641 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion: 98 Resp: 15327

Ion	Ratio	Lower	Upper
98	100		
100	64.6	51.7	77.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC020

Manual Integrations
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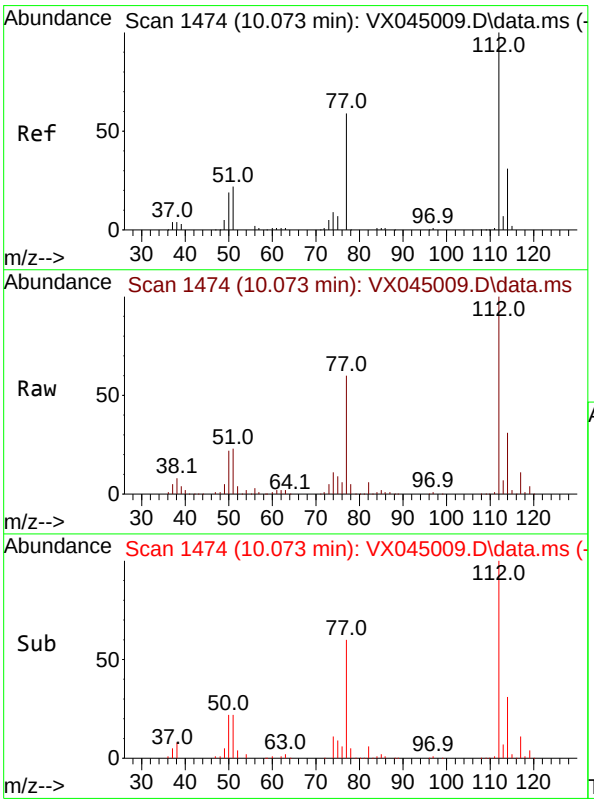
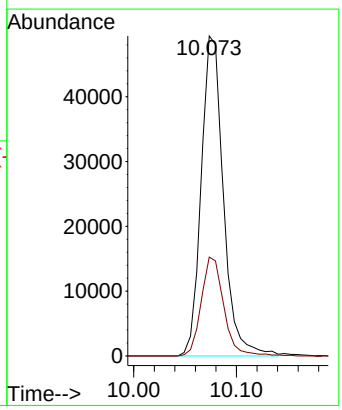
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

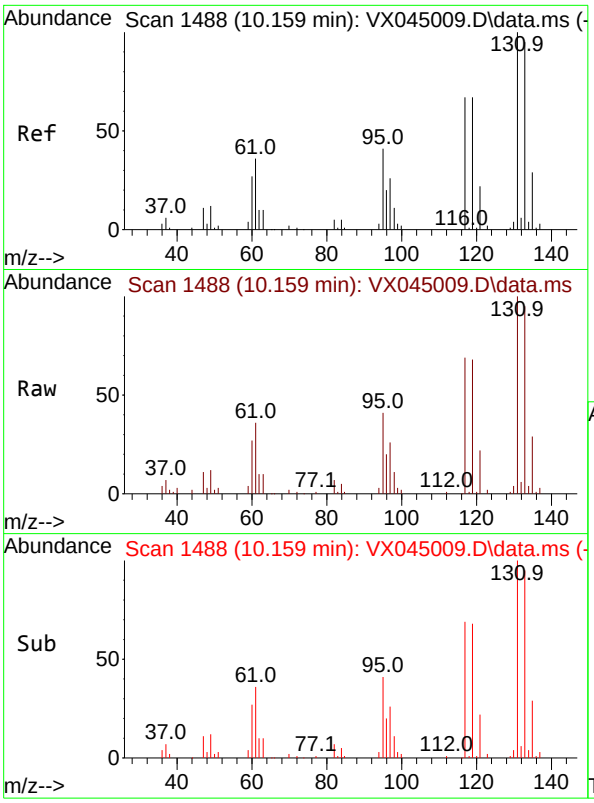


#64
Chlorobenzene
Concen: 19.710 ug/l
RT: 10.073 min Scan# 1474
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion:112 Resp: 74287

Ion	Ratio	Lower	Upper
112	100		
114	30.9	24.7	37.1

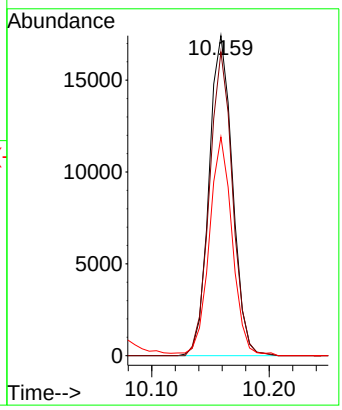




#65
1,1,1,2-Tetrachloroethane
Concen: 19.406 ug/l
RT: 10.159 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion:131 Resp: 2413

Ion	Ratio	Lower	Upper
131	100		
133	93.9	0.0	187.8
119	66.5	0.0	133.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC020

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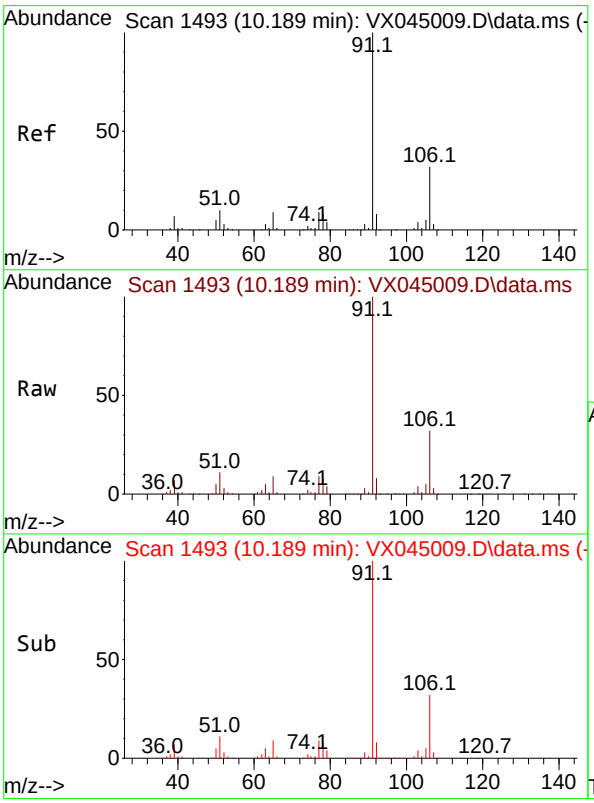
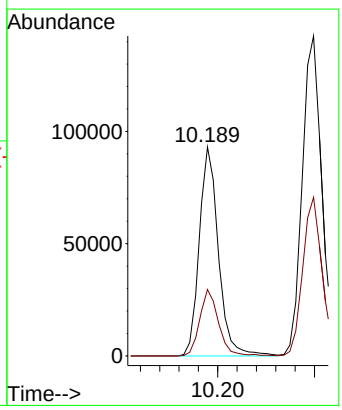
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

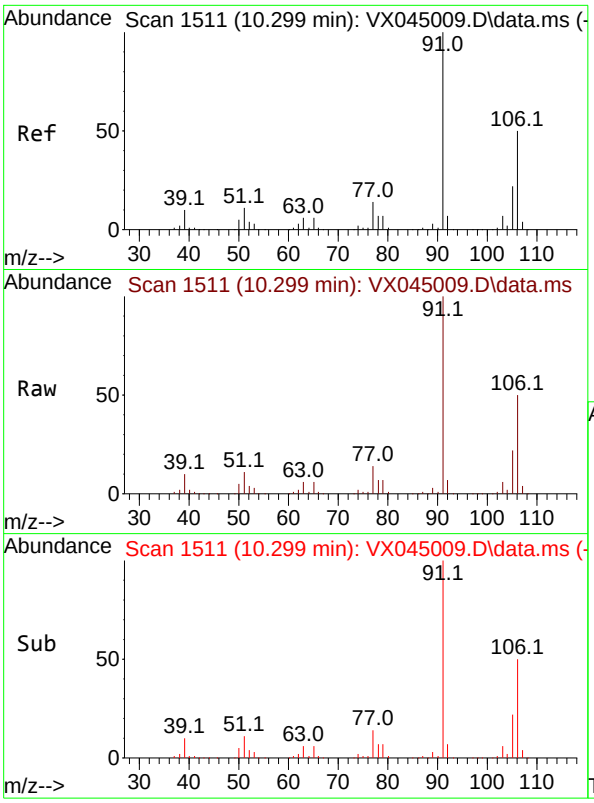


#66
Ethyl Benzene
Concen: 19.302 ug/l
RT: 10.189 min Scan# 1493
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion: 91 Resp: 128535

Ion	Ratio	Lower	Upper
91	100		
106	31.8	25.4	38.2





#67
m/p-Xylenes
Concen: 40.260 ug/l
RT: 10.299 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion:106 Resp: 9988

Ion	Ratio	Lower	Upper
106	100		
91	204.6	163.7	245.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC020

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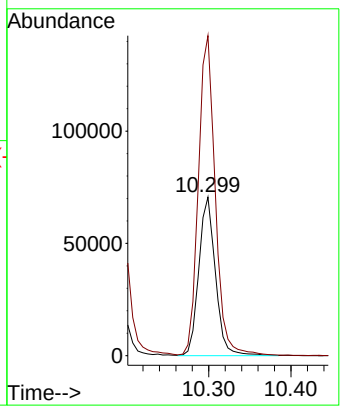
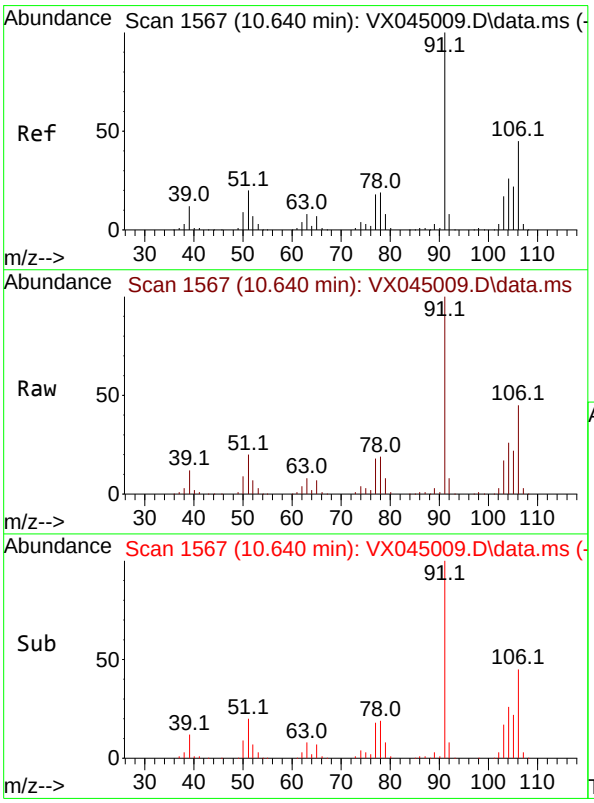
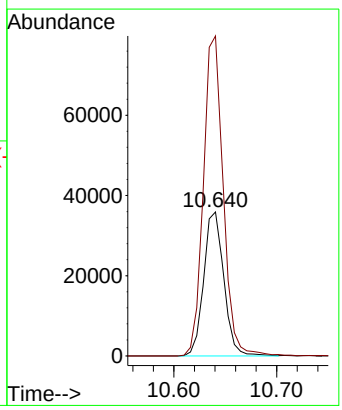


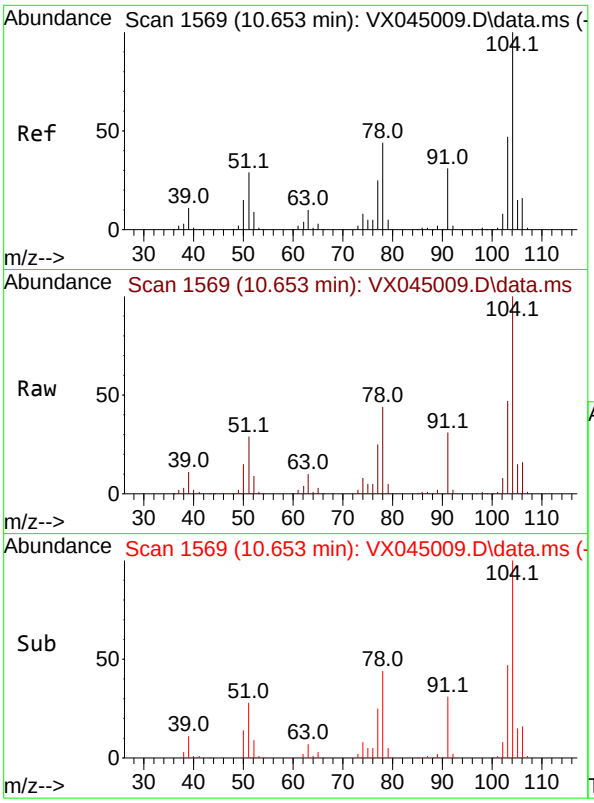


#68
o-Xylene
Concen: 20.071 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion:106 Resp: 48859

Ion	Ratio	Lower	Upper
106	100		
91	219.4	109.7	329.1





#69
Styrene
Concen: 19.839 ug/l
RT: 10.653 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion:104 Resp: 8066

Ion	Ratio	Lower	Upper
104	100		
78	51.7	41.4	62.0
103	53.7	43.0	64.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC020

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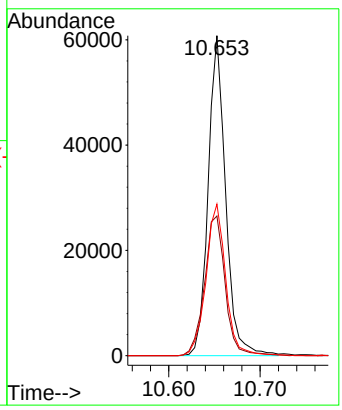
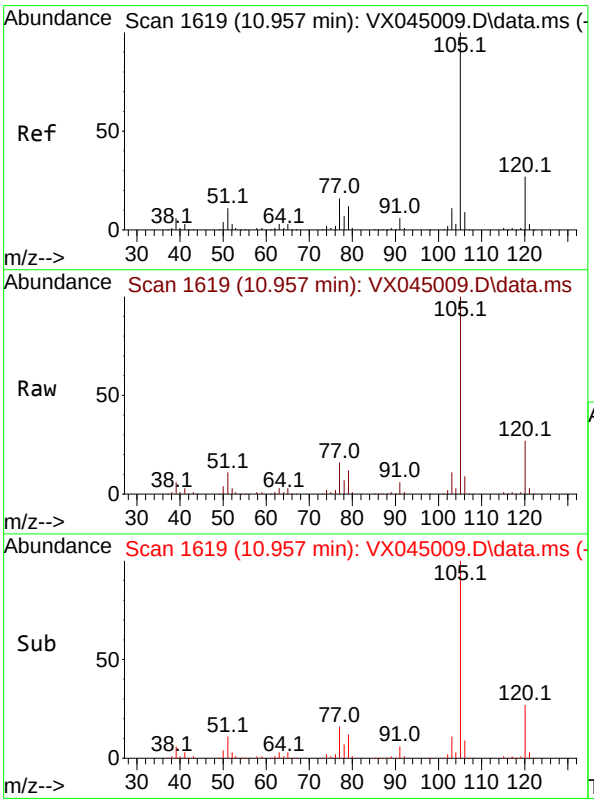
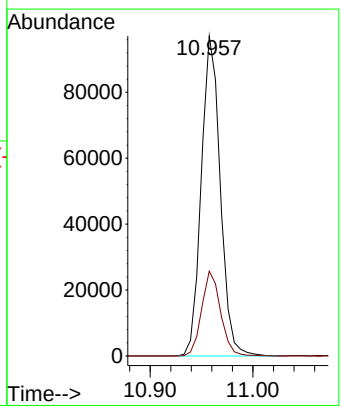


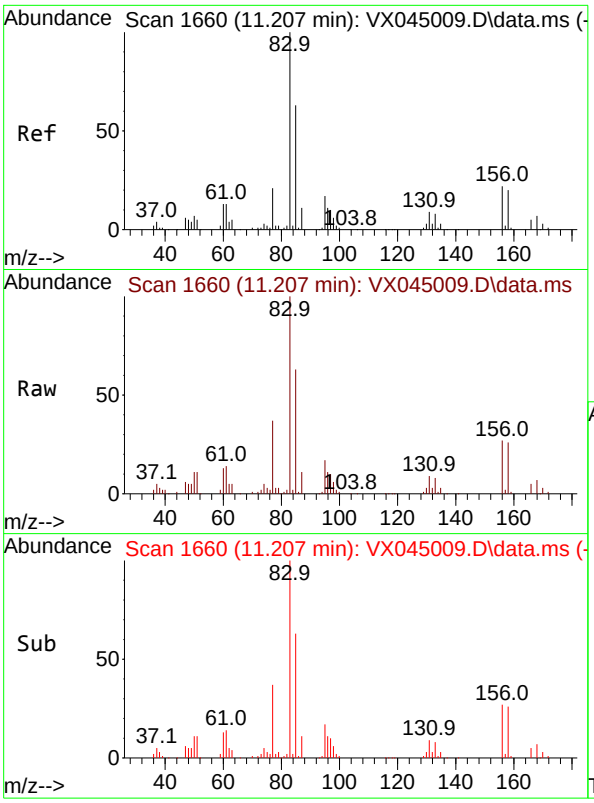


#70
Isopropylbenzene
Concen: 19.888 ug/l
RT: 10.957 min Scan# 1619
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion:105 Resp: 124935

Ion	Ratio	Lower	Upper
105	100		
120	26.3	18.4	34.2

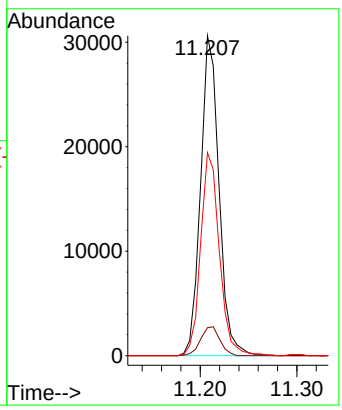




#71
1,1,2,2-Tetrachloroethane
Concen: 19.683 ug/l
RT: 11.207 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion: 83 Resp: 4065

Ion	Ratio	Lower	Upper
83	100		
131	9.5	4.8	14.3
85	64.5	32.3	96.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC020

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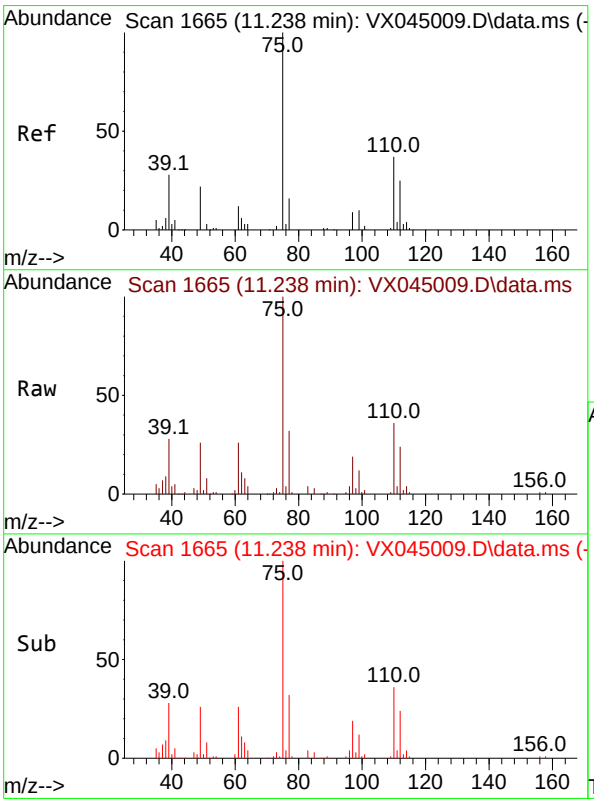
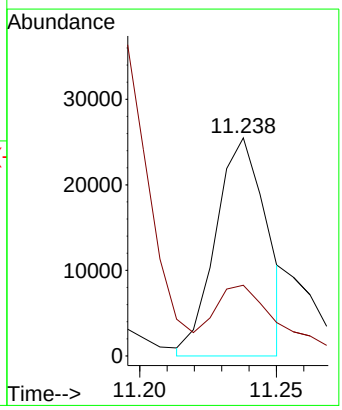
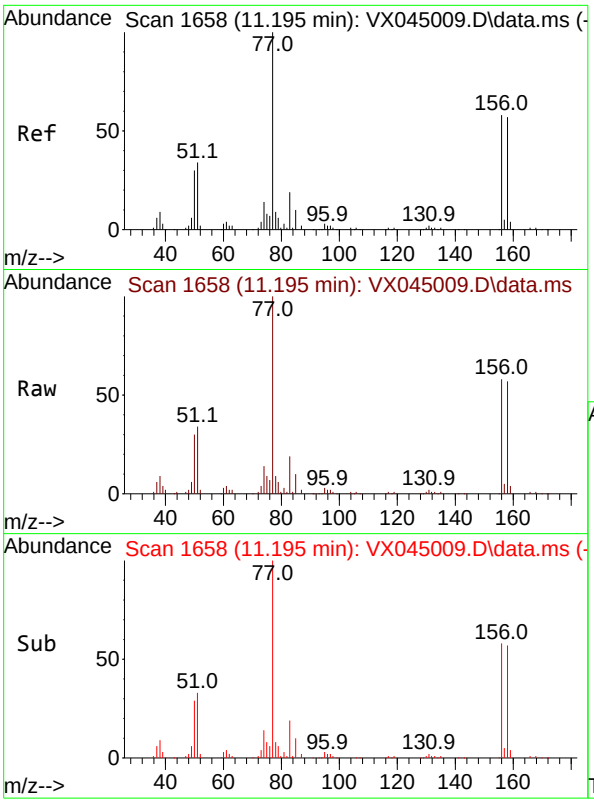


#72
1,2,3-Trichloropropane
Concen: 19.450 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion: 75 Resp: 33046

Ion	Ratio	Lower	Upper
75	100		
77	42.0	0.0	84.0





#73
Bromobenzene
Concen: 19.777 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion:156 Resp: 2860

Ion	Ratio	Lower	Upper
156	100		
77	173.6	0.0	347.2
158	98.8	0.0	197.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC020

Manual Integrations
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Reviewed By :John Carlone 02/24/2025
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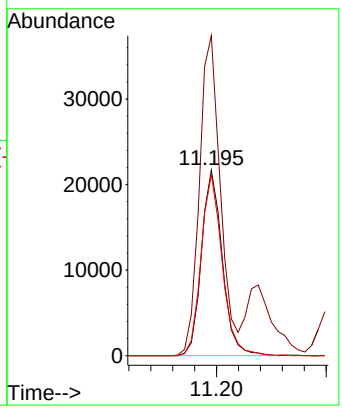
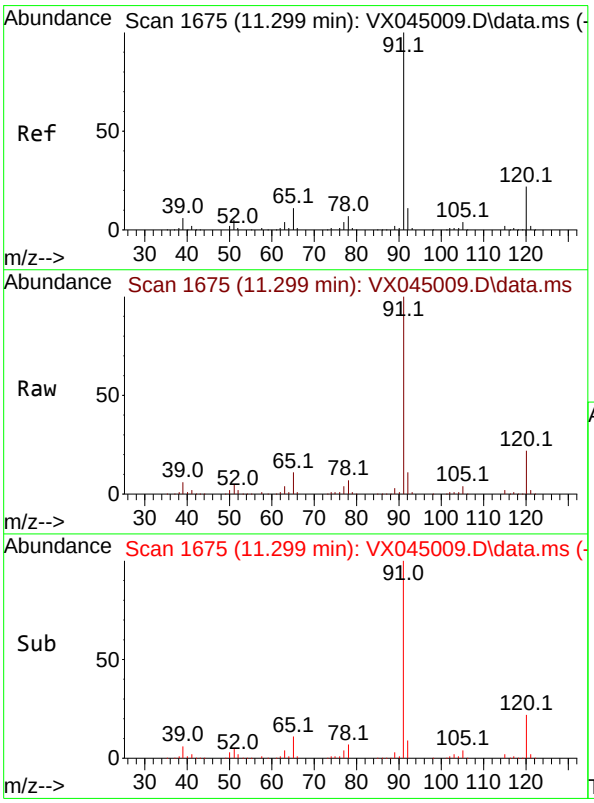
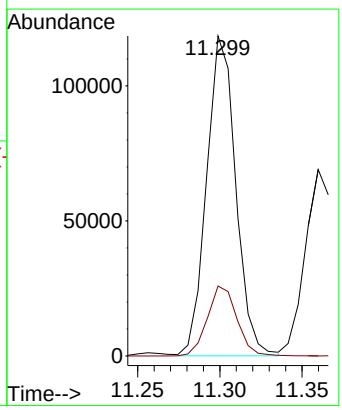


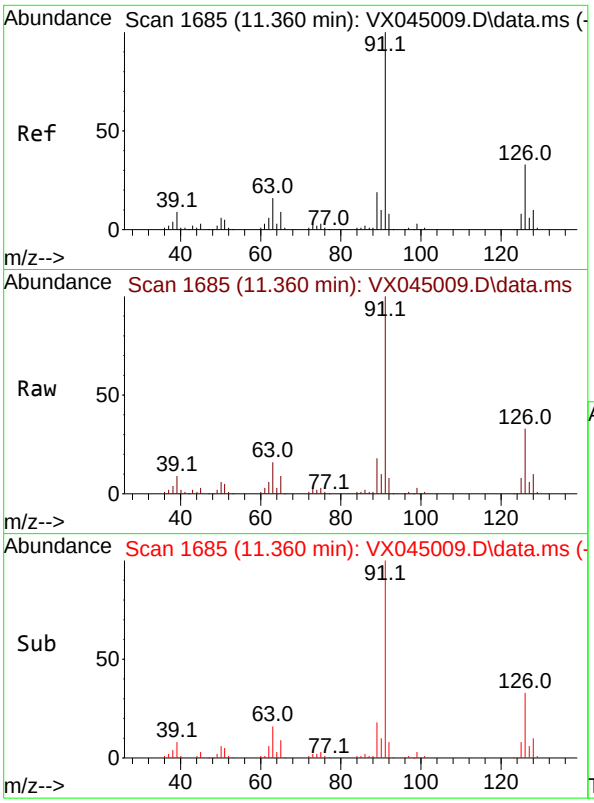


#74
n-propylbenzene
Concen: 19.544 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion: 91 Resp: 146105

Ion	Ratio	Lower	Upper
91	100		
120	22.1	0.0	44.2





#75
2-Chlorotoluene
Concen: 19.883 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion: 91 Resp: 8985

Ion	Ratio	Lower	Upper
91	100		
126	32.7	0.0	65.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC020

Manual Integrations
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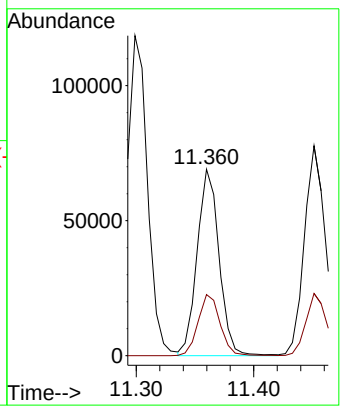
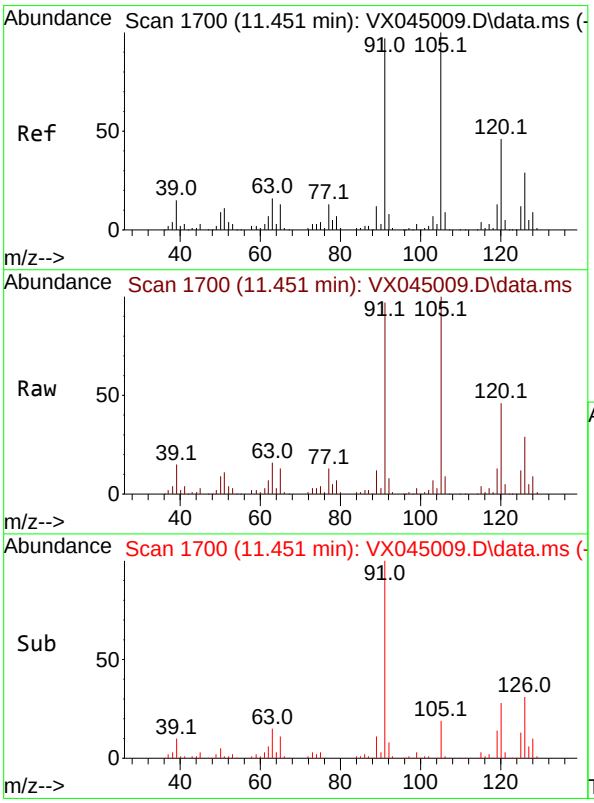
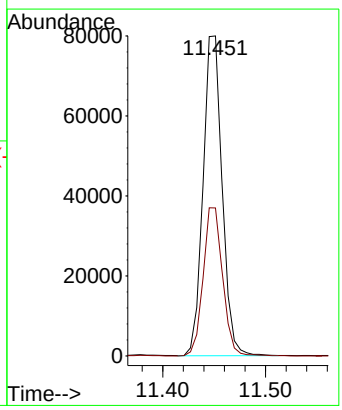


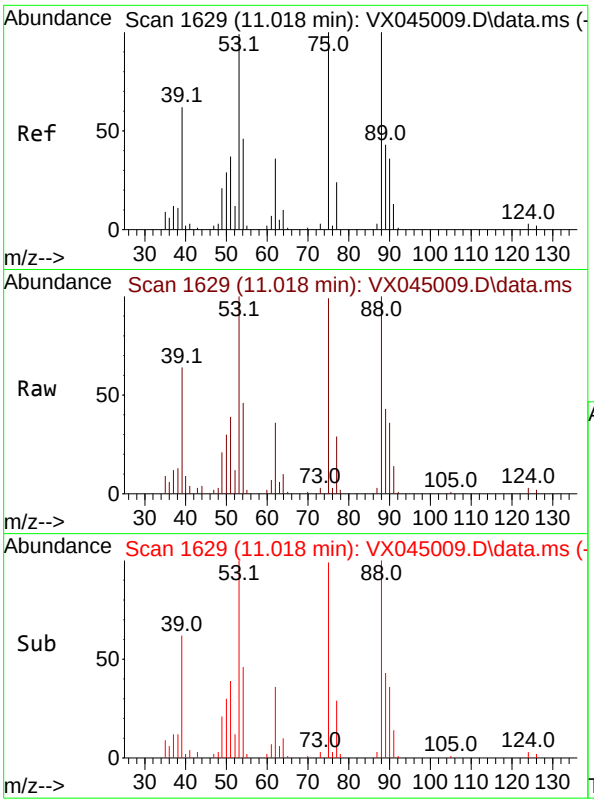


#76
1,3,5-Trimethylbenzene
Concen: 19.977 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion:105 Resp: 103532

Ion	Ratio	Lower	Upper
105	100		
120	47.2	0.0	94.4





#77
t-1,4-Dichloro-2-butene
Concen: 17.133 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion: 75 Resp: 979

Ion	Ratio	Lower	Upper
75	100		
53	99.6	49.8	149.4
89	42.8	21.4	64.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC020

Manual Integrations
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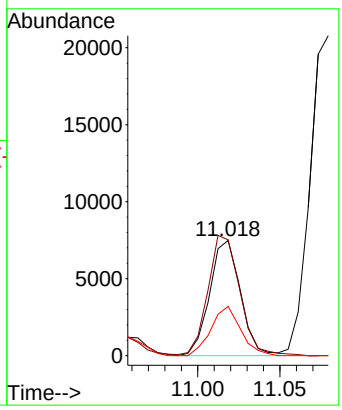
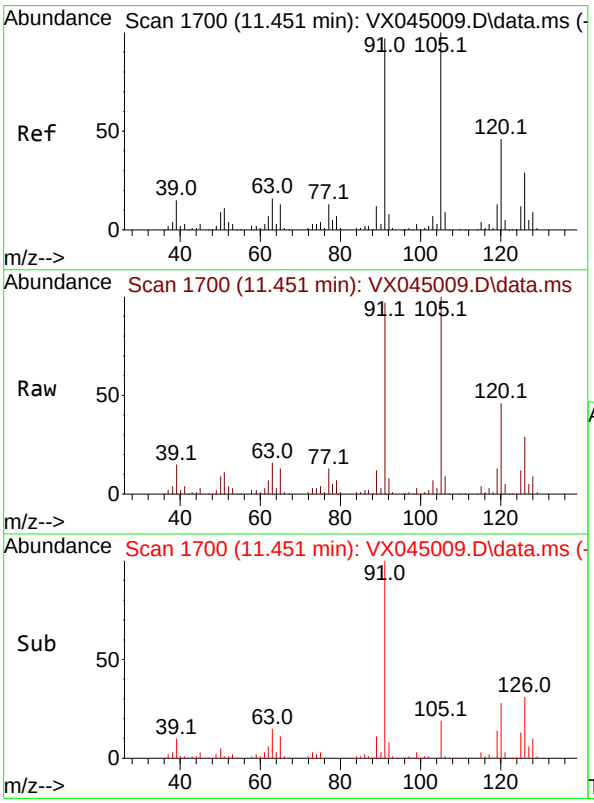
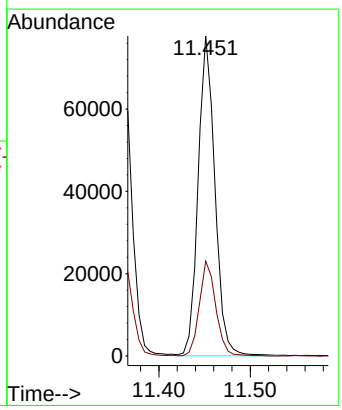


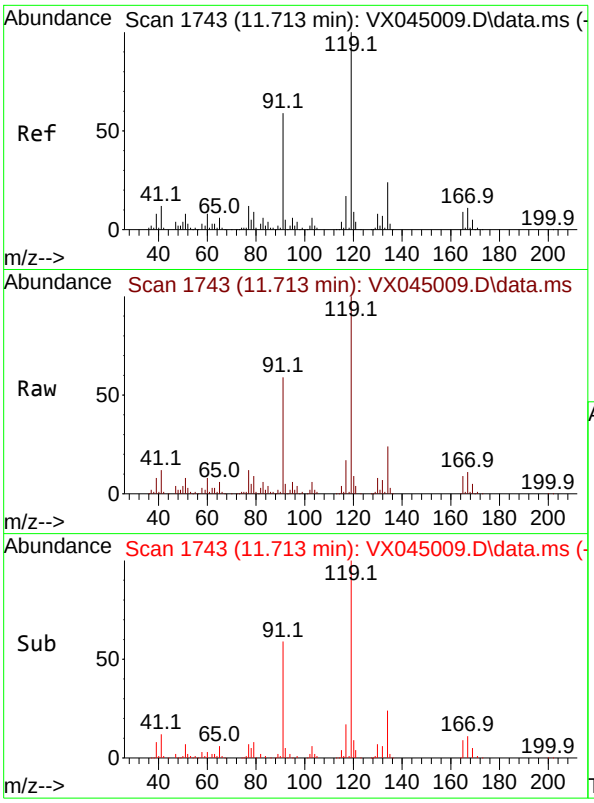


#78
4-Chlorotoluene
Concen: 19.654 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion: 91 Resp: 99015

Ion	Ratio	Lower	Upper
91	100		
126	29.0	0.0	58.0





#79
tert-butylbenzene
Concen: 19.965 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion:119 Resp: 10425

Ion	Ratio	Lower	Upper
119	100		
91	60.3	0.0	120.6
134	24.1	0.0	48.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC020

Manual Integrations
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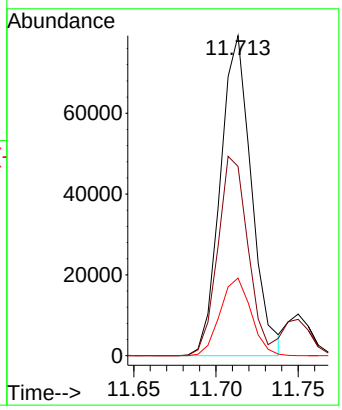
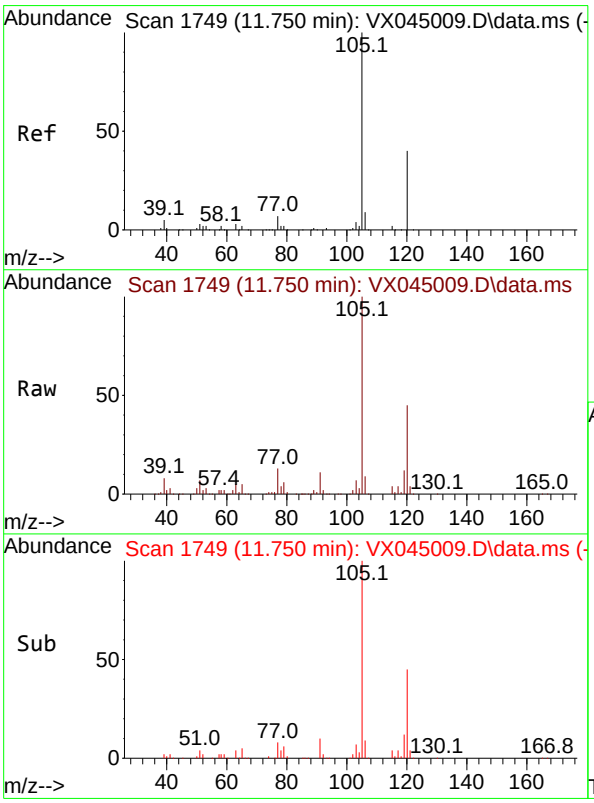
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

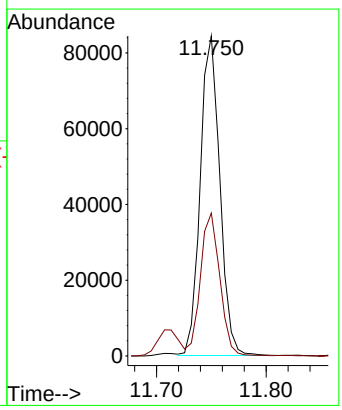


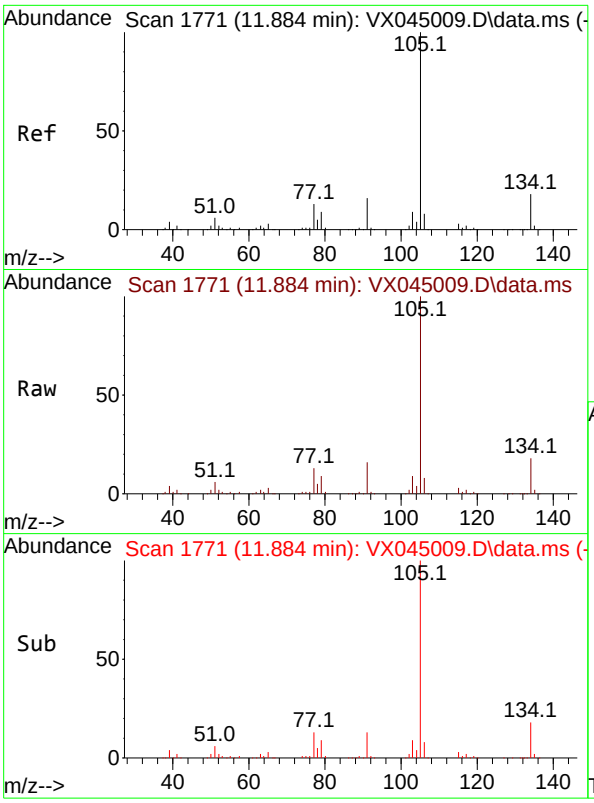


#80
1,2,4-Trimethylbenzene
Concen: 20.108 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion:105 Resp: 104388

Ion	Ratio	Lower	Upper
105	100		
120	44.2	0.0	88.4





#81
sec-Butylbenzene
Concen: 19.783 ug/l
RT: 11.884 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion:105 Resp: 12964

Ion	Ratio	Lower	Upper
105	100		
134	19.5	0.0	39.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC020

Manual Integrations
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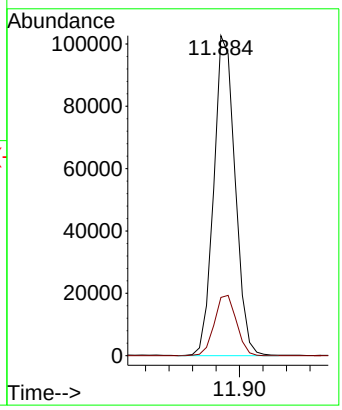
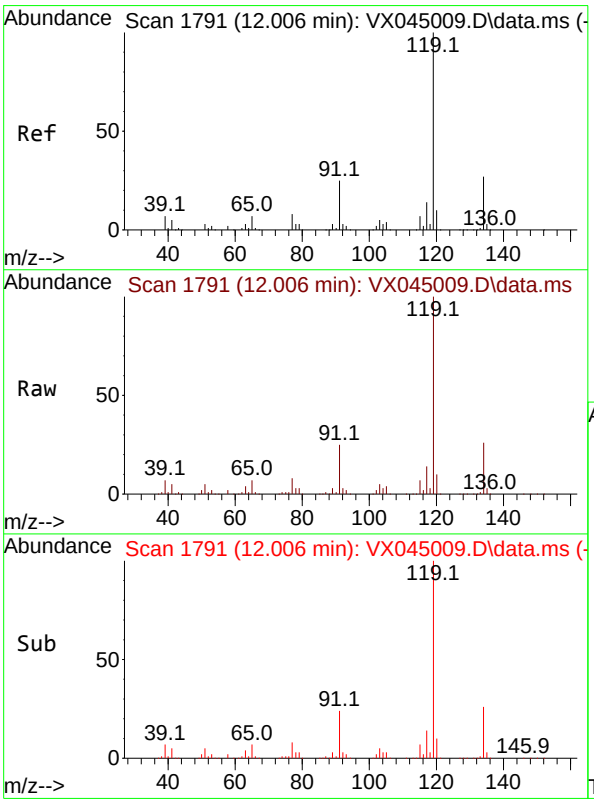
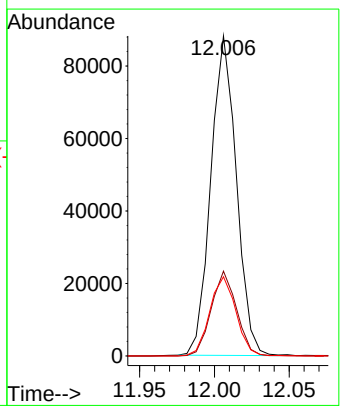


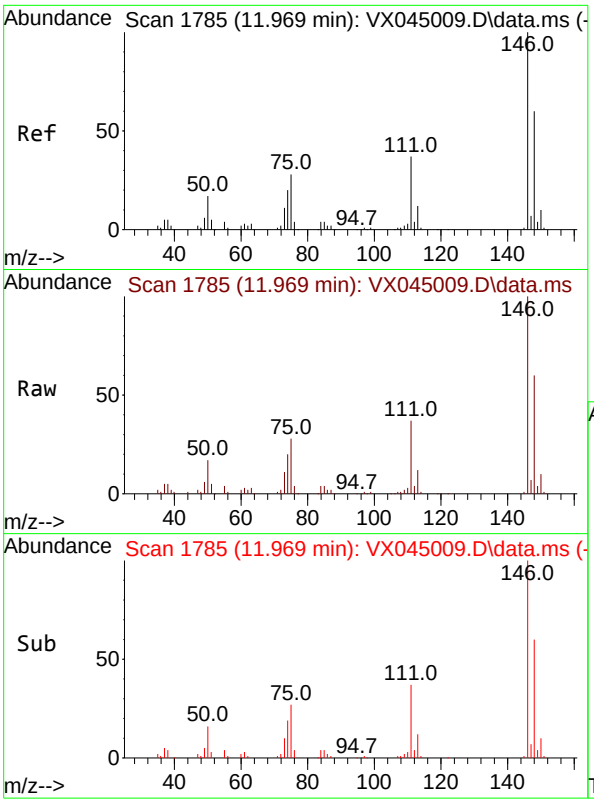


#82
p-Isopropyltoluene
Concen: 19.698 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion:119 Resp: 104594

Ion	Ratio	Lower	Upper
119	100		
134	26.3	0.0	52.6
91	25.5	0.0	51.0

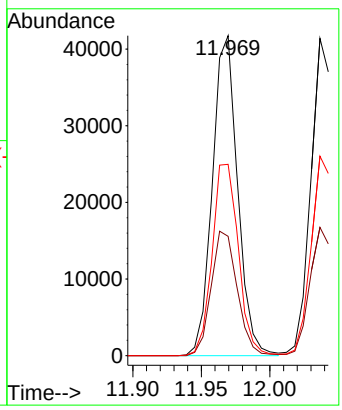




#83
1,3-Dichlorobenzene
Concen: 19.873 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion:146 Resp: 5347

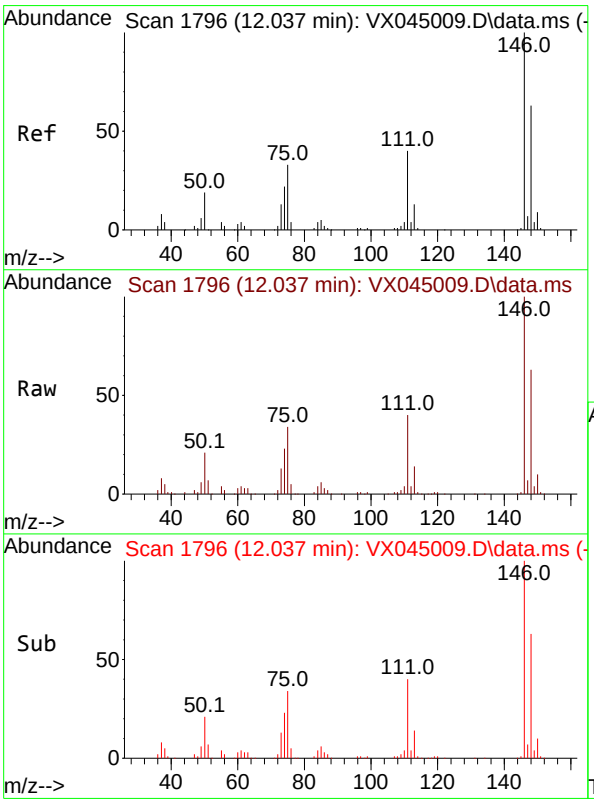
Ion	Ratio	Lower	Upper
146	100		
111	40.3	20.2	60.5
148	62.4	31.2	93.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC020

Manual Integrations
APPROVED

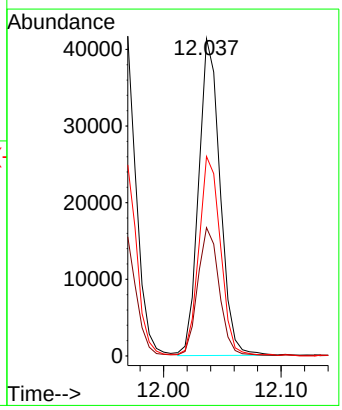
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

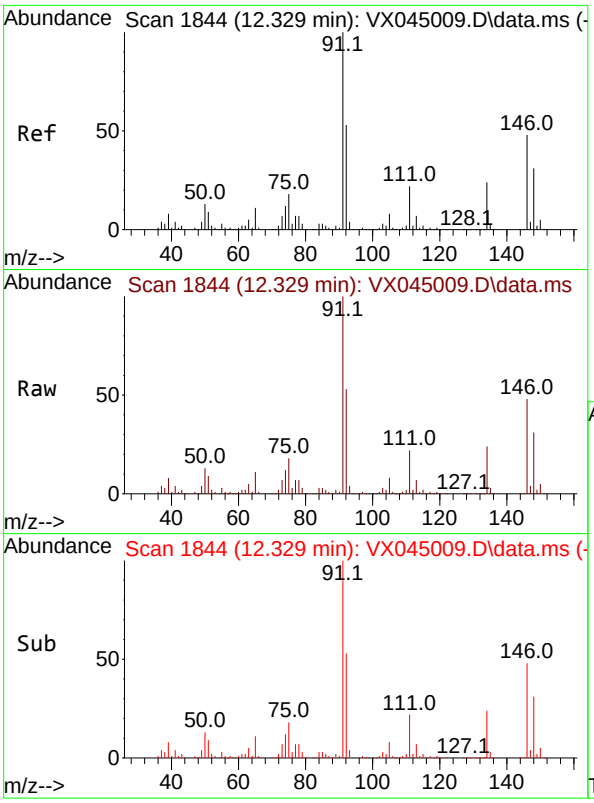


#84
1,4-Dichlorobenzene
Concen: 19.714 ug/l
RT: 12.037 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion:146 Resp: 52302

Ion	Ratio	Lower	Upper
146	100		
111	40.8	20.4	61.2
148	63.6	31.8	95.4

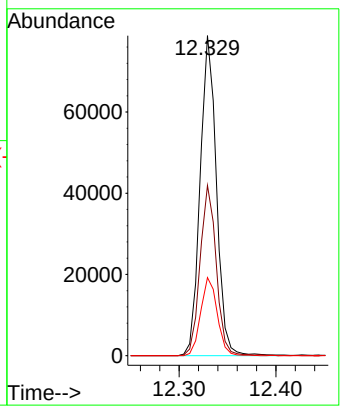




#85
n-Butylbenzene
Concen: 19.087 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion: 91 Resp: 9255

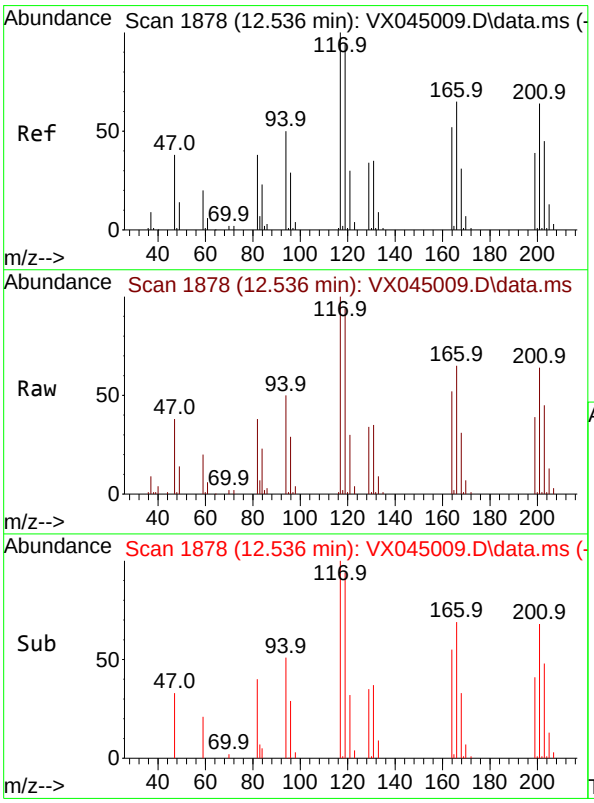
Ion	Ratio	Lower	Upper
91	100		
92	52.6	0.0	105.2
134	24.7	0.0	49.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC020

Manual Integrations
APPROVED

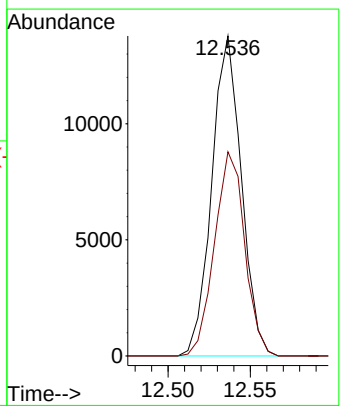
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

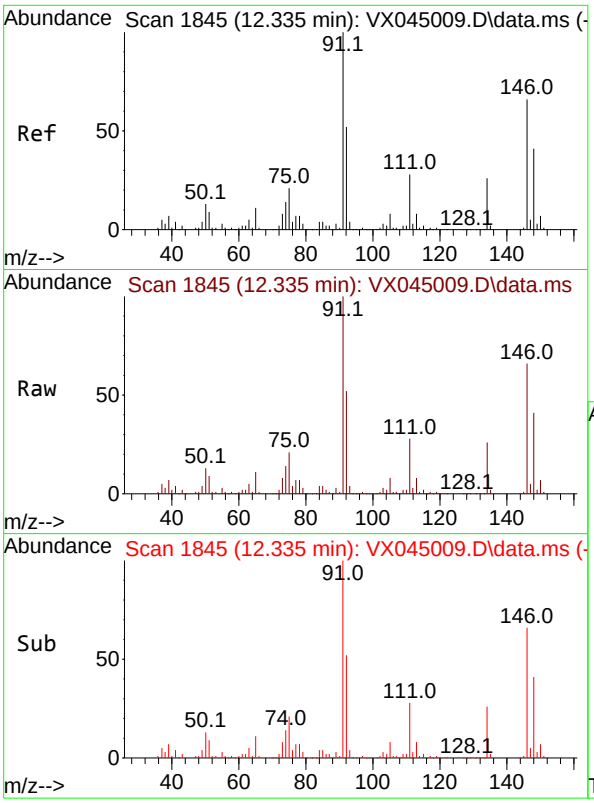


#86
Hexachloroethane
Concen: 18.410 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion:117 Resp: 17240

Ion	Ratio	Lower	Upper
117	100		
201	65.1	32.6	97.7

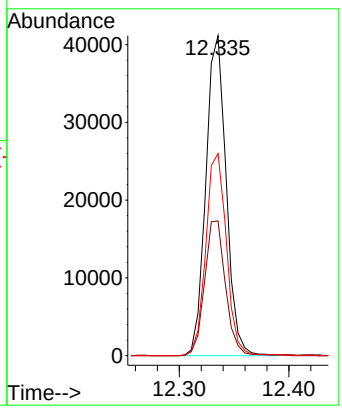




#87
1,2-Dichlorobenzene
Concen: 20.126 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion:146 Resp: 5313

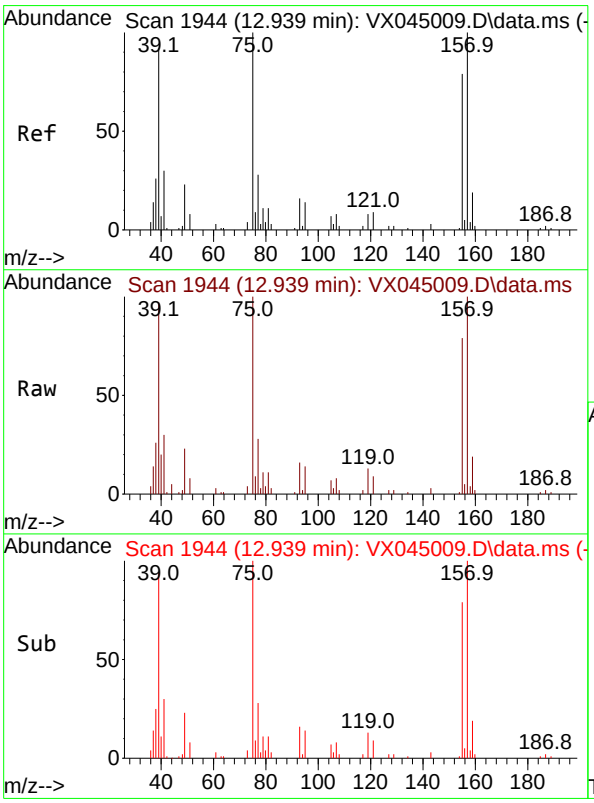
Ion	Ratio	Lower	Upper
146	100		
111	43.4	21.7	65.1
148	63.6	31.8	95.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC020

Manual Integrations
APPROVED

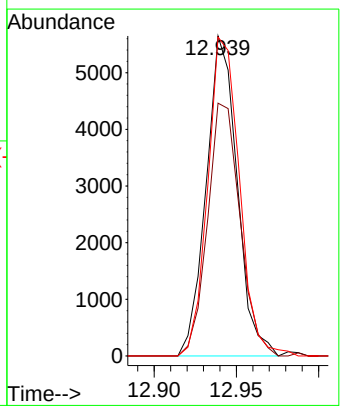
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

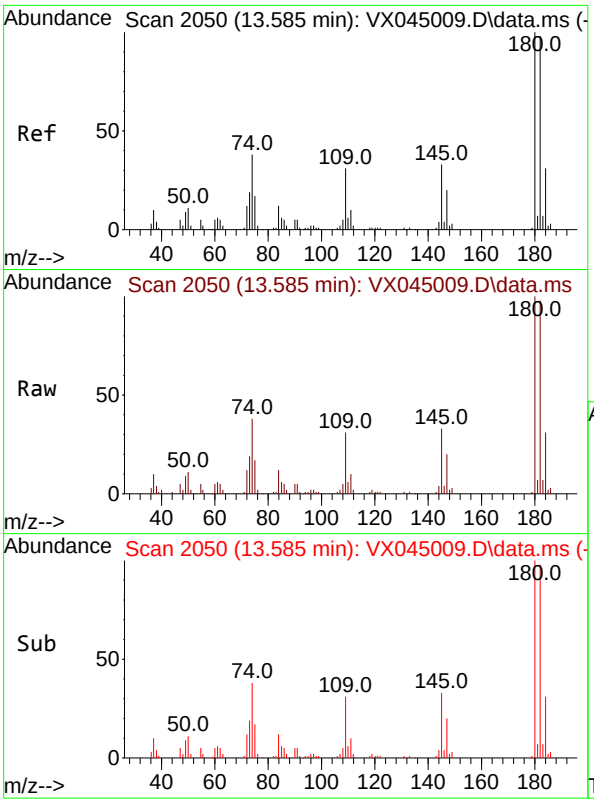


#88
1,2-Dibromo-3-Chloropropane
Concen: 18.485 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion: 75 Resp: 7393

Ion	Ratio	Lower	Upper
75	100		
155	82.8	66.2	99.4
157	101.8	81.4	122.2

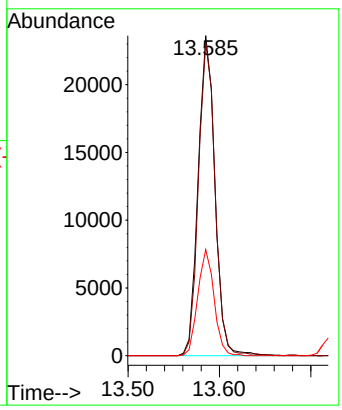




#89
1,2,4-Trichlorobenzene
Concen: 18.760 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion:180 Resp: 3001

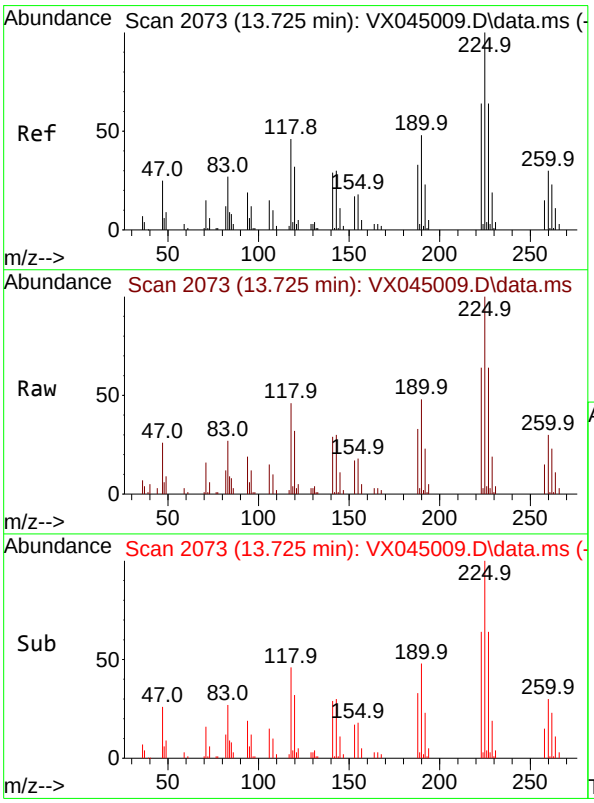
Ion	Ratio	Lower	Upper
180	100		
182	97.1	77.7	116.5
145	32.2	25.8	38.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC020

Manual Integrations
APPROVED

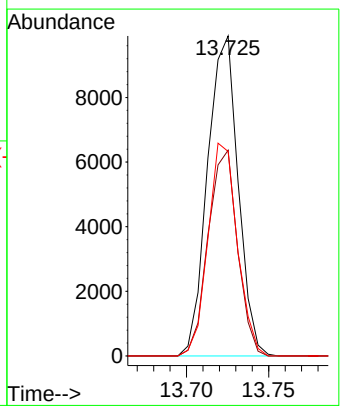
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

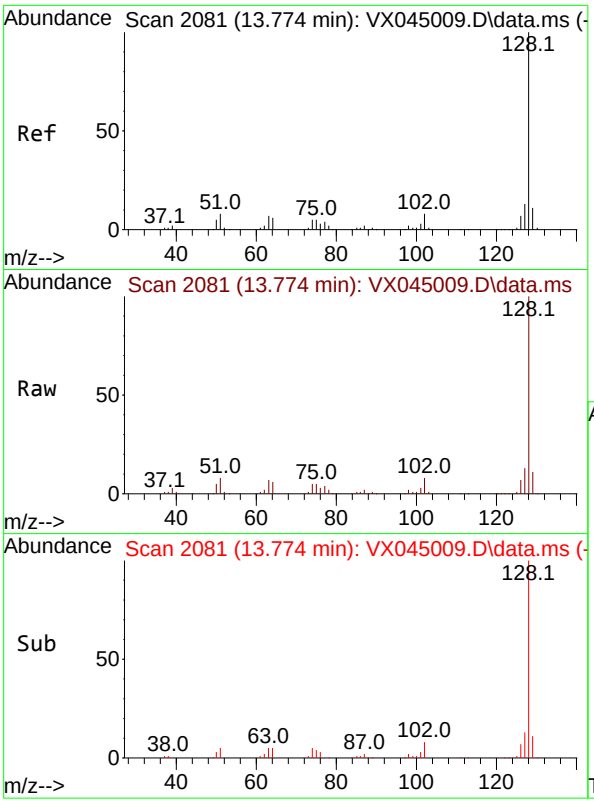


#90
Hexachlorobutadiene
Concen: 19.649 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion:225 Resp: 12822

Ion	Ratio	Lower	Upper
225	100		
223	61.7	0.0	123.4
227	63.7	0.0	127.4

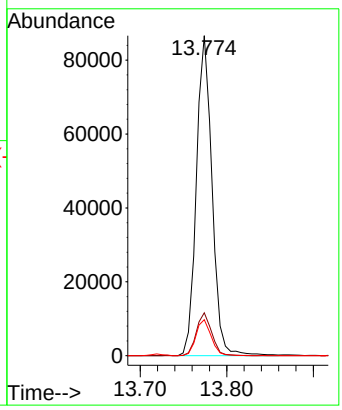




#91
Naphthalene
Concen: 19.291 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion:128 Resp: 10884

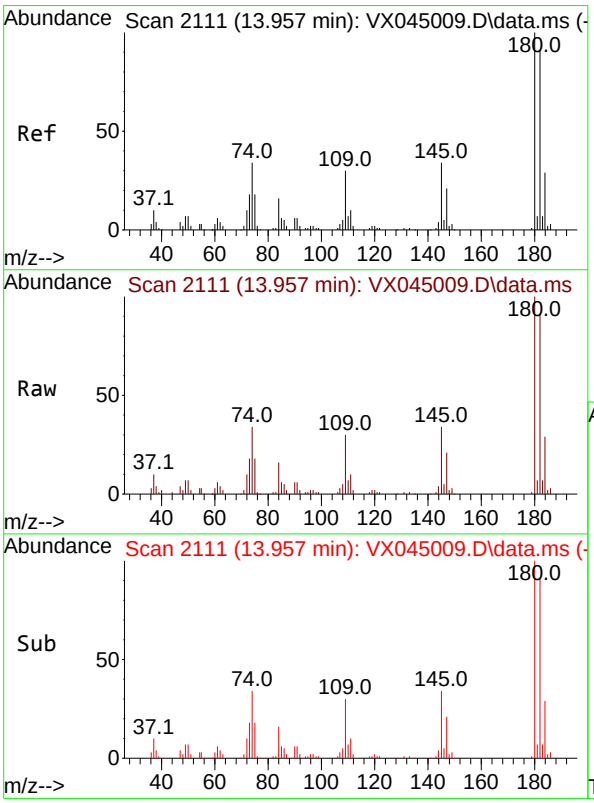
Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.5	15.7
129	10.9	8.7	13.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC020

Manual Integrations
APPROVED

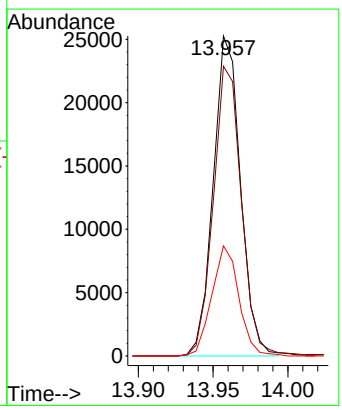
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025



#92
1,2,3-Trichlorobenzene
Concen: 19.437 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX045009.D
Acq: 21 Feb 2025 10:21

Tgt Ion:180 Resp: 32019

Ion	Ratio	Lower	Upper
180	100		
182	93.3	0.0	186.6
145	34.2	0.0	68.4



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022125\
Data File : VX045010.D
Acq On : 21 Feb 2025 10:44
Operator : JC/MD
Sample : VSTDICC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC050

Manual Integrations APPROVED

Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

Quant Time: Feb 22 00:48:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X022125W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Feb 22 00:21:26 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	4.891	128	17467	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	96411	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.049	117	89300	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.946	65	49656	29.270	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 97.567%			
60) 4-Bromofluorobenzene	11.079	95	50413	30.203	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 100.667%			
63) Toluene-d8	8.647	98	147315	29.819	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.400%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	74849	50.833	ug/l	98
3) Chloromethane	1.294	50	90776	51.472	ug/l	98
4) Vinyl Chloride	1.374	62	84944	49.915	ug/l	100
5) Bromomethane	1.593	94	28963	48.894	ug/l	97
6) Chloroethane	1.672	64	51012	55.346	ug/l	92
7) Trichlorofluoromethane	1.880	101	115517	50.505	ug/l	95
8) Diethyl Ether	2.130	74	43032	49.726	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.325	101	68750	50.609	ug/l	97
10) 1,1-Dichloroethene	2.312	96	66962	50.466	ug/l	92
11) Methyl Iodide	2.447	142	81166	54.046	ug/l	97
12) Methyl Acetate	2.697	43	78286	50.808	ug/l	100
13) Acrolein	2.233	56	76736	248.462	ug/l	98
14) Acrylonitrile	3.056	53	196184	260.667	ug/l	99
15) Acetone	2.373	58	51483	249.418	ug/l	95
16) Carbon Disulfide	2.508	76	188973	50.210	ug/l	100
17) Allyl chloride	2.660	41	125778	50.682	ug/l	98
18) Methylene Chloride	2.782	84	76235	51.081	ug/l	98
19) trans-1,2-Dichloroethene	3.087	96	68253	50.843	ug/l	94
20) Diisopropyl ether	3.751	45	243734	51.107	ug/l	96
21) 1,1-Dichloroethane	3.599	63	131223	49.475	ug/l	100
22) cis-1,2-Dichloroethene	4.477	96	79440	49.382	ug/l	97
23) tert-Butyl Alcohol	2.959	59	69182	262.986	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	218792	50.521	ug/l	99
25) Chloroform	5.086	83	128252	50.062	ug/l	99
26) Cyclohexane	5.458	56	124373	50.802	ug/l #	98
29) 1,1-Dichloropropene	5.684	75	90516	51.038	ug/l	99
30) 2-Butanone	4.544	43	267770	261.401	ug/l	99
31) 2,2-Dichloropropane	4.465	77	101966	50.846	ug/l	100
32) 1,1,1-Trichloroethane	5.373	97	110282	51.322	ug/l	99
33) Carbon Tetrachloride	5.672	117	92530	51.023	ug/l	99
34) Benzene	6.031	78	286826	51.573	ug/l	98
35) Methacrylonitrile	4.910	41	59021	53.843	ug/l	98
36) 1,2-Dichloroethane	6.080	62	96405	50.630	ug/l	98
37) Trichloroethene	7.116	130	66131	50.826	ug/l	95
38) Methylcyclohexane	7.373	83	122650	51.506	ug/l	98
39) 1,2-Dichloropropane	7.421	63	68553	49.579	ug/l	97
40) Dibromomethane	7.574	93	50034	50.426	ug/l	99
41) Bromodichloromethane	7.818	83	100442	50.932	ug/l	99
42) Vinyl Acetate	3.715	43	1047506	263.518	ug/l	100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022125\
Data File : VX045010.D
Acq On : 21 Feb 2025 10:44
Operator : JC/MD
Sample : VSTDICC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 22 00:48:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X022125W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Feb 22 00:21:26 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC050

Manual Integrations APPROVED

Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.708	43	97995	51.012	ug/l	98
44) Isopropyl Acetate	6.330	43	165983	52.497	ug/l	99
45) 1,4-Dioxane	7.653	88	36320	1105.035	ug/l	98
46) Methyl methacrylate	7.690	41	82008	52.896	ug/l	99
47) n-amyl Acetate	10.841	43	148104	53.981	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	98986	52.075	ug/l	100
49) cis-1,3-Dichloropropene	8.360	75	110953	51.564	ug/l	99
50) 1,1,2-Trichloroethane	9.147	97	66444	51.339	ug/l	97
51) Ethyl methacrylate	9.110	69	108669	53.387	ug/l	97
52) 1,3-Dichloropropane	9.305	76	116358	51.310	ug/l	99
53) Dibromochloromethane	9.518	129	73437	51.304	ug/l	96
54) 1,2-Dibromoethane	9.604	107	67926	51.685	ug/l	99
55) 2-Chloroethyl vinyl ether	8.238	63	272372	260.575	ug/l	100
56) Bromoform	10.799	173	47891	53.392	ug/l	99
58) 4-Methyl-2-Pentanone	8.567	43	543908	267.752	ug/l	100
59) 2-Hexanone	9.427	43	398198	271.195	ug/l	99
61) Tetrachloroethene	9.269	164	54607	49.659	ug/l	94
62) Toluene	8.714	91	296930	50.195	ug/l	100
64) Chlorobenzene	10.073	112	185159	50.511	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.159	131	60773	50.244	ug/l	99
66) Ethyl Benzene	10.189	91	330414	51.018	ug/l	98
67) m/p-Xylenes	10.299	106	244916	101.498	ug/l	97
68) o-Xylene	10.640	106	120934	51.080	ug/l	100
69) Styrene	10.652	104	202875	51.306	ug/l	99
70) Isopropylbenzene	10.957	105	310911	50.888	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.207	83	104665	52.096	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	86752m	52.499	ug/l	
73) Bromobenzene	11.195	156	72207	51.338	ug/l	99
74) n-propylbenzene	11.299	91	377855	51.970	ug/l	99
75) 2-Chlorotoluene	11.360	91	223666	50.885	ug/l	100
76) 1,3,5-Trimethylbenzene	11.445	105	260432	51.669	ug/l	99
77) t-1,4-Dichloro-2-butene	11.012	75	29634	53.302	ug/l	95
78) 4-Chlorotoluene	11.451	91	250953	51.217	ug/l	99
79) tert-butylbenzene	11.713	119	264815	52.144	ug/l	98
80) 1,2,4-Trimethylbenzene	11.750	105	263122	52.114	ug/l	100
81) sec-Butylbenzene	11.884	105	328940	51.608	ug/l	100
82) p-Isopropyltoluene	12.006	119	269490	52.183	ug/l	98
83) 1,3-Dichlorobenzene	11.963	146	134685	51.467	ug/l	98
84) 1,4-Dichlorobenzene	12.036	146	135436	52.490	ug/l	99
85) n-Butylbenzene	12.329	91	249242	52.851	ug/l	98
86) Hexachloroethane	12.536	117	47866	52.555	ug/l	98
87) 1,2-Dichlorobenzene	12.329	146	133123	51.846	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.939	75	19763	50.807	ug/l	97
89) 1,2,4-Trichlorobenzene	13.585	180	80472	51.710	ug/l	99
90) Hexachlorobutadiene	13.725	225	31734	50.003	ug/l	99
91) Naphthalene	13.774	128	288823	52.634	ug/l	99
92) 1,2,3-Trichlorobenzene	13.957	180	81734	51.015	ug/l	99

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

ICAL Form

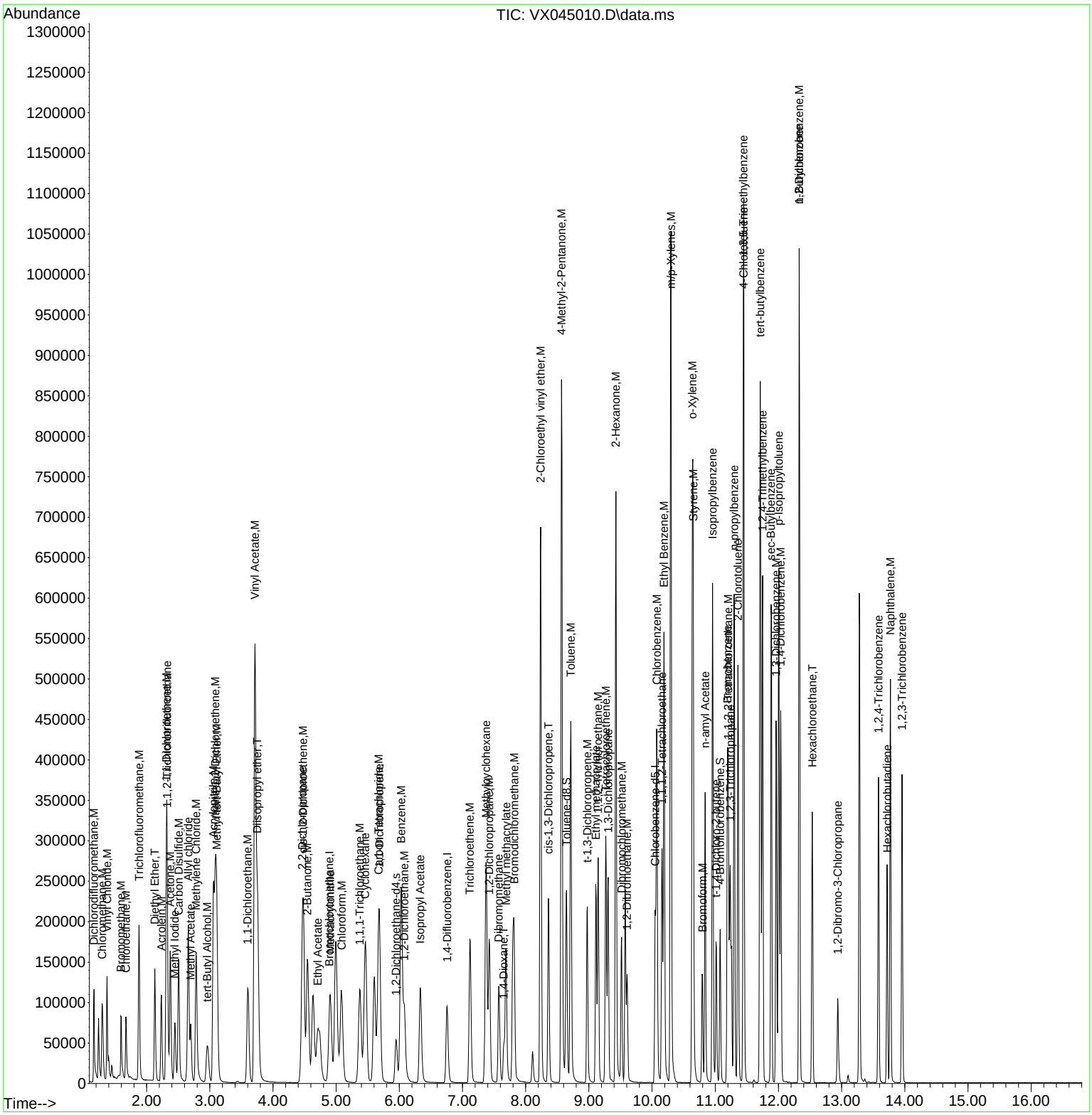
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022125\
Data File : VX045010.D
Acq On : 21 Feb 2025 10:44
Operator : JC/MD
Sample : VSTDICC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

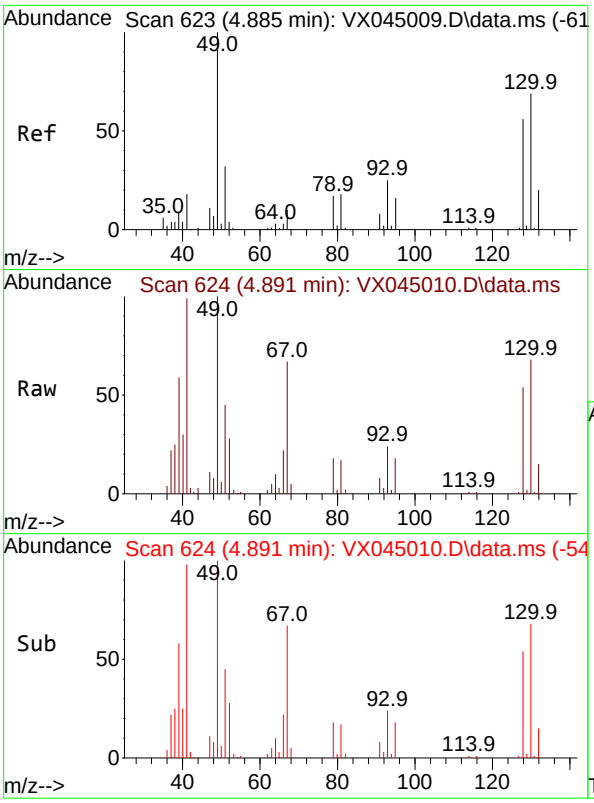
Quant Time: Feb 22 00:48:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X022125W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Feb 22 00:21:26 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC050

Manual Integrations APPROVED

Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

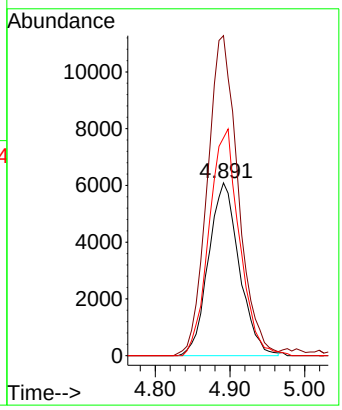




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.891 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion:128 Resp: 1746

Ion	Ratio	Lower	Upper
128	100		
49	185.3	0.0	449.7
130	129.3	0.0	312.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC050

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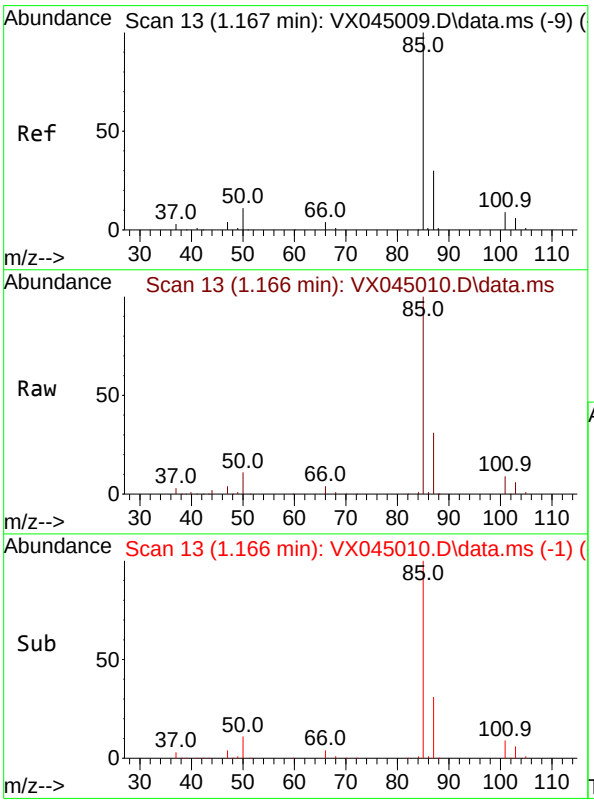
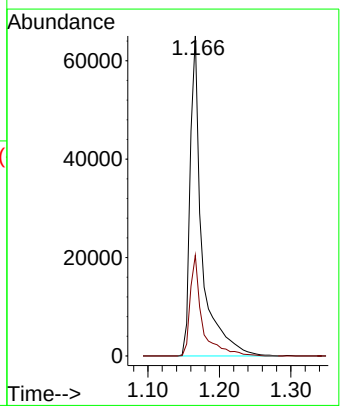
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

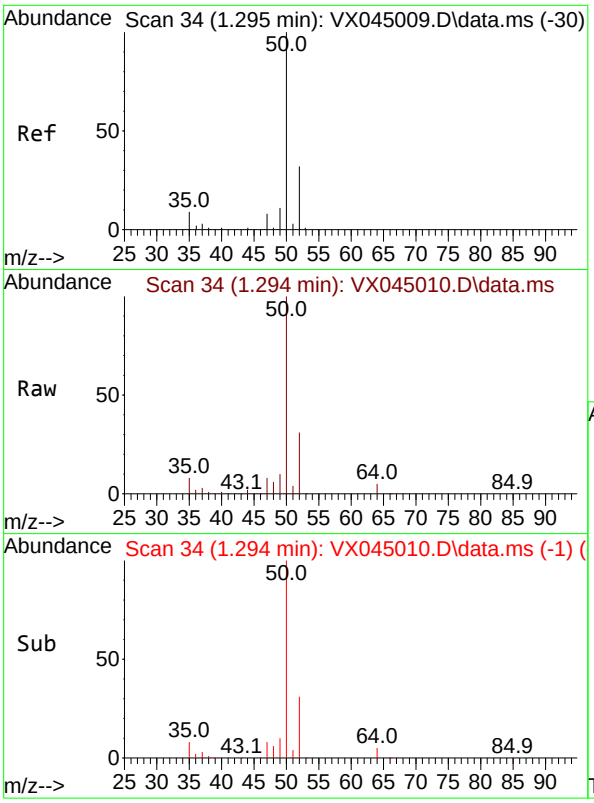


#2
Dichlorodifluoromethane
Concen: 50.833 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion: 85 Resp: 74849

Ion	Ratio	Lower	Upper
85	100		
87	31.5	15.1	45.3

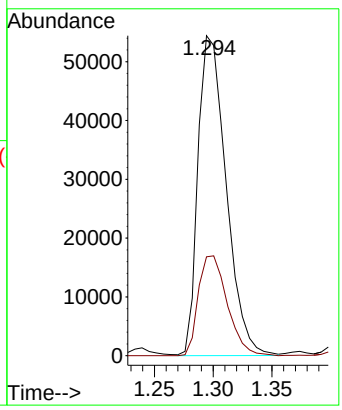




#3
Chloromethane
Concen: 51.472 ug/l
RT: 1.294 min Scan# 34
Delta R.T. -0.000 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion: 50 Resp: 9077

Ion	Ratio	Lower	Upper
50	100		
52	31.0	25.7	38.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC050

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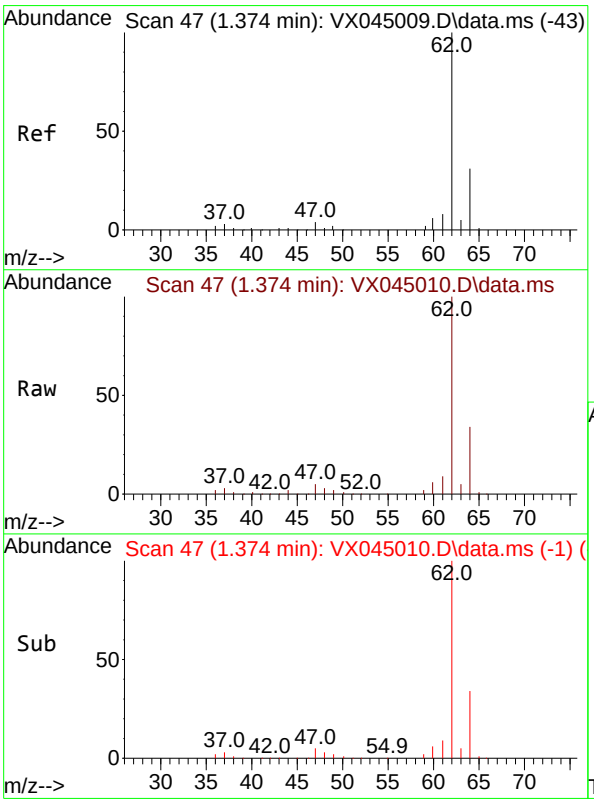
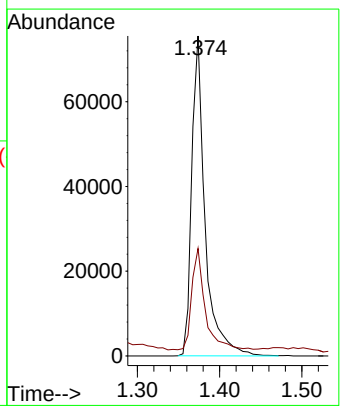
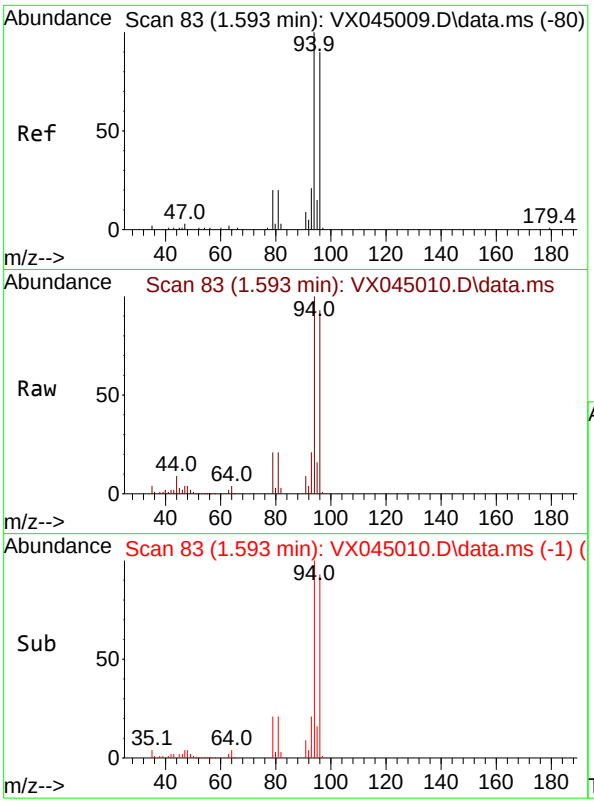


#4
Vinyl Chloride
Concen: 49.915 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion: 62 Resp: 84944

Ion	Ratio	Lower	Upper
62	100		
64	31.7	25.1	37.7

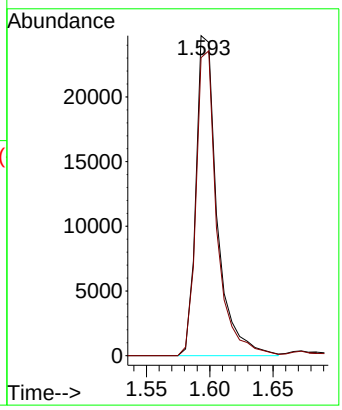




#5
Bromomethane
Concen: 48.894 ug/l
RT: 1.593 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion: 94 Resp: 2896

Ion	Ratio	Lower	Upper
94	100		
96	93.1	72.2	108.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC050

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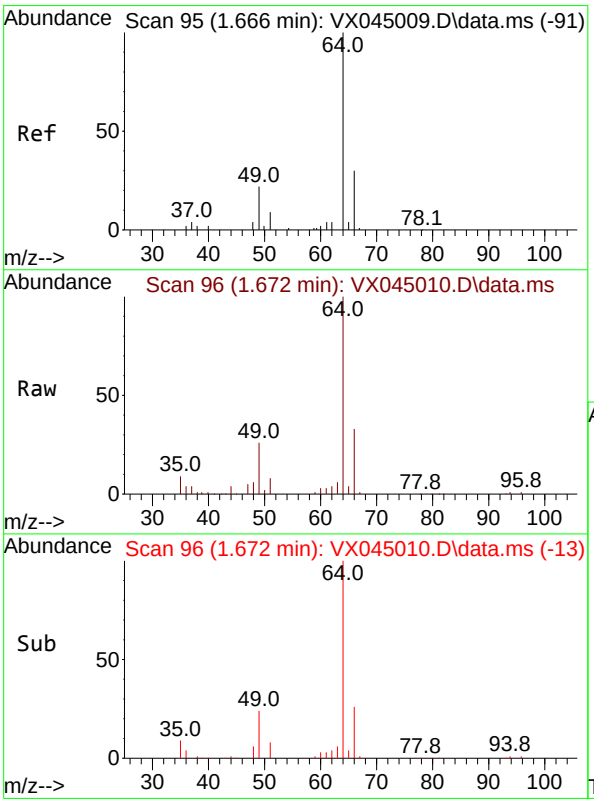
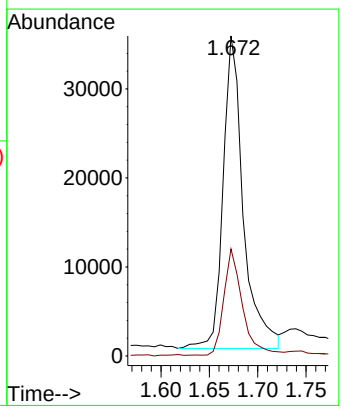
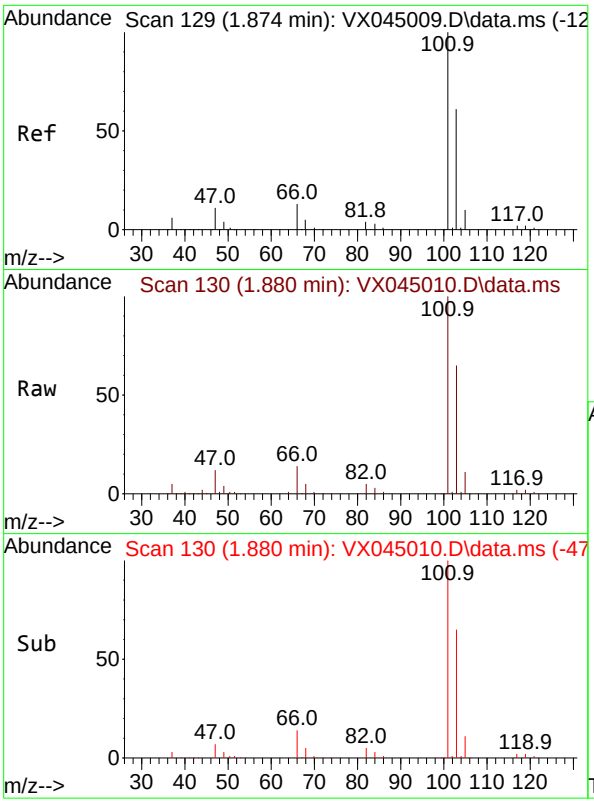


#6
Chloroethane
Concen: 55.346 ug/l
RT: 1.672 min Scan# 96
Delta R.T. 0.006 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion: 64 Resp: 51012

Ion	Ratio	Lower	Upper
64	100		
66	33.8	23.7	35.5

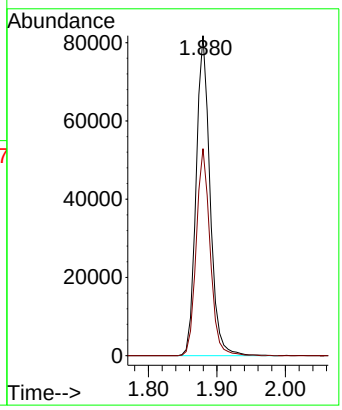




#7
Trichlorofluoromethane
Concen: 50.505 ug/l
RT: 1.880 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion:101 Resp: 11551

Ion	Ratio	Lower	Upper
101	100		
103	64.7	48.8	73.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC050

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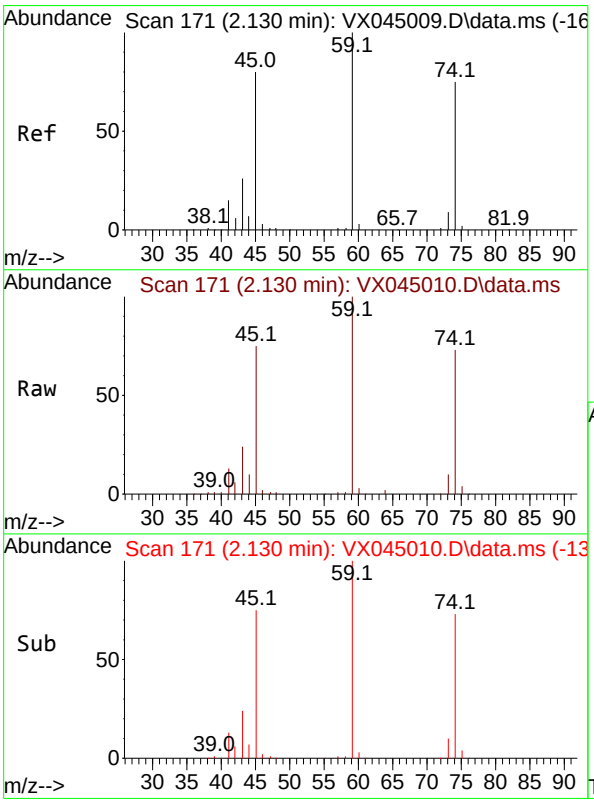
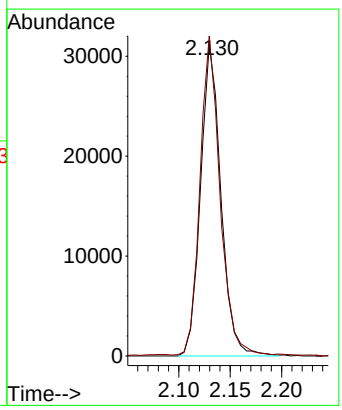
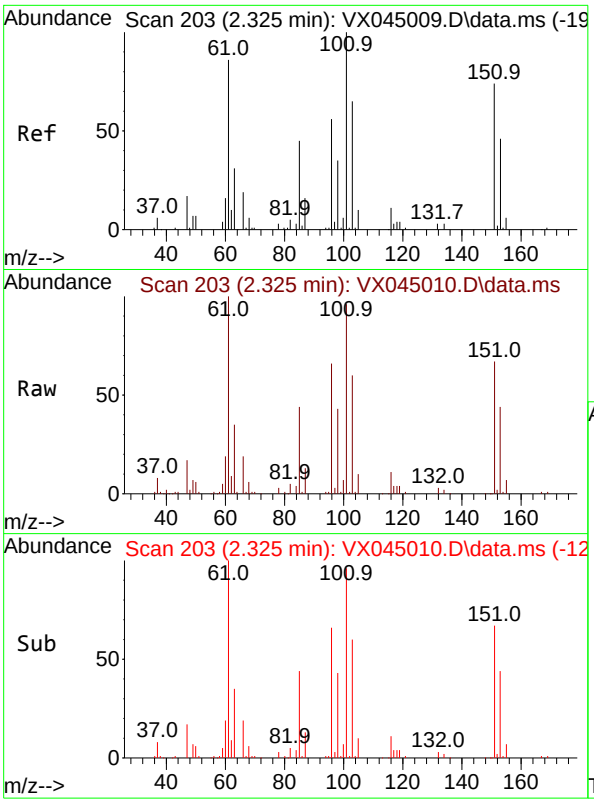


#8
Diethyl Ether
Concen: 49.726 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.000 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion: 74 Resp: 43032

Ion	Ratio	Lower	Upper
74	100		
45	101.2	20.8	186.8





#9
1,1,2-Trichlorotrifluoroethane
Concen: 50.609 ug/l
RT: 2.325 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion:101 Resp: 6875

Ion	Ratio	Lower	Upper
101	100		
85	45.0	0.0	90.6
151	70.2	0.0	147.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC050

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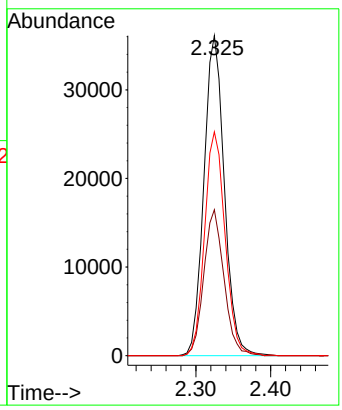
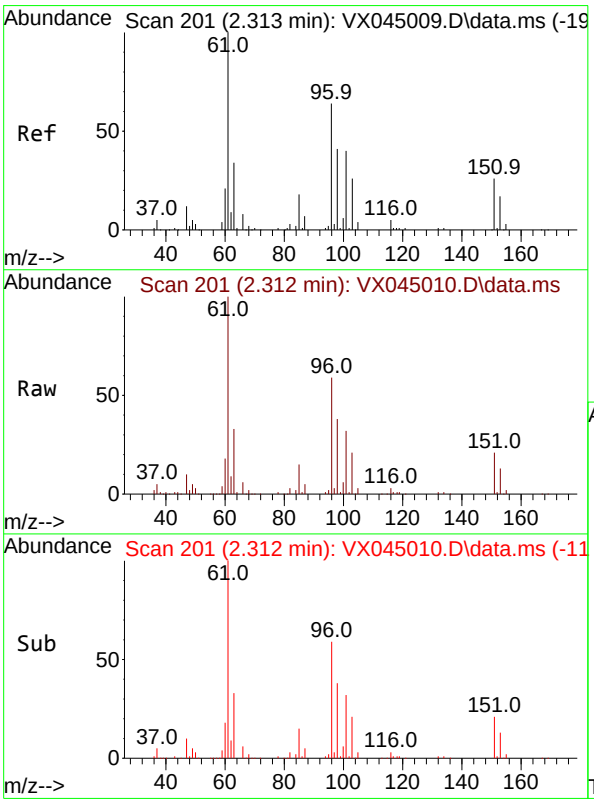
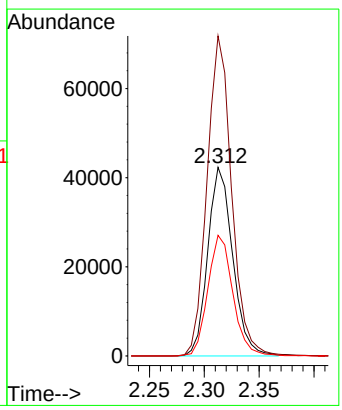


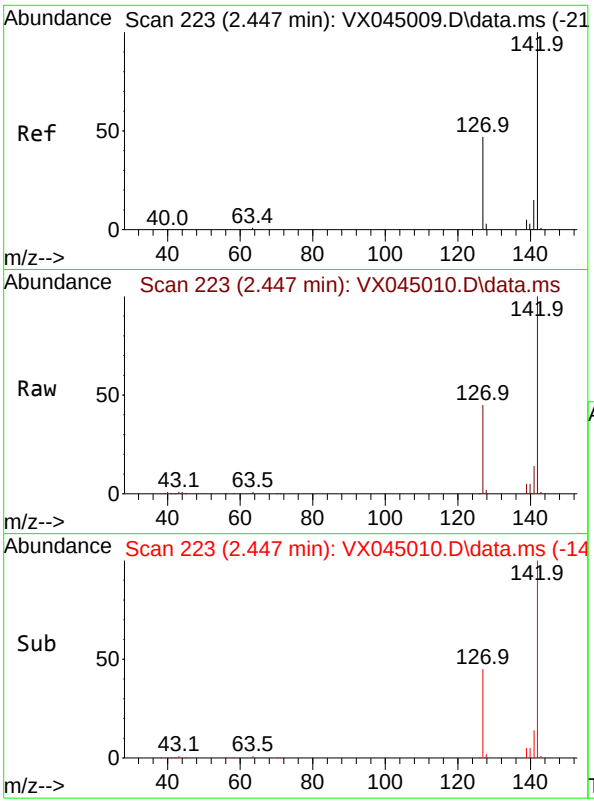


#10
1,1-Dichloroethene
Concen: 50.466 ug/l
RT: 2.312 min Scan# 201
Delta R.T. -0.000 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion: 96 Resp: 66962

Ion	Ratio	Lower	Upper
96	100		
61	169.5	124.2	186.2
98	64.0	51.1	76.7

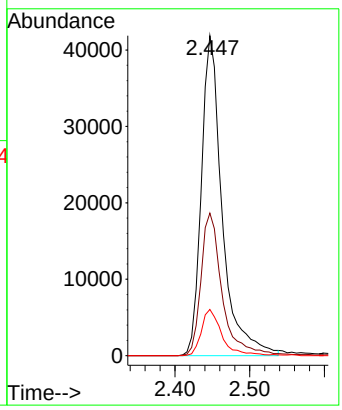




#11
Methyl Iodide
Concen: 54.046 ug/l
RT: 2.447 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion:142 Resp: 8116

Ion	Ratio	Lower	Upper
142	100		
127	44.6	23.3	69.9
141	14.4	7.5	22.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC050

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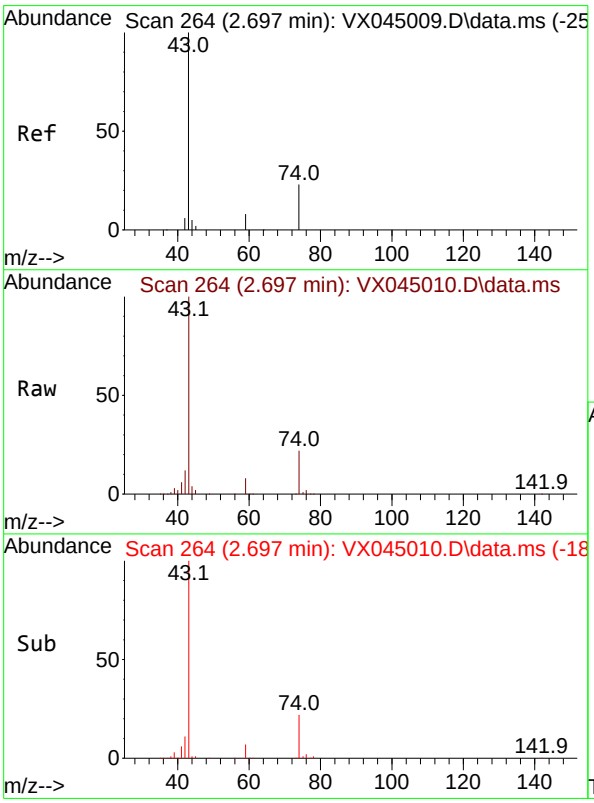
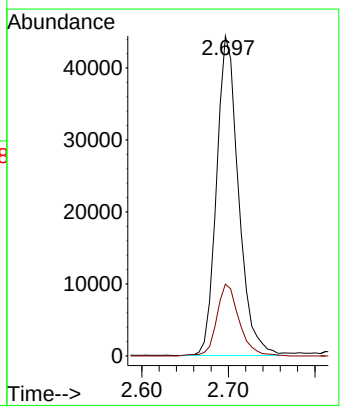
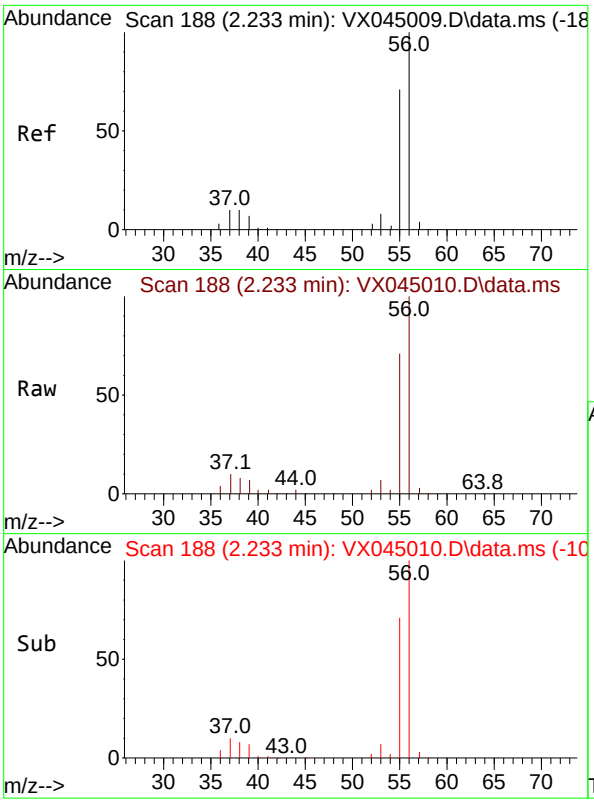


#12
Methyl Acetate
Concen: 50.808 ug/l
RT: 2.697 min Scan# 264
Delta R.T. -0.000 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion: 43 Resp: 78286

Ion	Ratio	Lower	Upper
43	100		
74	22.4	17.9	26.9

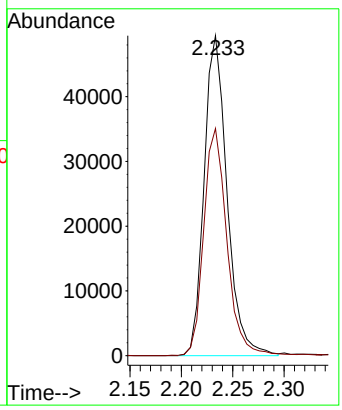




#13
Acrolein
Concen: 248.462 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion: 56 Resp: 7673

Ion	Ratio	Lower	Upper
56	100		
55	71.2	55.4	83.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC050

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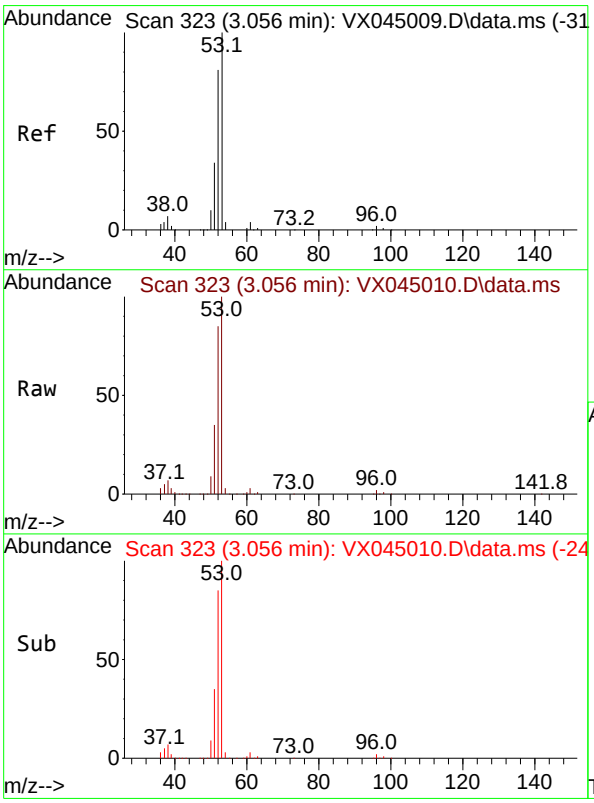
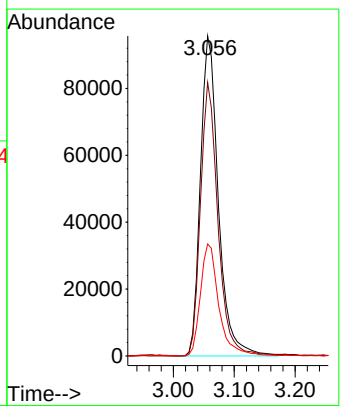
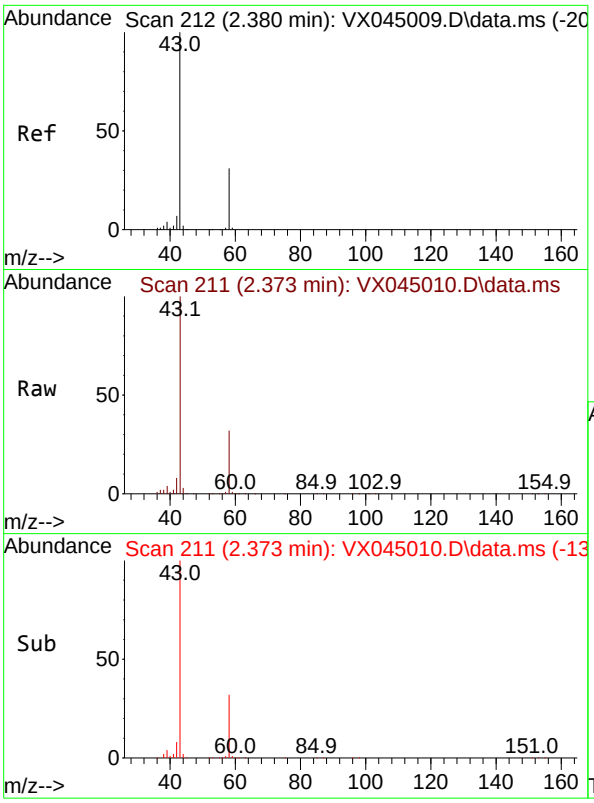


#14
Acrylonitrile
Concen: 260.667 ug/l
RT: 3.056 min Scan# 323
Delta R.T. -0.000 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion: 53 Resp: 196184

Ion	Ratio	Lower	Upper
53	100		
52	83.2	40.9	122.8
51	35.9	18.0	54.0

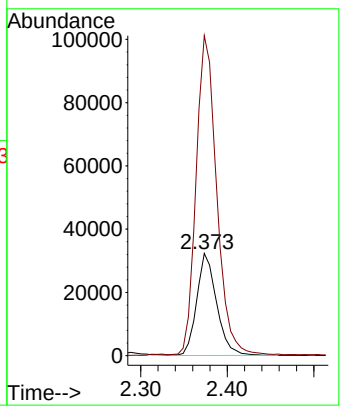




#15
Acetone
Concen: 249.418 ug/l
RT: 2.373 min Scan# 21
Delta R.T. -0.006 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion: 58 Resp: 5148

Ion	Ratio	Lower	Upper
58	100		
43	312.5	258.6	388.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC050

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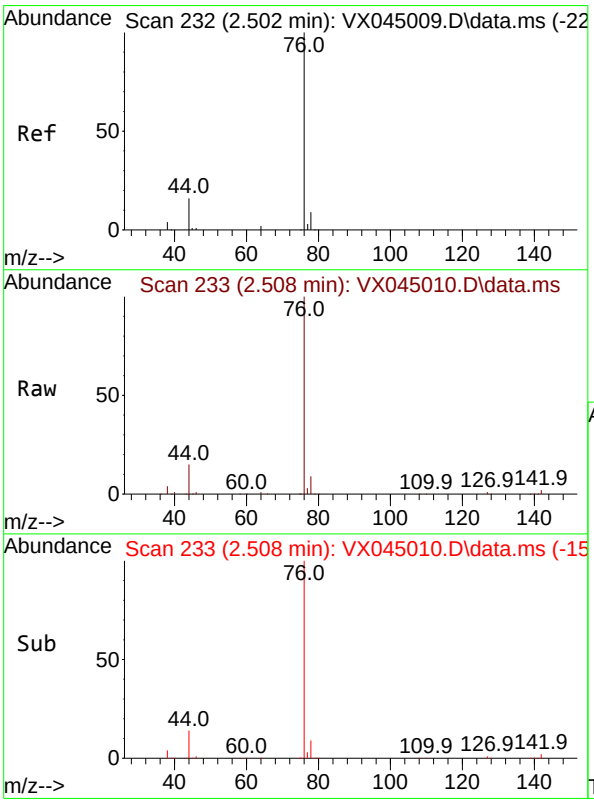
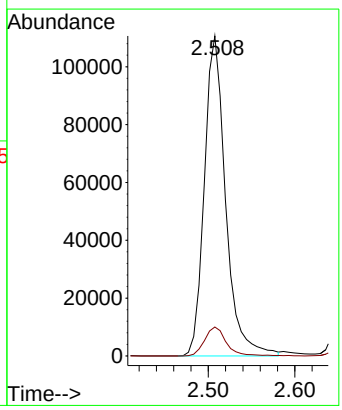
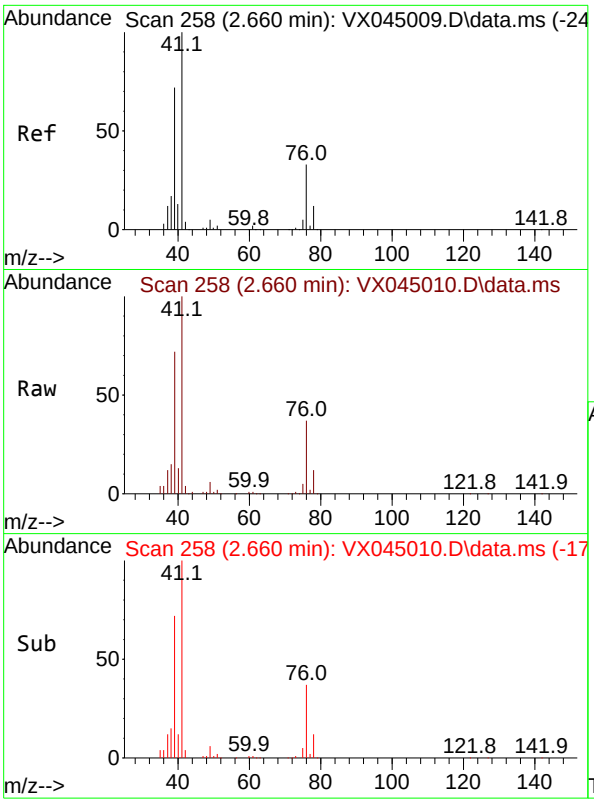


#16
Carbon Disulfide
Concen: 50.210 ug/l
RT: 2.508 min Scan# 233
Delta R.T. 0.006 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion: 76 Resp: 188973

Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.3	10.9

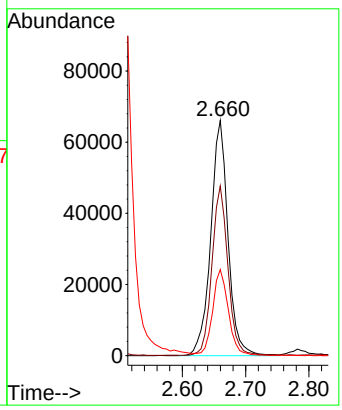




#17
Allyl chloride
Concen: 50.682 ug/l
RT: 2.660 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion: 41 Resp: 12577

Ion	Ratio	Lower	Upper
41	100		
39	72.0	36.2	108.6
76	36.5	17.2	51.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC050

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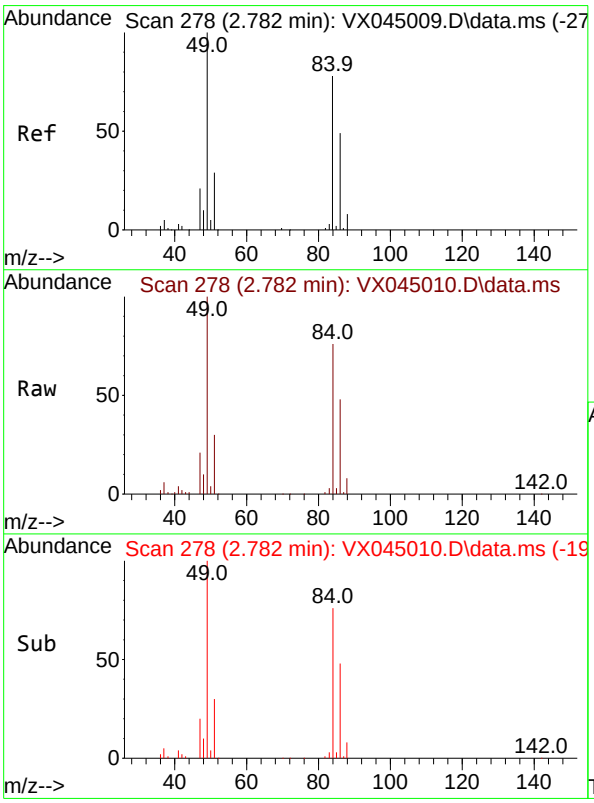
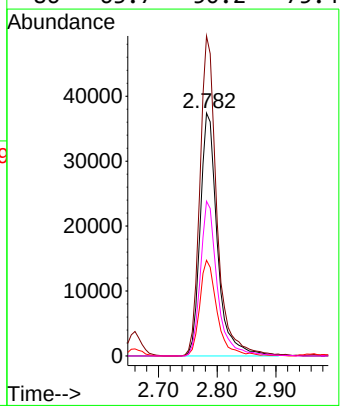
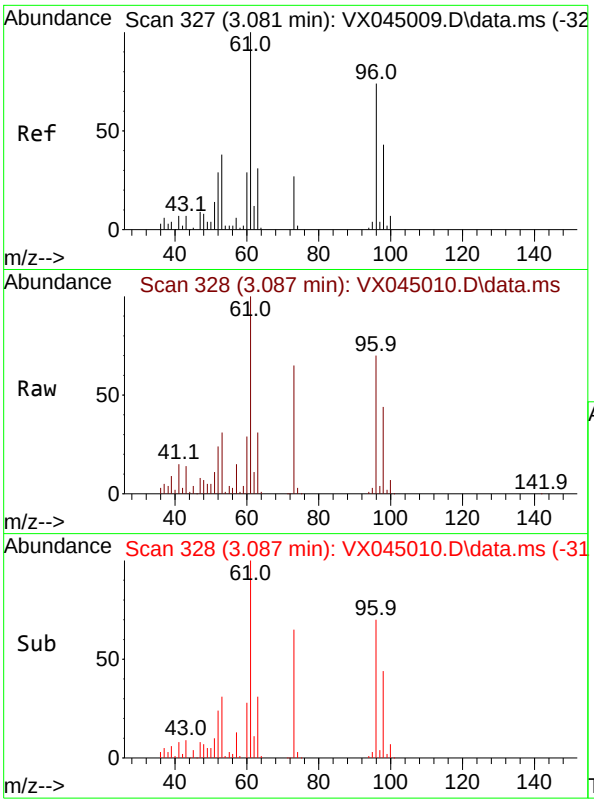


#18
Methylene Chloride
Concen: 51.081 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion: 84 Resp: 76235

Ion	Ratio	Lower	Upper
84	100		
49	131.8	102.8	154.2
51	39.4	30.1	45.1
86	63.7	50.2	75.4

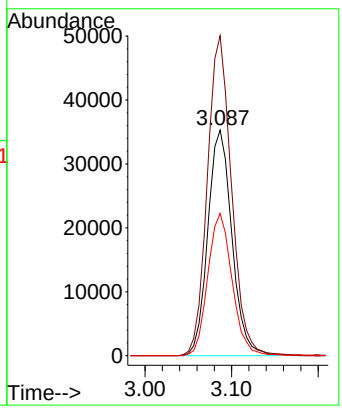




#19
trans-1,2-Dichloroethene
Concen: 50.843 ug/l
RT: 3.087 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion: 96 Resp: 6825

Ion	Ratio	Lower	Upper
96	100		
61	141.9	108.6	163.0
98	63.1	46.5	69.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC050

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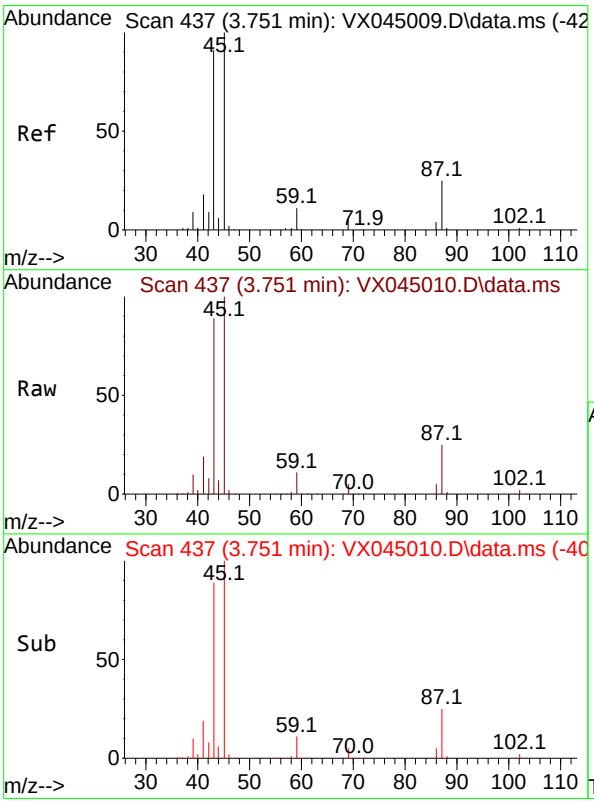
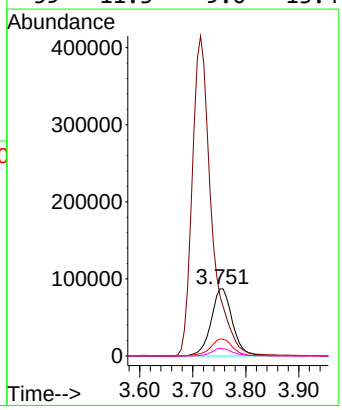
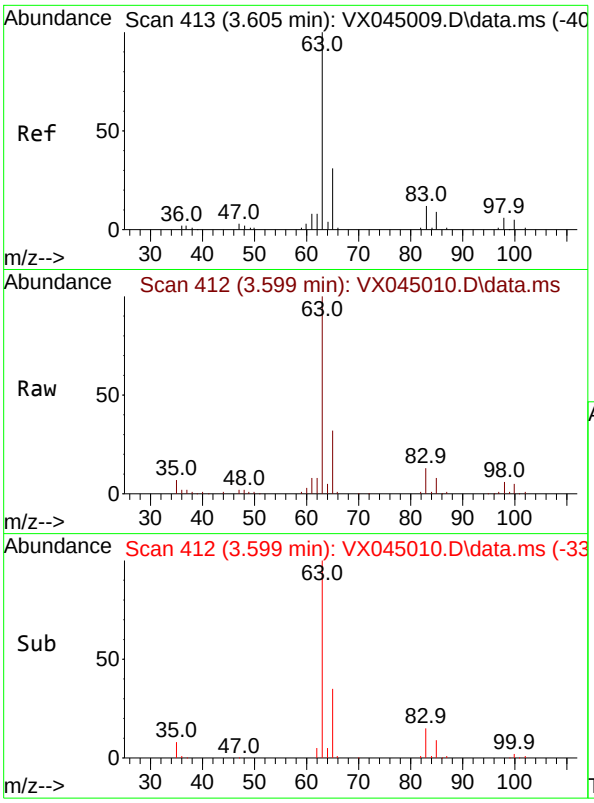


#20
Diisopropyl ether
Concen: 51.107 ug/l
RT: 3.751 min Scan# 437
Delta R.T. -0.000 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion: 45 Resp: 243734

Ion	Ratio	Lower	Upper
45	100		
43	87.9	74.4	111.6
87	25.2	19.8	29.8
59	11.3	9.0	13.4

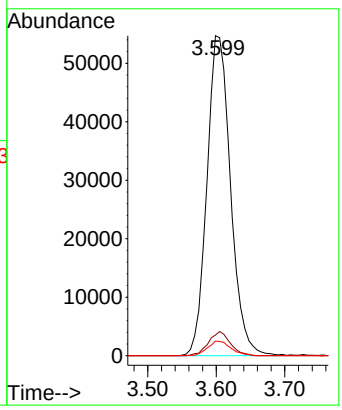




#21
1,1-Dichloroethane
Concen: 49.475 ug/l
RT: 3.599 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion: 63 Resp: 13122

Ion	Ratio	Lower	Upper
63	100		
98	6.5	3.3	9.8
100	4.6	2.4	7.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC050

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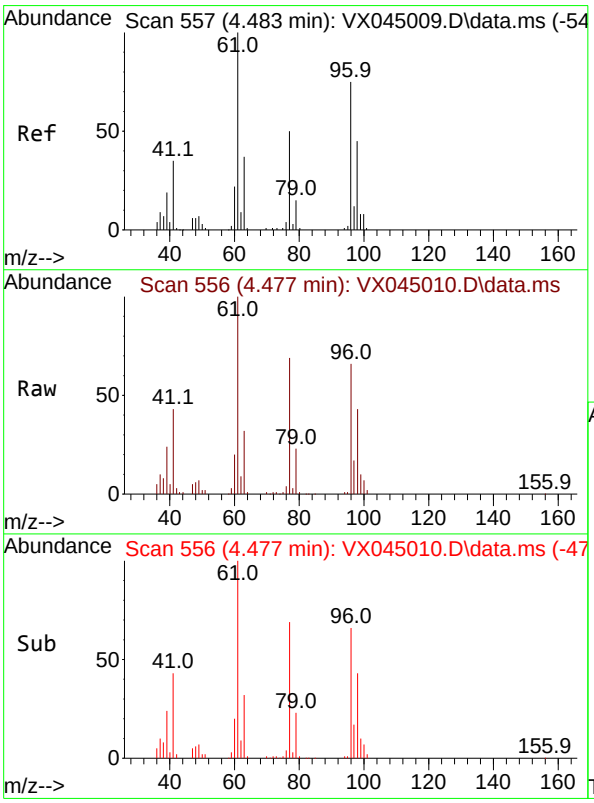
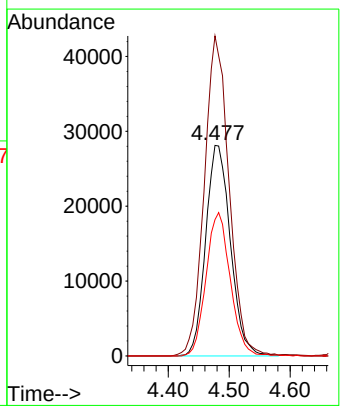
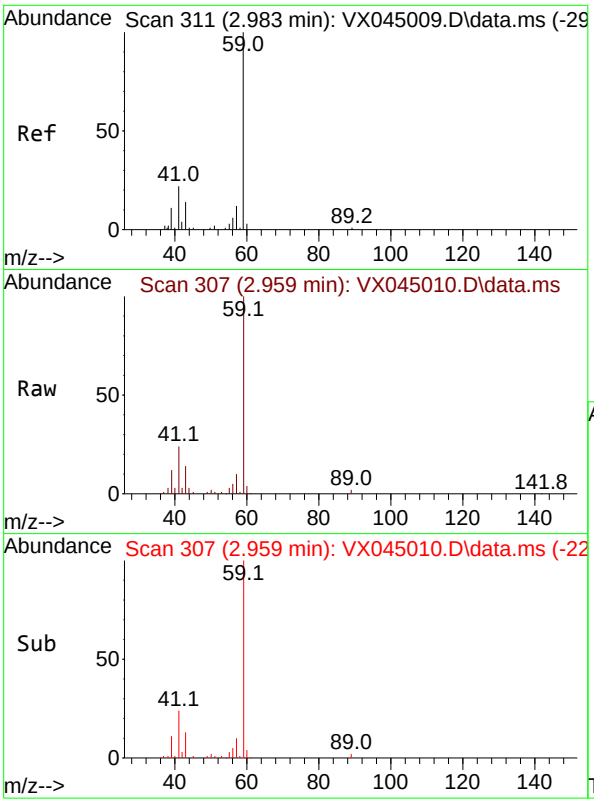


#22
cis-1,2-Dichloroethene
Concen: 49.382 ug/l
RT: 4.477 min Scan# 556
Delta R.T. -0.006 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion: 96 Resp: 79440

Ion	Ratio	Lower	Upper
96	100		
61	151.9	118.9	178.3
98	66.2	50.7	76.1

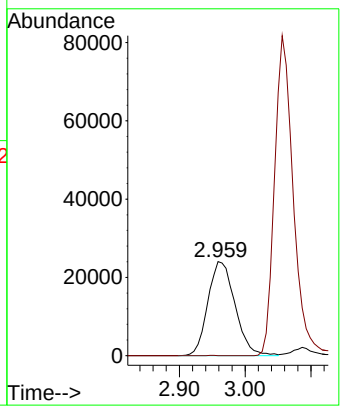




#23
tert-Butyl Alcohol
Concen: 262.986 ug/l
RT: 2.959 min Scan# 3
Delta R.T. -0.025 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion: 59 Resp: 6918

Ion	Ratio	Lower	Upper
59	100		
52	0.1	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
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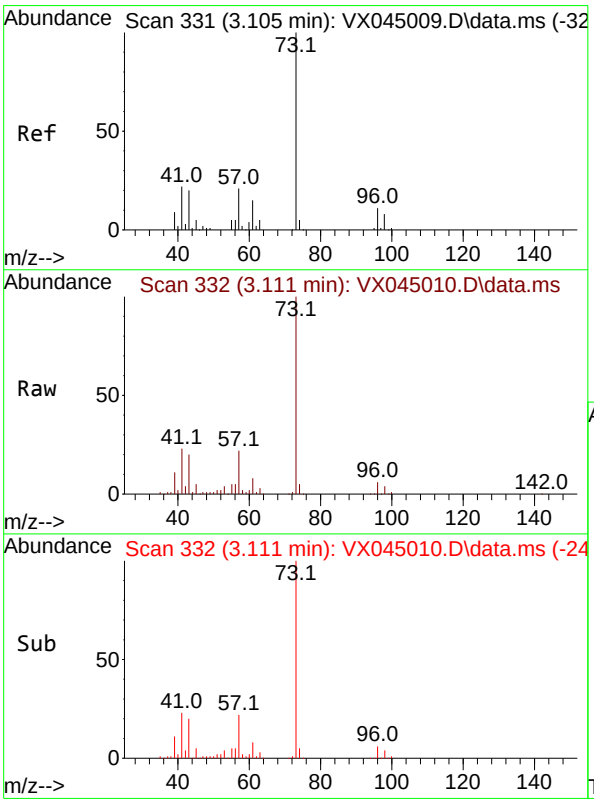
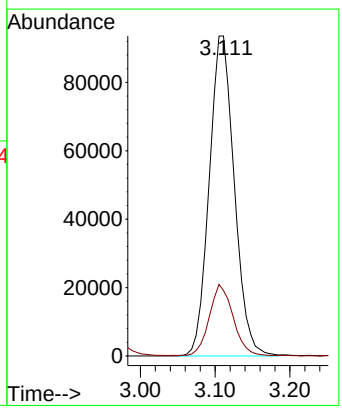
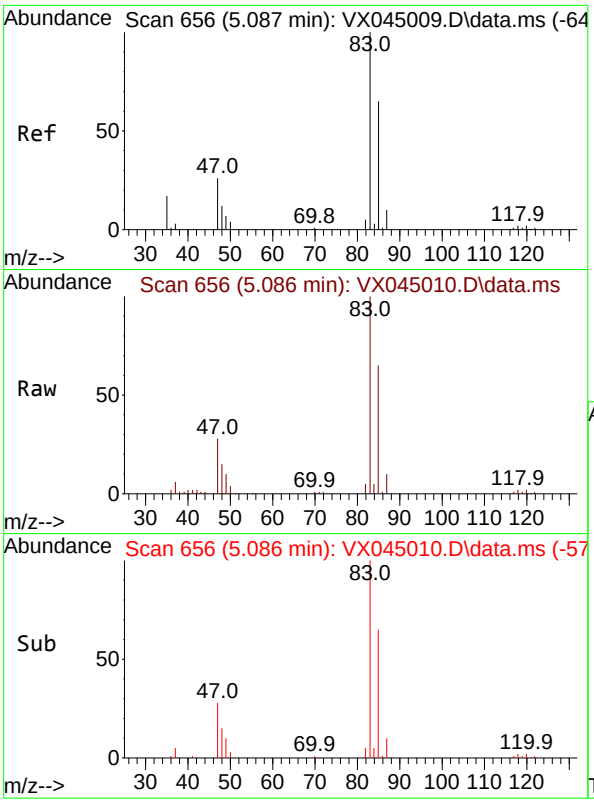


#24
Methyl tert-Butyl Ether
Concen: 50.521 ug/l
RT: 3.111 min Scan# 332
Delta R.T. 0.006 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion: 73 Resp: 218792

Ion	Ratio	Lower	Upper
73	100		
43	21.3	17.4	26.0

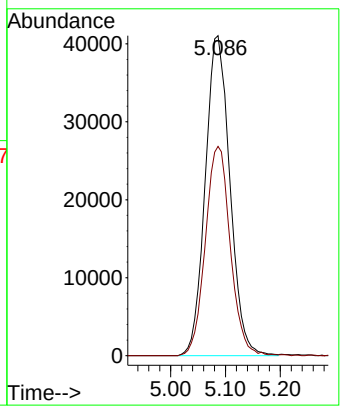




#25
Chloroform
Concen: 50.062 ug/l
RT: 5.086 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion: 83 Resp: 12825

Ion	Ratio	Lower	Upper
83	100		
85	65.4	51.7	77.5



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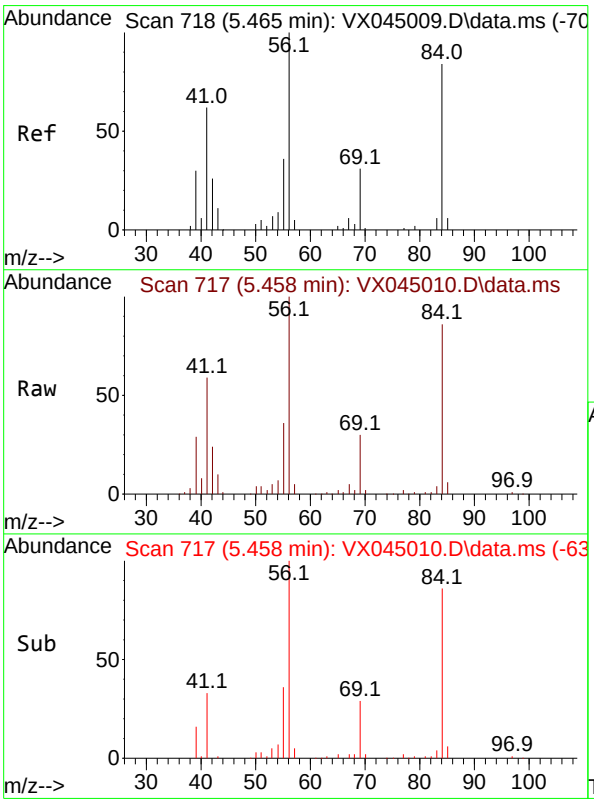
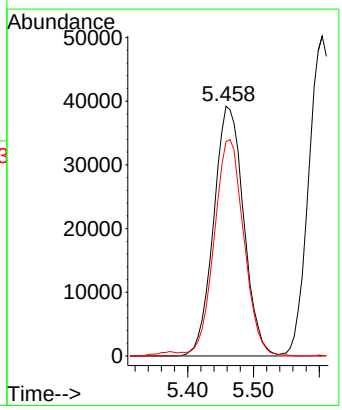
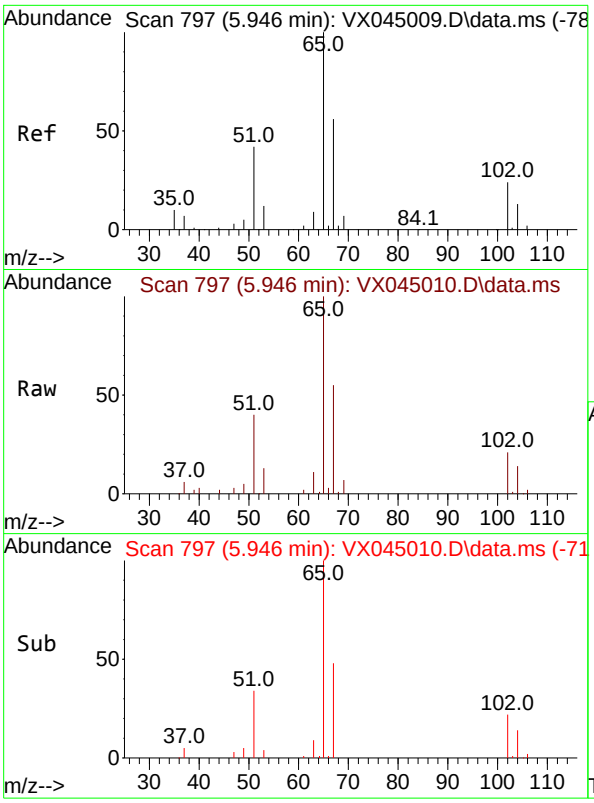


#26
Cyclohexane
Concen: 50.802 ug/l
RT: 5.458 min Scan# 717
Delta R.T. -0.006 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion: 56 Resp: 124373

Ion	Ratio	Lower	Upper
56	100		
89	0.0	0.0	0.0
84	85.6	67.1	100.7





#27
1,2-Dichloroethane-d4
Concen: 29.270 ug/l
RT: 5.946 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion: 65 Resp: 4965

Ion	Ratio	Lower	Upper
65	100		
67	53.7	42.6	64.0

Instrument :
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ClientSampleId :
VSTDICC050

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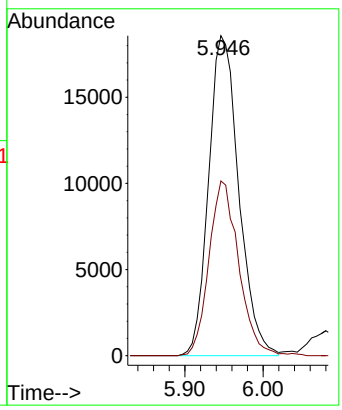
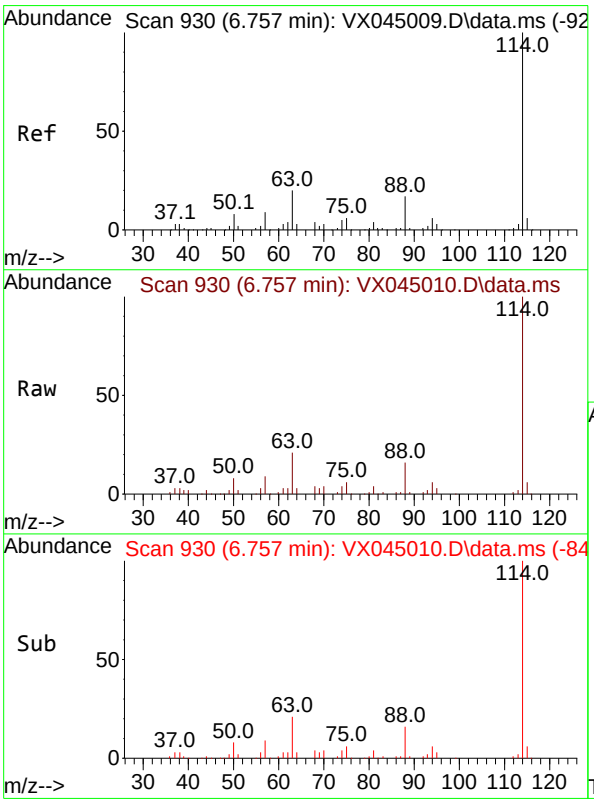
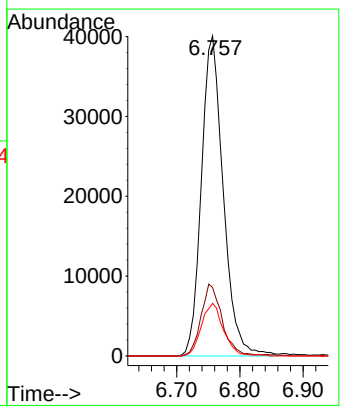


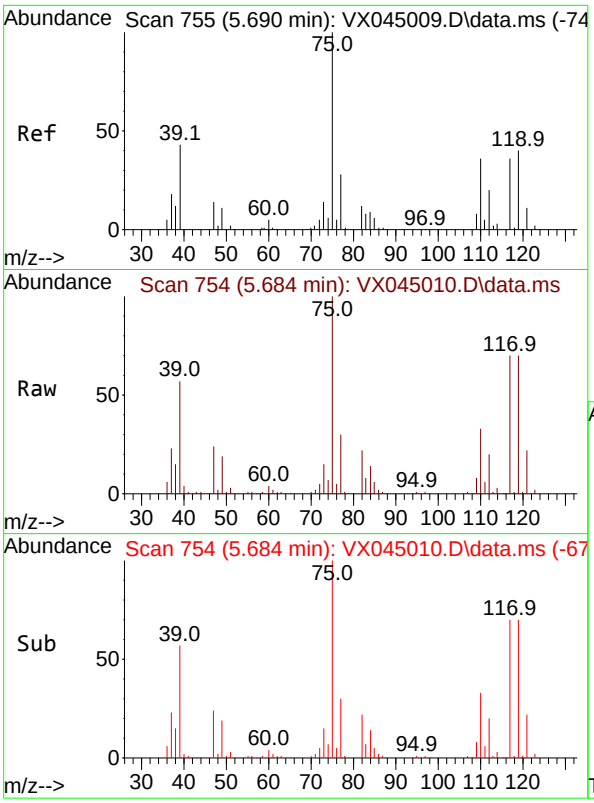


#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion:114 Resp: 96411

Ion	Ratio	Lower	Upper
114	100		
63	21.5	16.8	25.2
88	16.5	12.7	19.1

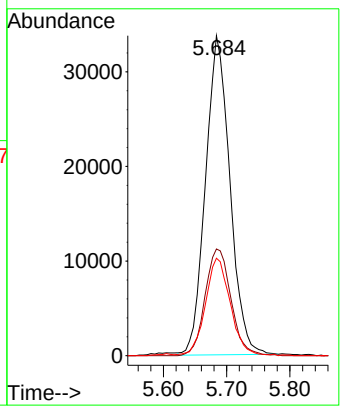




#29
1,1-Dichloropropene
Concen: 51.038 ug/l
RT: 5.684 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion: 75 Resp: 9051

Ion	Ratio	Lower	Upper
75	100		
110	35.3	0.0	69.2
77	31.2	0.0	61.0



Instrument :
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ClientSampleId :
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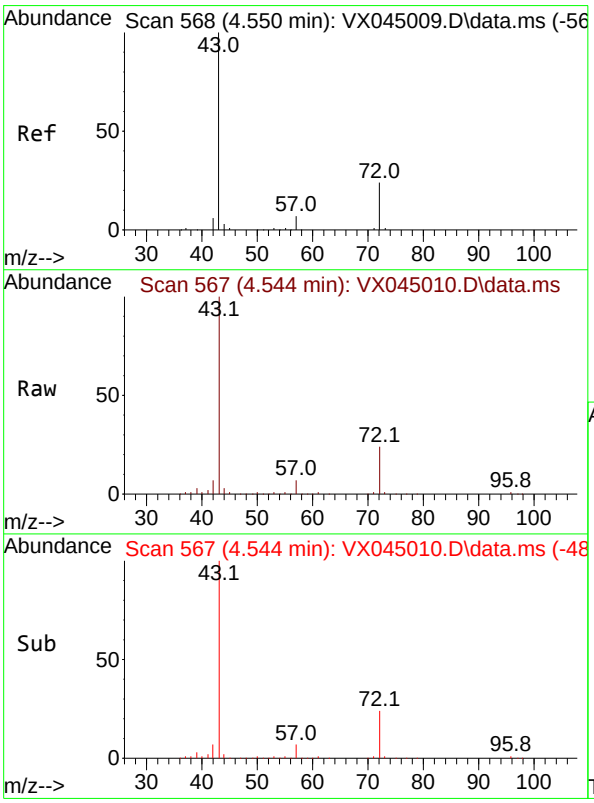
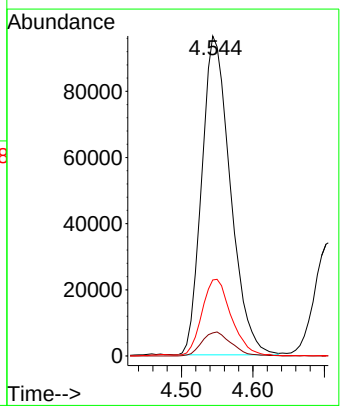
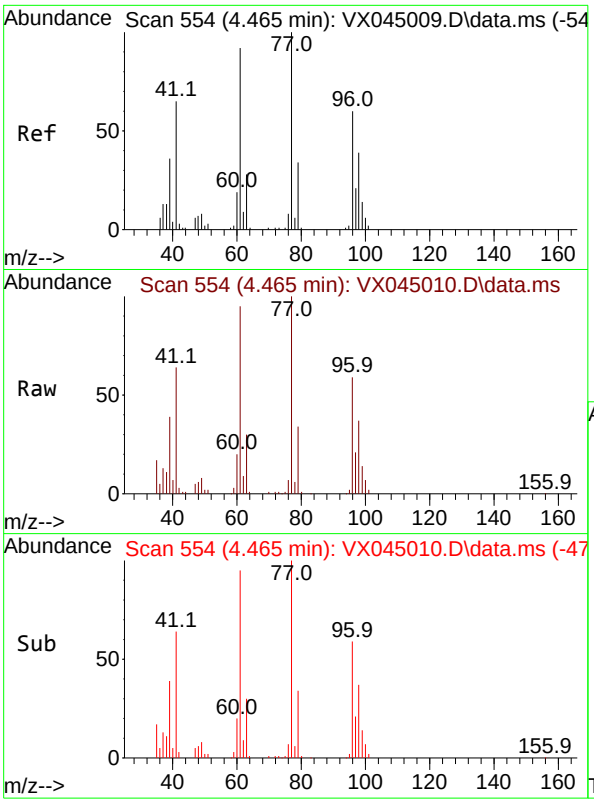


#30
2-Butanone
Concen: 261.401 ug/l
RT: 4.544 min Scan# 567
Delta R.T. -0.006 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion: 43 Resp: 267770

Ion	Ratio	Lower	Upper
43	100		
57	7.8	6.2	9.2
72	24.8	20.2	30.2

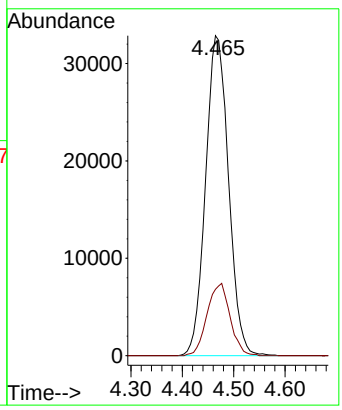




#31
2,2-Dichloropropane
Concen: 50.846 ug/l
RT: 4.465 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion: 77 Resp: 10196

Ion	Ratio	Lower	Upper
77	100		
97	22.5	18.0	27.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC050

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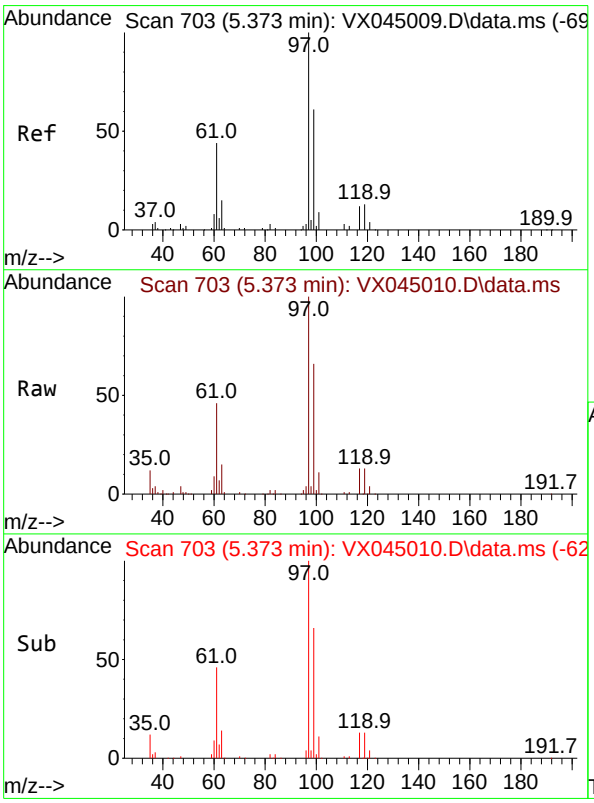
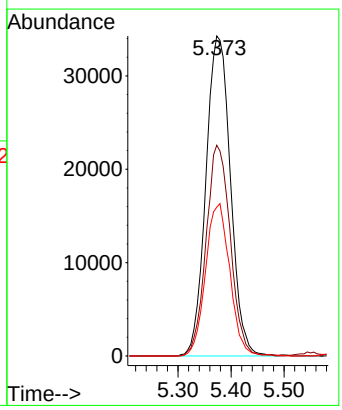
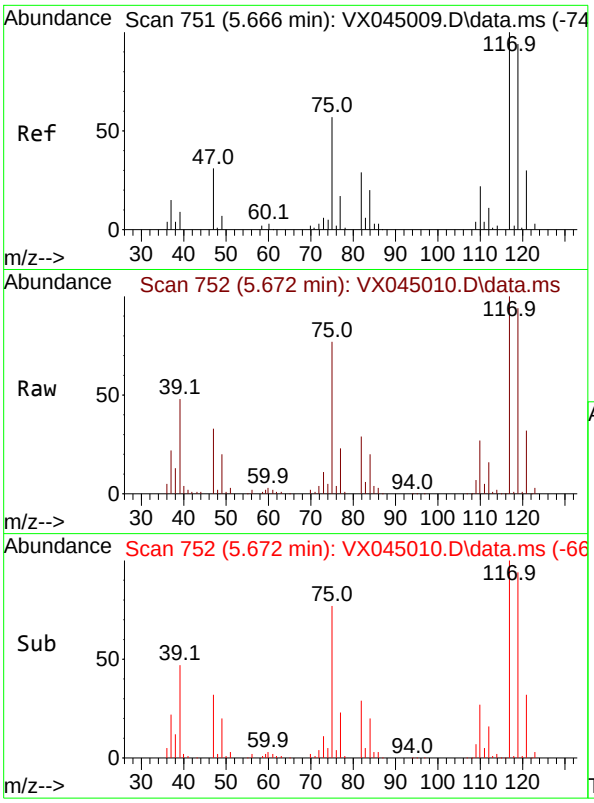


#32
1,1,1-Trichloroethane
Concen: 51.322 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion: 97 Resp: 110282

Ion	Ratio	Lower	Upper
97	100		
99	65.0	52.2	78.2
61	46.9	38.5	57.7

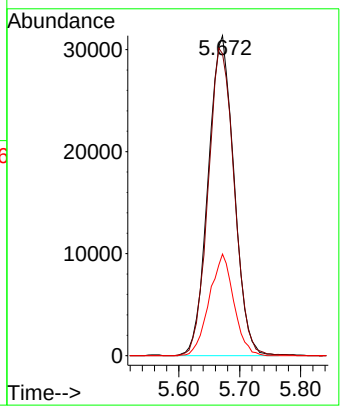




#33
Carbon Tetrachloride
Concen: 51.023 ug/l
RT: 5.672 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion:117 Resp: 9253

Ion	Ratio	Lower	Upper
117	100		
119	94.1	75.1	112.7
121	31.7	23.9	35.9



Instrument :
MSVOA_X
ClientSampleId :
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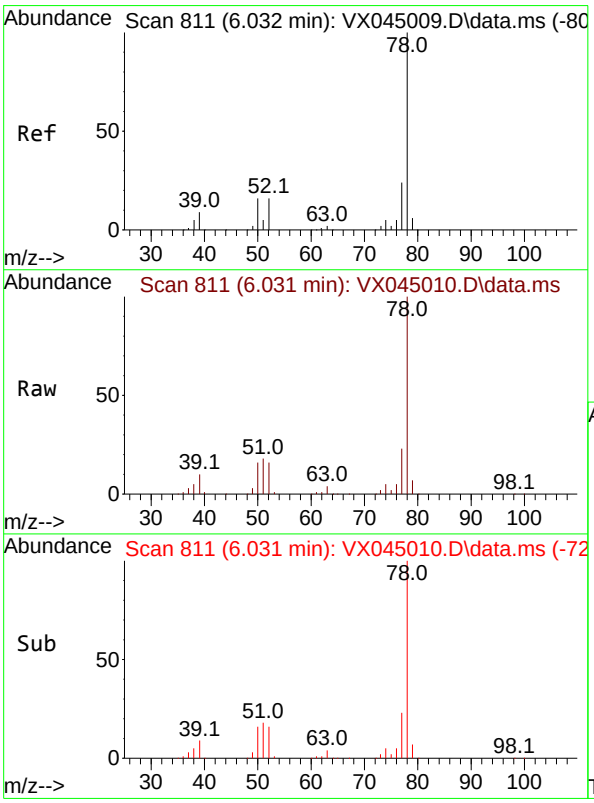
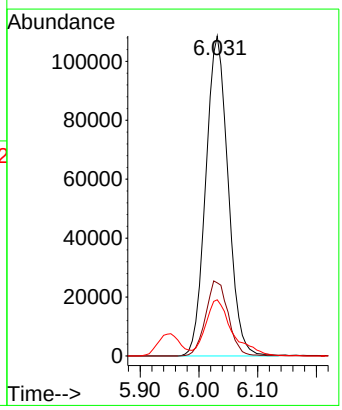
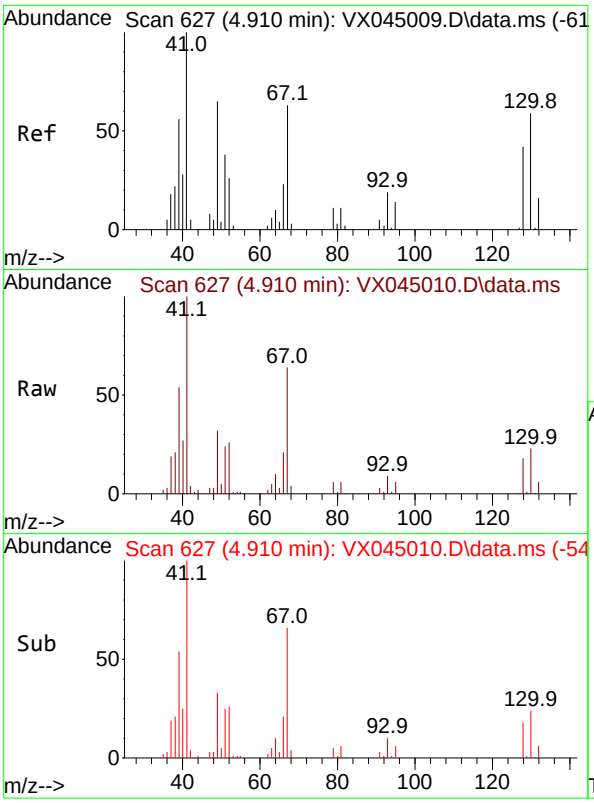


#34
Benzene
Concen: 51.573 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion: 78 Resp: 286826

Ion	Ratio	Lower	Upper
78	100		
77	22.8	19.6	29.4
51	17.4	13.8	20.6

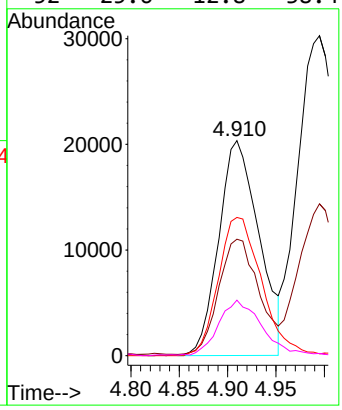




#35
Methacrylonitrile
Concen: 53.843 ug/l
RT: 4.910 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion: 41 Resp: 5902

Ion	Ratio	Lower	Upper
41	100		
39	53.7	27.8	83.4
67	64.4	31.5	94.5
52	25.6	12.8	38.4



Instrument :
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ClientSampleId :
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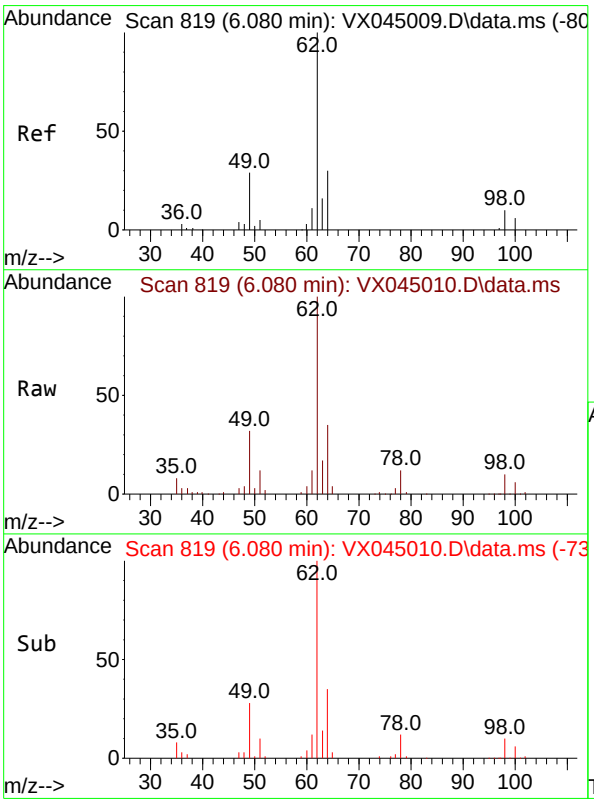
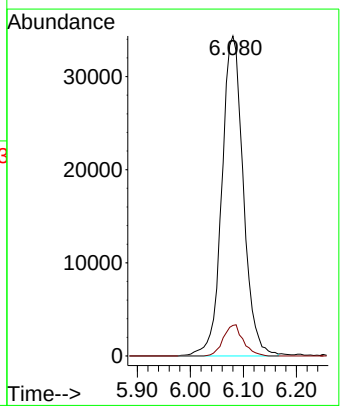
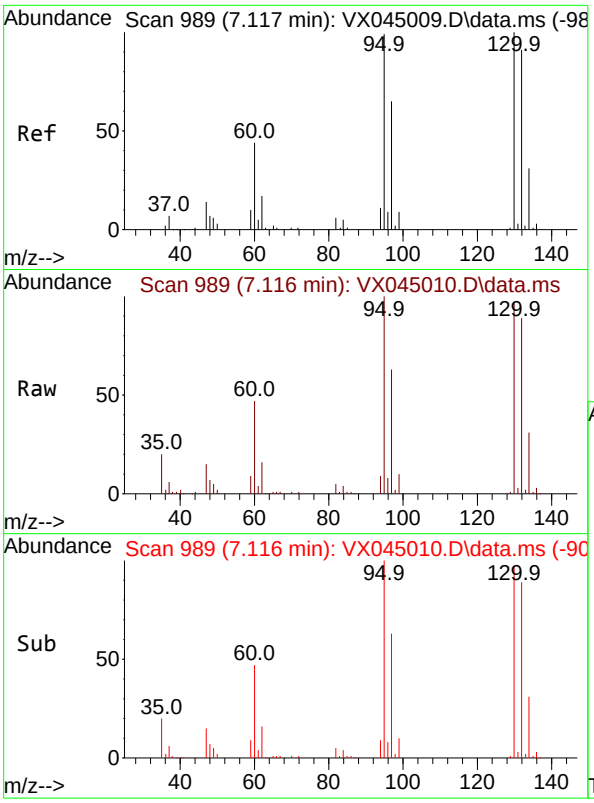


#36
1,2-Dichloroethane
Concen: 50.630 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.000 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion: 62 Resp: 96405

Ion	Ratio	Lower	Upper
62	100		
98	9.0	7.9	11.9

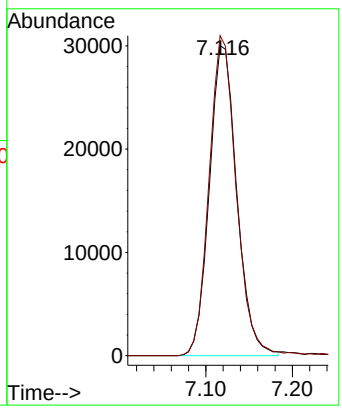




#37
Trichloroethene
Concen: 50.826 ug/l
RT: 7.116 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion:130 Resp: 6613

Ion	Ratio	Lower	Upper
130	100		
95	103.2	79.0	118.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC050

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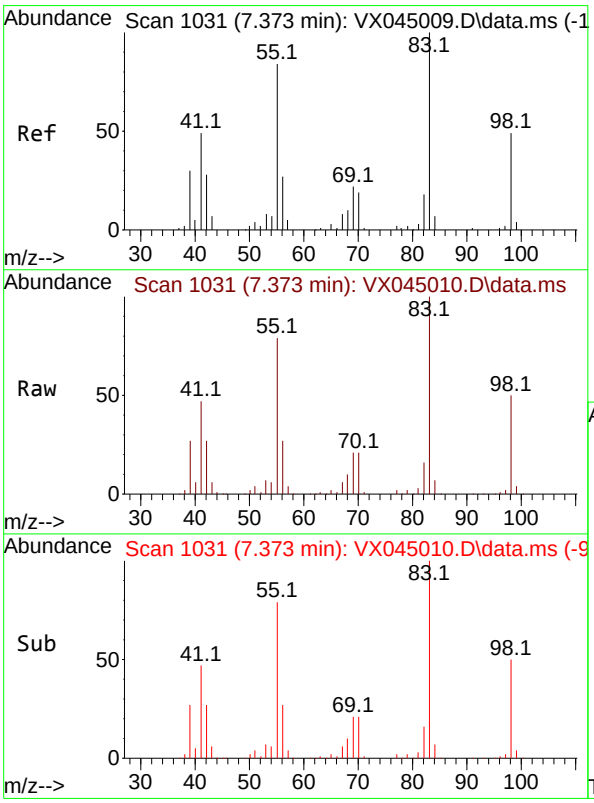
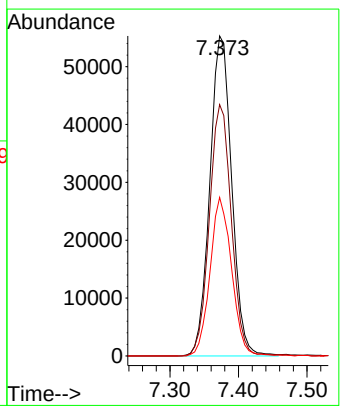
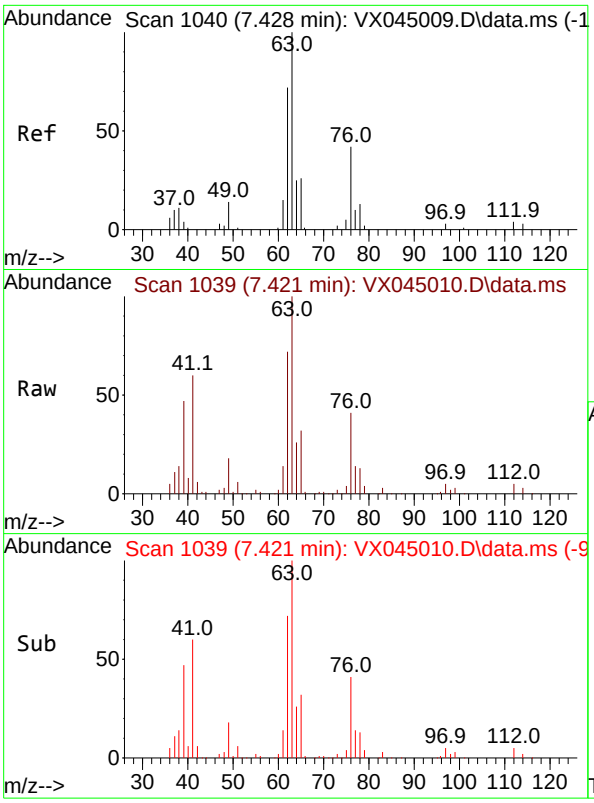


#38
Methylcyclohexane
Concen: 51.506 ug/l
RT: 7.373 min Scan# 1031
Delta R.T. -0.000 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion: 83 Resp: 122650

Ion	Ratio	Lower	Upper
83	100		
55	78.5	40.6	122.0
98	48.7	24.9	74.6

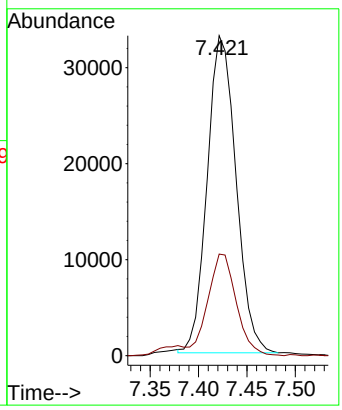




#39
1,2-Dichloropropane
Concen: 49.579 ug/l
RT: 7.421 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion: 63 Resp: 6855

Ion	Ratio	Lower	Upper
63	100		
65	31.8	24.3	36.5



Instrument :
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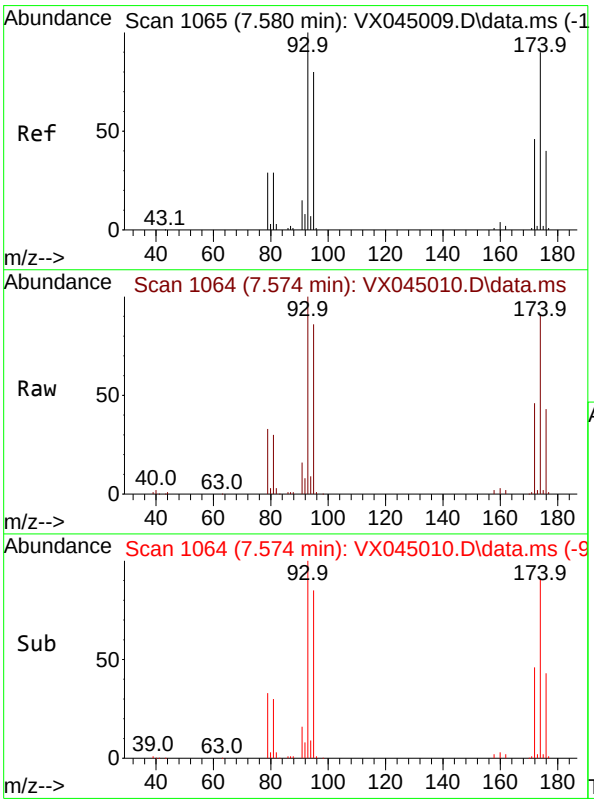
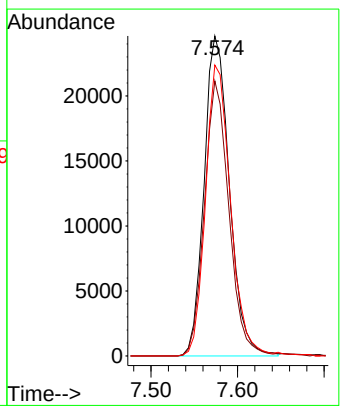
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

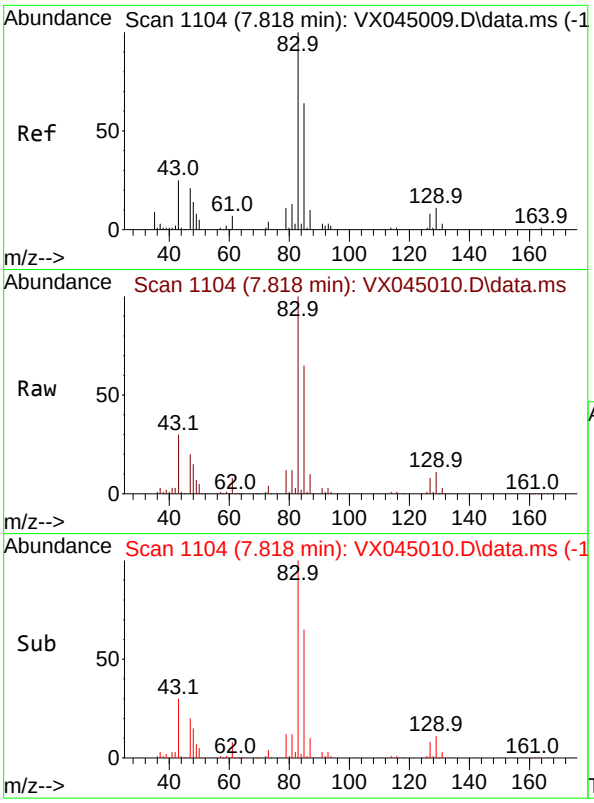


#40
Dibromomethane
Concen: 50.426 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. -0.006 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion: 93 Resp: 50034

Ion	Ratio	Lower	Upper
93	100		
95	82.9	0.0	162.6
174	89.6	0.0	178.8

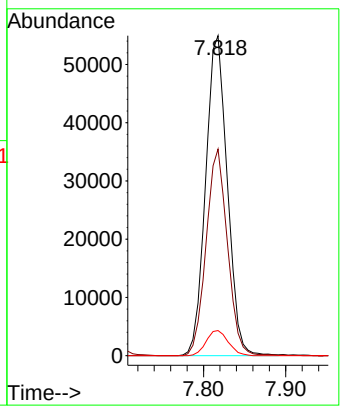




#41
Bromodichloromethane
Concen: 50.932 ug/l
RT: 7.818 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion: 83 Resp: 10044

Ion	Ratio	Lower	Upper
83	100		
85	64.6	51.0	76.6
127	7.8	6.1	9.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC050

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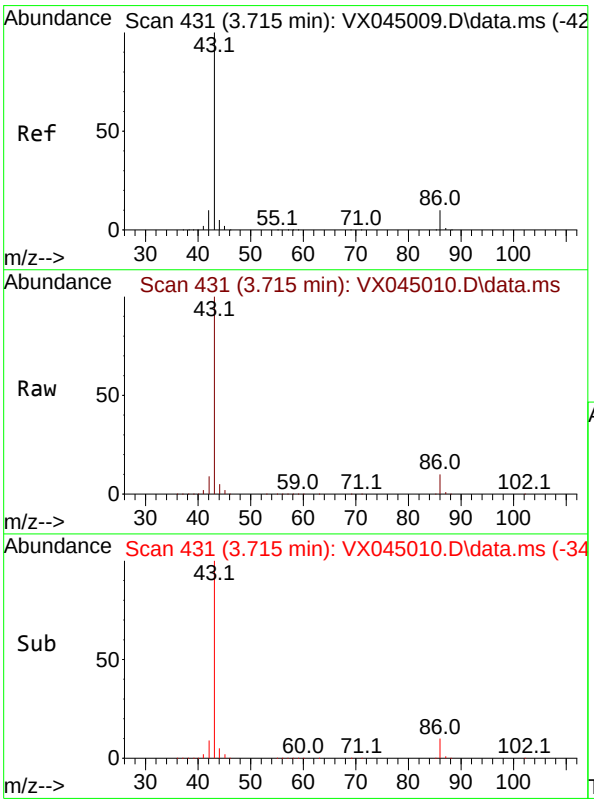
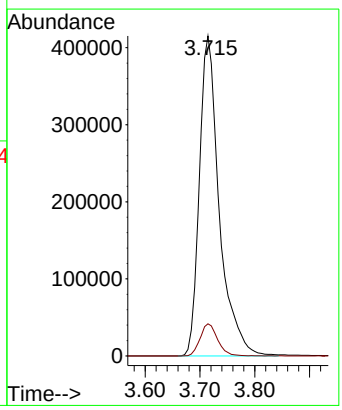
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

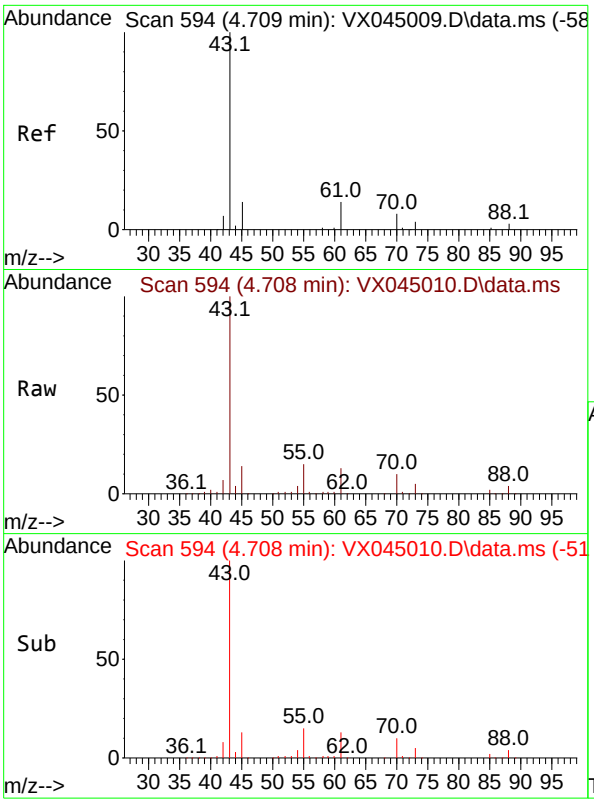


#42
Vinyl Acetate
Concen: 263.518 ug/l
RT: 3.715 min Scan# 431
Delta R.T. -0.000 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion: 43 Resp: 1047506

Ion	Ratio	Lower	Upper
43	100		
86	8.9	7.0	10.4





#43
Ethyl Acetate
Concen: 51.012 ug/l
RT: 4.708 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion: 43 Resp: 9799

Ion	Ratio	Lower	Upper
43	100		
45	15.1	12.7	19.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC050

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Reviewed By :John Carlone 02/24/2025
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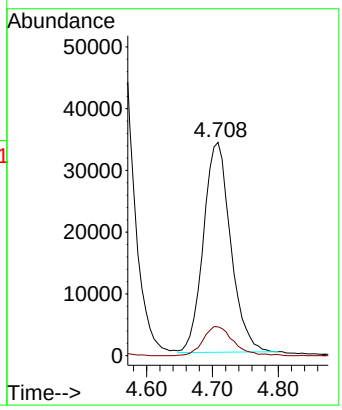
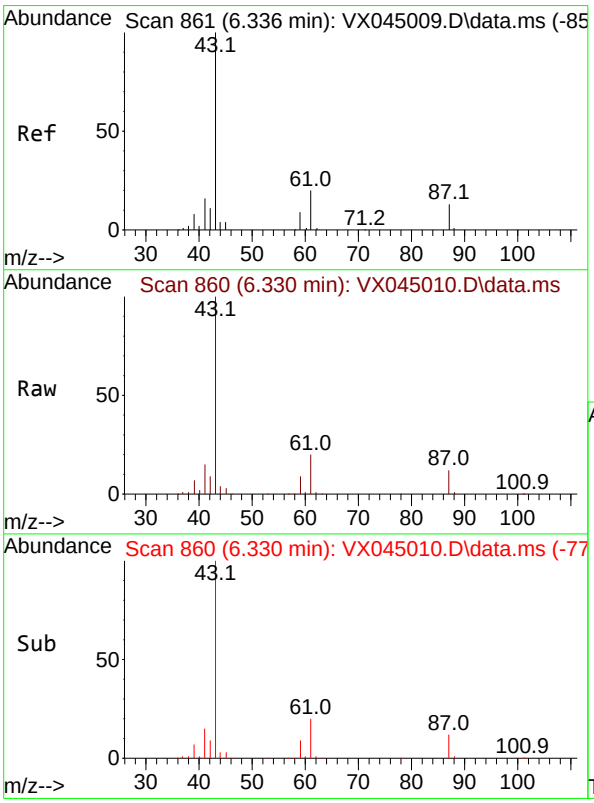
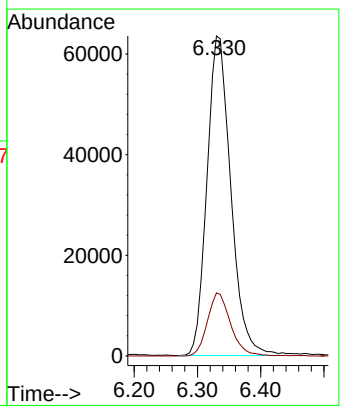


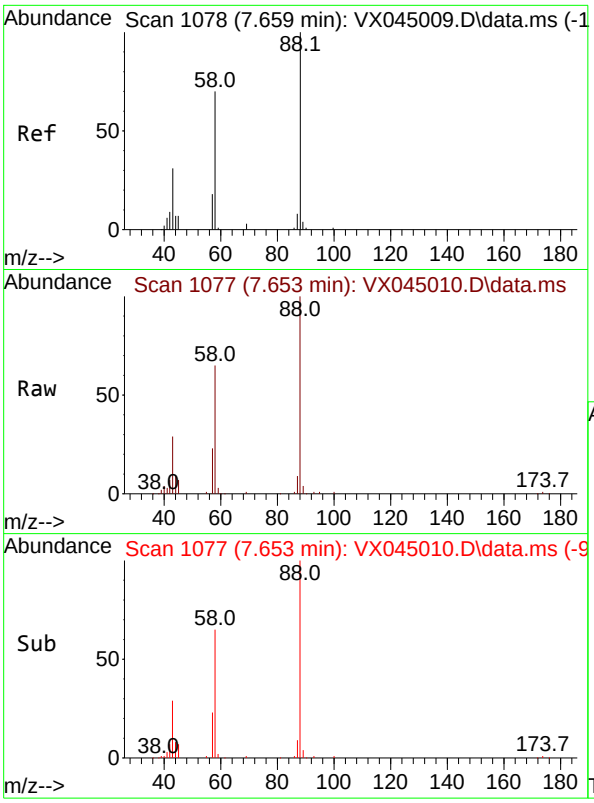


#44
Isopropyl Acetate
Concen: 52.497 ug/l
RT: 6.330 min Scan# 860
Delta R.T. -0.006 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion: 43 Resp: 165983

Ion	Ratio	Lower	Upper
43	100		
61	19.1	15.5	23.3





#45
1,4-Dioxane
Concen: 1105.035 ug/l
RT: 7.653 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion: 88 Resp: 3632

Ion	Ratio	Lower	Upper
88	100		
43	34.6	29.6	44.4
58	71.3	56.2	84.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC050

Manual Integrations
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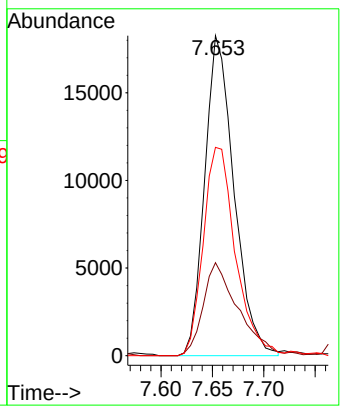
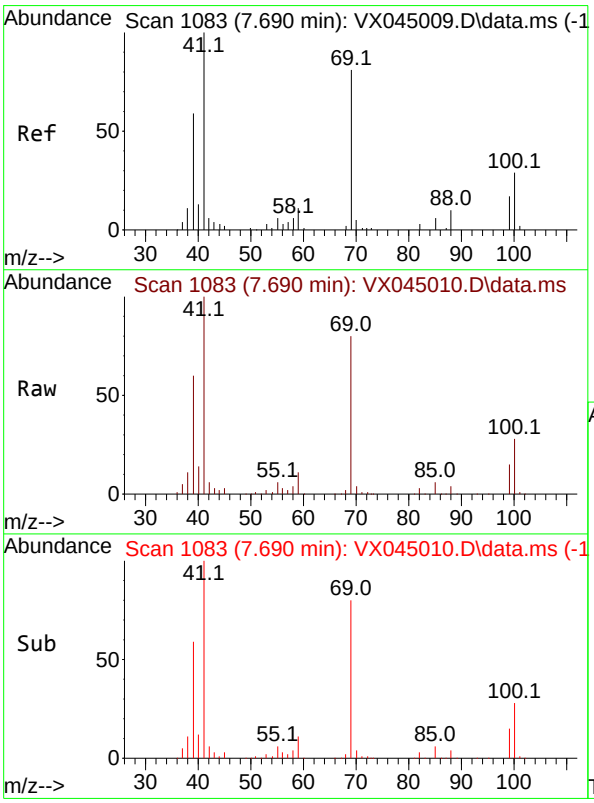
Supervised By :Mahesh Dadoda 02/24/2025

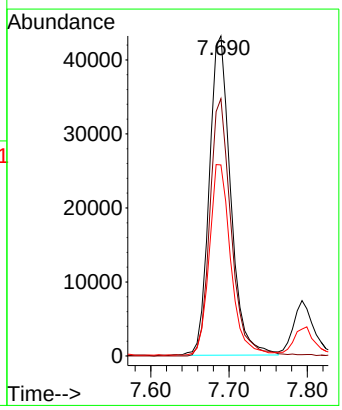


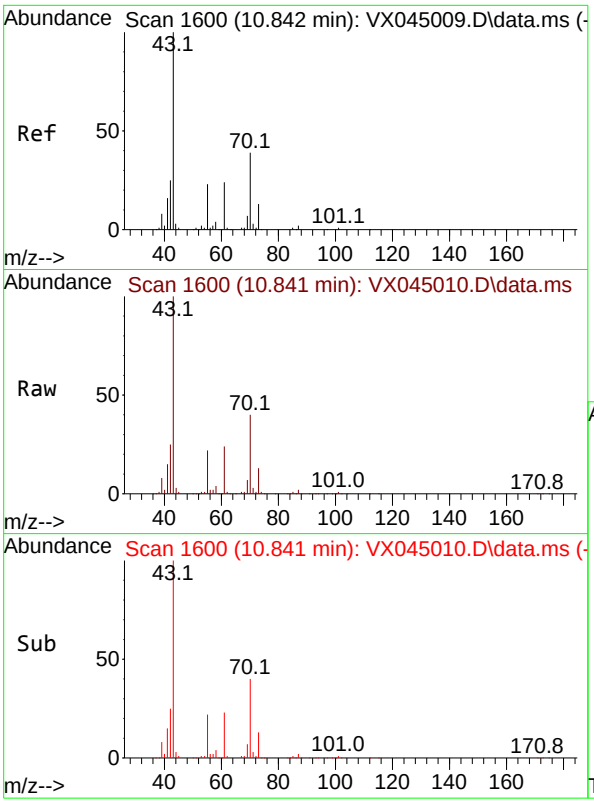


#46
Methyl methacrylate
Concen: 52.896 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. -0.000 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion: 41 Resp: 82008

Ion	Ratio	Lower	Upper
41	100		
69	80.7	40.7	122.1
39	59.6	29.5	88.5





#47
n-amyl Acetate
Concen: 53.981 ug/l
RT: 10.841 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion: 43 Resp: 14810

Ion	Ratio	Lower	Upper
43	100		
55	22.7	18.6	27.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC050

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Reviewed By :John Carlone 02/24/2025
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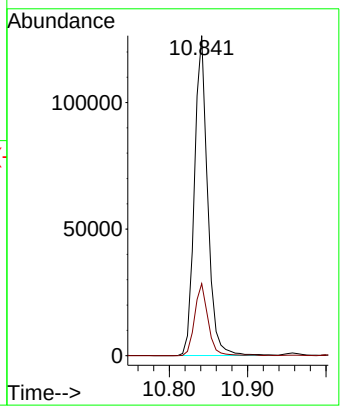
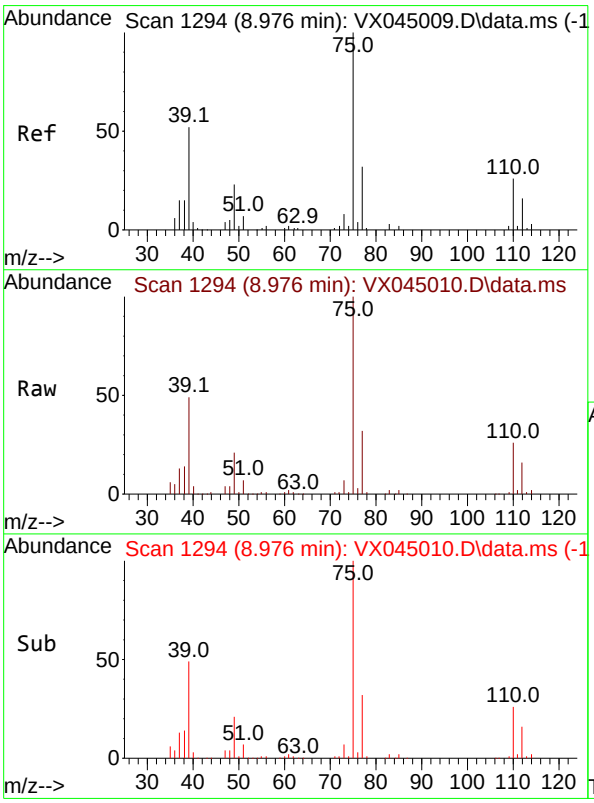
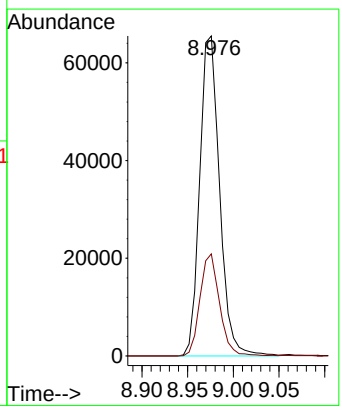


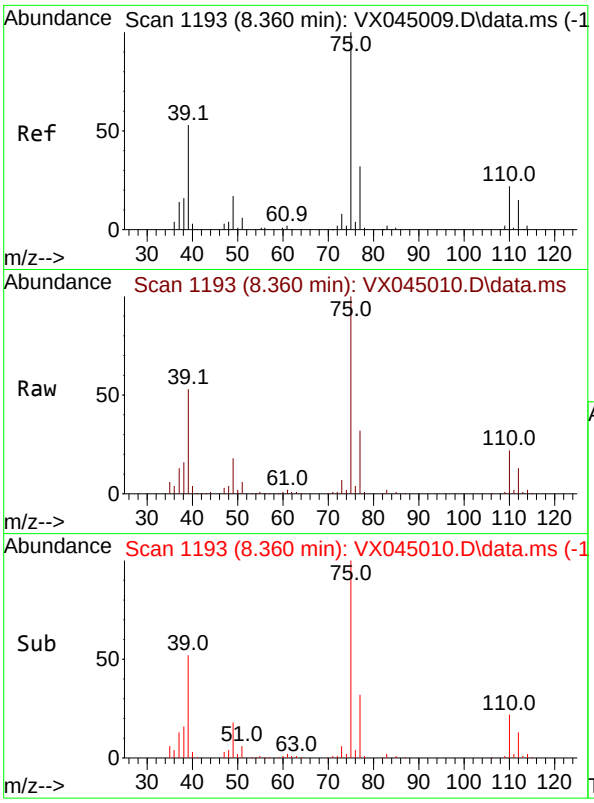


#48
t-1,3-Dichloropropene
Concen: 52.075 ug/l
RT: 8.976 min Scan# 1294
Delta R.T. -0.000 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion: 75 Resp: 98986

Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.7	38.5

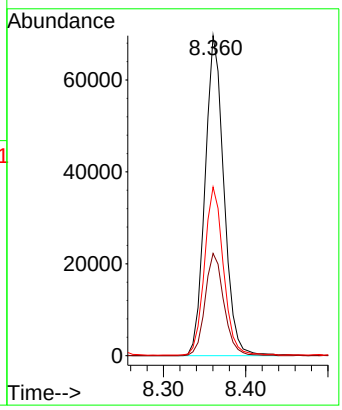




#49
cis-1,3-Dichloropropene
Concen: 51.564 ug/l
RT: 8.360 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion: 75 Resp: 11095

Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.9	38.9
39	52.5	42.3	63.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC050

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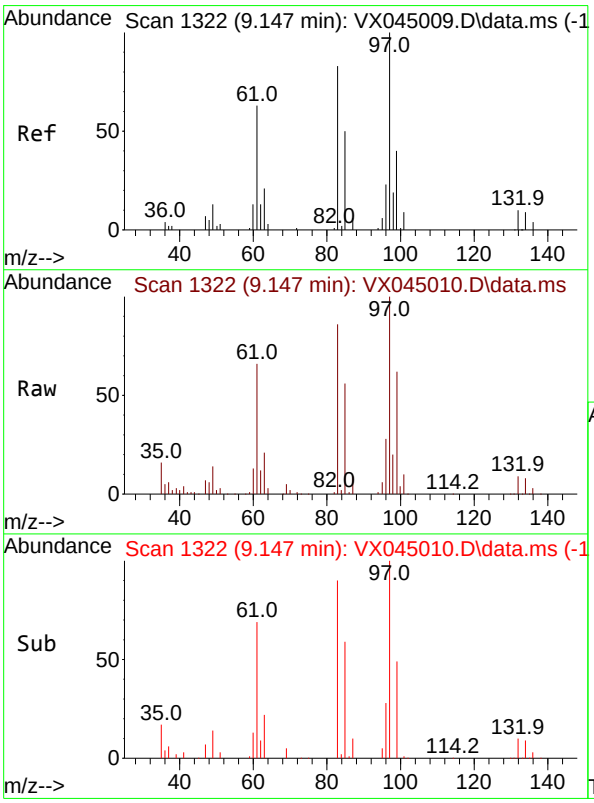
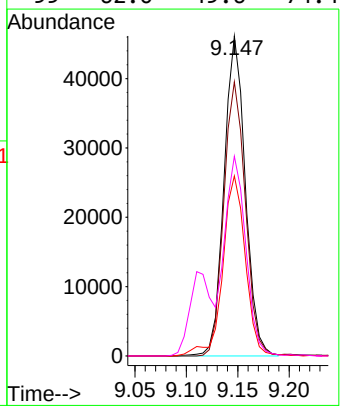
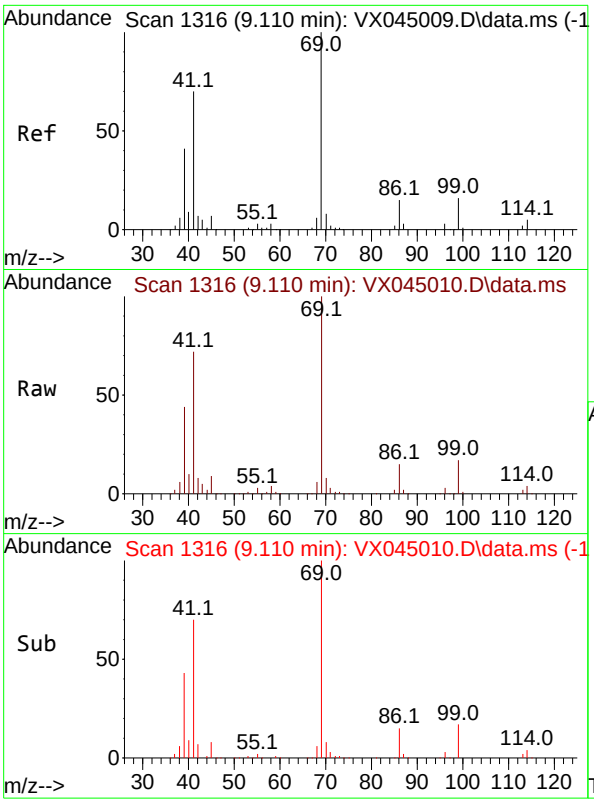


#50
1,1,2-Trichloroethane
Concen: 51.339 ug/l
RT: 9.147 min Scan# 1322
Delta R.T. -0.000 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion: 97 Resp: 66444

Ion	Ratio	Lower	Upper
97	100		
83	85.7	66.0	99.0
85	56.0	42.5	63.7
99	62.0	49.6	74.4

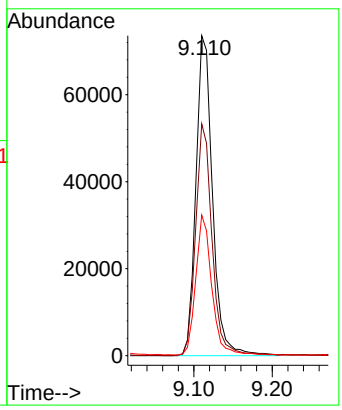




#51
Ethyl methacrylate
Concen: 53.387 ug/l
RT: 9.110 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion: 69 Resp: 10866

Ion	Ratio	Lower	Upper
69	100		
41	72.3	35.1	105.3
39	43.7	20.5	61.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC050

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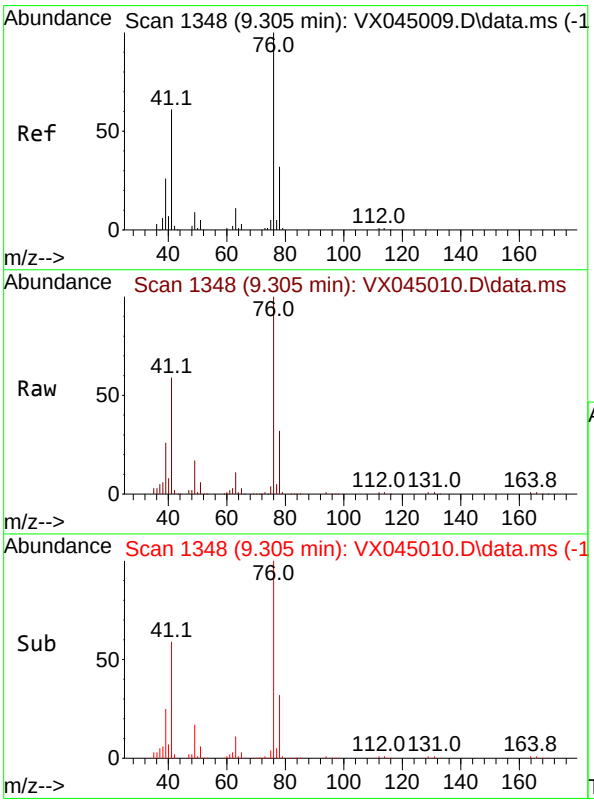
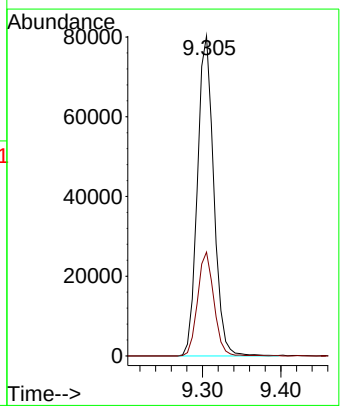
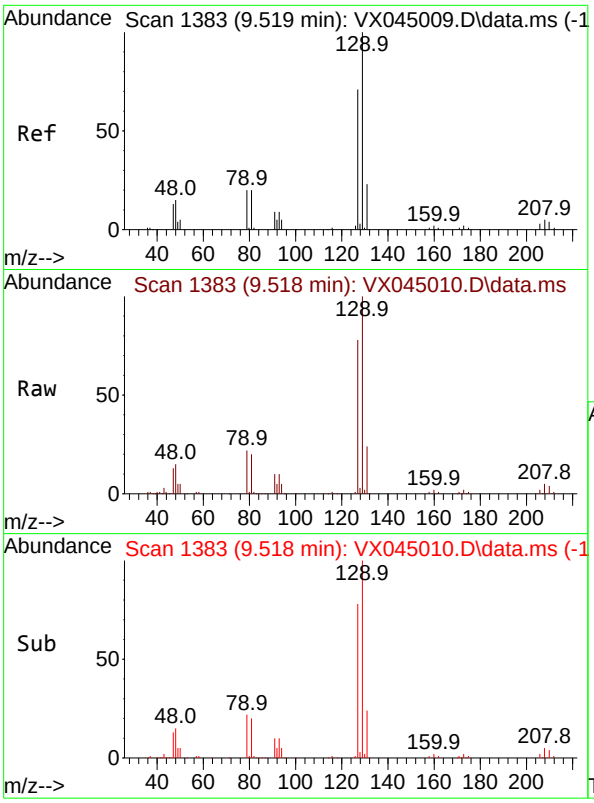


#52
1,3-Dichloropropane
Concen: 51.310 ug/l
RT: 9.305 min Scan# 1348
Delta R.T. -0.000 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion: 76 Resp: 116358

Ion	Ratio	Lower	Upper
76	100		
78	32.2	0.0	63.6

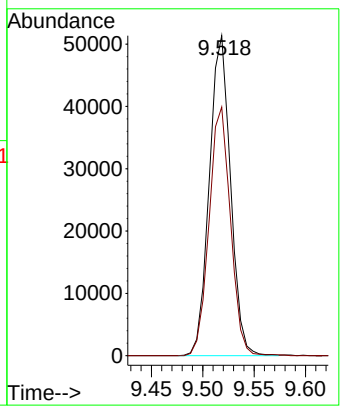




#53
Dibromochloromethane
Concen: 51.304 ug/l
RT: 9.518 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion:129 Resp: 7343

Ion	Ratio	Lower	Upper
129	100		
127	78.2	37.3	111.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC050

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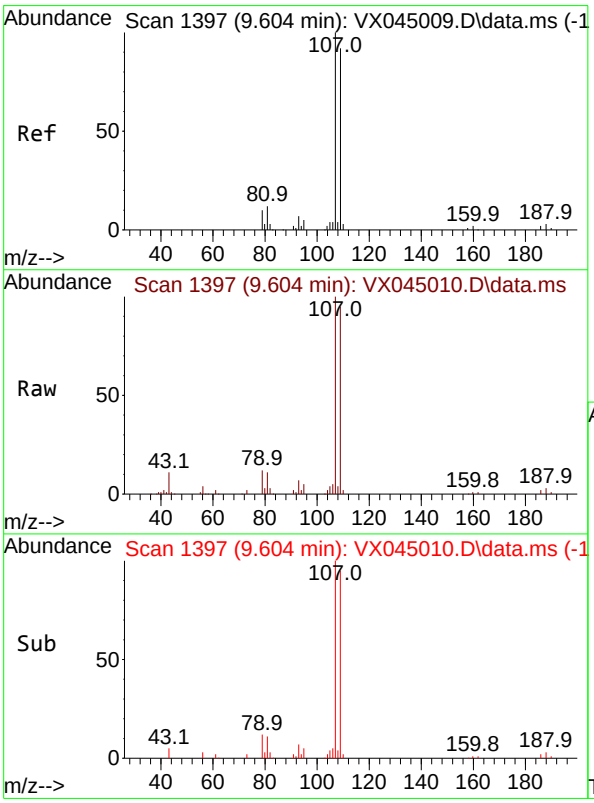
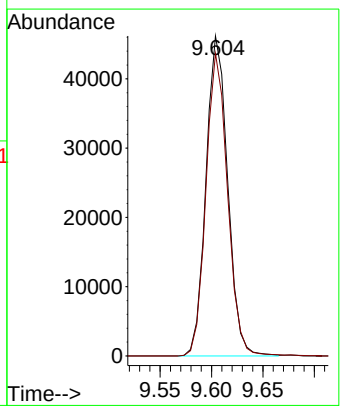
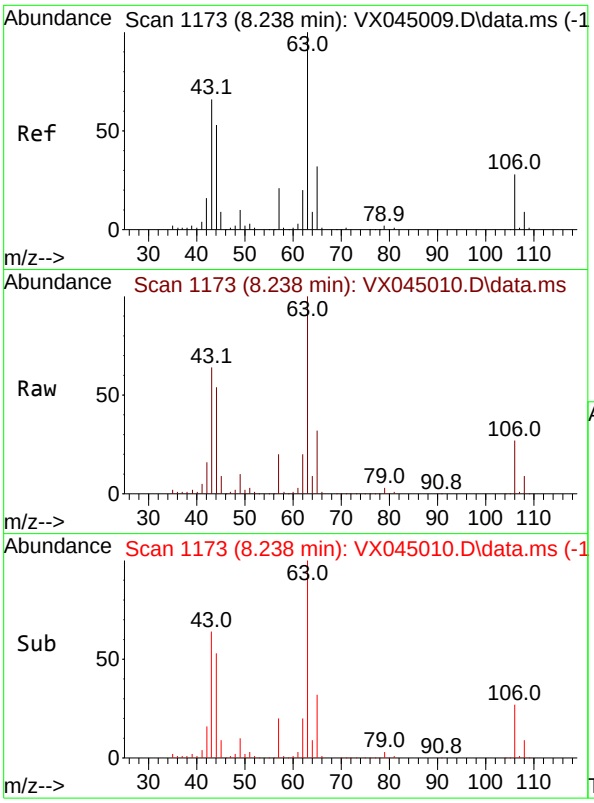


#54
1,2-Dibromoethane
Concen: 51.685 ug/l
RT: 9.604 min Scan# 1397
Delta R.T. -0.000 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion:107 Resp: 67926

Ion	Ratio	Lower	Upper
107	100		
109	94.0	75.8	113.8

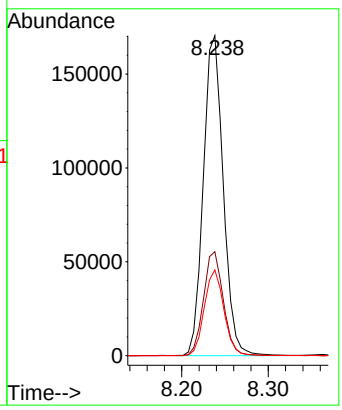




#55
2-Chloroethyl vinyl ether
Concen: 260.575 ug/l
RT: 8.238 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion: 63 Resp: 27237

Ion	Ratio	Lower	Upper
63	100		
65	32.3	26.2	39.2
106	26.4	21.2	31.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC050

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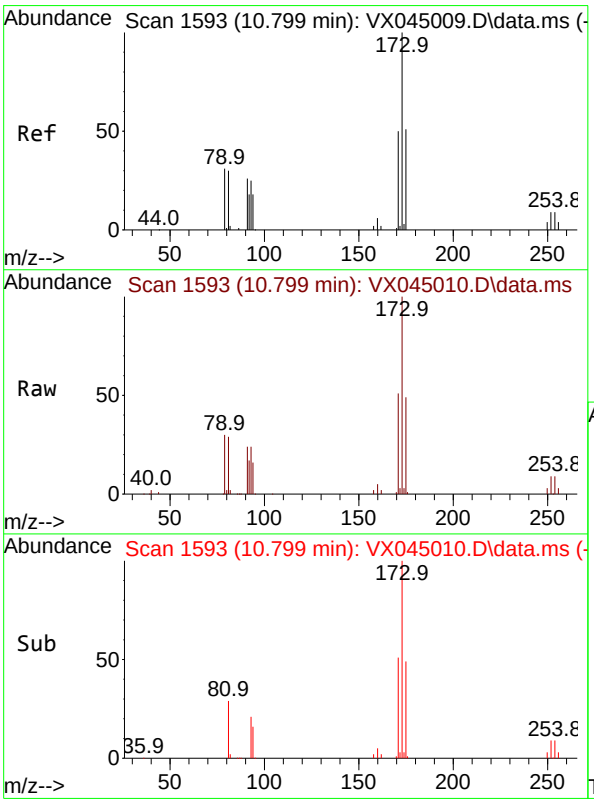
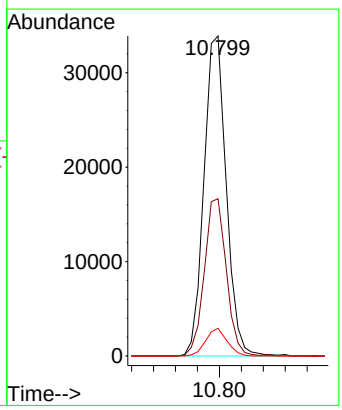
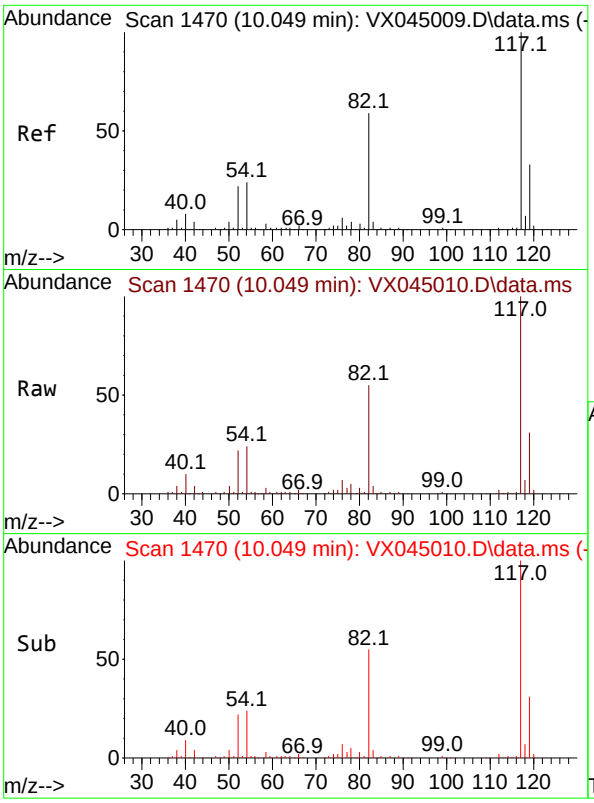


#56
Bromoform
Concen: 53.392 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. -0.000 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion:173 Resp: 47891

Ion	Ratio	Lower	Upper
173	100		
175	48.5	39.6	59.4
254	8.3	6.3	9.5





#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion:117 Resp: 8930

Ion	Ratio	Lower	Upper
117	100		
82	56.5	45.8	68.8
119	31.7	25.5	38.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC050

Manual Integrations
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Reviewed By :John Carlone 02/24/2025
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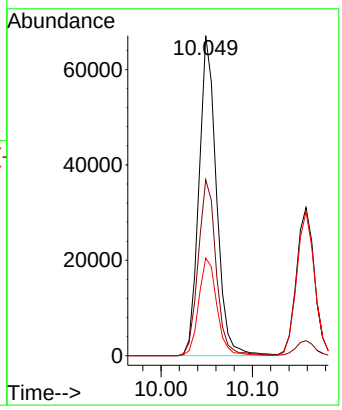
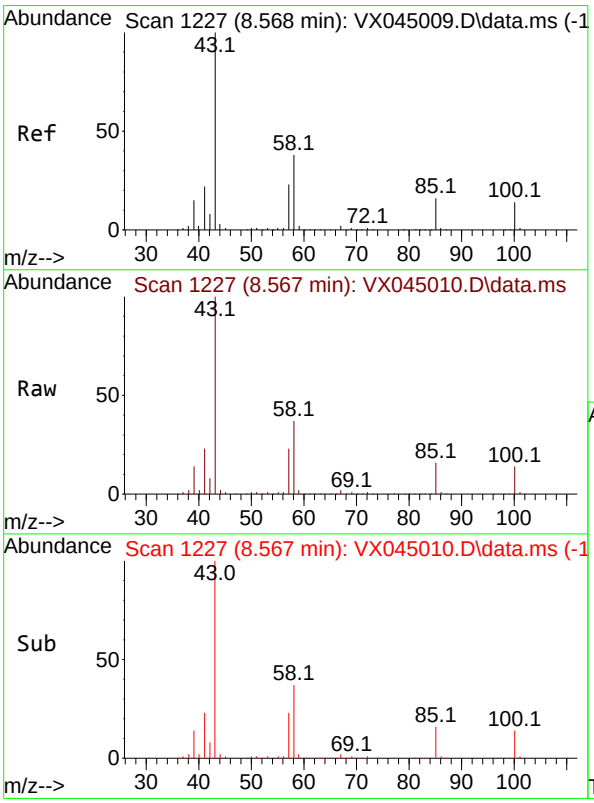
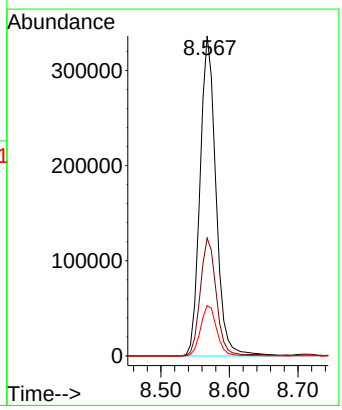


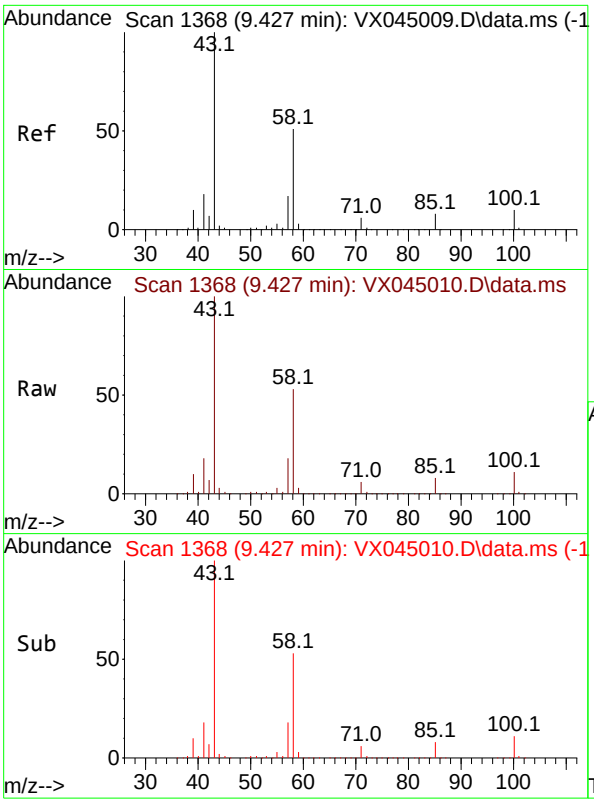


#58
4-Methyl-2-Pentanone
Concen: 267.752 ug/l
RT: 8.567 min Scan# 1227
Delta R.T. -0.000 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion: 43 Resp: 543908

Ion	Ratio	Lower	Upper
43	100		
58	36.7	29.5	44.3
85	16.0	12.9	19.3





#59
2-Hexanone
Concen: 271.195 ug/l
RT: 9.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion: 43 Resp: 39819

Ion	Ratio	Lower	Upper
43	100		
58	52.5	41.6	62.4
57	17.6	13.8	20.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC050

Manual Integrations
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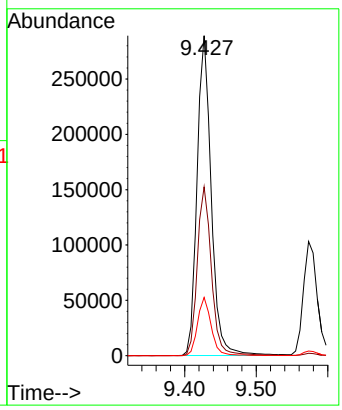
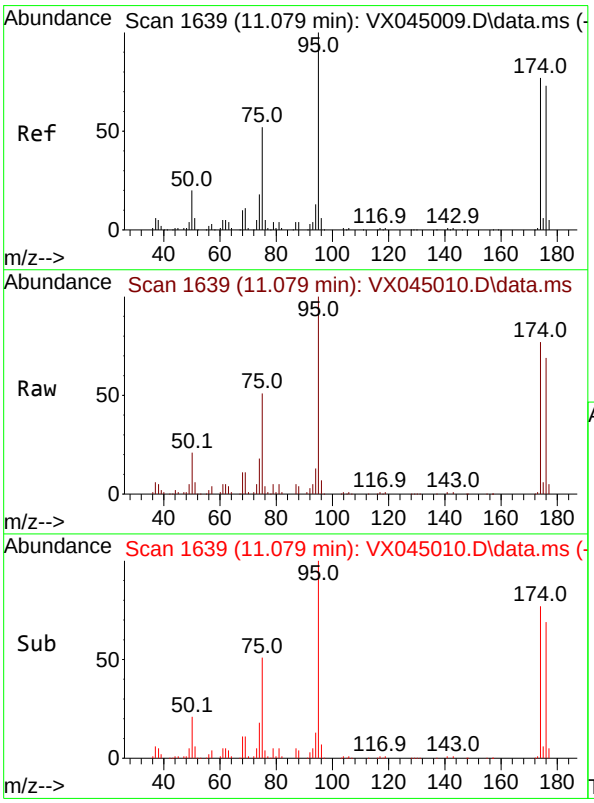
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

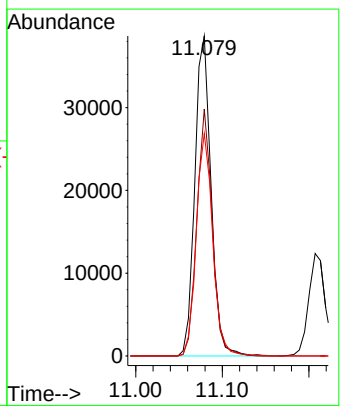


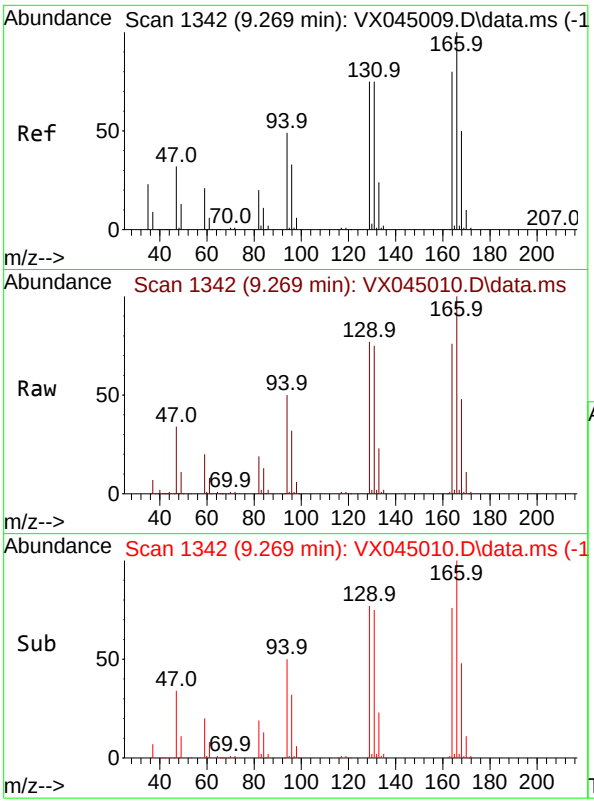


#60
4-Bromofluorobenzene
Concen: 30.203 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion: 95 Resp: 50413

Ion	Ratio	Lower	Upper
95	100		
174	73.6	59.5	89.3
176	70.2	55.5	83.3

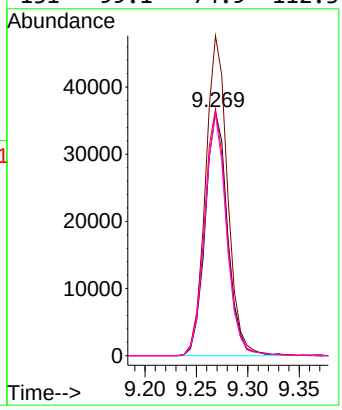




#61
Tetrachloroethene
Concen: 49.659 ug/l
RT: 9.269 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion:164 Resp: 5460

Ion	Ratio	Lower	Upper
164	100		
166	131.4	100.3	150.5
129	101.2	75.5	113.3
131	99.1	74.9	112.3



Instrument :
MSVOA_X
ClientSampleId :
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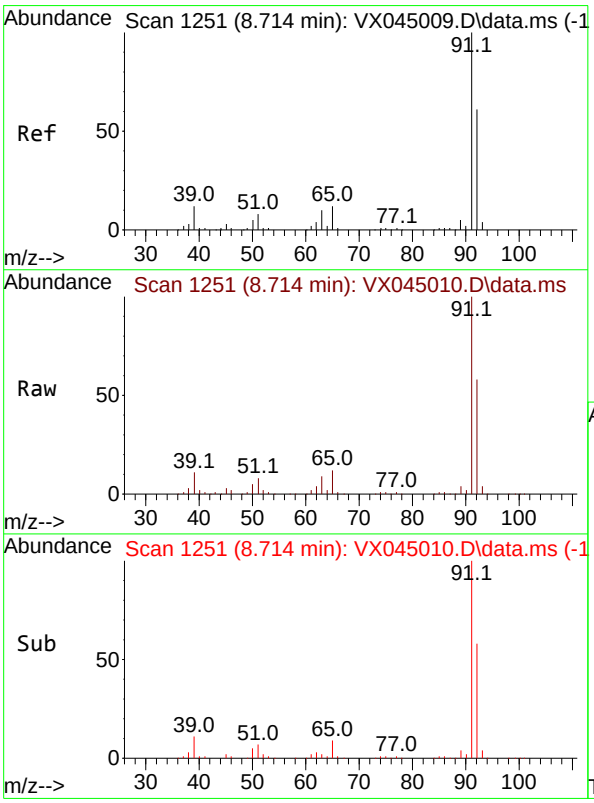
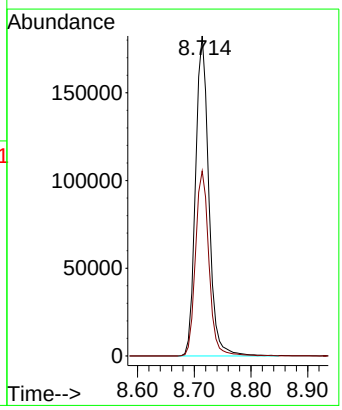
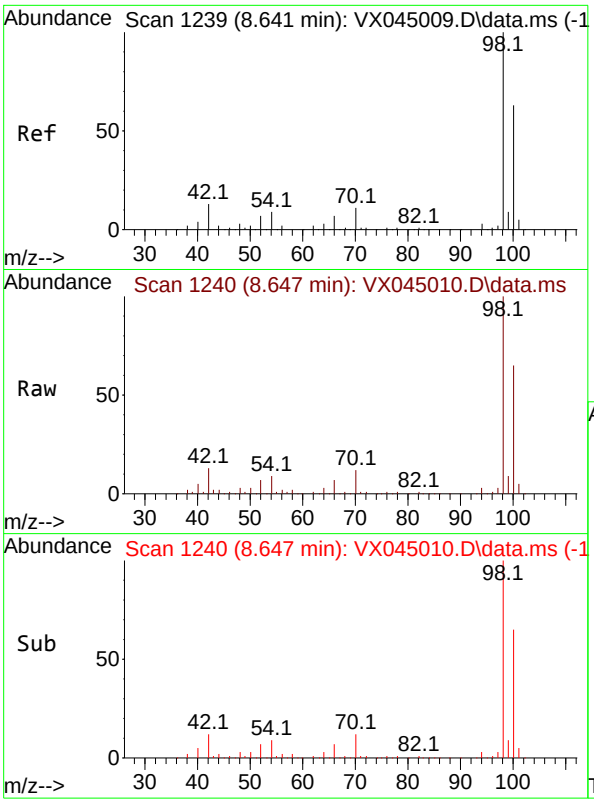


#62
Toluene
Concen: 50.195 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion: 91 Resp: 296930

Ion	Ratio	Lower	Upper
91	100		
92	58.4	46.9	70.3

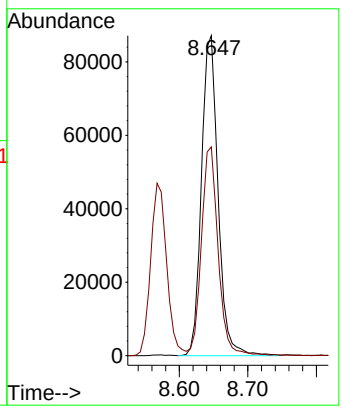




#63
Toluene-d8
Concen: 29.819 ug/l
RT: 8.647 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion: 98 Resp: 14731

Ion	Ratio	Lower	Upper
98	100		
100	65.2	51.7	77.5



Instrument :
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ClientSampleId :
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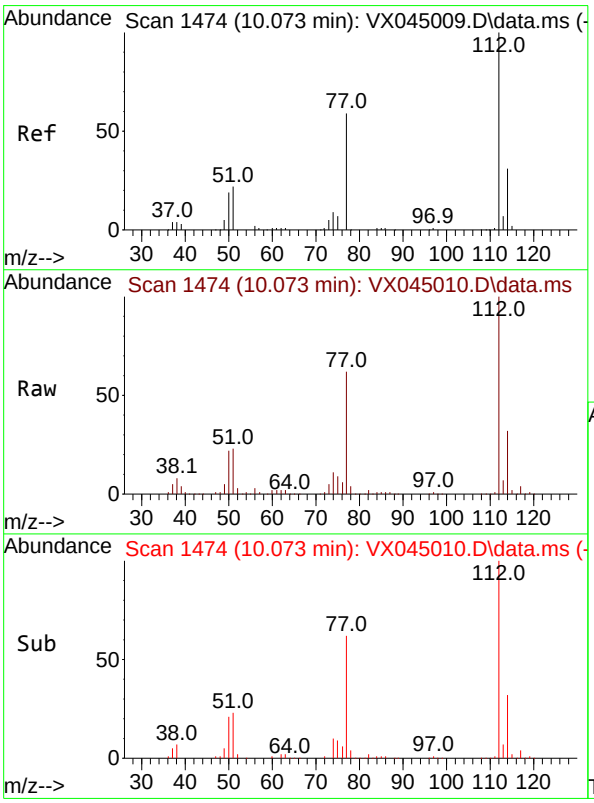
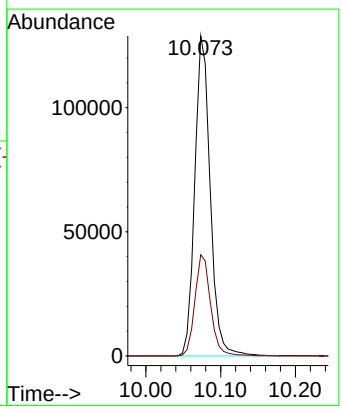
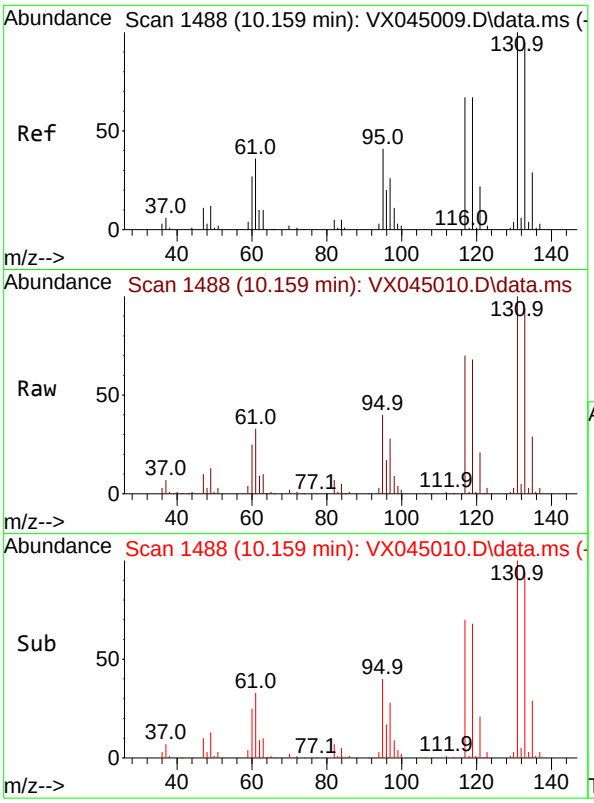


#64
Chlorobenzene
Concen: 50.511 ug/l
RT: 10.073 min Scan# 1474
Delta R.T. -0.000 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion:112 Resp: 185159

Ion	Ratio	Lower	Upper
112	100		
114	31.6	24.7	37.1

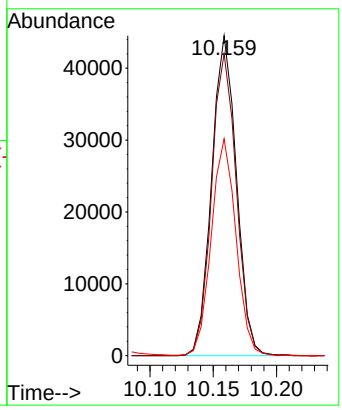




#65
1,1,1,2-Tetrachloroethane
Concen: 50.244 ug/l
RT: 10.159 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion:131 Resp: 6077

Ion	Ratio	Lower	Upper
131	100		
133	94.0	0.0	187.8
119	67.5	0.0	133.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC050

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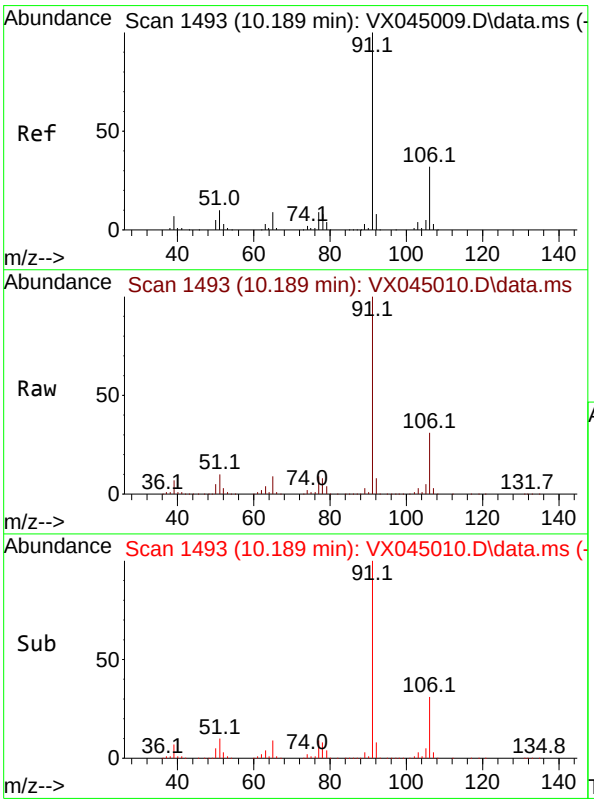
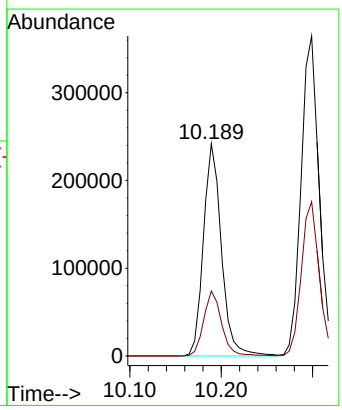
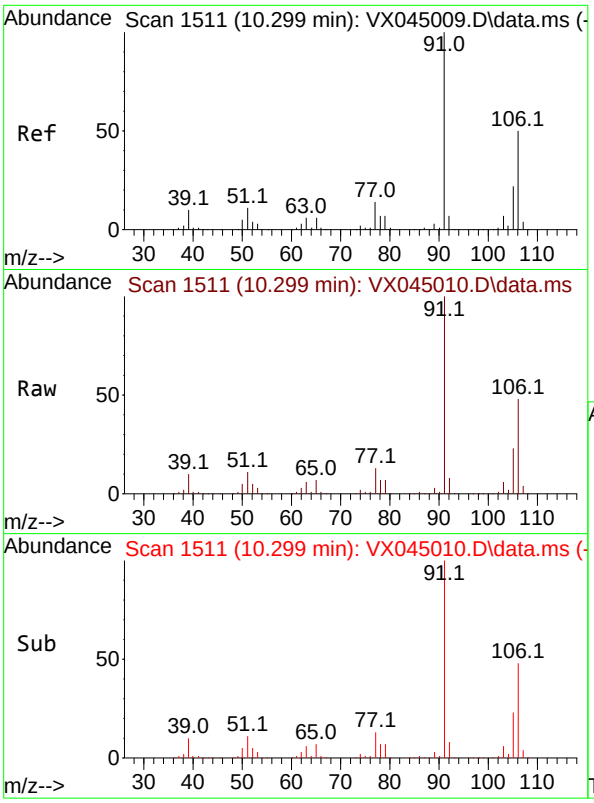


#66
Ethyl Benzene
Concen: 51.018 ug/l
RT: 10.189 min Scan# 1493
Delta R.T. -0.000 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion: 91 Resp: 330414

Ion	Ratio	Lower	Upper
91	100		
106	30.6	25.4	38.2

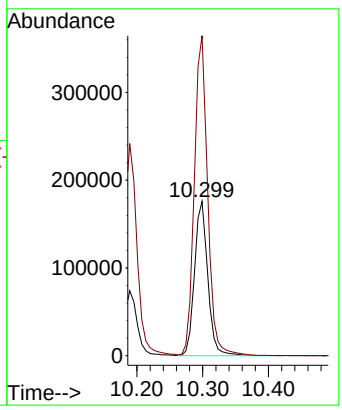




#67
m/p-Xylenes
Concen: 101.498 ug/l
RT: 10.299 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion:106 Resp: 24491

Ion	Ratio	Lower	Upper
106	100		
91	208.8	163.7	245.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC050

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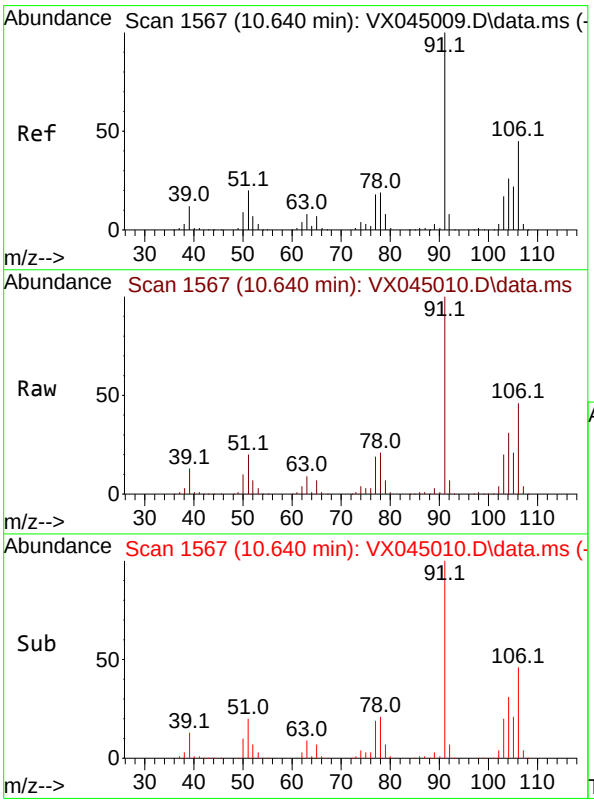
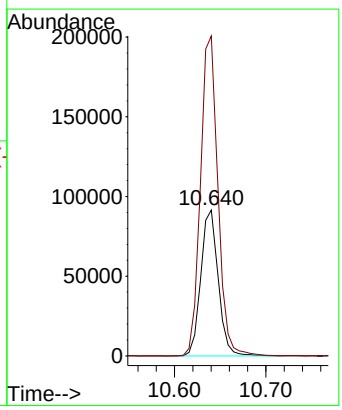
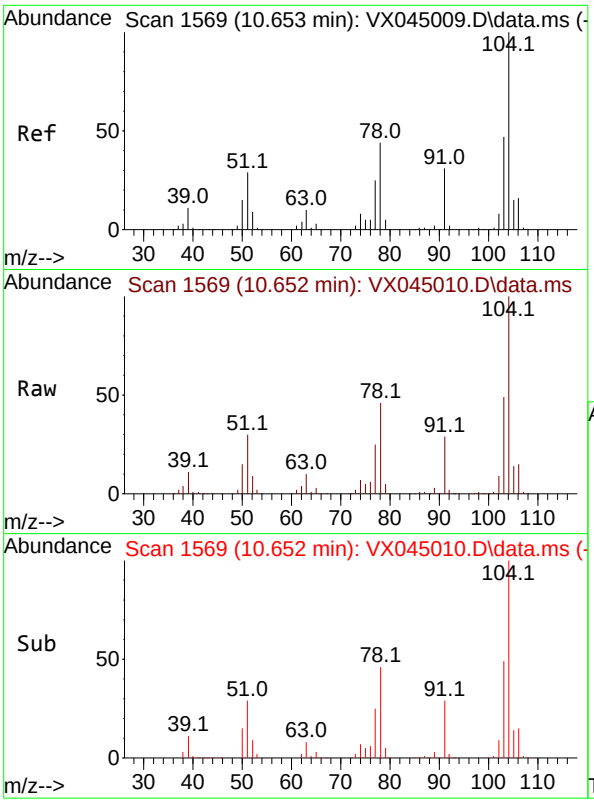


#68
o-Xylene
Concen: 51.080 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion:106 Resp: 120934

Ion	Ratio	Lower	Upper
106	100		
91	219.8	109.7	329.1

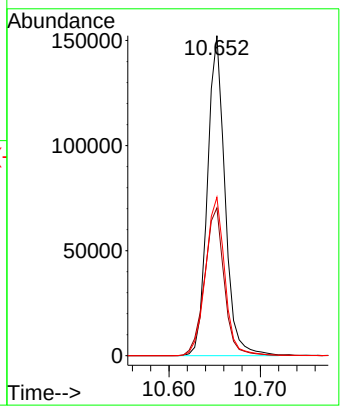




#69
Styrene
Concen: 51.306 ug/l
RT: 10.652 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion:104 Resp: 20287

Ion	Ratio	Lower	Upper
104	100		
78	51.4	41.4	62.0
103	54.4	43.0	64.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC050

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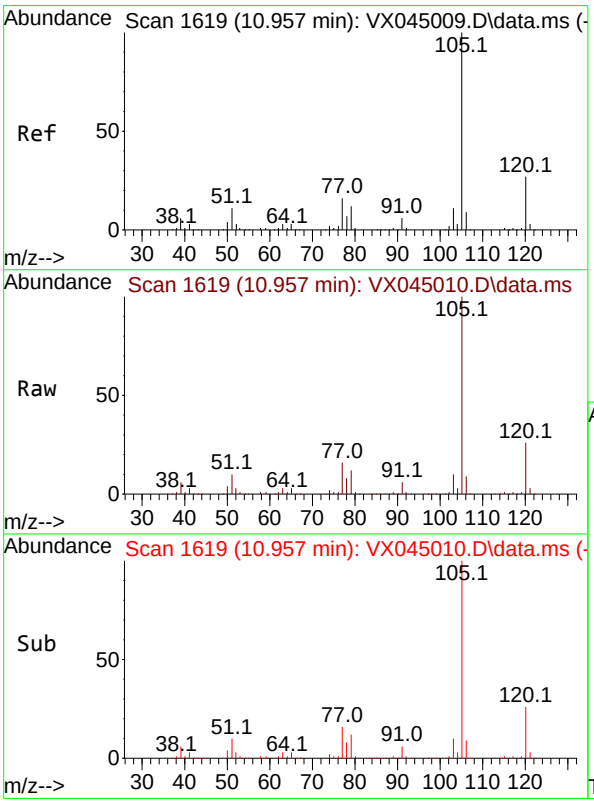
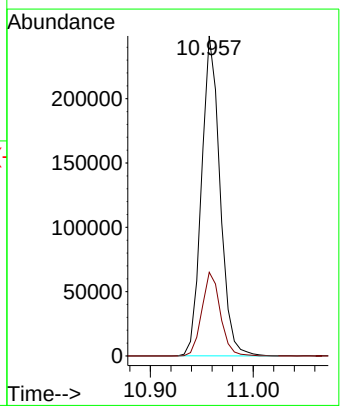
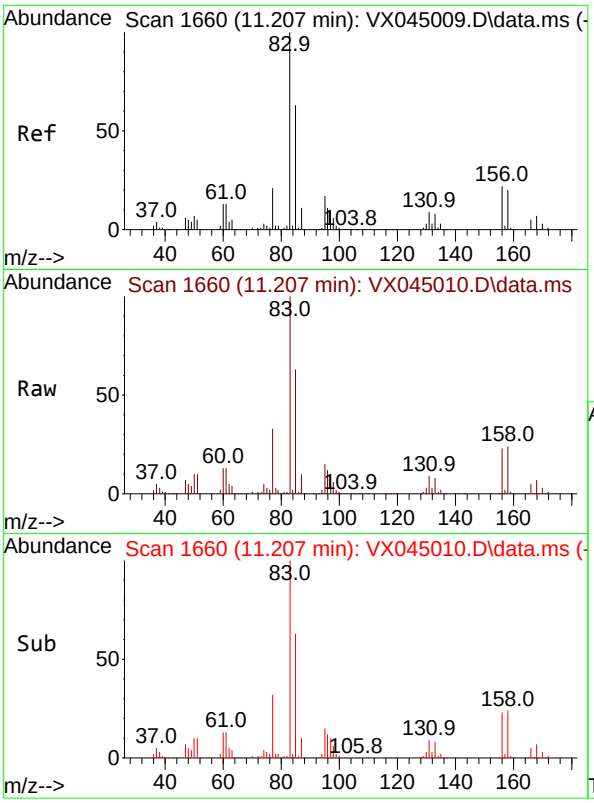


#70
Isopropylbenzene
Concen: 50.888 ug/l
RT: 10.957 min Scan# 1619
Delta R.T. -0.000 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion:105 Resp: 310911

Ion	Ratio	Lower	Upper
105	100		
120	26.1	18.4	34.2

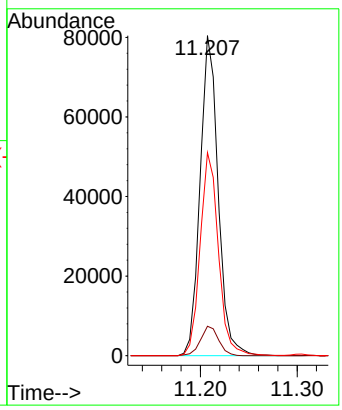




#71
1,1,2,2-Tetrachloroethane
Concen: 52.096 ug/l
RT: 11.207 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion: 83 Resp: 10466

Ion	Ratio	Lower	Upper
83	100		
131	9.3	4.8	14.3
85	64.2	32.3	96.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC050

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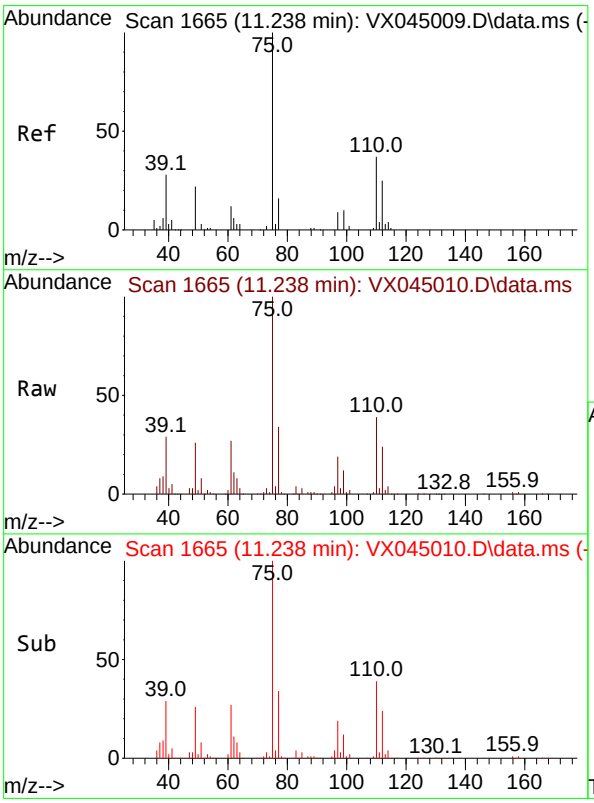
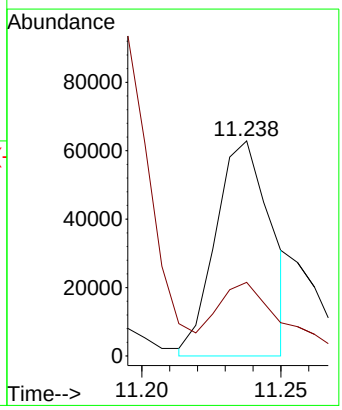
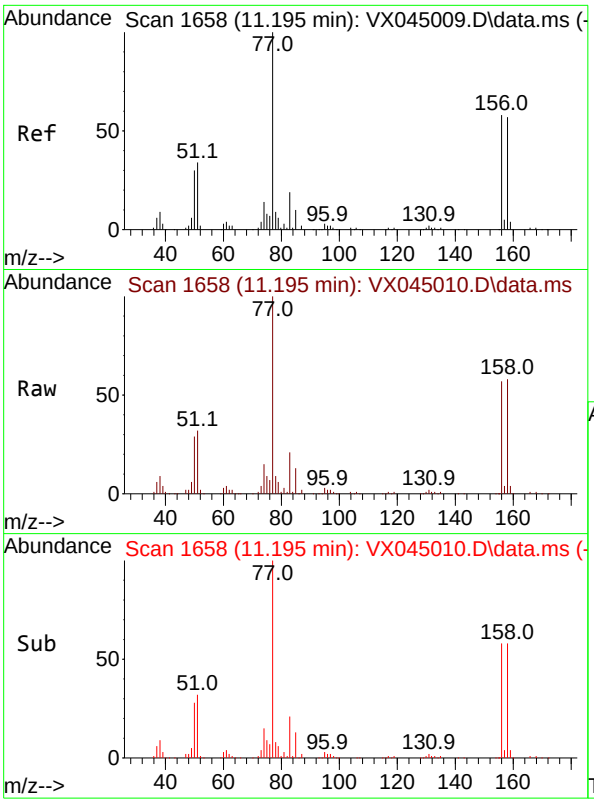


#72
1,2,3-Trichloropropane
Concen: 52.499 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion: 75 Resp: 86752

Ion	Ratio	Lower	Upper
75	100		
77	41.5	0.0	84.0





#73
Bromobenzene
Concen: 51.338 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion:156 Resp: 7220

Ion	Ratio	Lower	Upper
156	100		
77	174.9	0.0	347.2
158	97.7	0.0	197.6

Instrument :
MSVOA_X
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VSTDICC050

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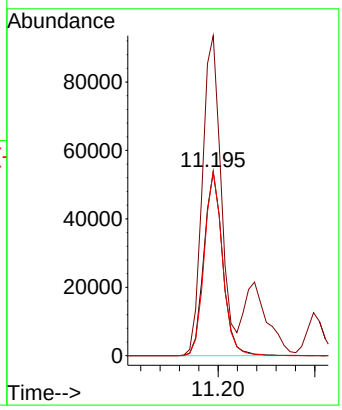
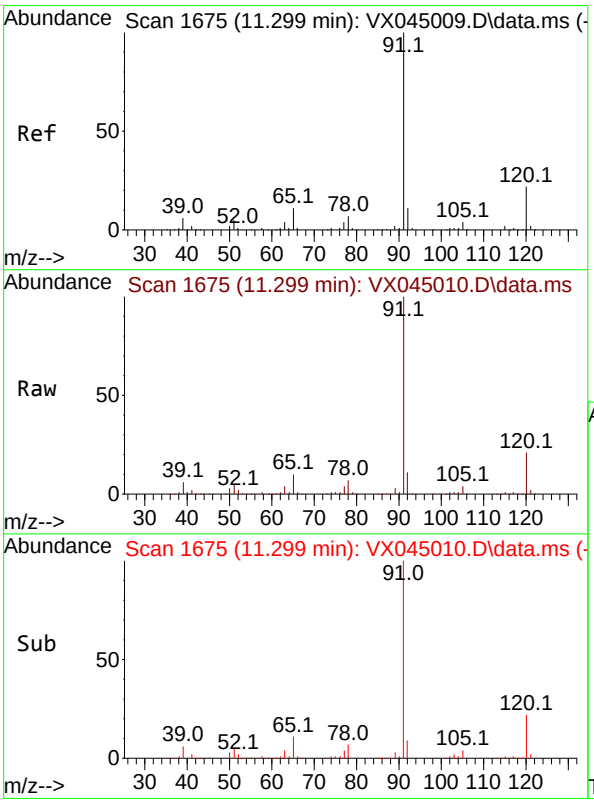
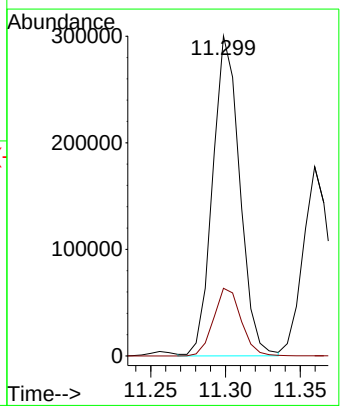


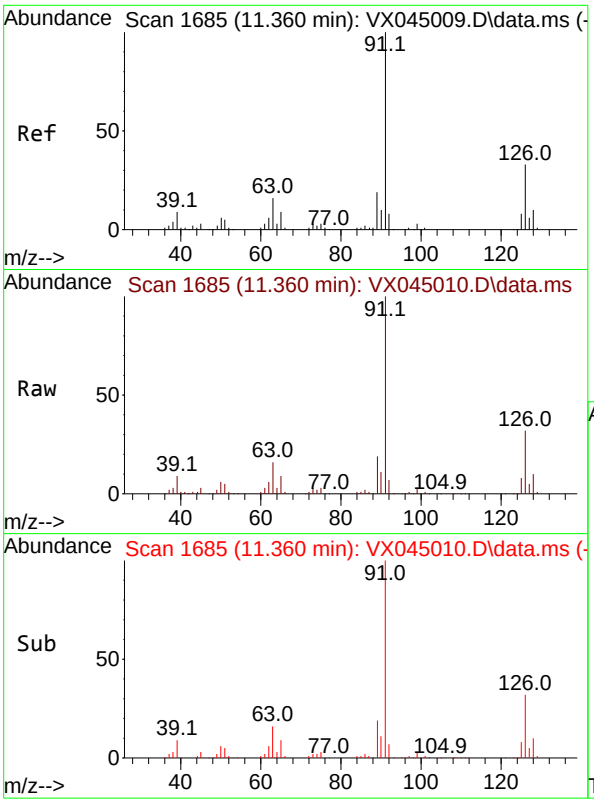


#74
n-propylbenzene
Concen: 51.970 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. -0.000 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion: 91 Resp: 377855

Ion	Ratio	Lower	Upper
91	100		
120	21.6	0.0	44.2





#75
2-Chlorotoluene
Concen: 50.885 ug/l
RT: 11.360 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion: 91 Resp: 22366

Ion	Ratio	Lower	Upper
91	100		
126	32.5	0.0	65.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC050

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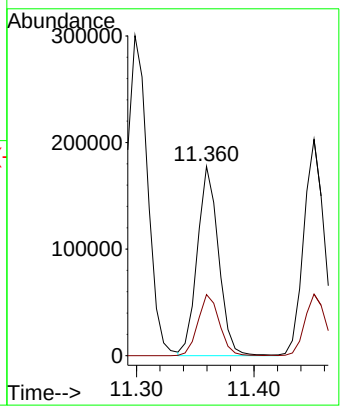
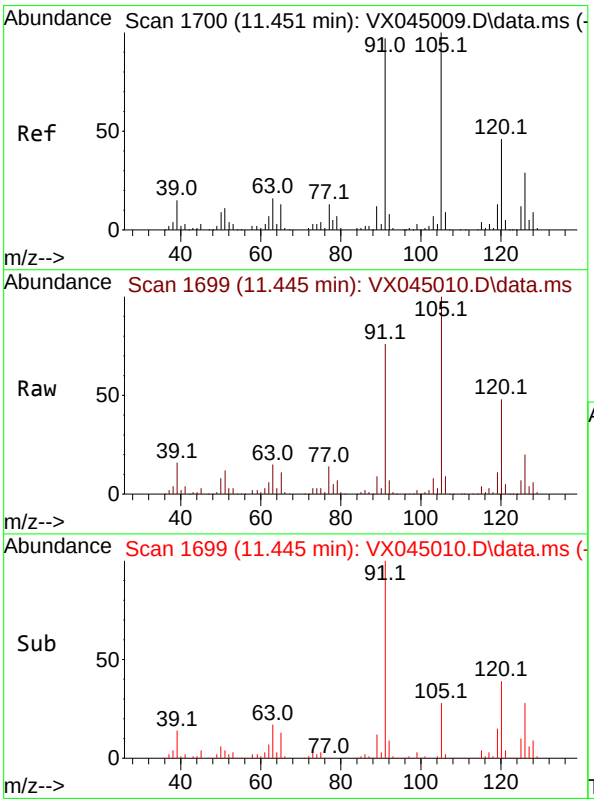
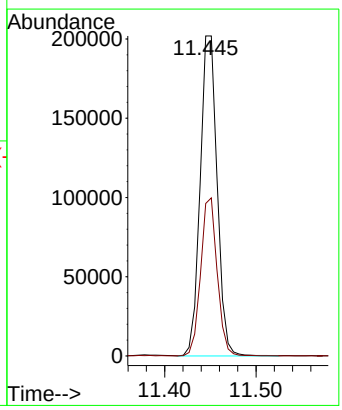


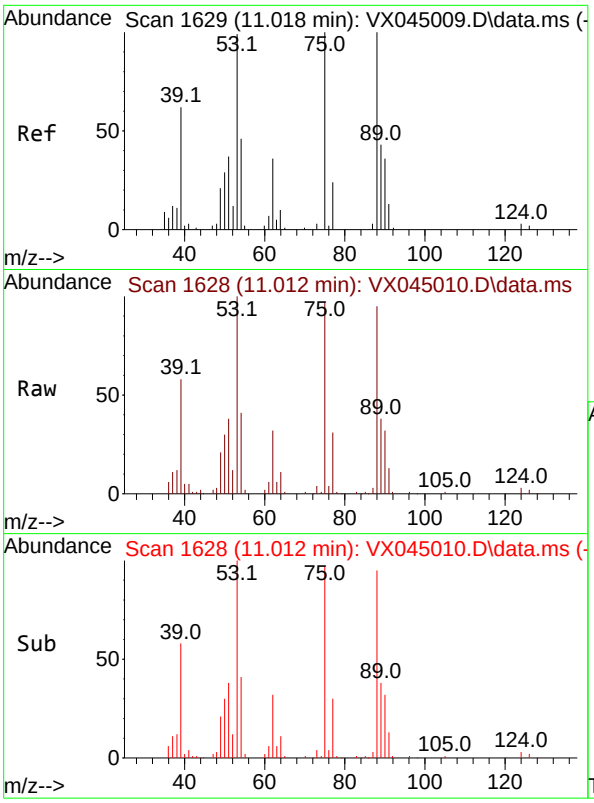


#76
1,3,5-Trimethylbenzene
Concen: 51.669 ug/l
RT: 11.445 min Scan# 1699
Delta R.T. -0.006 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion:105 Resp: 260432

Ion	Ratio	Lower	Upper
105	100		
120	48.0	0.0	94.4

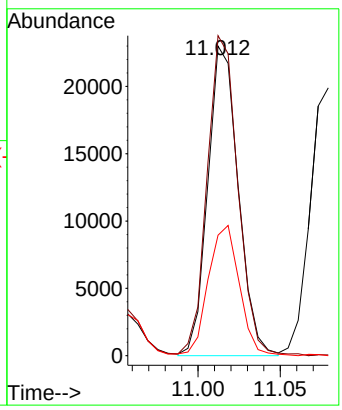




#77
t-1,4-Dichloro-2-butene
Concen: 53.302 ug/l
RT: 11.012 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion: 75 Resp: 2963

Ion	Ratio	Lower	Upper
75	100		
53	103.4	49.8	149.4
89	38.7	21.4	64.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC050

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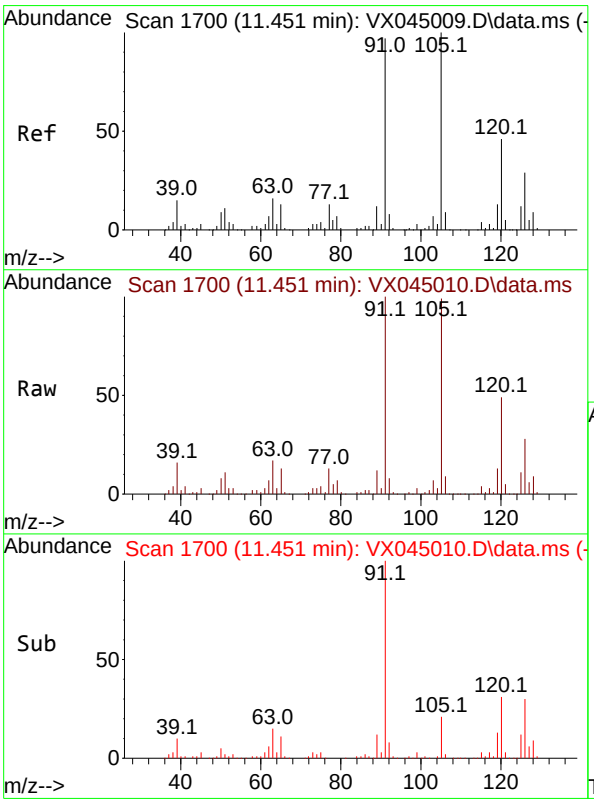
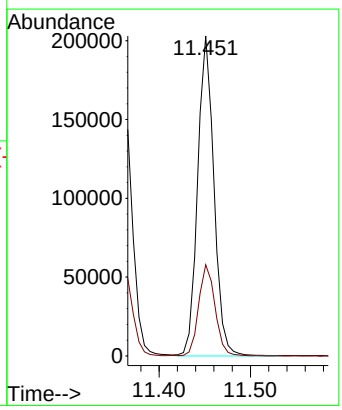
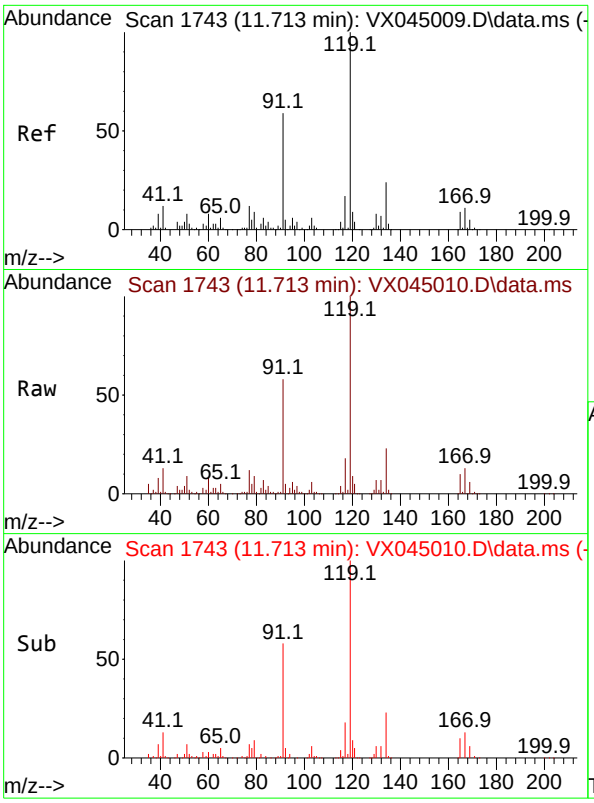


#78
4-Chlorotoluene
Concen: 51.217 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion: 91 Resp: 250953

Ion	Ratio	Lower	Upper
91	100		
126	28.7	0.0	58.0





#79
tert-butylbenzene
Concen: 52.144 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

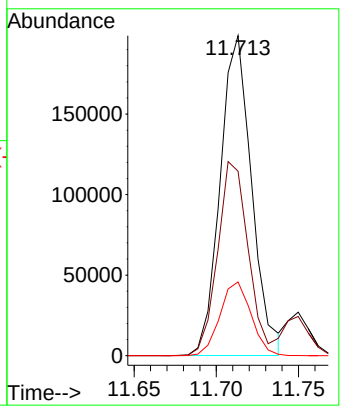
Tgt Ion:119 Resp: 26481

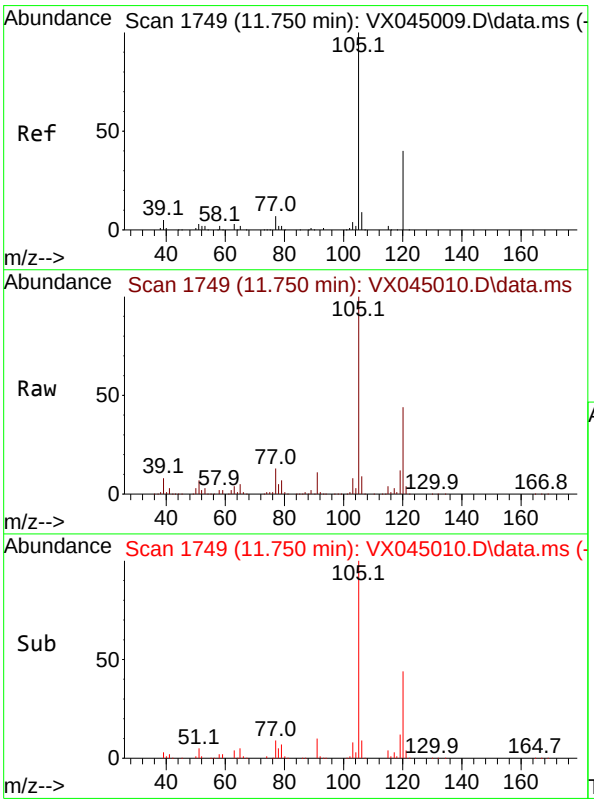
Ion	Ratio	Lower	Upper
119	100		
91	58.7	0.0	120.6
134	22.8	0.0	48.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

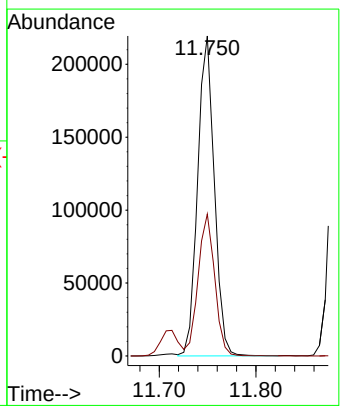


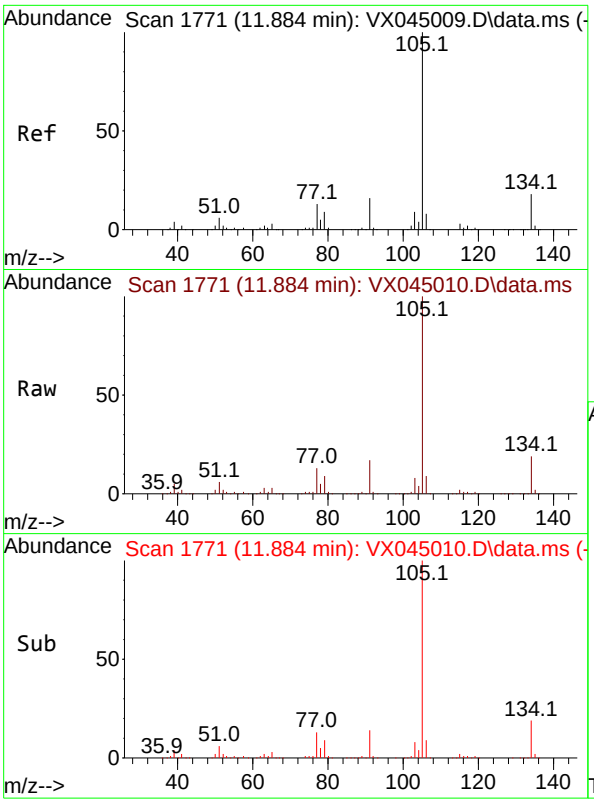


#80
1,2,4-Trimethylbenzene
Concen: 52.114 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion:105 Resp: 263122

Ion	Ratio	Lower	Upper
105	100		
120	44.2	0.0	88.4

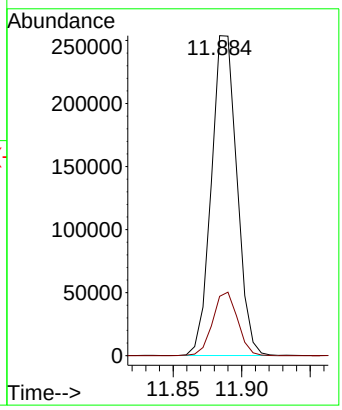




#81
sec-Butylbenzene
Concen: 51.608 ug/l
RT: 11.884 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion:105 Resp: 32894

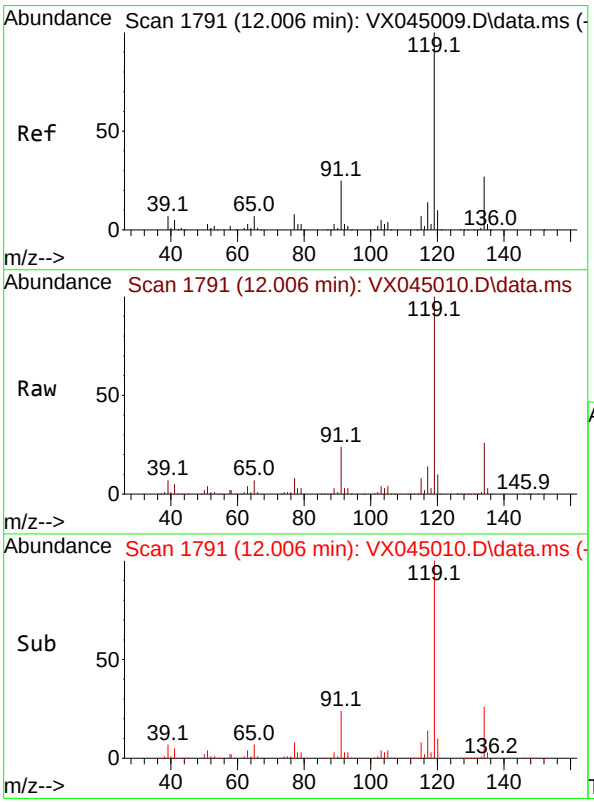
Ion	Ratio	Lower	Upper
105	100		
134	19.4	0.0	39.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC050

Manual Integrations
APPROVED

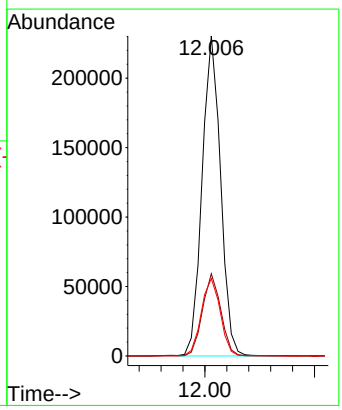
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

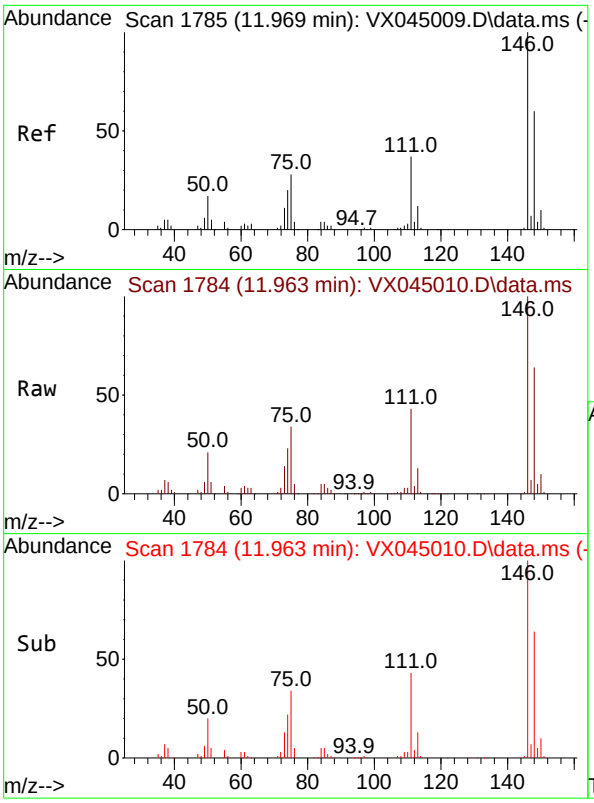


#82
p-Isopropyltoluene
Concen: 52.183 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion:119 Resp: 269490

Ion	Ratio	Lower	Upper
119	100		
134	25.5	0.0	52.6
91	24.7	0.0	51.0

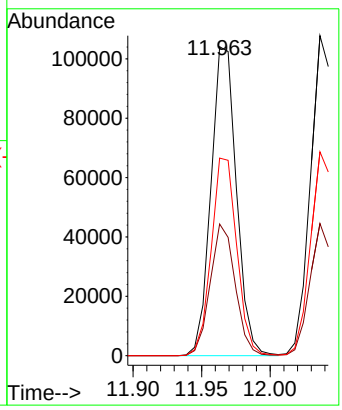




#83
1,3-Dichlorobenzene
Concen: 51.467 ug/l
RT: 11.963 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion:146 Resp: 13468

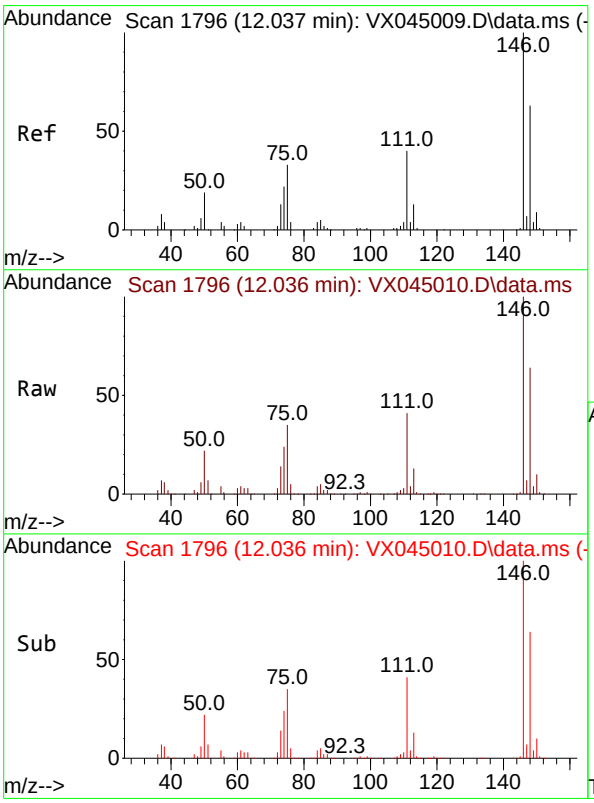
Ion	Ratio	Lower	Upper
146	100		
111	41.8	20.2	60.5
148	64.2	31.2	93.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC050

Manual Integrations
APPROVED

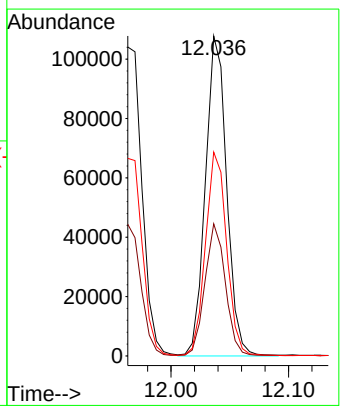
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

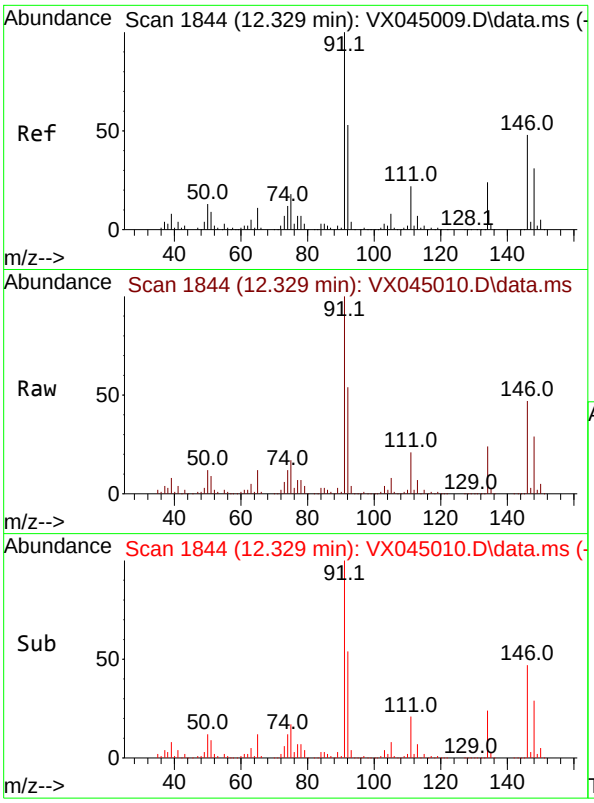


#84
1,4-Dichlorobenzene
Concen: 52.490 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. -0.000 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion:146 Resp: 135436

Ion	Ratio	Lower	Upper
146	100		
111	40.2	20.4	61.2
148	63.8	31.8	95.4

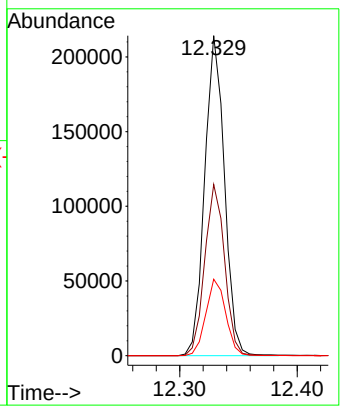




#85
n-Butylbenzene
Concen: 52.851 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion: 91 Resp: 24924

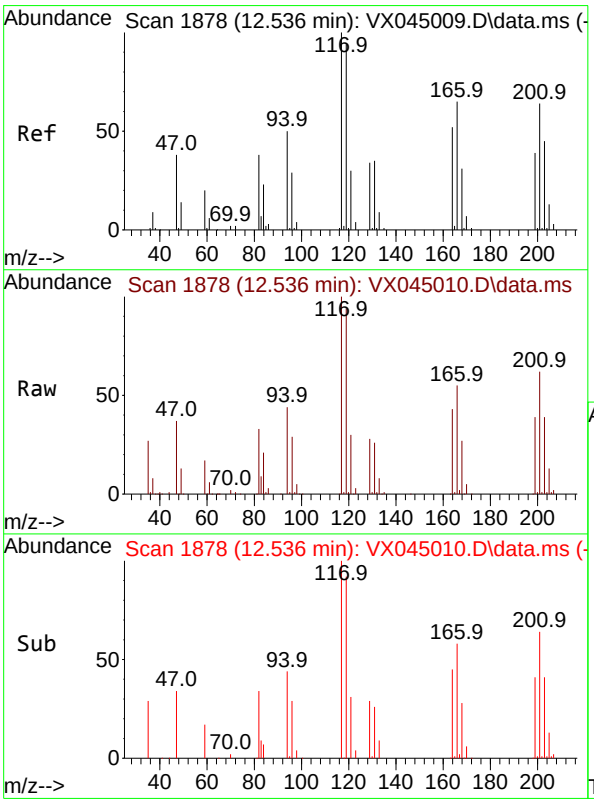
Ion	Ratio	Lower	Upper
91	100		
92	53.9	0.0	105.2
134	24.2	0.0	49.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC050

Manual Integrations
APPROVED

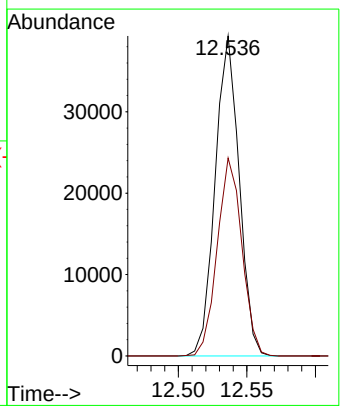
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

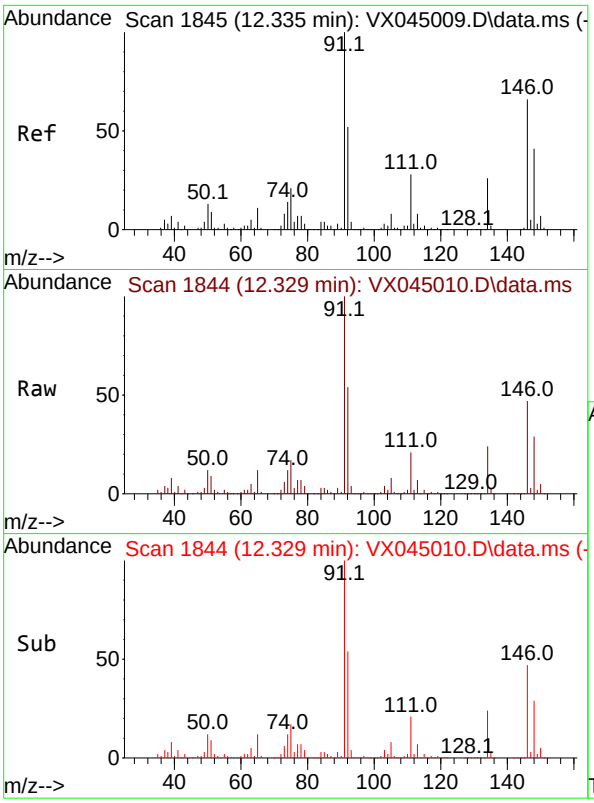


#86
Hexachloroethane
Concen: 52.555 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion:117 Resp: 47866

Ion	Ratio	Lower	Upper
117	100		
201	63.8	32.6	97.7

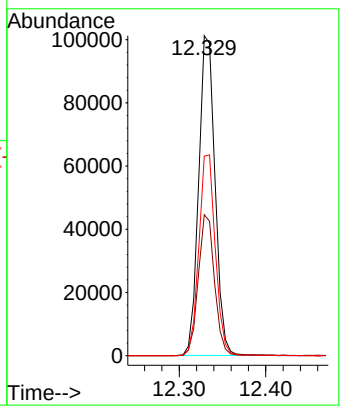




#87
1,2-Dichlorobenzene
Concen: 51.846 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion:146 Resp: 13312

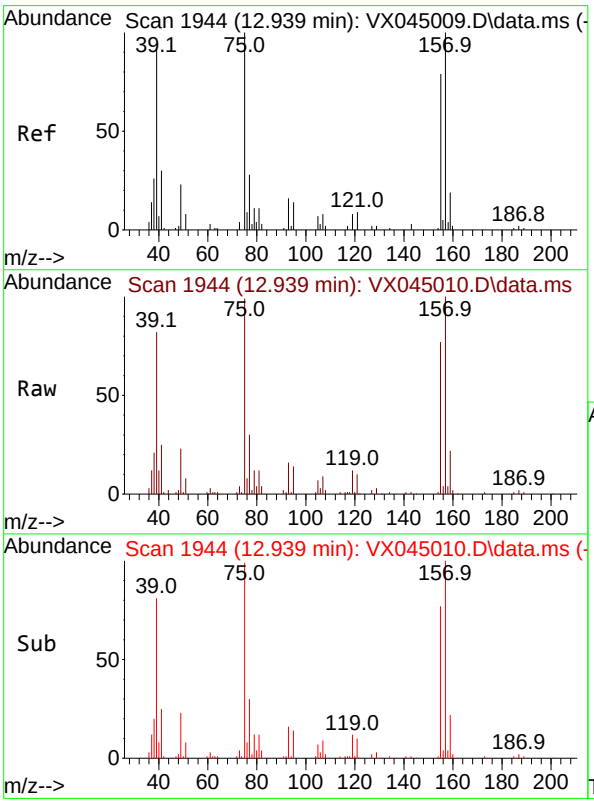
Ion	Ratio	Lower	Upper
146	100		
111	43.5	21.7	65.1
148	63.0	31.8	95.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC050

Manual Integrations
APPROVED

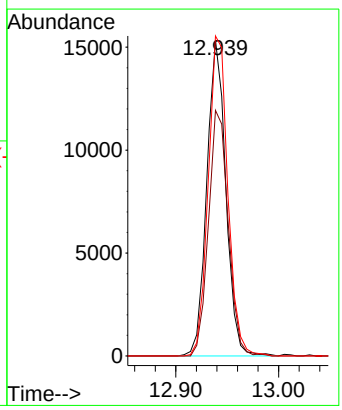
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

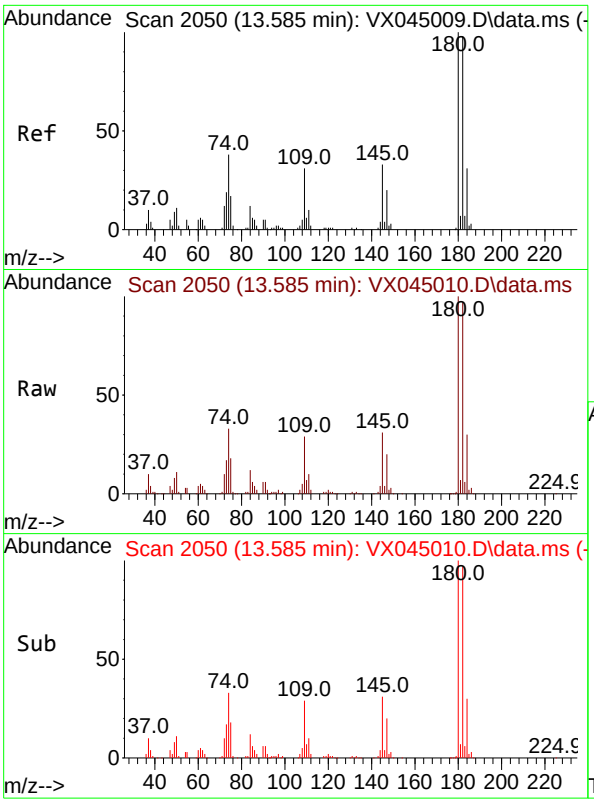


#88
1,2-Dibromo-3-Chloropropane
Concen: 50.807 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.000 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion: 75 Resp: 19763

Ion	Ratio	Lower	Upper
75	100		
155	80.4	66.2	99.4
157	104.4	81.4	122.2

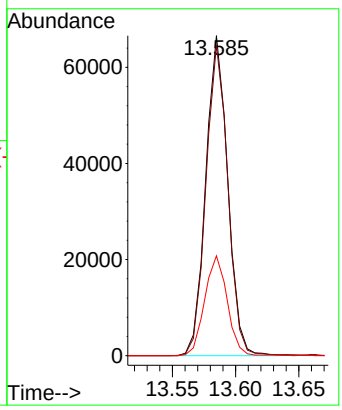




#89
1,2,4-Trichlorobenzene
Concen: 51.710 ug/l
RT: 13.585 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion:180 Resp: 8047

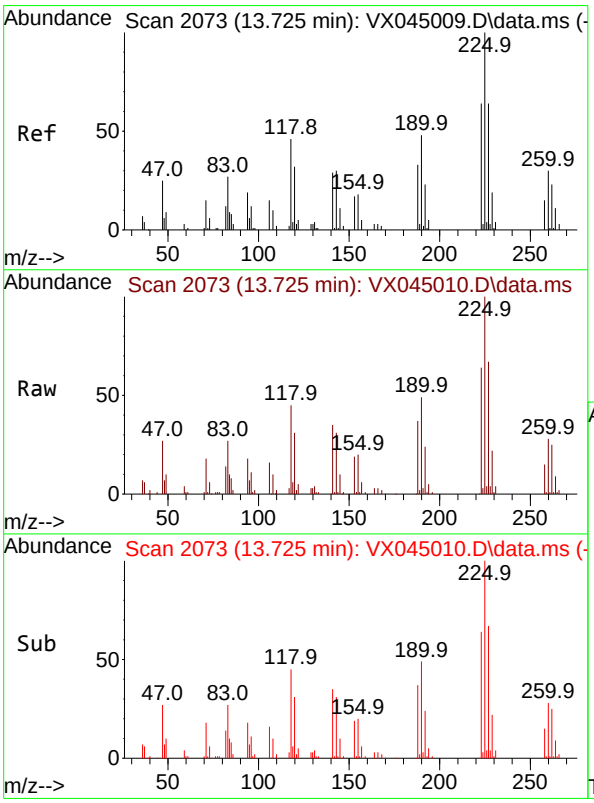
Ion	Ratio	Lower	Upper
180	100		
182	96.1	77.7	116.5
145	31.9	25.8	38.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC050

Manual Integrations
APPROVED

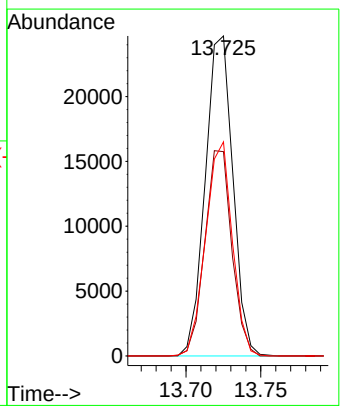
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

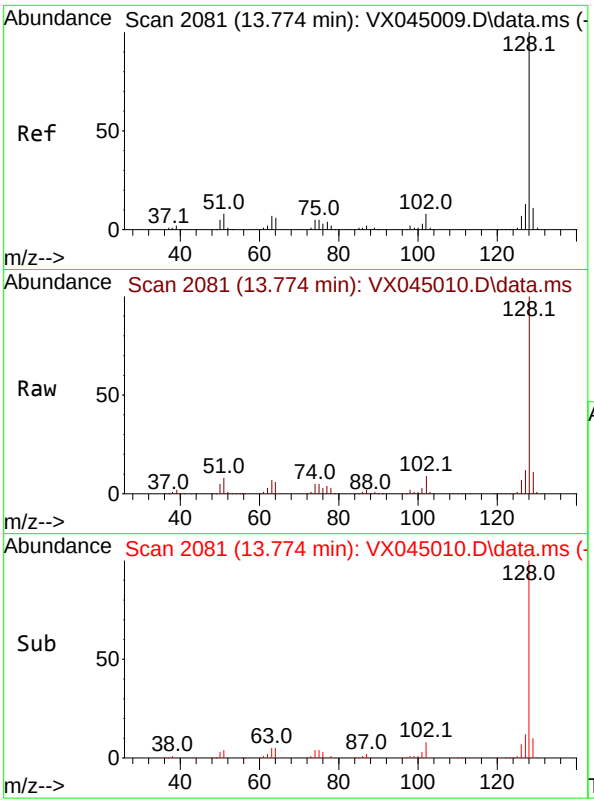


#90
Hexachlorobutadiene
Concen: 50.003 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion:225 Resp: 31734

Ion	Ratio	Lower	Upper
225	100		
223	62.7	0.0	123.4
227	64.6	0.0	127.4

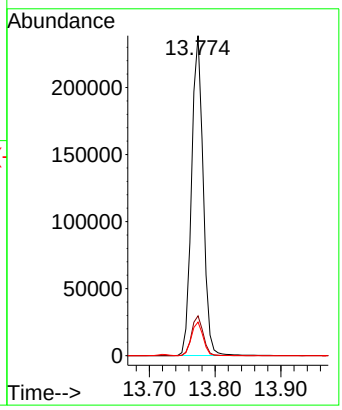




#91
Naphthalene
Concen: 52.634 ug/l
RT: 13.774 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion:128 Resp: 28882

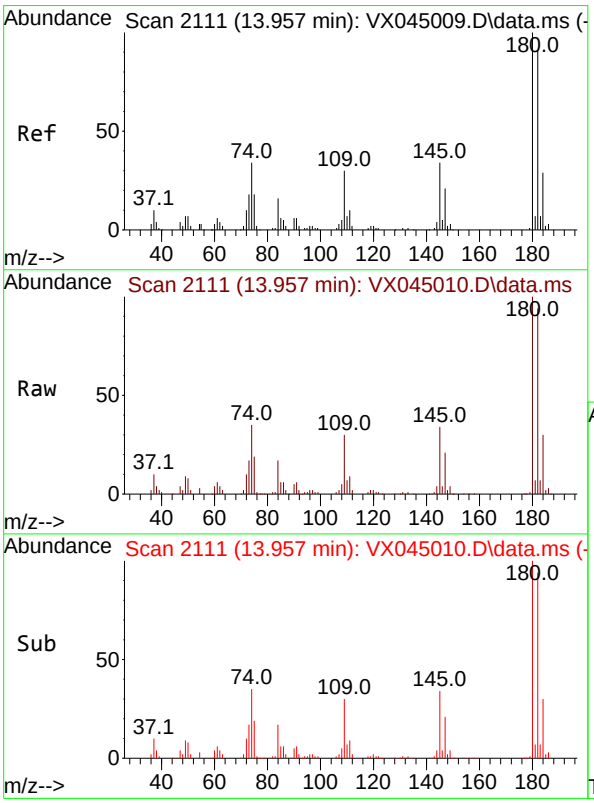
Ion	Ratio	Lower	Upper
128	100		
127	12.5	10.5	15.7
129	10.7	8.7	13.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC050

Manual Integrations
APPROVED

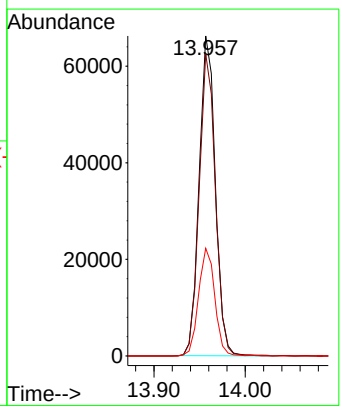
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025



#92
1,2,3-Trichlorobenzene
Concen: 51.015 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VX045010.D
Acq: 21 Feb 2025 10:44

Tgt Ion:180 Resp: 81734

Ion	Ratio	Lower	Upper
180	100		
182	94.3	0.0	186.6
145	33.7	0.0	68.4



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022125\
Data File : VX045011.D
Acq On : 21 Feb 2025 11:07
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 22 00:48:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X022125W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Feb 22 00:21:26 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	4.891	128	17332	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.751	114	98516	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.049	117	88321	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.946	65	50601	30.059	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.200%			
60) 4-Bromofluorobenzene	11.079	95	49683	30.096	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 100.333%			
63) Toluene-d8	8.647	98	148078	30.306	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.033%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	140259	95.997	ug/l	97
3) Chloromethane	1.294	50	166114	94.924	ug/l	99
4) Vinyl Chloride	1.374	62	163236	96.669	ug/l	99
5) Bromomethane	1.593	94	54558	92.819	ug/l	95
6) Chloroethane	1.666	64	84688	92.599	ug/l	97
7) Trichlorofluoromethane	1.874	101	220045	96.956	ug/l	96
8) Diethyl Ether	2.130	74	82964	96.616	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.319	101	129494	96.068	ug/l	98
10) 1,1-Dichloroethene	2.313	96	130666	99.244	ug/l	94
11) Methyl Iodide	2.447	142	161844	108.607	ug/l	98
12) Methyl Acetate	2.703	43	150865	98.675	ug/l	99
13) Acrolein	2.233	56	156104	509.382	ug/l	97
14) Acrylonitrile	3.062	53	370914	496.667	ug/l	99
15) Acetone	2.380	58	97560	476.326	ug/l	98
16) Carbon Disulfide	2.502	76	371874	99.576	ug/l	100
17) Allyl chloride	2.654	41	246065	99.923	ug/l	98
18) Methylene Chloride	2.782	84	144938	97.871	ug/l	96
19) trans-1,2-Dichloroethene	3.087	96	130562	98.015	ug/l	97
20) Diisopropyl ether	3.757	45	470167	99.355	ug/l #	82
21) 1,1-Dichloroethane	3.605	63	258430	98.196	ug/l	98
22) cis-1,2-Dichloroethene	4.477	96	156933	98.314	ug/l	99
23) tert-Butyl Alcohol	2.989	59	125570	481.055	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	426471	99.244	ug/l	99
25) Chloroform	5.080	83	248045	97.577	ug/l	99
26) Cyclohexane	5.458	56	236876	97.509	ug/l #	98
29) 1,1-Dichloropropene	5.684	75	174620	96.357	ug/l	100
30) 2-Butanone	4.550	43	505036	482.489	ug/l	99
31) 2,2-Dichloropropane	4.465	77	202370	98.758	ug/l	100
32) 1,1,1-Trichloroethane	5.373	97	211623	96.379	ug/l	99
33) Carbon Tetrachloride	5.666	117	178685	96.425	ug/l	99
34) Benzene	6.031	78	548369	96.492	ug/l	99
35) Methacrylonitrile	4.910	41	111962	99.957	ug/l	97
36) 1,2-Dichloroethane	6.080	62	189437	97.362	ug/l	98
37) Trichloroethene	7.117	130	128134	96.375	ug/l	97
38) Methylcyclohexane	7.373	83	237839	97.744	ug/l	97
39) 1,2-Dichloropropane	7.421	63	140148	99.193	ug/l	98
40) Dibromomethane	7.574	93	97805	96.465	ug/l	99
41) Bromodichloromethane	7.818	83	197339	97.929	ug/l	99
42) Vinyl Acetate	3.715	43	2042535	502.855	ug/l	99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022125\
Data File : VX045011.D
Acq On : 21 Feb 2025 11:07
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

Quant Time: Feb 22 00:48:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X022125W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Feb 22 00:21:26 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.708	43	199092	101.424	ug/l	97
44) Isopropyl Acetate	6.336	43	329903	102.113	ug/l	99
45) 1,4-Dioxane	7.659	88	63728	1897.493	ug/l	98
46) Methyl methacrylate	7.690	41	162523	102.589	ug/l	100
47) n-amyl Acetate	10.842	43	282922	100.917	ug/l	98
48) t-1,3-Dichloropropene	8.976	75	202810	104.416	ug/l	98
49) cis-1,3-Dichloropropene	8.360	75	223833	101.800	ug/l	100
50) 1,1,2-Trichloroethane	9.147	97	127690	96.553	ug/l	95
51) Ethyl methacrylate	9.110	69	214475	103.117	ug/l	97
52) 1,3-Dichloropropane	9.305	76	222694	96.102	ug/l	99
53) Dibromochloromethane	9.519	129	144384	98.713	ug/l	97
54) 1,2-Dibromoethane	9.604	107	130524	97.194	ug/l	100
55) 2-Chloroethyl vinyl ether	8.238	63	535473	501.334	ug/l	99
56) Bromoform	10.799	173	92416	100.830	ug/l	98
58) 4-Methyl-2-Pentanone	8.574	43	983713	489.624	ug/l	99
59) 2-Hexanone	9.427	43	708849	488.118	ug/l	98
61) Tetrachloroethene	9.269	164	104854	96.410	ug/l	97
62) Toluene	8.714	91	575772	98.410	ug/l	99
64) Chlorobenzene	10.073	112	359123	99.055	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.159	131	117602	98.304	ug/l	98
66) Ethyl Benzene	10.189	91	641324	100.122	ug/l	97
67) m/p-Xylenes	10.299	106	470322	197.072	ug/l	98
68) o-Xylene	10.640	106	230392	98.392	ug/l	100
69) Styrene	10.653	104	387436	99.067	ug/l	98
70) Isopropylbenzene	10.957	105	596402	98.698	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.207	83	190591	95.916	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	158994m	97.283	ug/l	
73) Bromobenzene	11.195	156	136270	97.960	ug/l	98
74) n-propylbenzene	11.299	91	717361	99.759	ug/l	99
75) 2-Chlorotoluene	11.360	91	421424	96.938	ug/l	98
76) 1,3,5-Trimethylbenzene	11.451	105	487050	97.701	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	59873	108.886	ug/l	98
78) 4-Chlorotoluene	11.451	91	477861	98.607	ug/l	98
79) tert-butylbenzene	11.713	119	490816	97.716	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	486770	97.478	ug/l	100
81) sec-Butylbenzene	11.890	105	616448	97.788	ug/l	100
82) p-Isopropyltoluene	12.006	119	510223	99.893	ug/l	99
83) 1,3-Dichlorobenzene	11.963	146	250755	96.883	ug/l	98
84) 1,4-Dichlorobenzene	12.036	146	249668	97.834	ug/l	99
85) n-Butylbenzene	12.329	91	476457	102.150	ug/l	98
86) Hexachloroethane	12.536	117	92493	102.679	ug/l	100
87) 1,2-Dichlorobenzene	12.335	146	240056	94.528	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.939	75	37960	98.669	ug/l	98
89) 1,2,4-Trichlorobenzene	13.585	180	158594	103.039	ug/l	98
90) Hexachlorobutadiene	13.719	225	60565	96.489	ug/l	98
91) Naphthalene	13.774	128	548026	100.977	ug/l	100
92) 1,2,3-Trichlorobenzene	13.957	180	158881	100.267	ug/l	100

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

ICAL Form

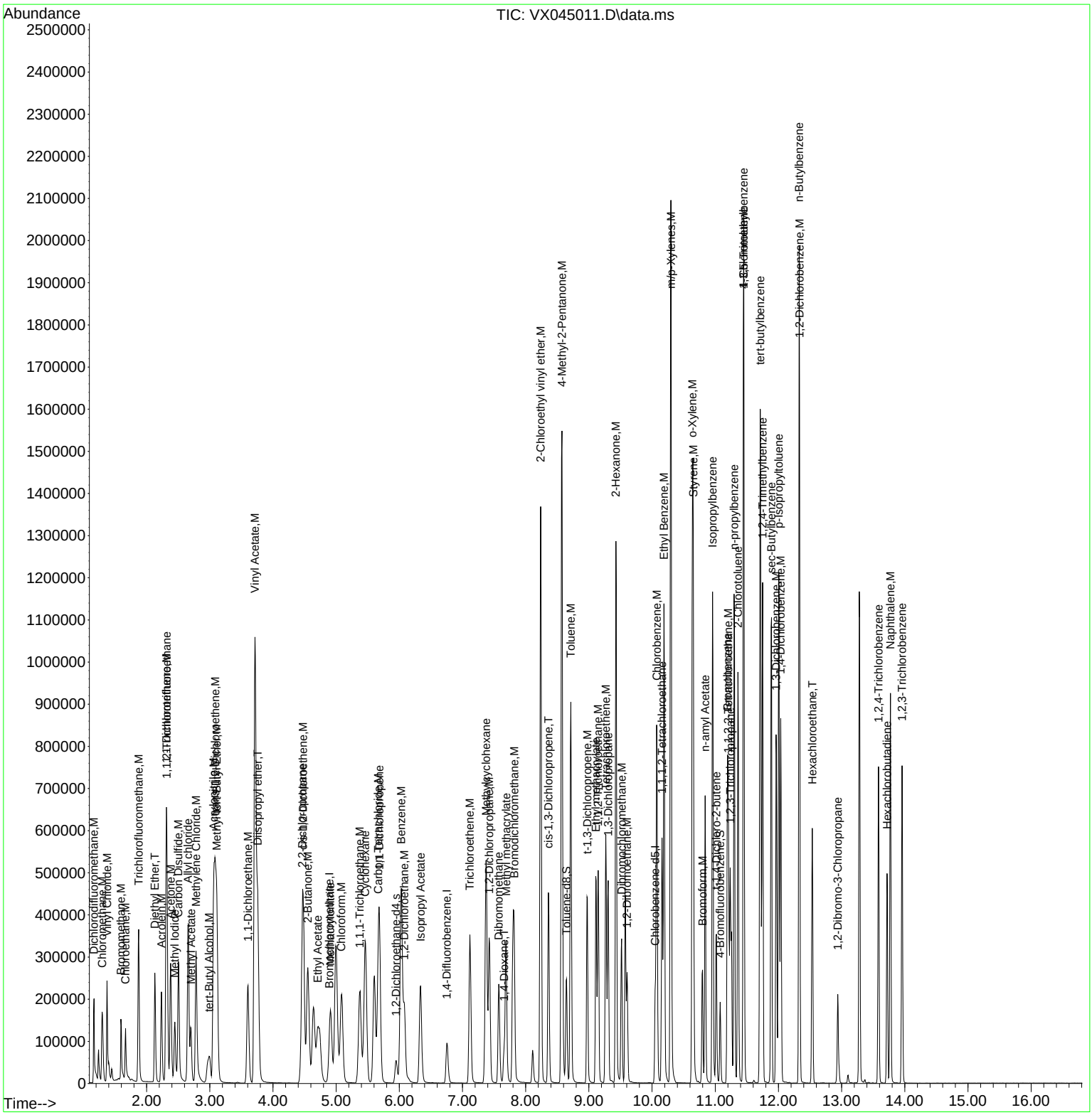
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022125\
Data File : VX045011.D
Acq On : 21 Feb 2025 11:07
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

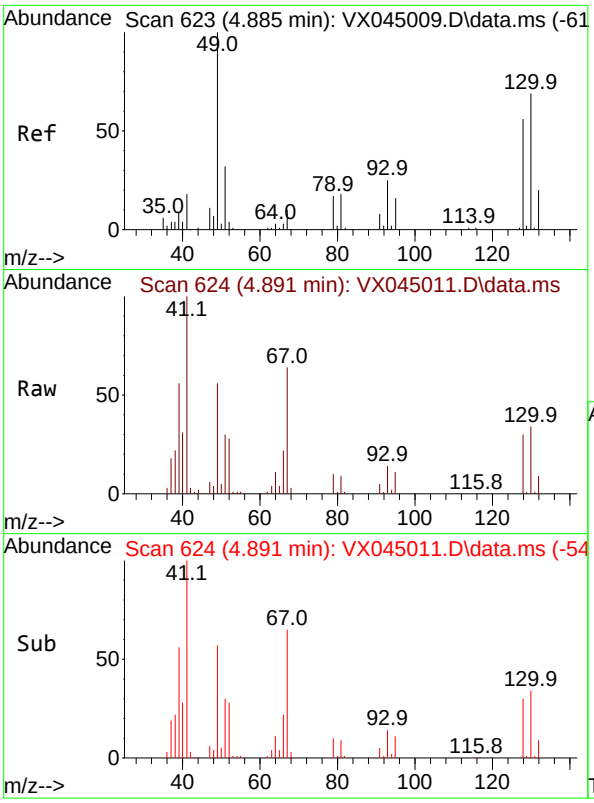
Quant Time: Feb 22 00:48:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X022125W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Feb 22 00:21:26 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

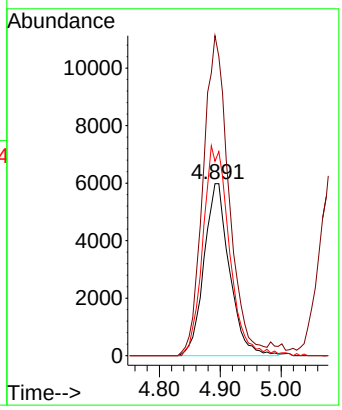




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.891 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion:128 Resp: 1733

Ion	Ratio	Lower	Upper
128	100		
49	189.4	0.0	449.7
130	126.9	0.0	312.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
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Reviewed By :John Carlone 02/24/2025
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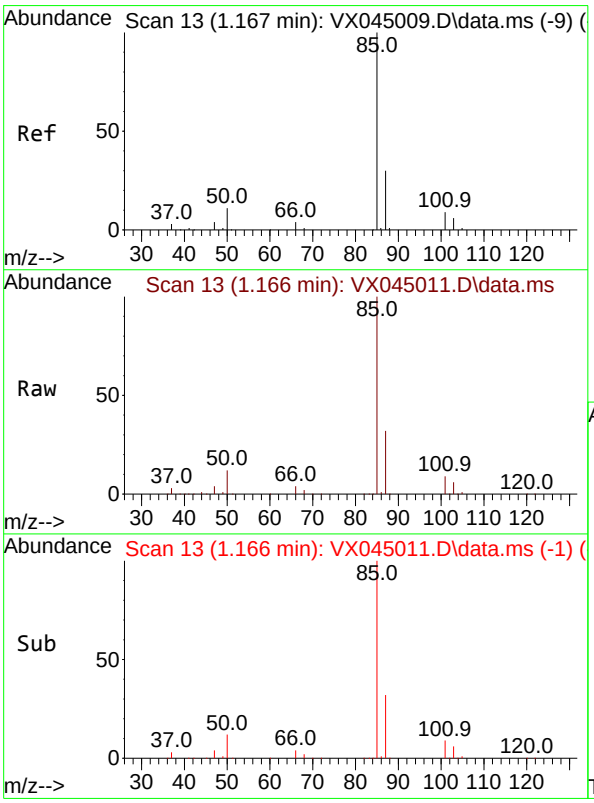
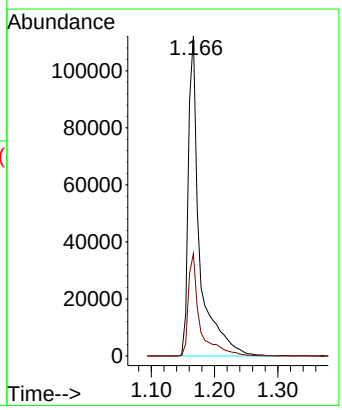
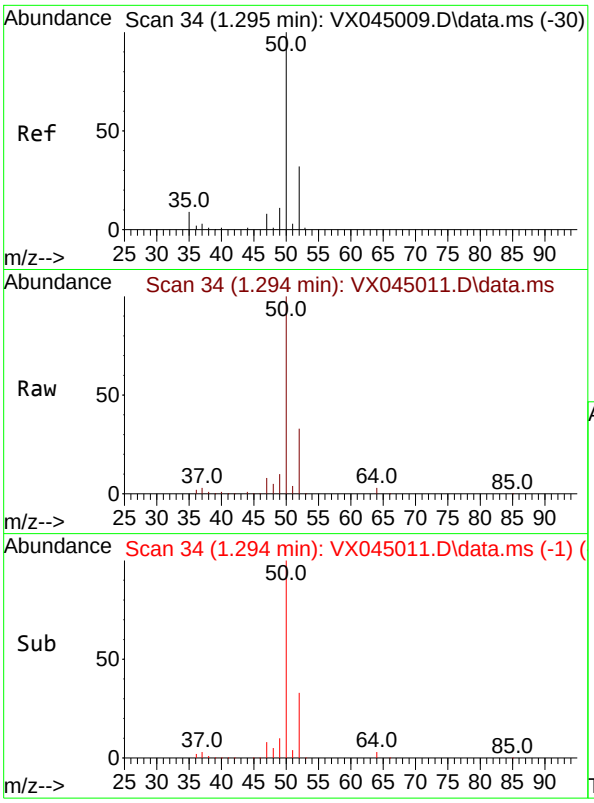


#2
Dichlorodifluoromethane
Concen: 95.997 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion: 85 Resp: 140259

Ion	Ratio	Lower	Upper
85	100		
87	32.0	15.1	45.3

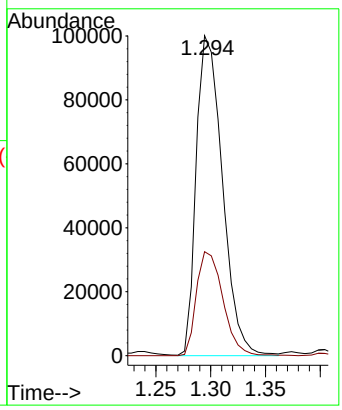




#3
Chloromethane
Concen: 94.924 ug/l
RT: 1.294 min Scan# 34
Delta R.T. -0.000 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion: 50 Resp: 16611

Ion	Ratio	Lower	Upper
50	100		
52	32.6	25.7	38.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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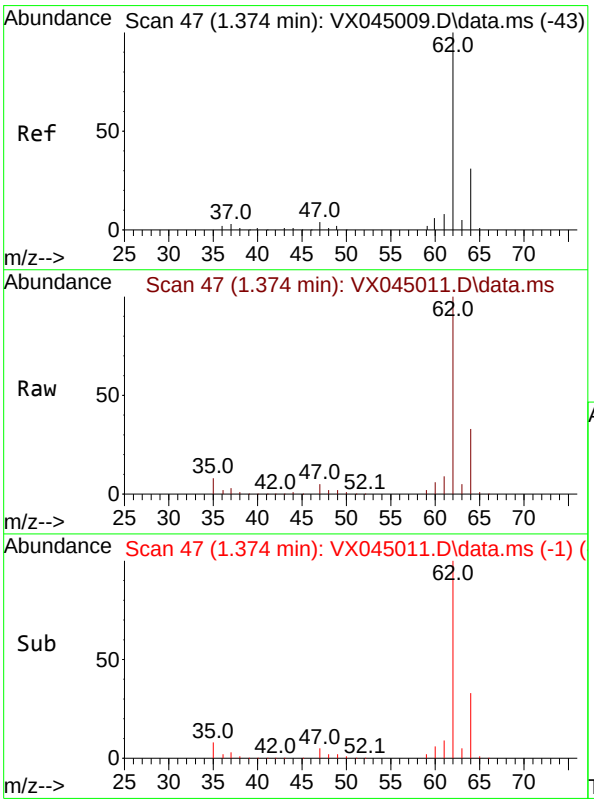
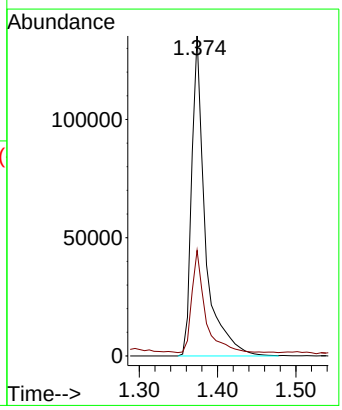
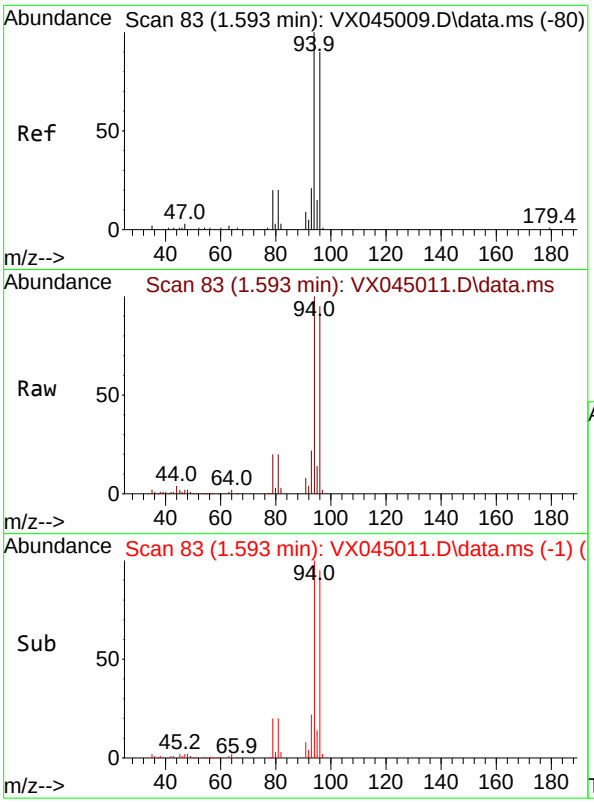


#4
Vinyl Chloride
Concen: 96.669 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion: 62 Resp: 163236

Ion	Ratio	Lower	Upper
62	100		
64	31.9	25.1	37.7

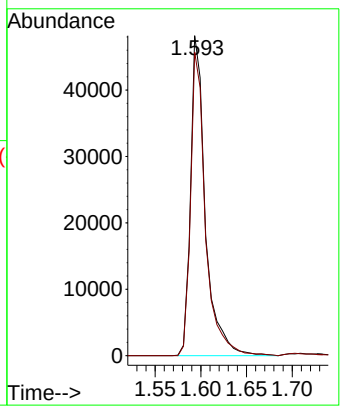




#5
Bromomethane
Concen: 92.819 ug/l
RT: 1.593 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion: 94 Resp: 5455

Ion	Ratio	Lower	Upper
94	100		
96	94.9	72.2	108.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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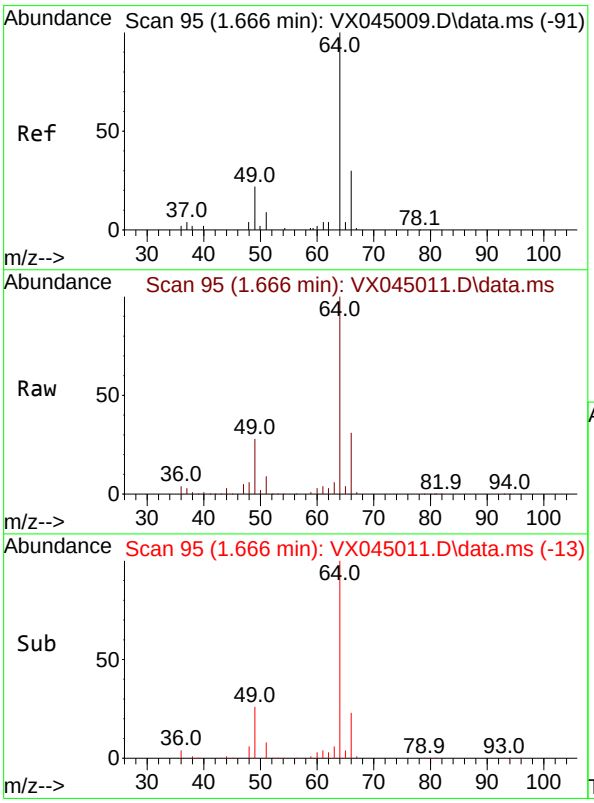
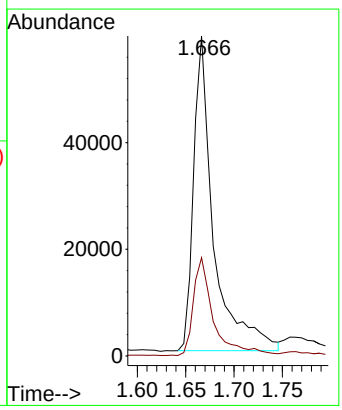
Supervised By :Mahesh Dadoda 02/24/2025

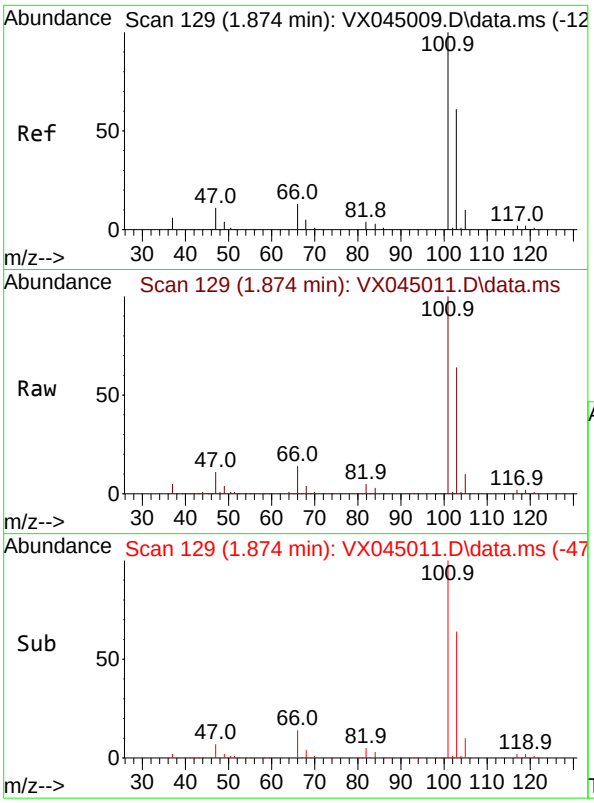


#6
Chloroethane
Concen: 92.599 ug/l
RT: 1.666 min Scan# 95
Delta R.T. -0.000 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion: 64 Resp: 84688

Ion	Ratio	Lower	Upper
64	100		
66	31.1	23.7	35.5





#7
Trichlorofluoromethane
Concen: 96.956 ug/l
RT: 1.874 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion:101 Resp: 22004

Ion	Ratio	Lower	Upper
101	100		
103	64.4	48.8	73.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
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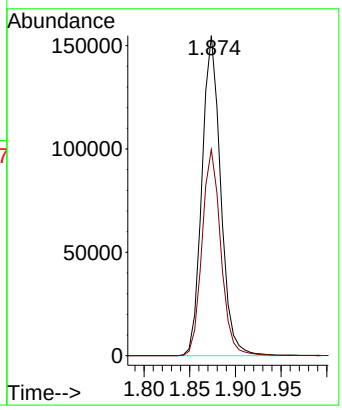
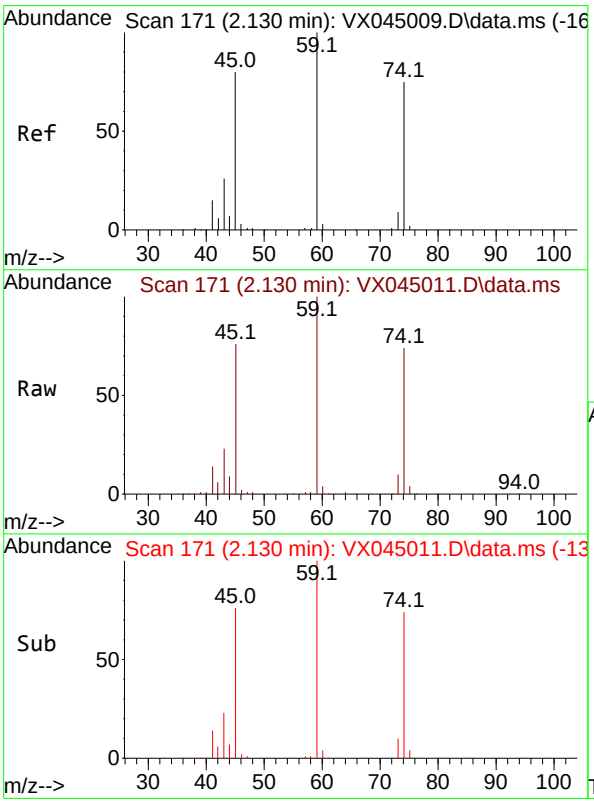
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

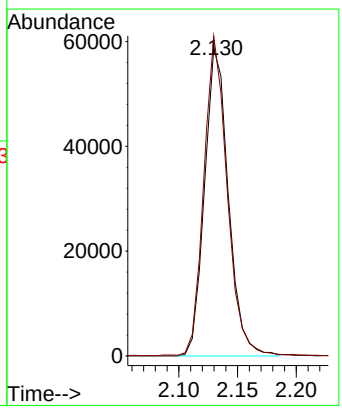


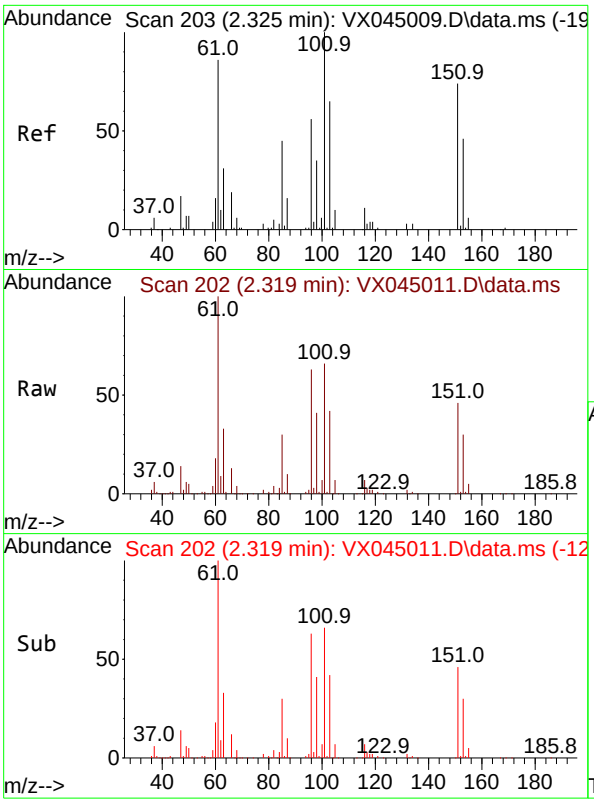


#8
Diethyl Ether
Concen: 96.616 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.000 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion: 74 Resp: 82964

Ion	Ratio	Lower	Upper
74	100		
45	100.7	20.8	186.8





#9
1,1,2-Trichlorotrifluoroethane
Concen: 96.068 ug/l
RT: 2.319 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion:101 Resp: 12949

Ion	Ratio	Lower	Upper
101	100		
85	45.0	0.0	90.6
151	70.6	0.0	147.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
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Reviewed By :John Carlone 02/24/2025
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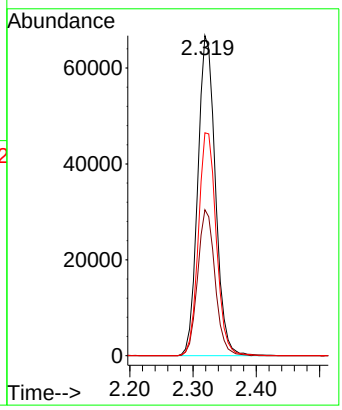
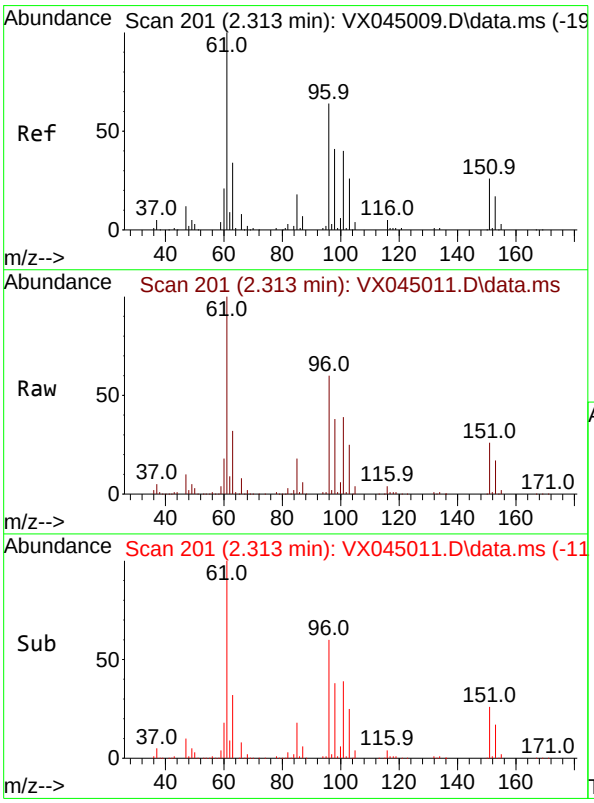
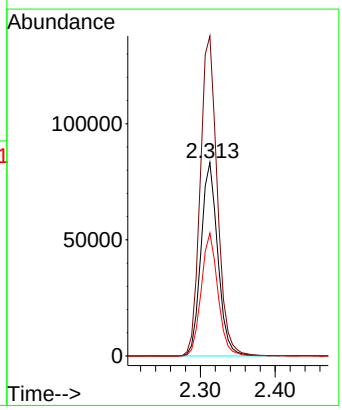


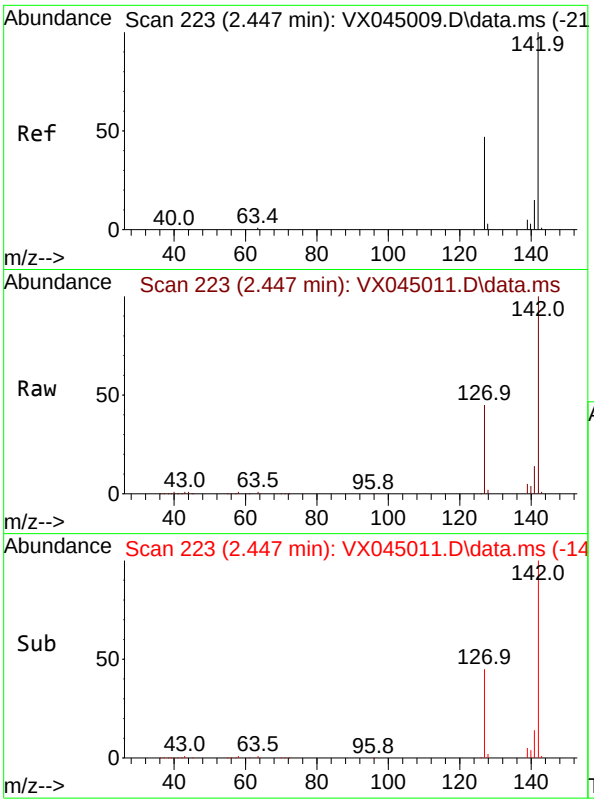


#10
1,1-Dichloroethene
Concen: 99.244 ug/l
RT: 2.313 min Scan# 201
Delta R.T. -0.000 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion: 96 Resp: 130666

Ion	Ratio	Lower	Upper
96	100		
61	165.4	124.2	186.2
98	63.5	51.1	76.7

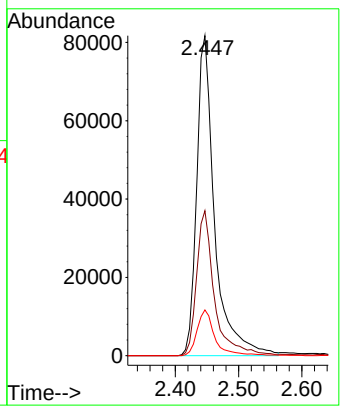




#11
Methyl Iodide
Concen: 108.607 ug/l
RT: 2.447 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion:142 Resp: 16184

Ion	Ratio	Lower	Upper
142	100		
127	45.3	23.3	69.9
141	14.3	7.5	22.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
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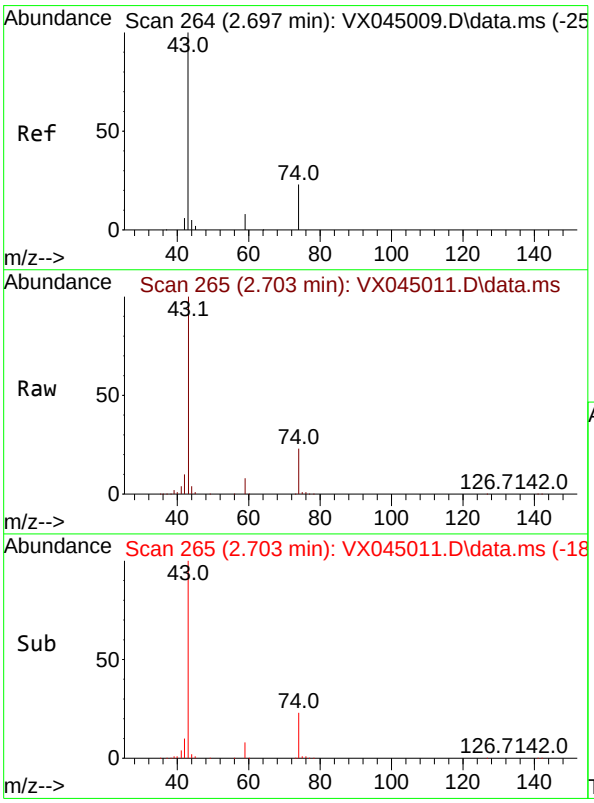
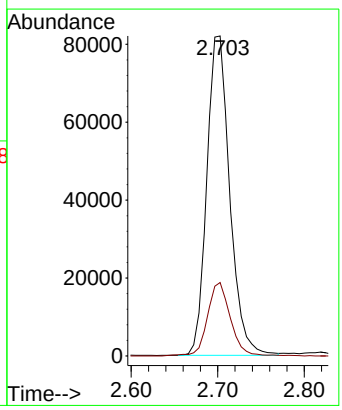
Supervised By :Mahesh Dadoda 02/24/2025

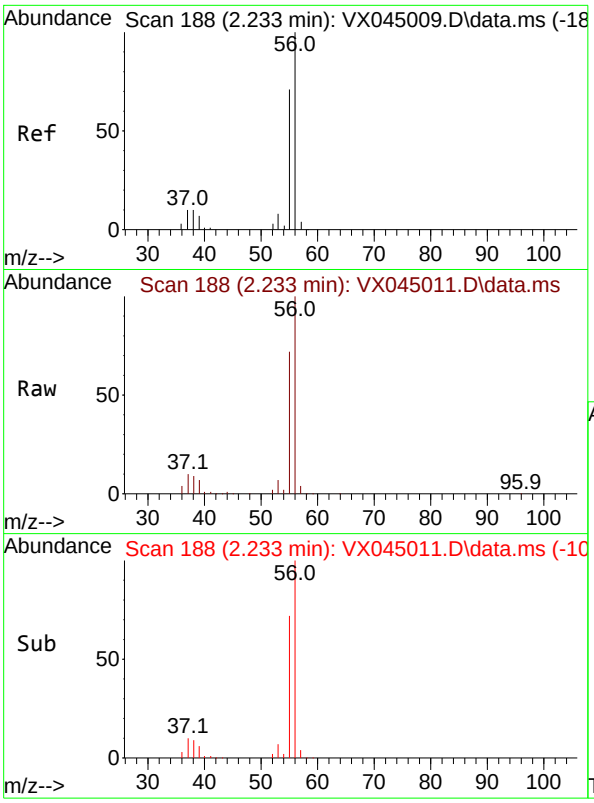


#12
Methyl Acetate
Concen: 98.675 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.006 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion: 43 Resp: 150865

Ion	Ratio	Lower	Upper
43	100		
74	22.8	17.9	26.9

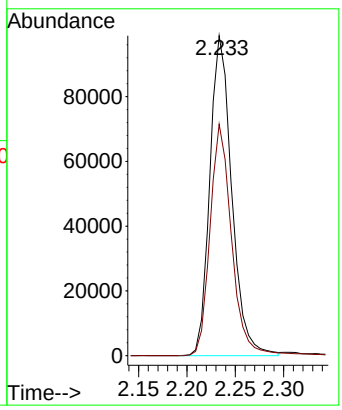




#13
Acrolein
Concen: 509.382 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion: 56 Resp: 15610

Ion	Ratio	Lower	Upper
56	100		
55	71.5	55.4	83.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
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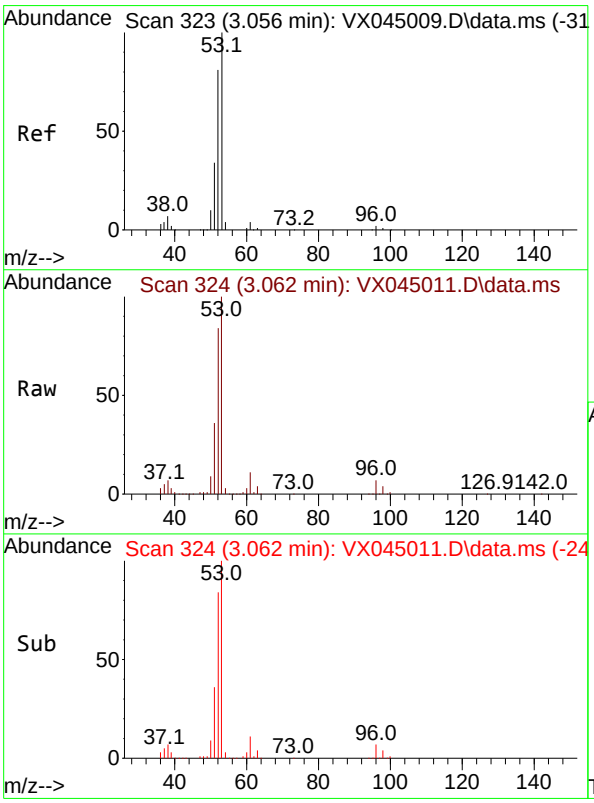
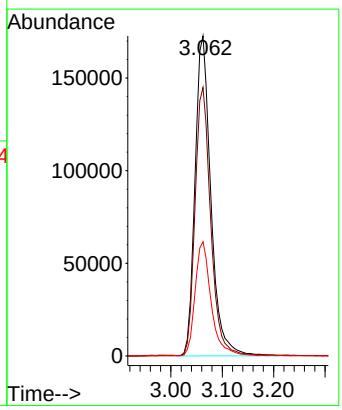
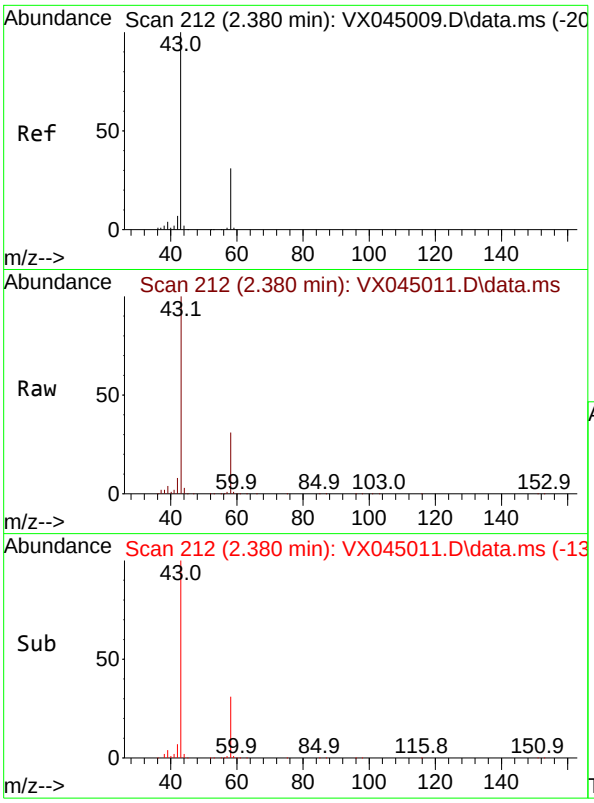


#14
Acrylonitrile
Concen: 496.667 ug/l
RT: 3.062 min Scan# 324
Delta R.T. 0.006 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion: 53 Resp: 370914

Ion	Ratio	Lower	Upper
53	100		
52	82.7	40.9	122.8
51	35.9	18.0	54.0





#15
Acetone
Concen: 476.326 ug/l
RT: 2.380 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion: 58 Resp: 9756

Ion	Ratio	Lower	Upper
58	100		
43	327.6	258.6	388.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
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Reviewed By :John Carlone 02/24/2025
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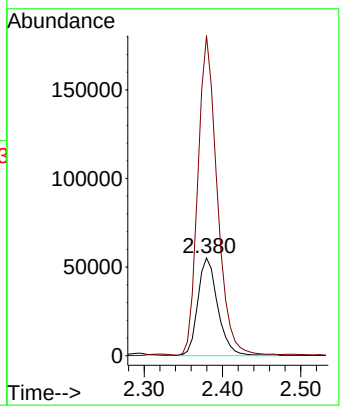
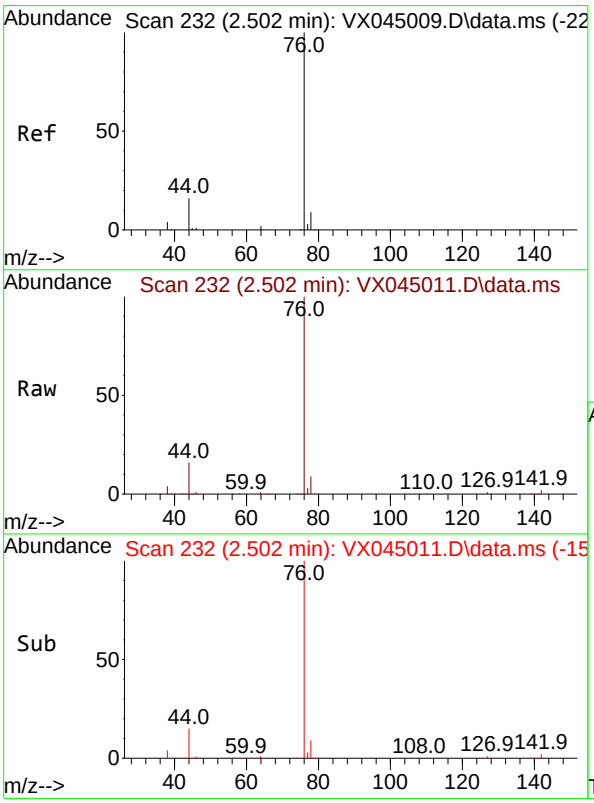
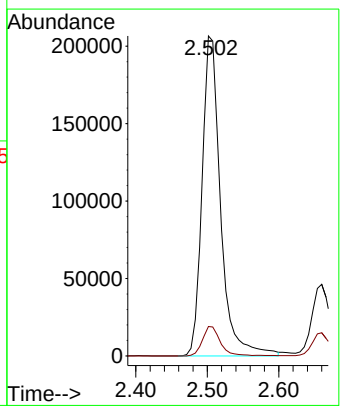


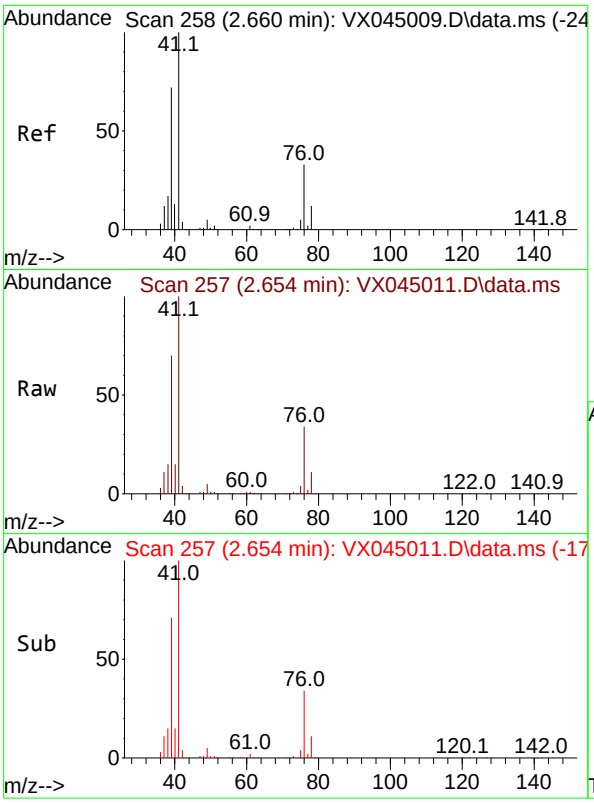


#16
Carbon Disulfide
Concen: 99.576 ug/l
RT: 2.502 min Scan# 232
Delta R.T. -0.000 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion: 76 Resp: 371874

Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.3	10.9

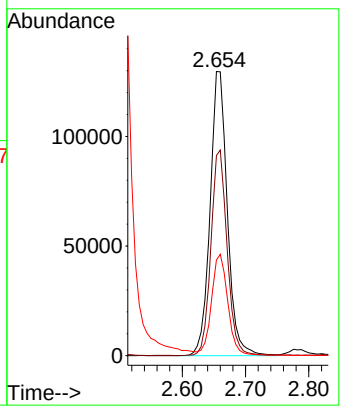




#17
Allyl chloride
Concen: 99.923 ug/l
RT: 2.654 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion: 41 Resp: 24606

Ion	Ratio	Lower	Upper
41	100		
39	70.4	36.2	108.6
76	33.5	17.2	51.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
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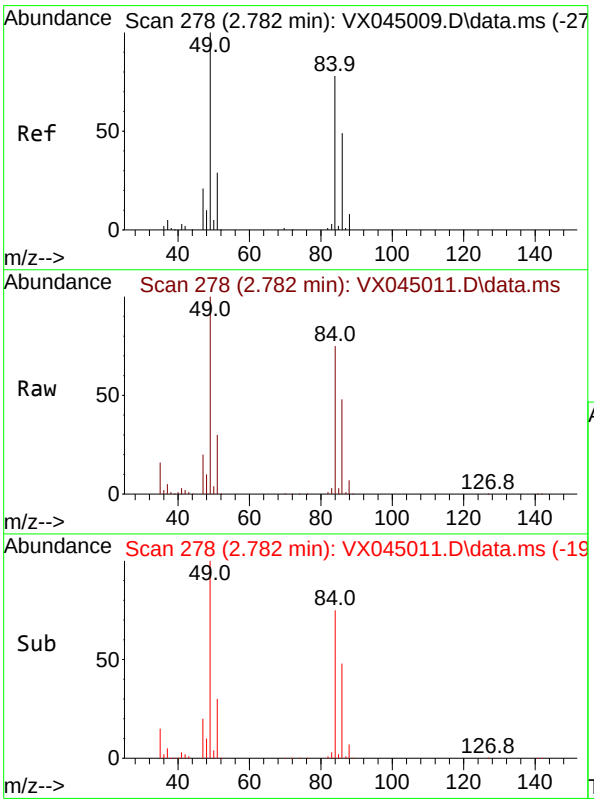
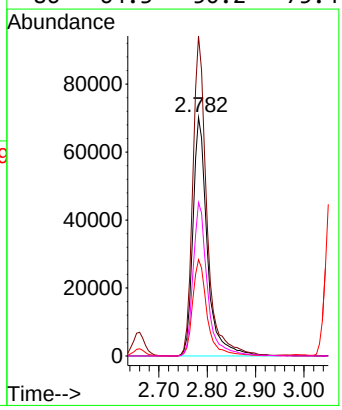
Supervised By :Mahesh Dadoda 02/24/2025

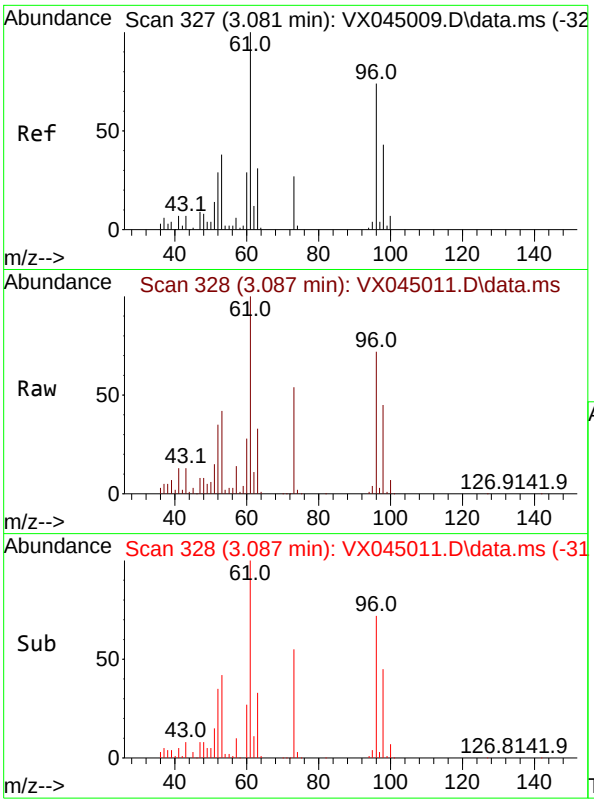


#18
Methylene Chloride
Concen: 97.871 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion: 84 Resp: 144938

Ion	Ratio	Lower	Upper
84	100		
49	134.0	102.8	154.2
51	40.4	30.1	45.1
86	64.3	50.2	75.4





#19
trans-1,2-Dichloroethene
Concen: 98.015 ug/l
RT: 3.087 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion: 96 Resp: 13056

Ion	Ratio	Lower	Upper
96	100		
61	138.3	108.6	163.0
98	62.5	46.5	69.7

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
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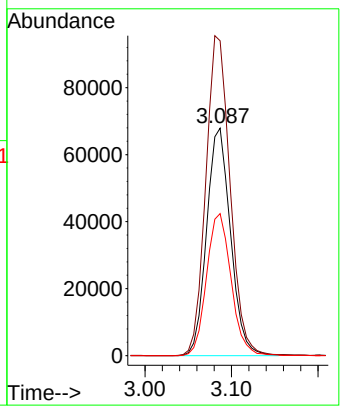
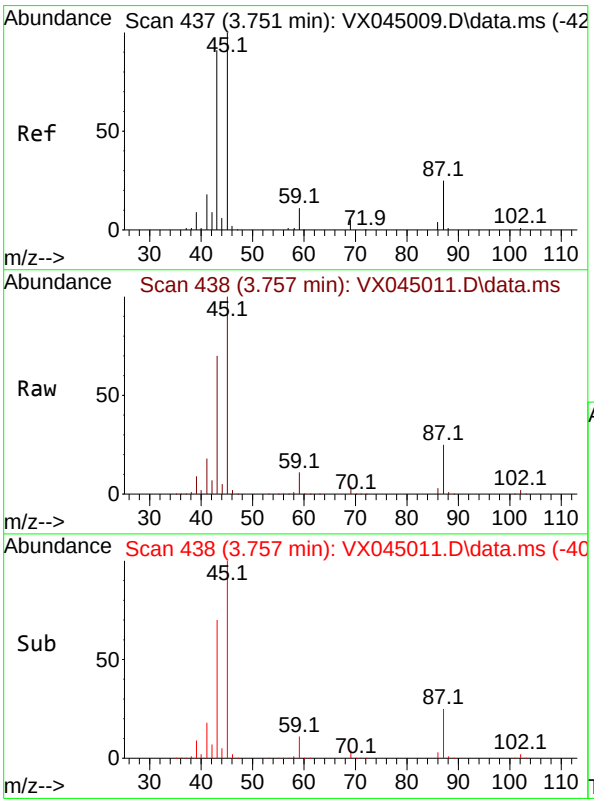
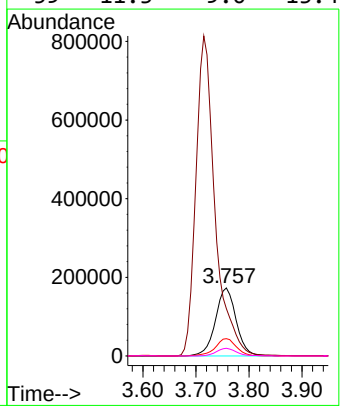


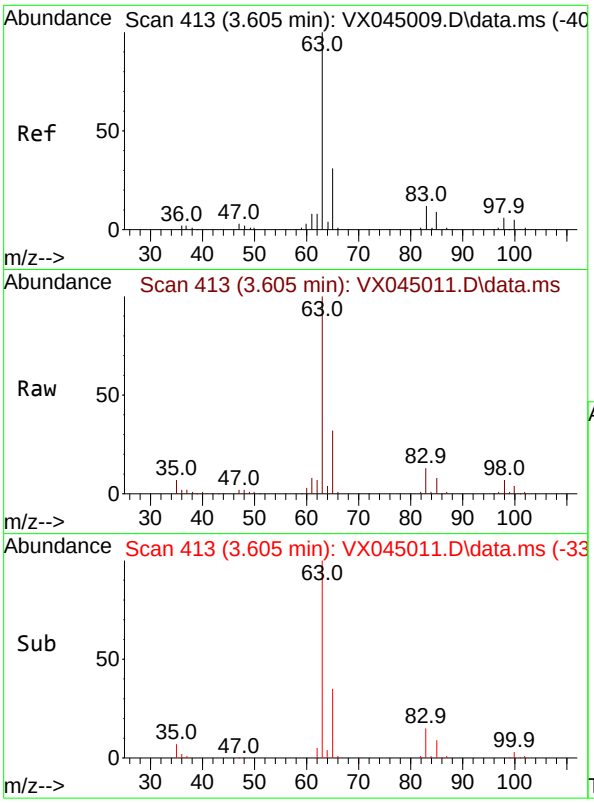


#20
Diisopropyl ether
Concen: 99.355 ug/l
RT: 3.757 min Scan# 438
Delta R.T. 0.006 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion: 45 Resp: 470167

Ion	Ratio	Lower	Upper
45	100		
43	69.5	74.4	111.6#
87	25.4	19.8	29.8
59	11.3	9.0	13.4

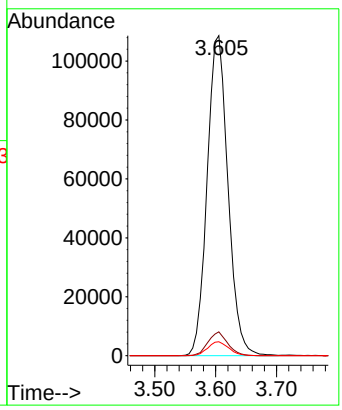




#21
1,1-Dichloroethane
Concen: 98.196 ug/l
RT: 3.605 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion: 63 Resp: 25843

Ion	Ratio	Lower	Upper
63	100		
98	7.5	3.3	9.8
100	4.4	2.4	7.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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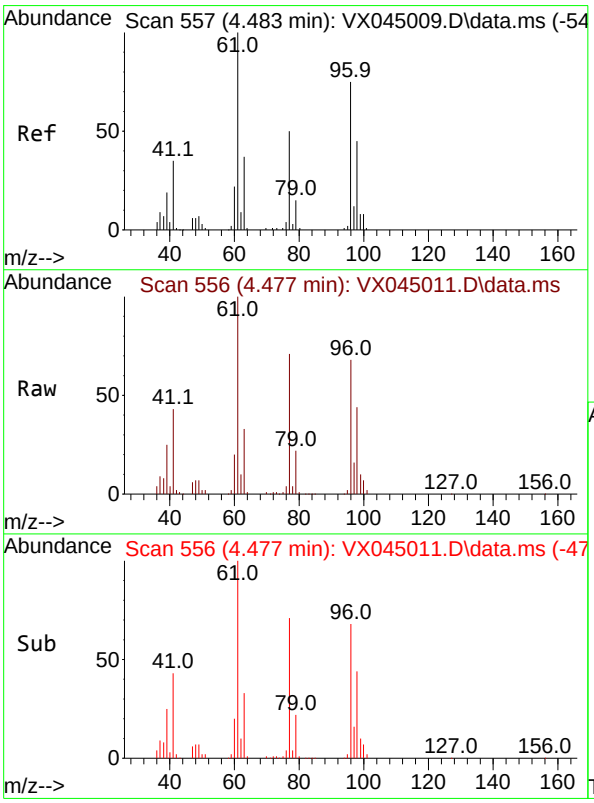
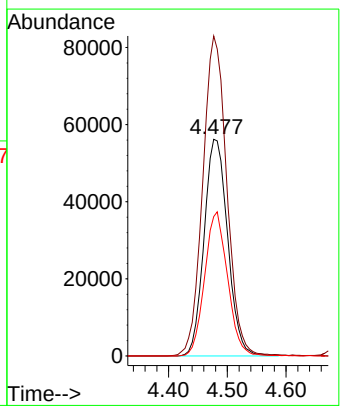
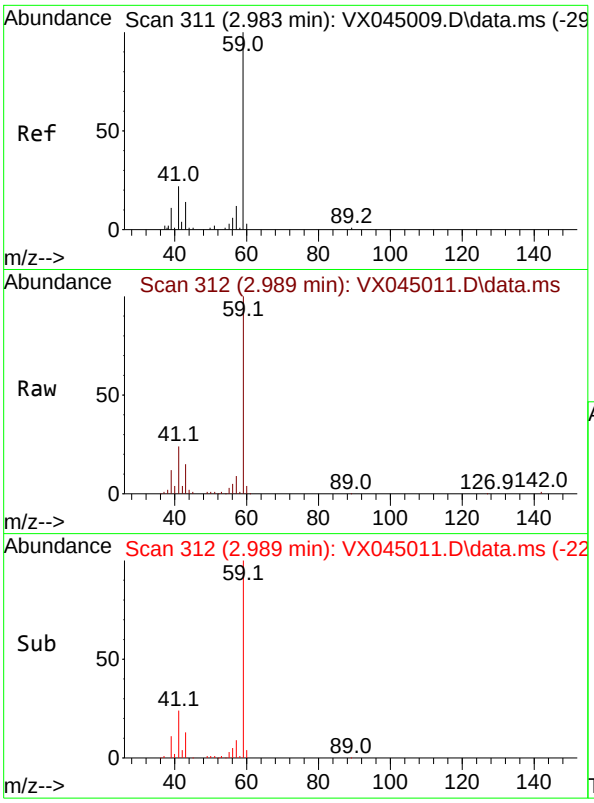


#22
cis-1,2-Dichloroethene
Concen: 98.314 ug/l
RT: 4.477 min Scan# 556
Delta R.T. -0.006 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion: 96 Resp: 156933

Ion	Ratio	Lower	Upper
96	100		
61	150.2	118.9	178.3
98	64.5	50.7	76.1

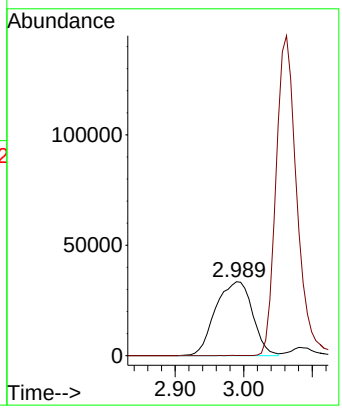




#23
tert-Butyl Alcohol
Concen: 481.055 ug/l
RT: 2.989 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion: 59 Resp: 12557

Ion	Ratio	Lower	Upper
59	100		
52	0.1	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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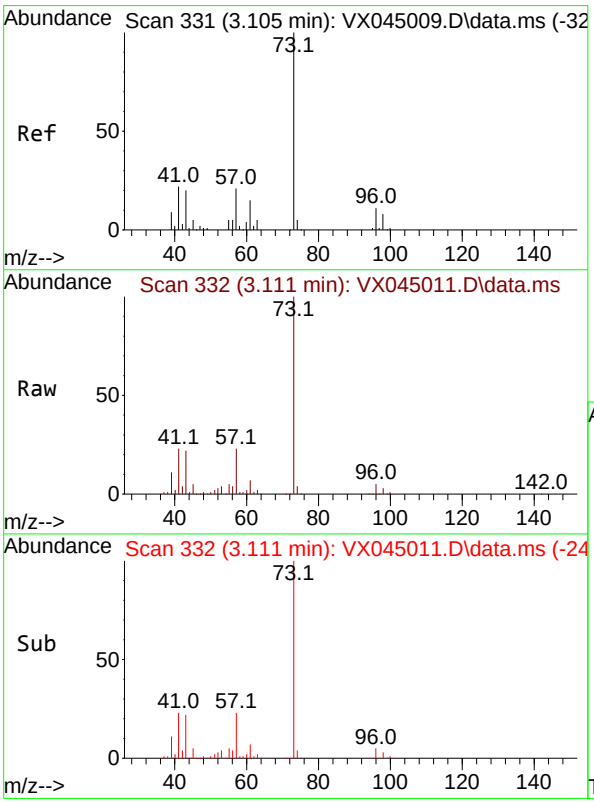
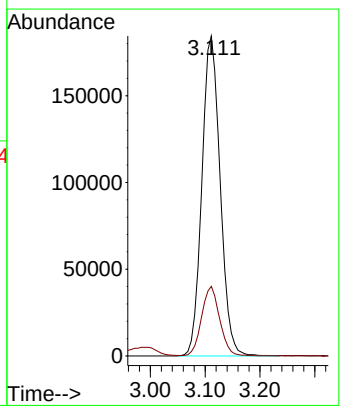
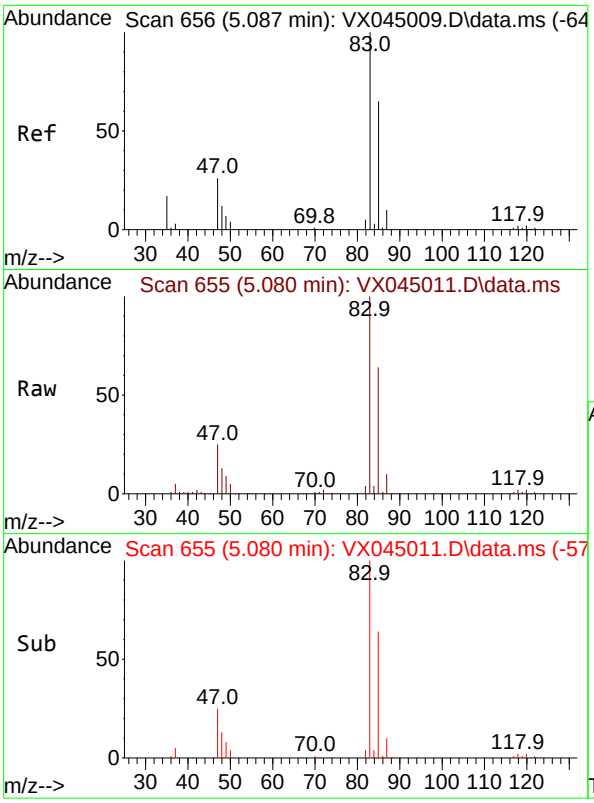


#24
Methyl tert-Butyl Ether
Concen: 99.244 ug/l
RT: 3.111 min Scan# 332
Delta R.T. 0.006 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion: 73 Resp: 426471

Ion	Ratio	Lower	Upper
73	100		
43	21.3	17.4	26.0

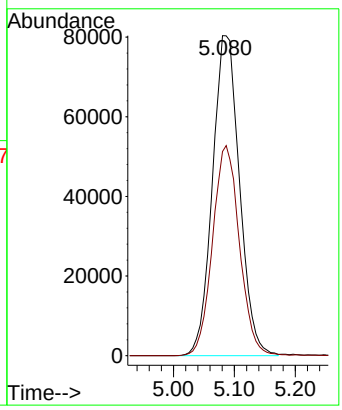




#25
Chloroform
Concen: 97.577 ug/l
RT: 5.080 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion: 83 Resp: 24804

Ion	Ratio	Lower	Upper
83	100		
85	63.7	51.7	77.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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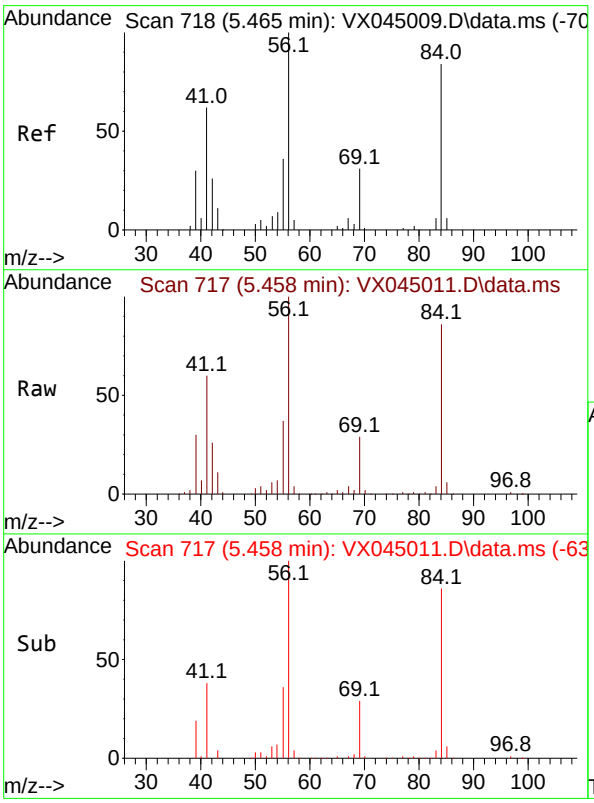
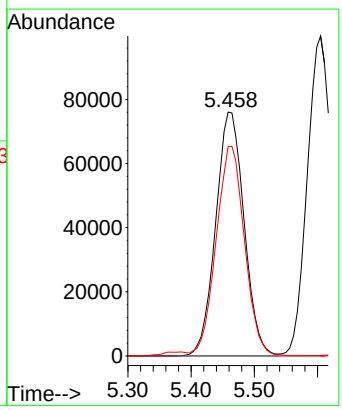
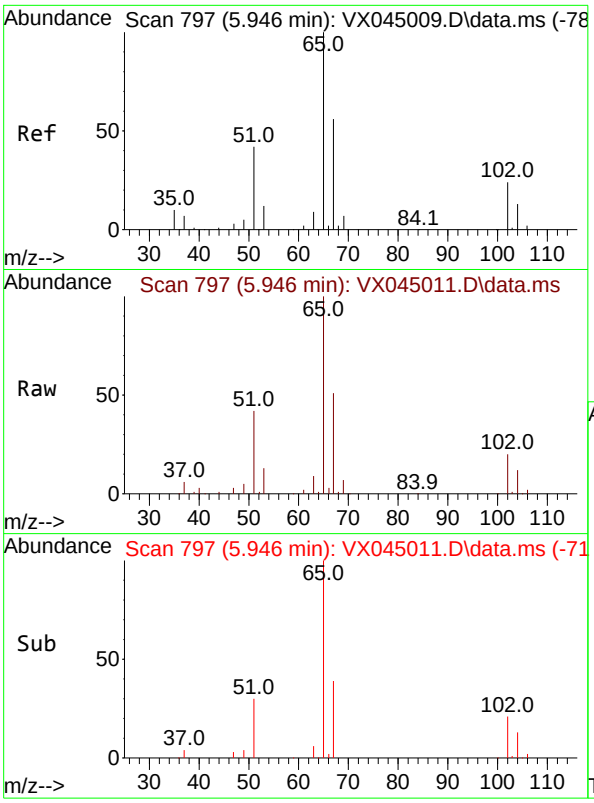


#26
Cyclohexane
Concen: 97.509 ug/l
RT: 5.458 min Scan# 717
Delta R.T. -0.006 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion: 56 Resp: 236876

Ion	Ratio	Lower	Upper
56	100		
89	0.0	0.0	0.0
84	86.0	67.1	100.7

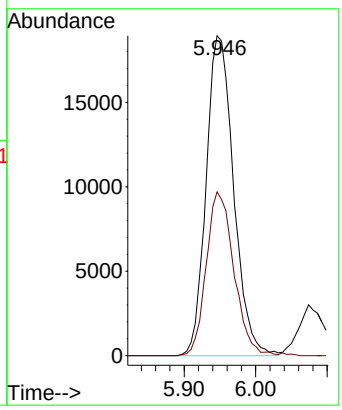




#27
1,2-Dichloroethane-d4
Concen: 30.059 ug/l
RT: 5.946 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion: 65 Resp: 5060

Ion	Ratio	Lower	Upper
65	100		
67	50.9	42.6	64.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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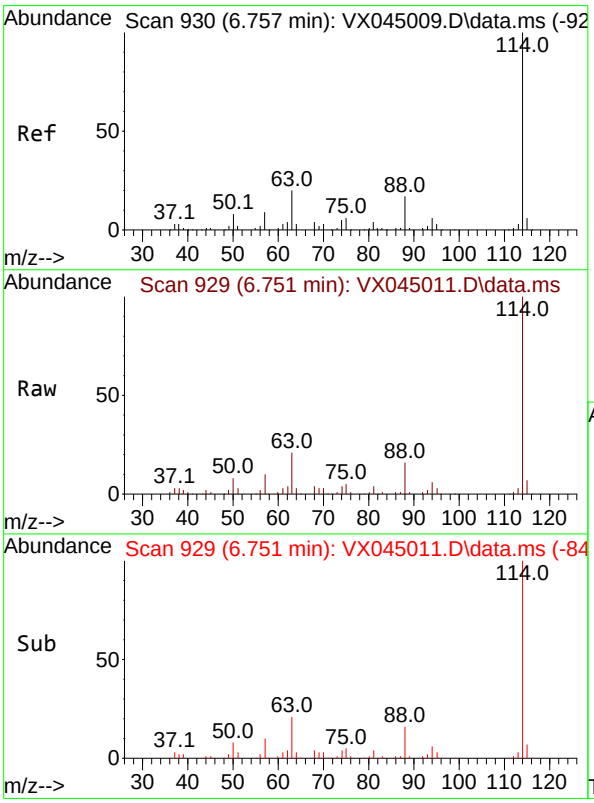
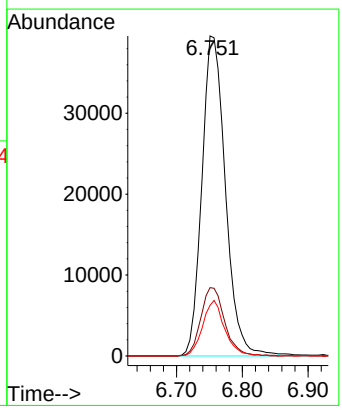
Supervised By :Mahesh Dadoda 02/24/2025

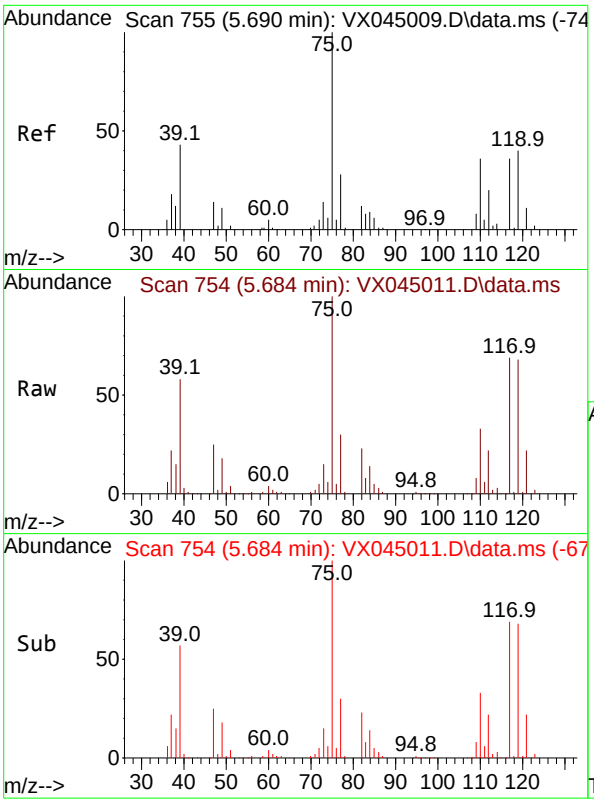


#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. -0.006 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion:114 Resp: 98516

Ion	Ratio	Lower	Upper
114	100		
63	21.6	16.8	25.2
88	16.3	12.7	19.1

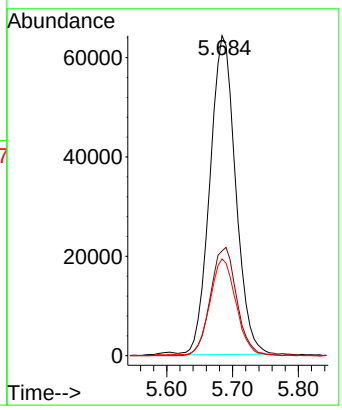




#29
1,1-Dichloropropene
Concen: 96.357 ug/l
RT: 5.684 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion: 75 Resp: 17462

Ion	Ratio	Lower	Upper
75	100		
110	34.7	0.0	69.2
77	30.9	0.0	61.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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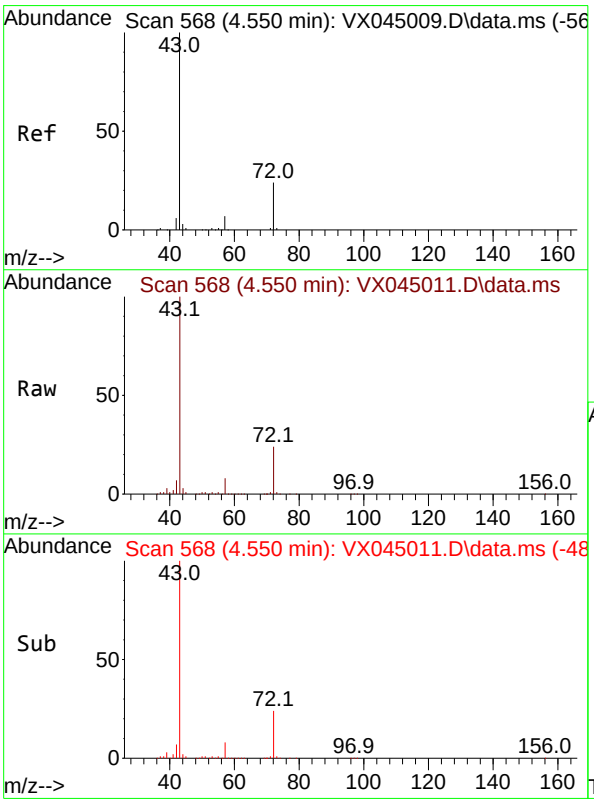
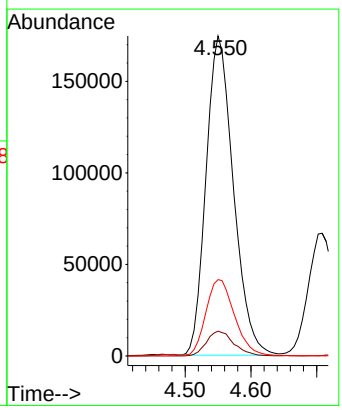
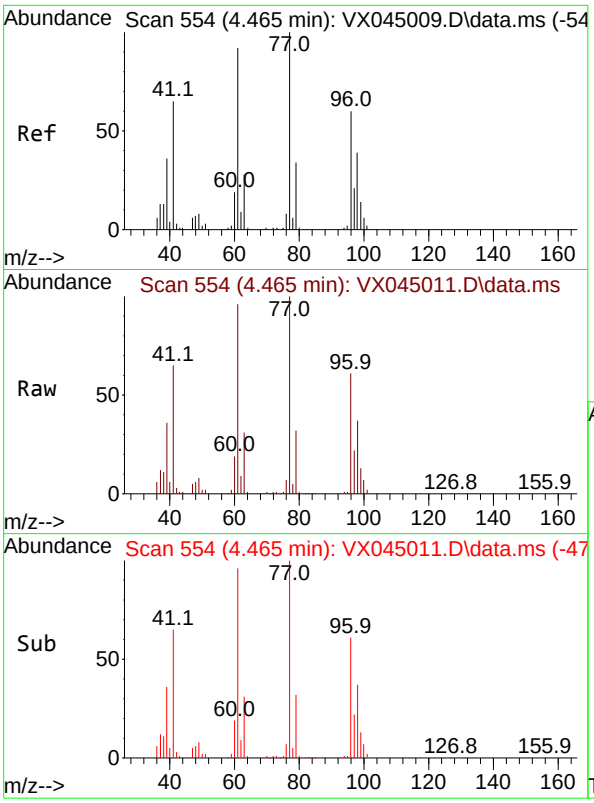


#30
2-Butanone
Concen: 482.489 ug/l
RT: 4.550 min Scan# 568
Delta R.T. -0.000 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion: 43 Resp: 505036

Ion	Ratio	Lower	Upper
43	100		
57	7.8	6.2	9.2
72	24.7	20.2	30.2

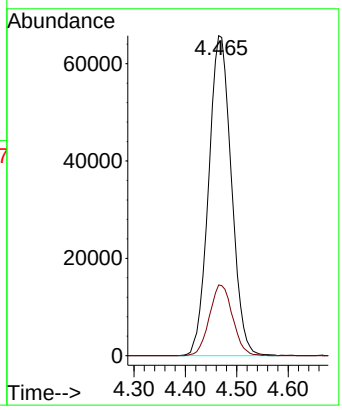




#31
2,2-Dichloropropane
Concen: 98.758 ug/l
RT: 4.465 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion: 77 Resp: 20237

Ion	Ratio	Lower	Upper
77	100		
97	22.5	18.0	27.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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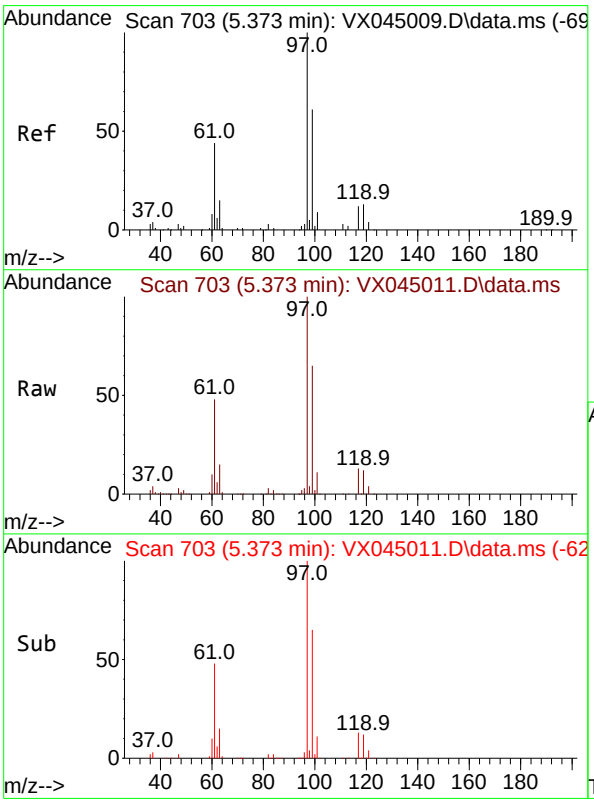
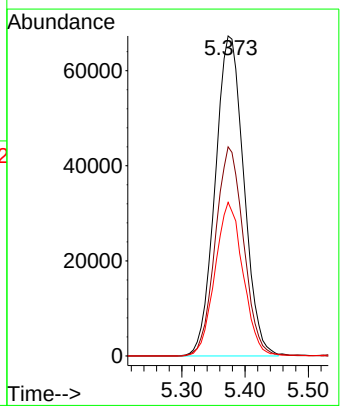
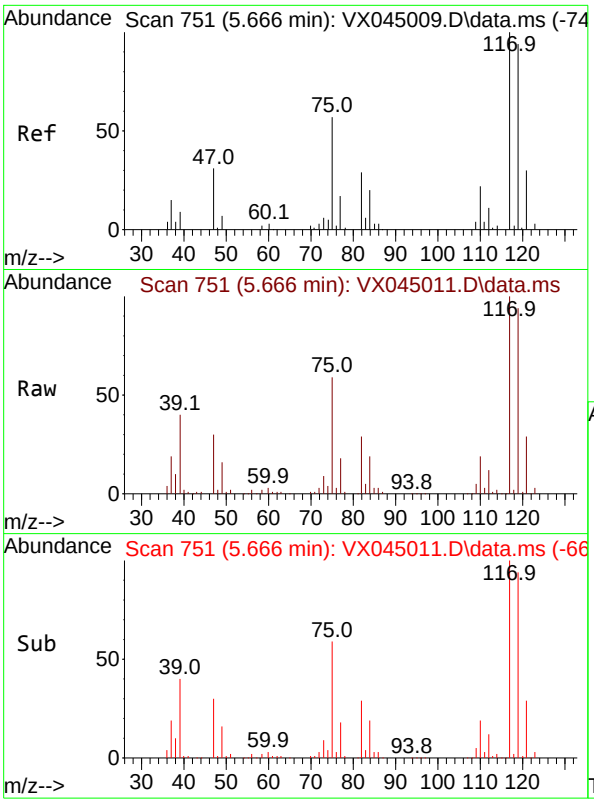


#32
1,1,1-Trichloroethane
Concen: 96.379 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion: 97 Resp: 211623

Ion	Ratio	Lower	Upper
97	100		
99	64.4	52.2	78.2
61	46.9	38.5	57.7





#33
Carbon Tetrachloride
Concen: 96.425 ug/l
RT: 5.666 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion:117 Resp: 17868

Ion	Ratio	Lower	Upper
117	100		
119	94.3	75.1	112.7
121	29.5	23.9	35.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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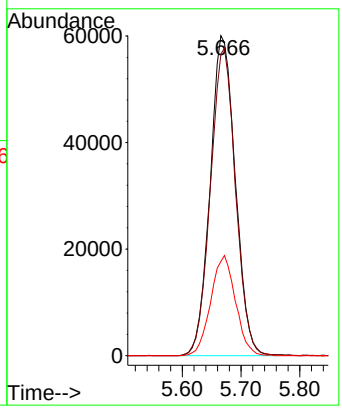
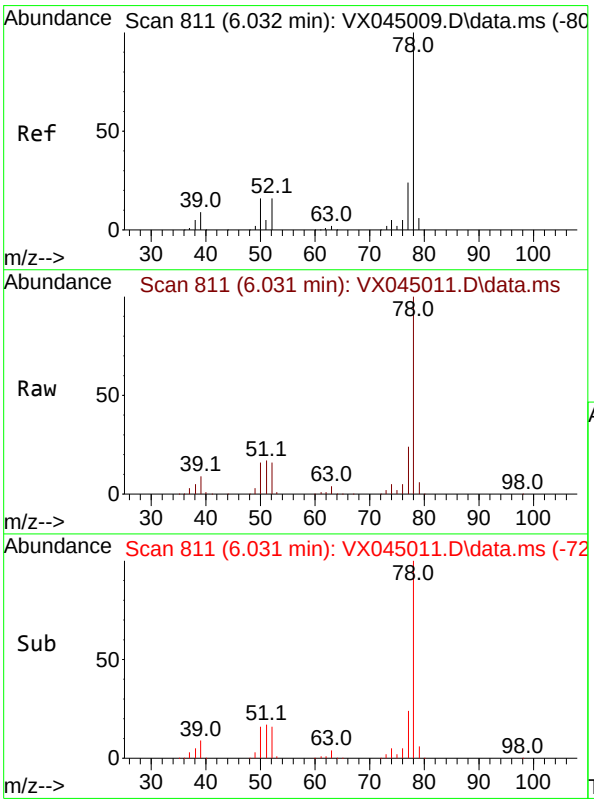
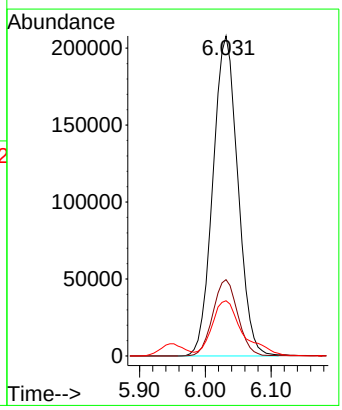


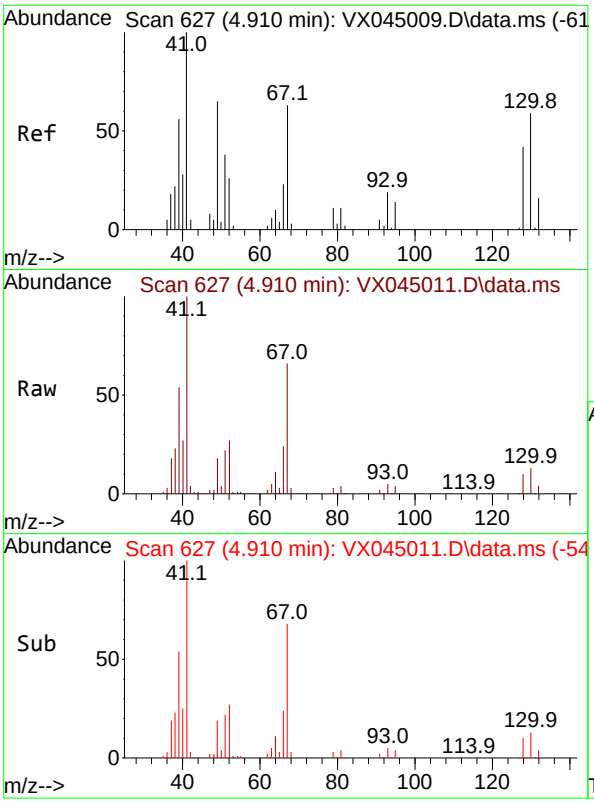


#34
Benzene
Concen: 96.492 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion: 78 Resp: 548369

Ion	Ratio	Lower	Upper
78	100		
77	23.9	19.6	29.4
51	16.4	13.8	20.6

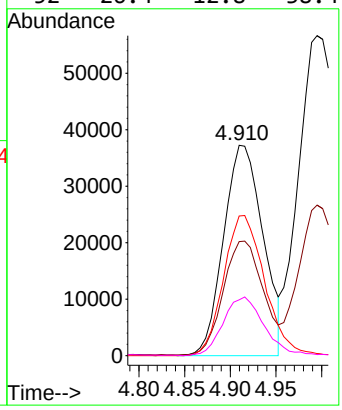




#35
Methacrylonitrile
Concen: 99.957 ug/l
RT: 4.910 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion: 41 Resp: 11196

Ion	Ratio	Lower	Upper
41	100		
39	53.8	27.8	83.4
67	66.4	31.5	94.5
52	26.4	12.8	38.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
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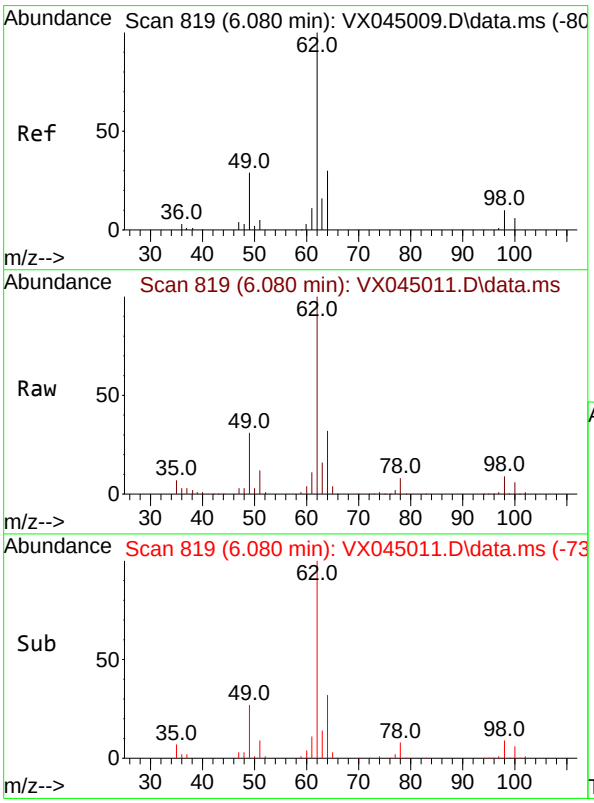
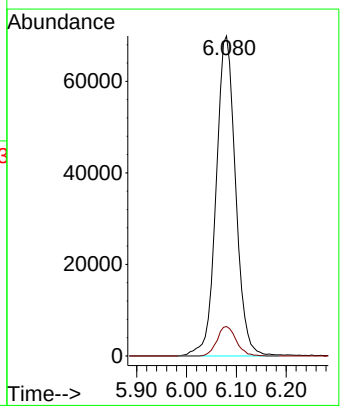
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

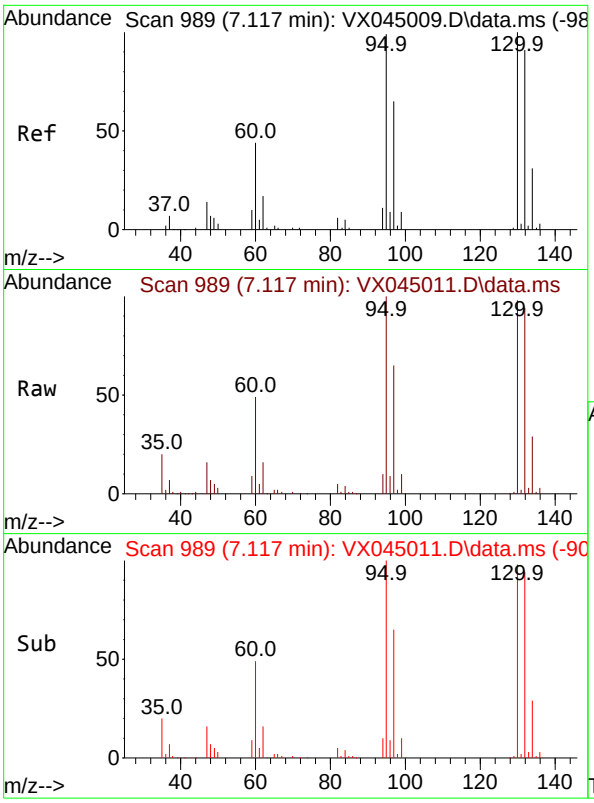


#36
1,2-Dichloroethane
Concen: 97.362 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.000 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion: 62 Resp: 189437

Ion	Ratio	Lower	Upper
62	100		
98	9.1	7.9	11.9

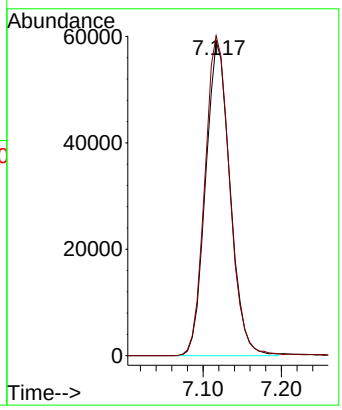




#37
Trichloroethene
Concen: 96.375 ug/l
RT: 7.117 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion:130 Resp: 12813

Ion	Ratio	Lower	Upper
130	100		
95	101.7	79.0	118.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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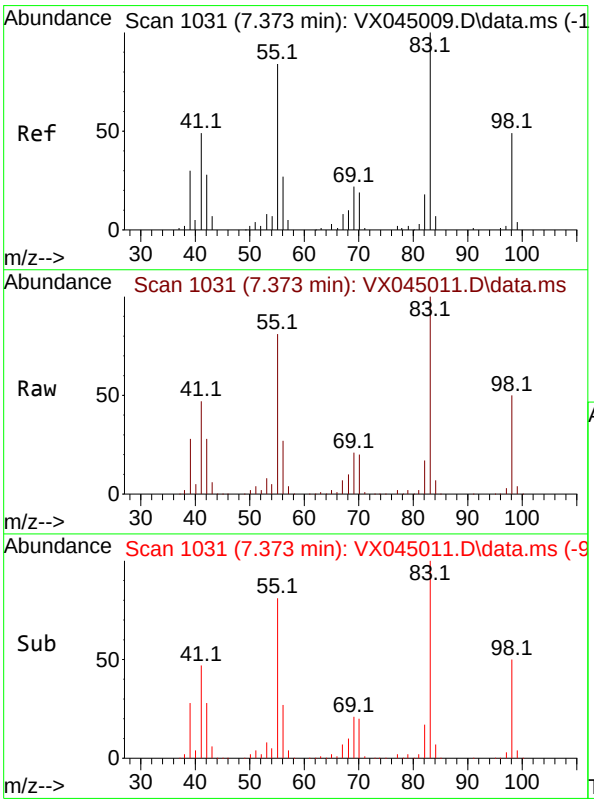
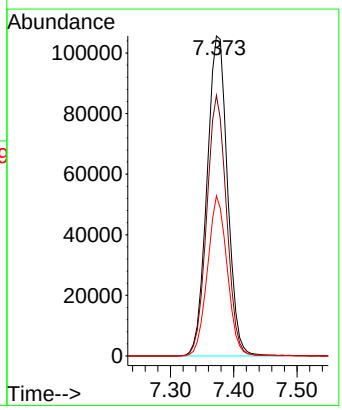
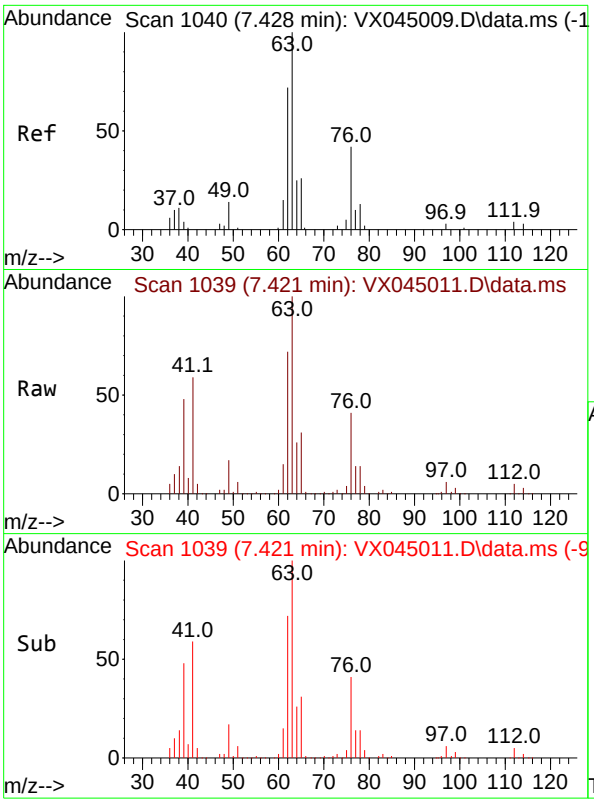


#38
Methylcyclohexane
Concen: 97.744 ug/l
RT: 7.373 min Scan# 1031
Delta R.T. -0.000 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion: 83 Resp: 237839

Ion	Ratio	Lower	Upper
83	100		
55	78.5	40.6	122.0
98	48.2	24.9	74.6

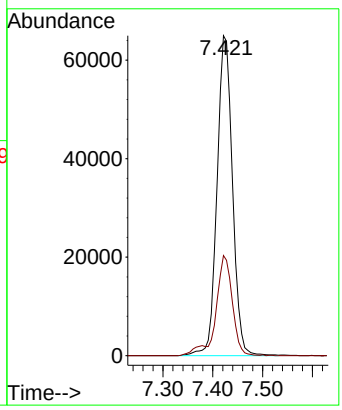




#39
1,2-Dichloropropane
Concen: 99.193 ug/l
RT: 7.421 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion: 63 Resp: 14014

Ion	Ratio	Lower	Upper
63	100		
65	31.3	24.3	36.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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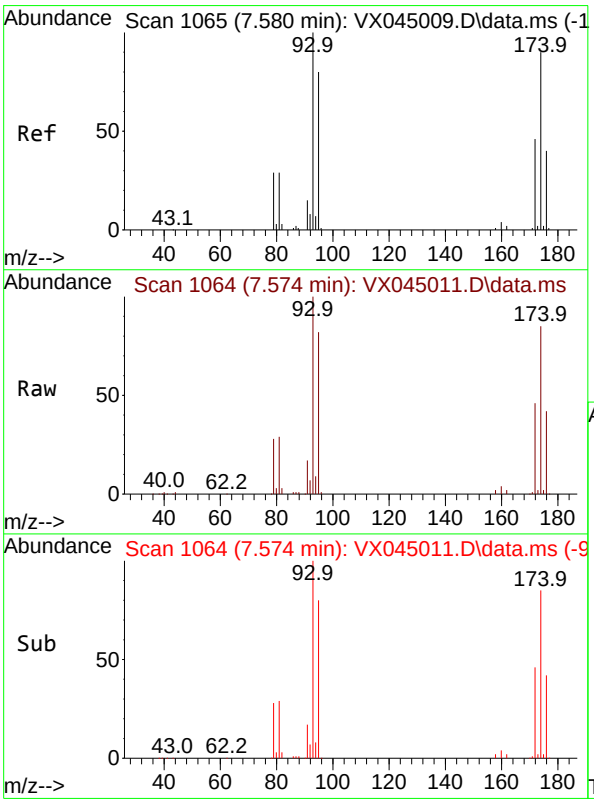
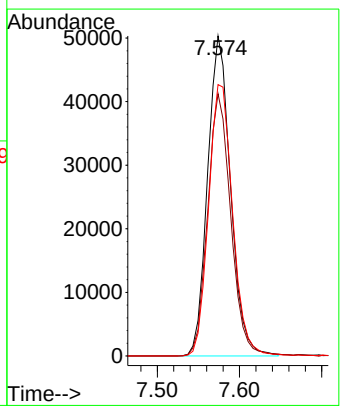
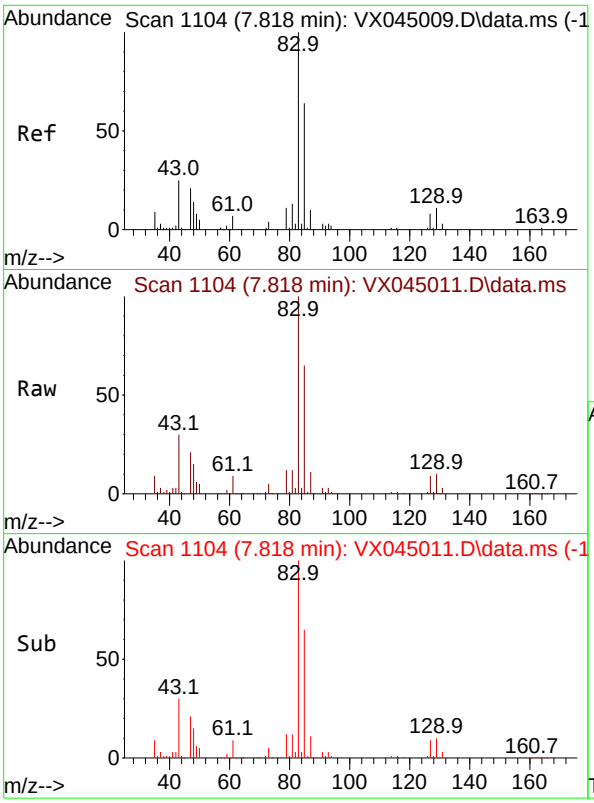


#40
Dibromomethane
Concen: 96.465 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. -0.006 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion: 93 Resp: 97805

Ion	Ratio	Lower	Upper
93	100		
95	82.6	0.0	162.6
174	88.6	0.0	178.8

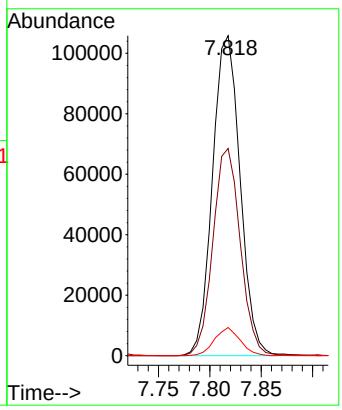




#41
Bromodichloromethane
Concen: 97.929 ug/l
RT: 7.818 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion: 83 Resp: 19733

Ion	Ratio	Lower	Upper
83	100		
85	64.8	51.0	76.6
127	8.8	6.1	9.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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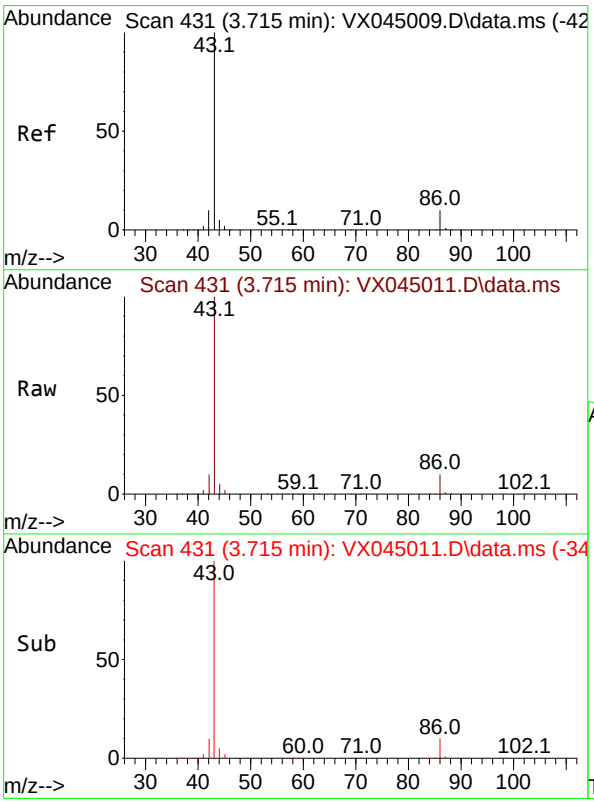
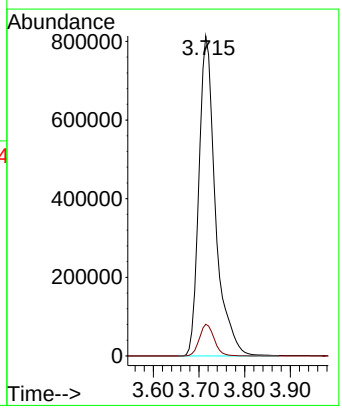
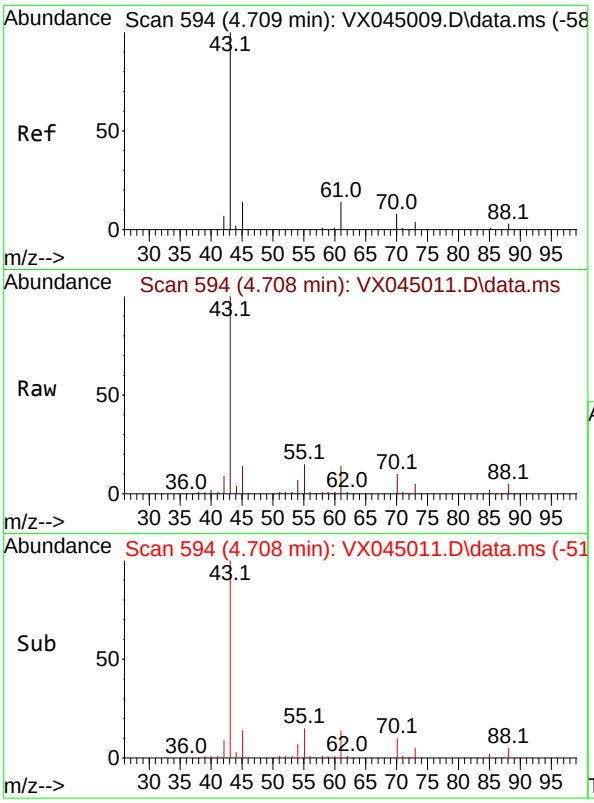


#42
Vinyl Acetate
Concen: 502.855 ug/l
RT: 3.715 min Scan# 431
Delta R.T. -0.000 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion: 43 Resp: 2042535

Ion	Ratio	Lower	Upper
43	100		
86	8.9	7.0	10.4





#43
Ethyl Acetate
Concen: 101.424 ug/l
RT: 4.708 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion: 43 Resp: 19909

Ion	Ratio	Lower	Upper
43	100		
45	14.6	12.7	19.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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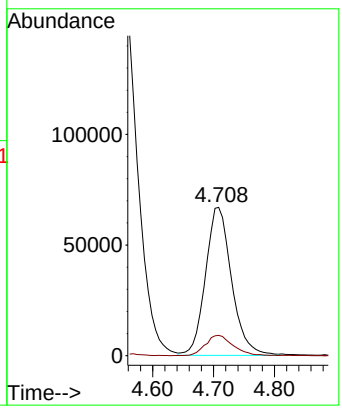
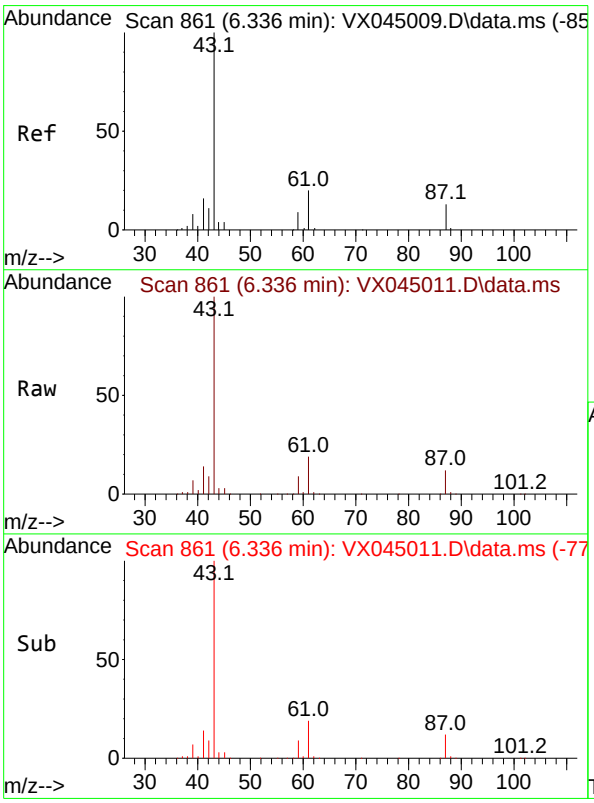
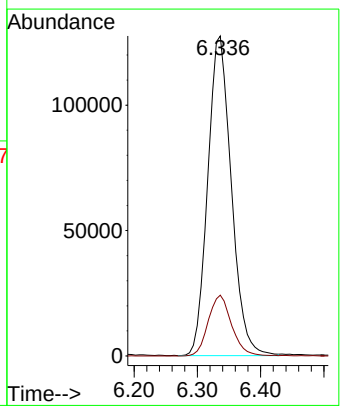


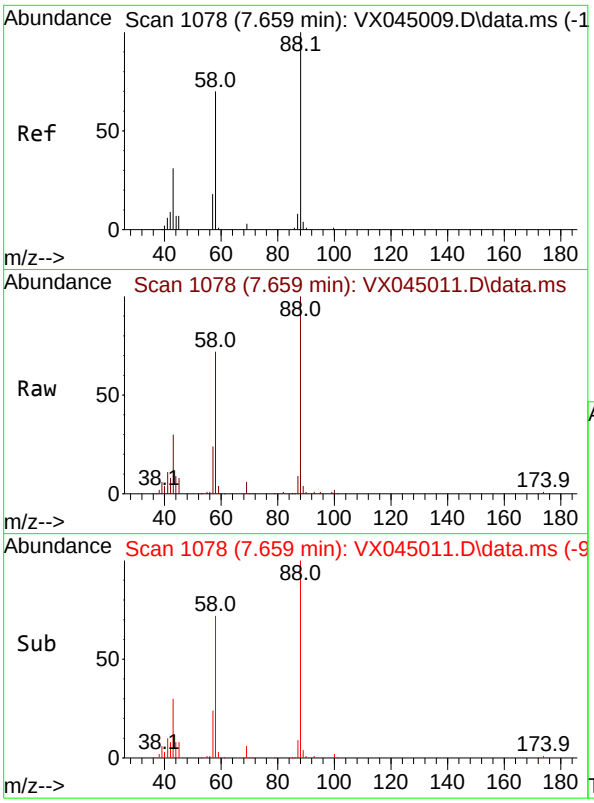


#44
Isopropyl Acetate
Concen: 102.113 ug/l
RT: 6.336 min Scan# 861
Delta R.T. -0.000 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion: 43 Resp: 329903

Ion	Ratio	Lower	Upper
43	100		
61	18.9	15.5	23.3

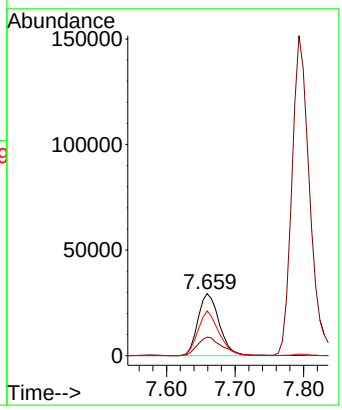




#45
1,4-Dioxane
Concen: 1897.493 ug/l
RT: 7.659 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion: 88 Resp: 6372

Ion	Ratio	Lower	Upper
88	100		
43	34.9	29.6	44.4
58	71.2	56.2	84.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
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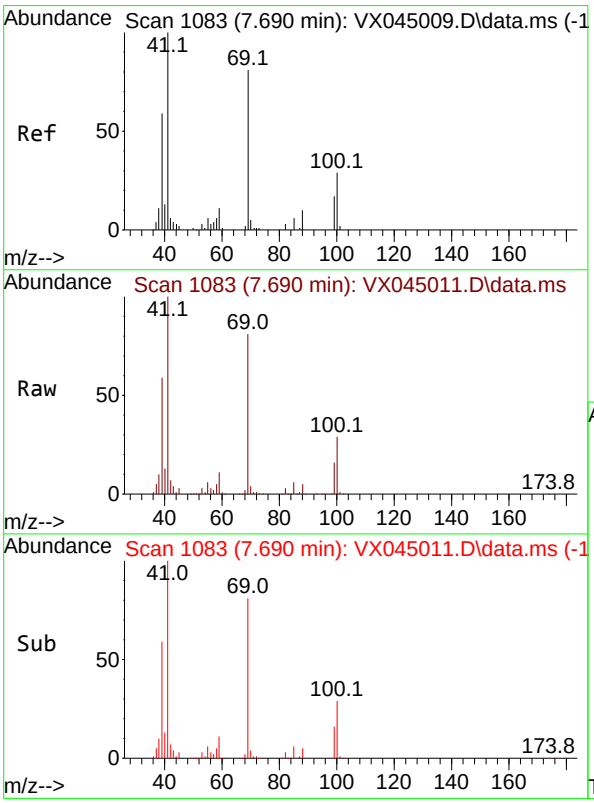
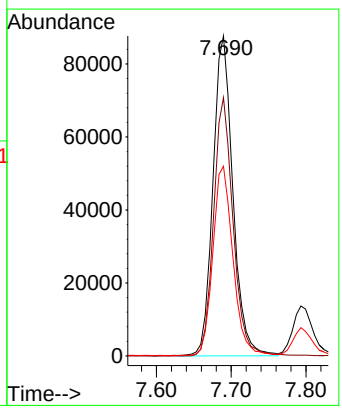
Supervised By :Mahesh Dadoda 02/24/2025

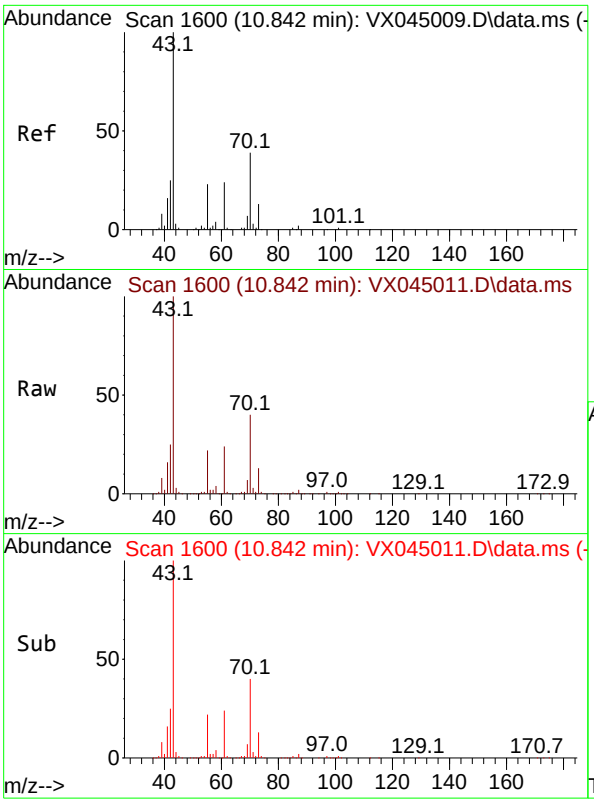


#46
Methyl methacrylate
Concen: 102.589 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. -0.000 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion: 41 Resp: 162523

Ion	Ratio	Lower	Upper
41	100		
69	80.9	40.7	122.1
39	59.3	29.5	88.5





#47
n-amyl Acetate
Concen: 100.917 ug/l
RT: 10.842 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion: 43 Resp: 28292

Ion	Ratio	Lower	Upper
43	100		
55	22.5	18.6	27.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
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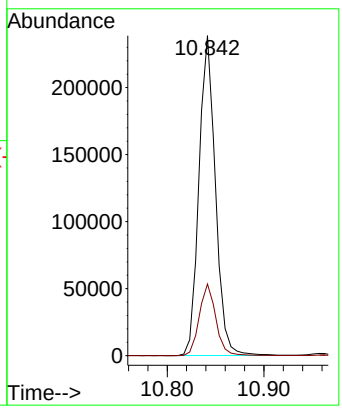
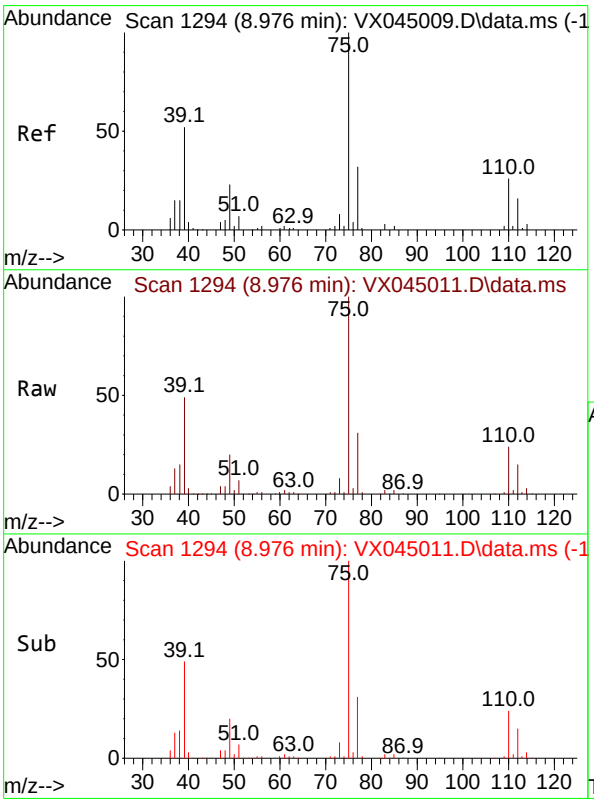
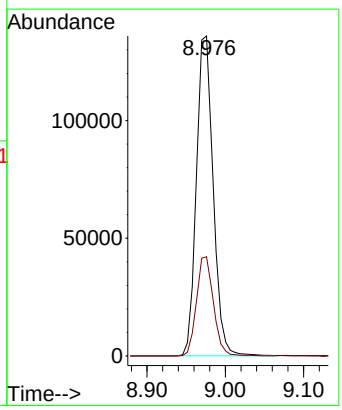


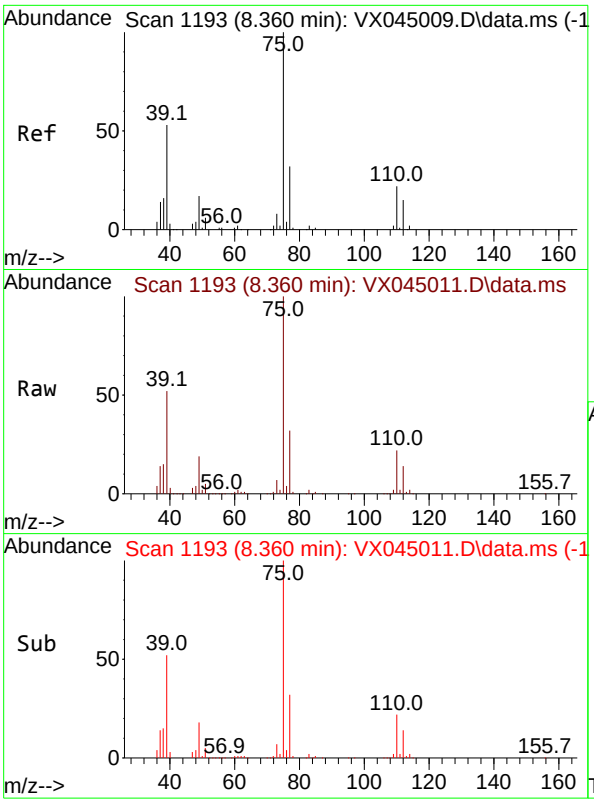


#48
t-1,3-Dichloropropene
Concen: 104.416 ug/l
RT: 8.976 min Scan# 1294
Delta R.T. -0.000 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion: 75 Resp: 202810

Ion	Ratio	Lower	Upper
75	100		
77	31.0	25.7	38.5

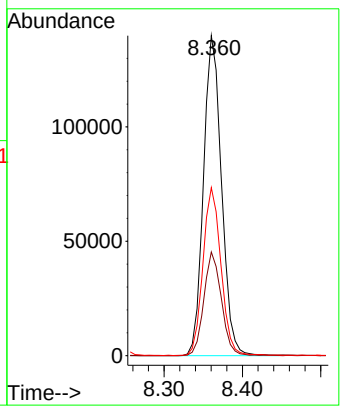




#49
cis-1,3-Dichloropropene
Concen: 101.800 ug/l
RT: 8.360 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion: 75 Resp: 22383

Ion	Ratio	Lower	Upper
75	100		
77	32.4	25.9	38.9
39	52.4	42.3	63.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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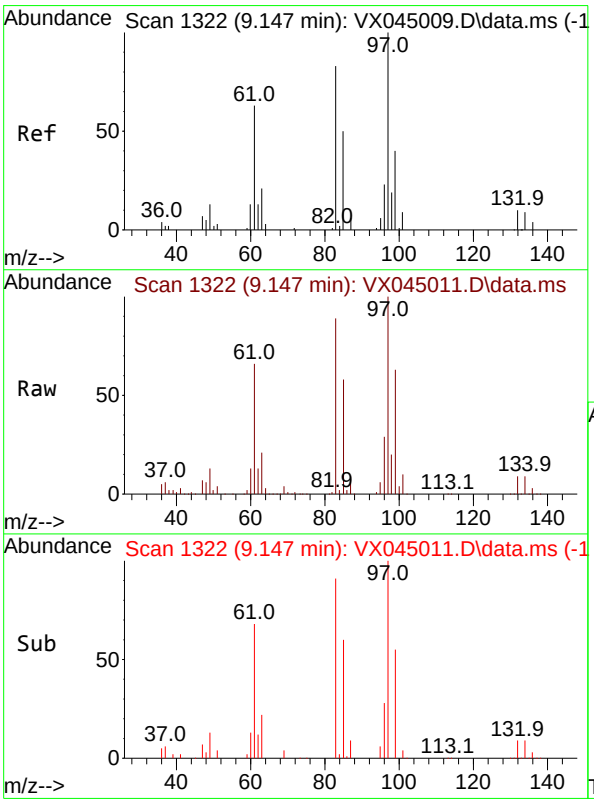
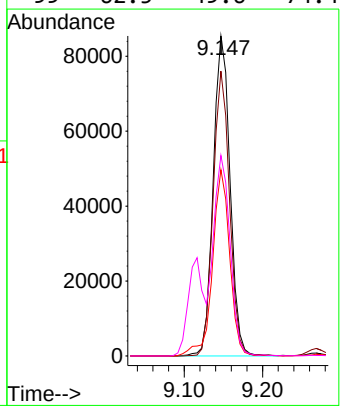
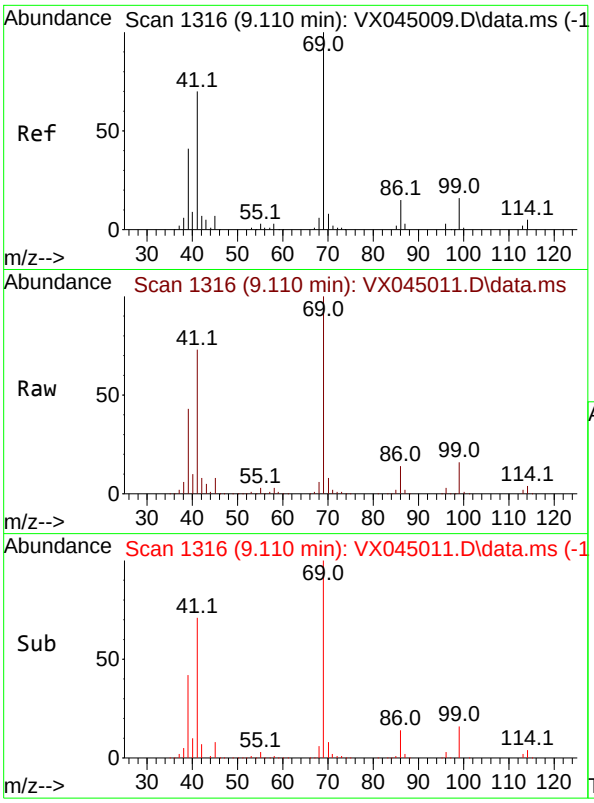


#50
1,1,2-Trichloroethane
Concen: 96.553 ug/l
RT: 9.147 min Scan# 1322
Delta R.T. -0.000 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion: 97 Resp: 127690

Ion	Ratio	Lower	Upper
97	100		
83	89.0	66.0	99.0
85	58.1	42.5	63.7
99	62.5	49.6	74.4

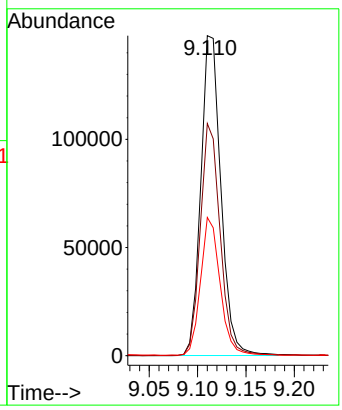




#51
Ethyl methacrylate
Concen: 103.117 ug/l
RT: 9.110 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion: 69 Resp: 21447

Ion	Ratio	Lower	Upper
69	100		
41	72.5	35.1	105.3
39	43.1	20.5	61.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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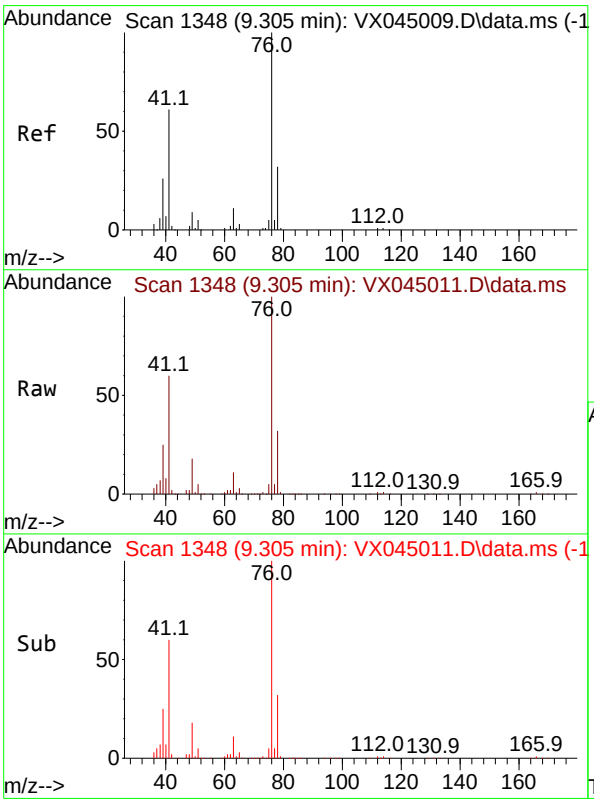
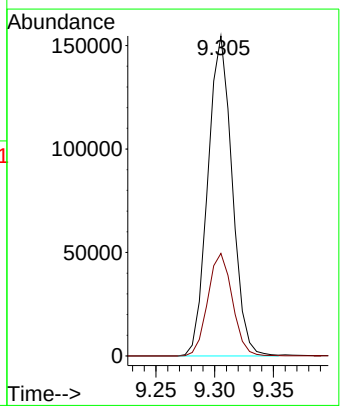
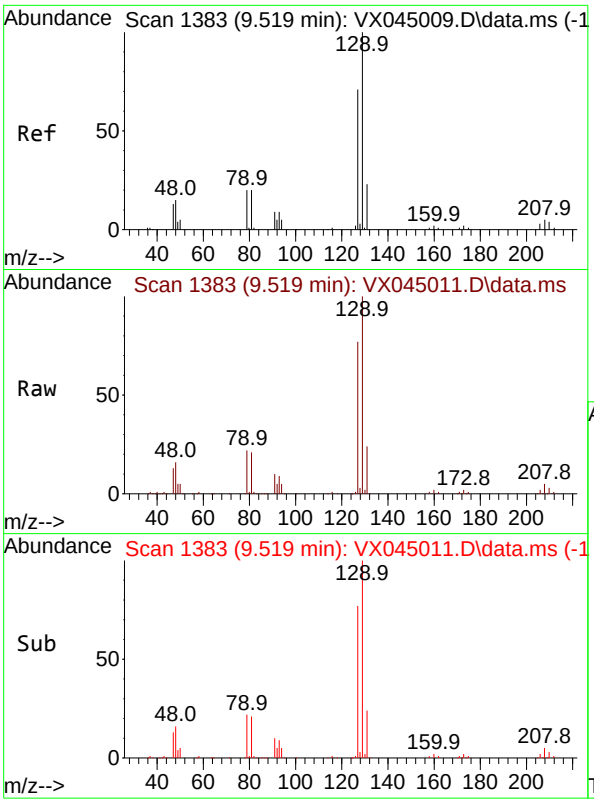


#52
1,3-Dichloropropane
Concen: 96.102 ug/l
RT: 9.305 min Scan# 1348
Delta R.T. -0.000 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion: 76 Resp: 222694

Ion	Ratio	Lower	Upper
76	100		
78	32.3	0.0	63.6





#53
Dibromochloromethane
Concen: 98.713 ug/l
RT: 9.519 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion:129 Resp: 14438

Ion	Ratio	Lower	Upper
129	100		
127	77.2	37.3	111.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
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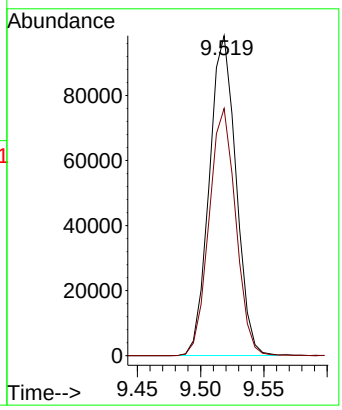
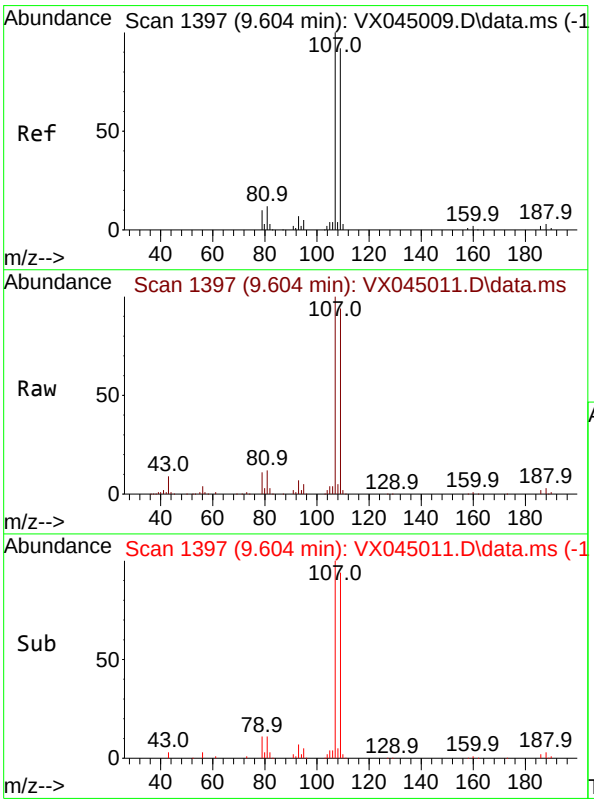
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

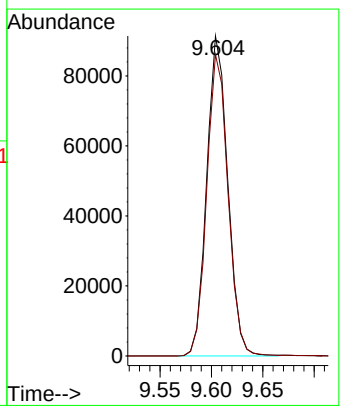


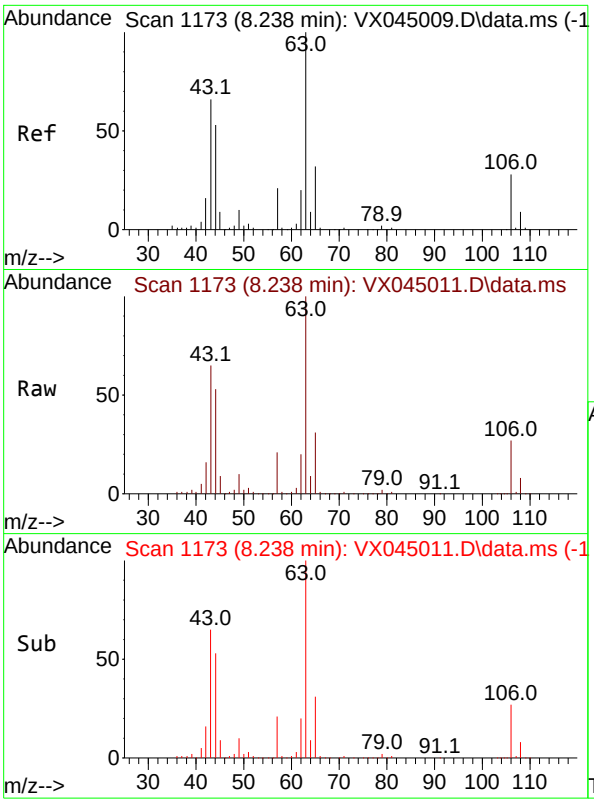


#54
1,2-Dibromoethane
Concen: 97.194 ug/l
RT: 9.604 min Scan# 1397
Delta R.T. -0.000 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion:107 Resp: 130524

Ion	Ratio	Lower	Upper
107	100		
109	95.0	75.8	113.8

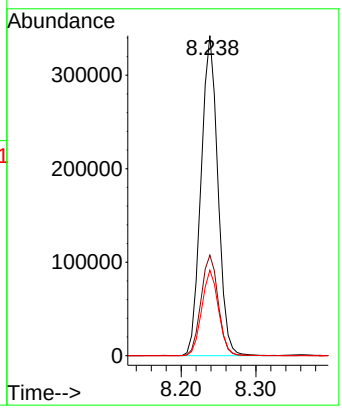




#55
2-Chloroethyl vinyl ether
Concen: 501.334 ug/l
RT: 8.238 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion: 63 Resp: 53547

Ion	Ratio	Lower	Upper
63	100		
65	31.9	26.2	39.2
106	26.6	21.2	31.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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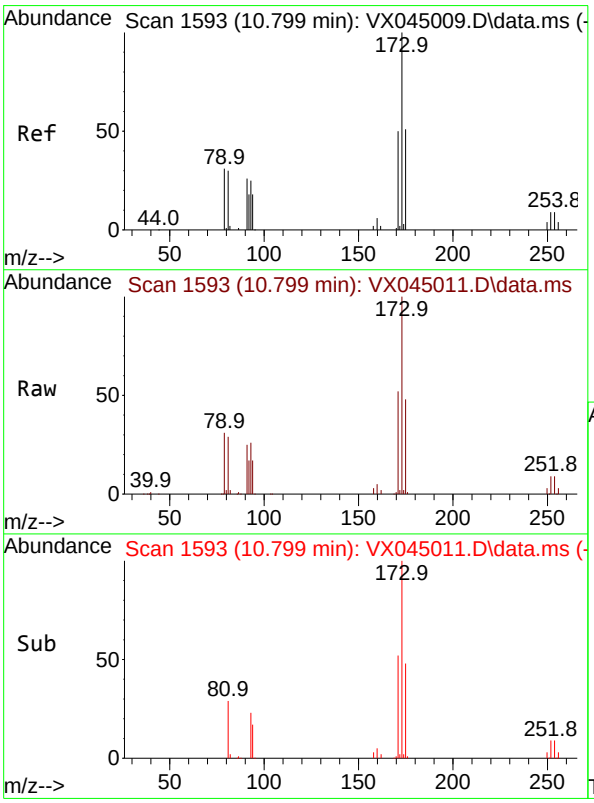
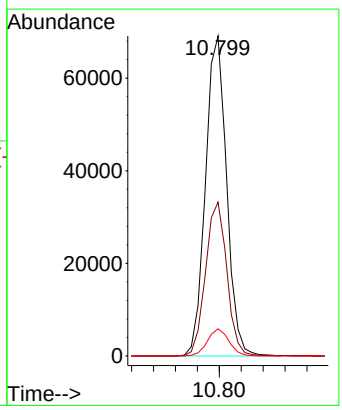
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

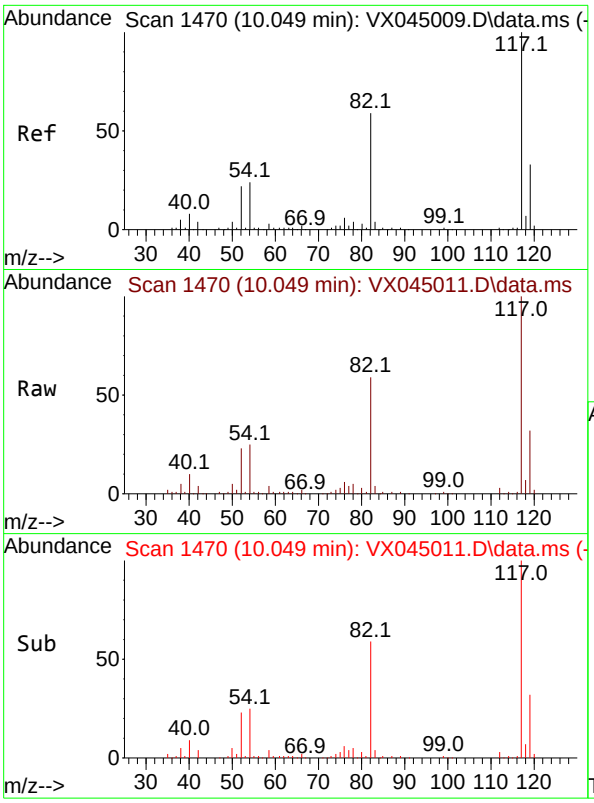


#56
Bromoform
Concen: 100.830 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. -0.000 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion:173 Resp: 92416

Ion	Ratio	Lower	Upper
173	100		
175	48.5	39.6	59.4
254	8.6	6.3	9.5

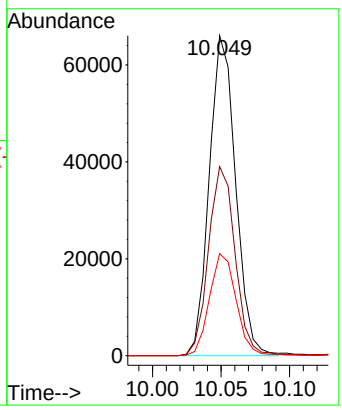




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion:117 Resp: 8832

Ion	Ratio	Lower	Upper
117	100		
82	60.0	45.8	68.8
119	32.4	25.5	38.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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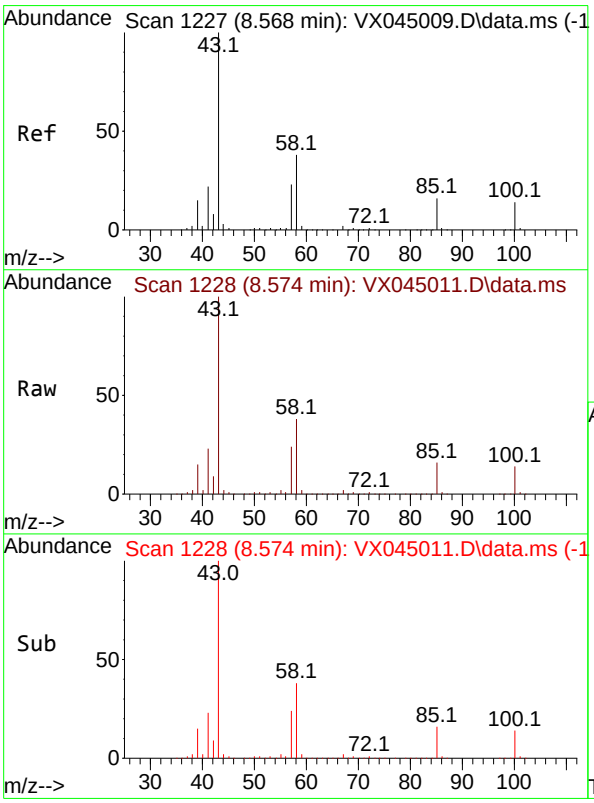
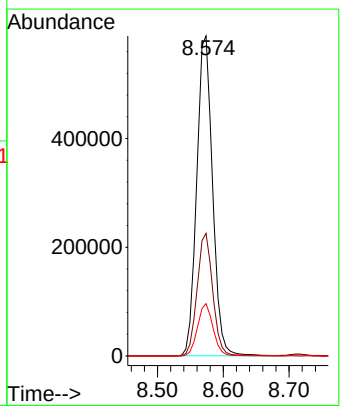
Supervised By :Mahesh Dadoda 02/24/2025

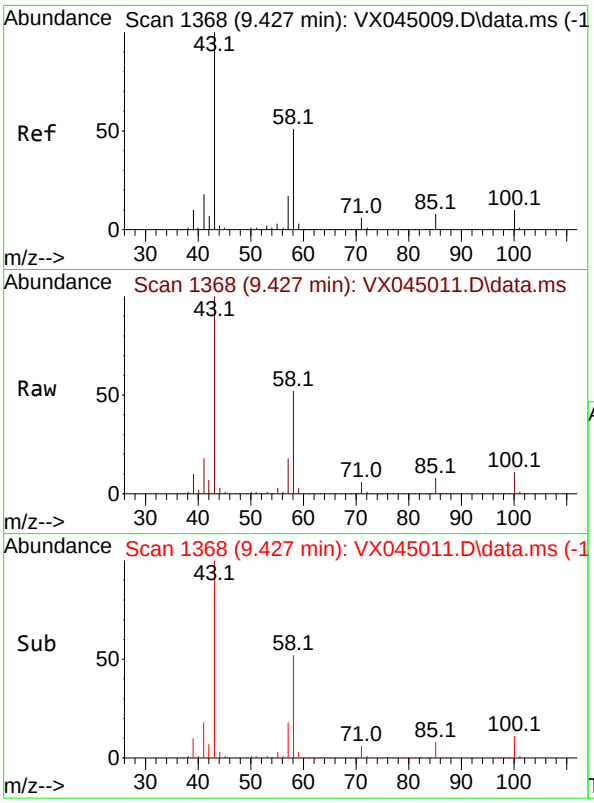


#58
4-Methyl-2-Pentanone
Concen: 489.624 ug/l
RT: 8.574 min Scan# 1228
Delta R.T. 0.006 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion: 43 Resp: 983713

Ion	Ratio	Lower	Upper
43	100		
58	37.6	29.5	44.3
85	16.1	12.9	19.3





#59
2-Hexanone
Concen: 488.118 ug/l
RT: 9.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion: 43 Resp: 70884

Ion	Ratio	Lower	Upper
43	100		
58	53.0	41.6	62.4
57	18.1	13.8	20.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
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Reviewed By :John Carlone 02/24/2025
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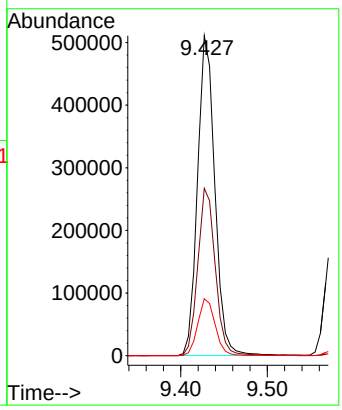
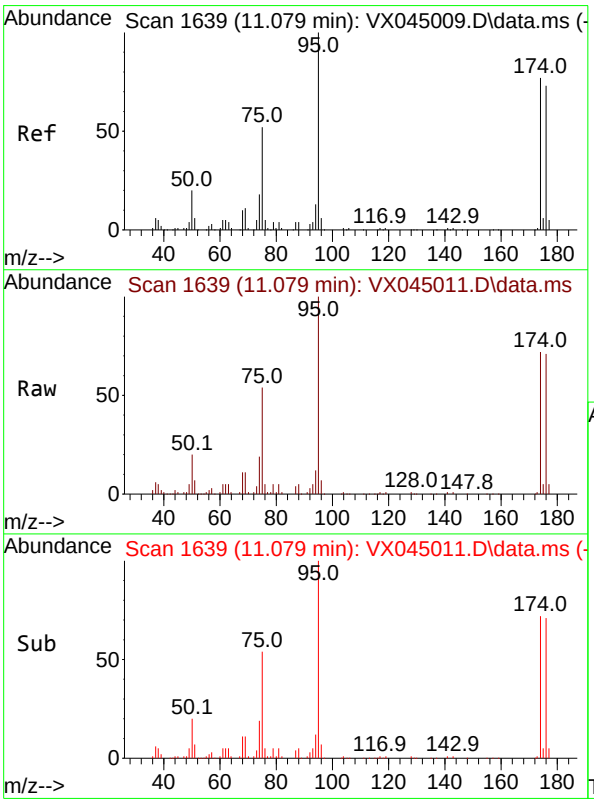
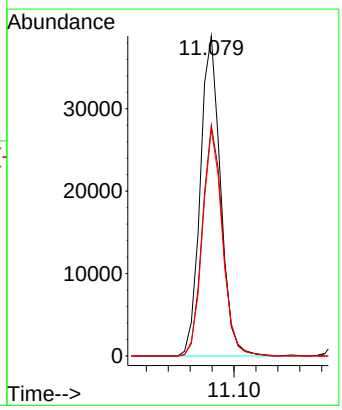


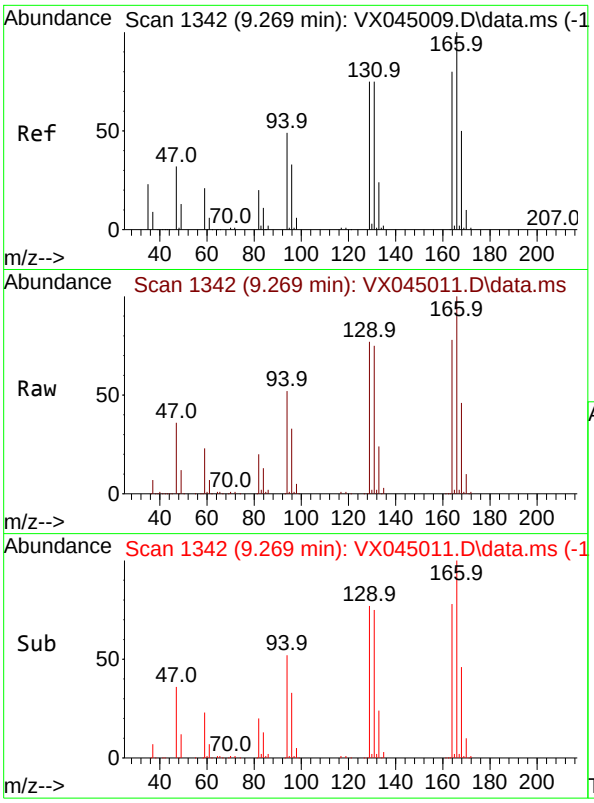


#60
4-Bromofluorobenzene
Concen: 30.096 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion: 95 Resp: 49683

Ion	Ratio	Lower	Upper
95	100		
174	72.2	59.5	89.3
176	70.1	55.5	83.3

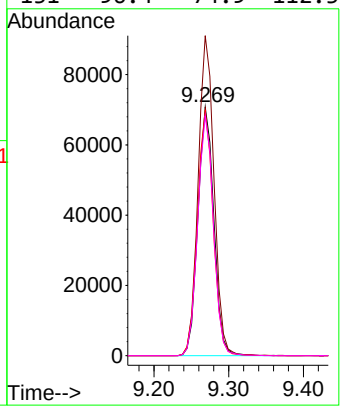




#61
Tetrachloroethene
Concen: 96.410 ug/l
RT: 9.269 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion:164 Resp: 10485

Ion	Ratio	Lower	Upper
164	100		
166	128.7	100.3	150.5
129	98.8	75.5	113.3
131	96.4	74.9	112.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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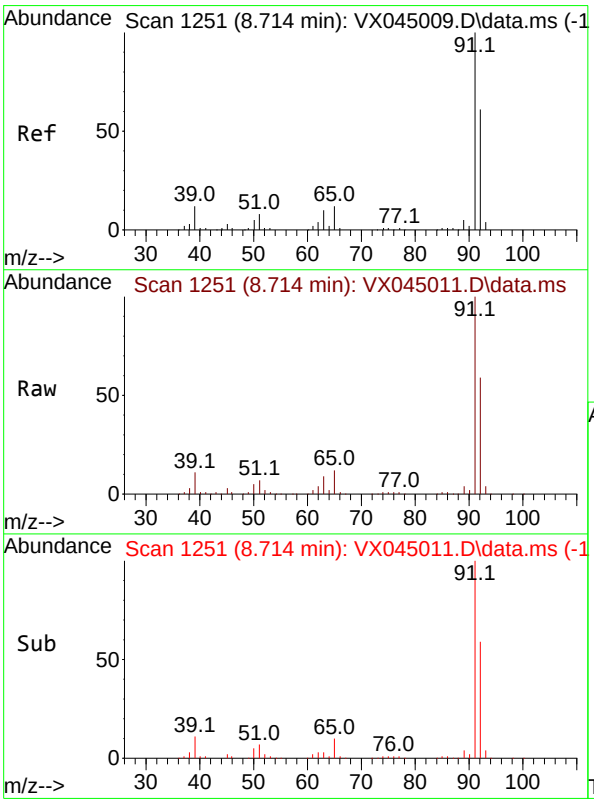
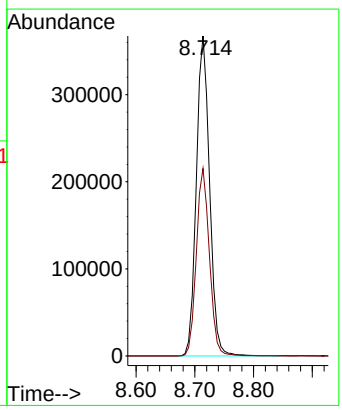
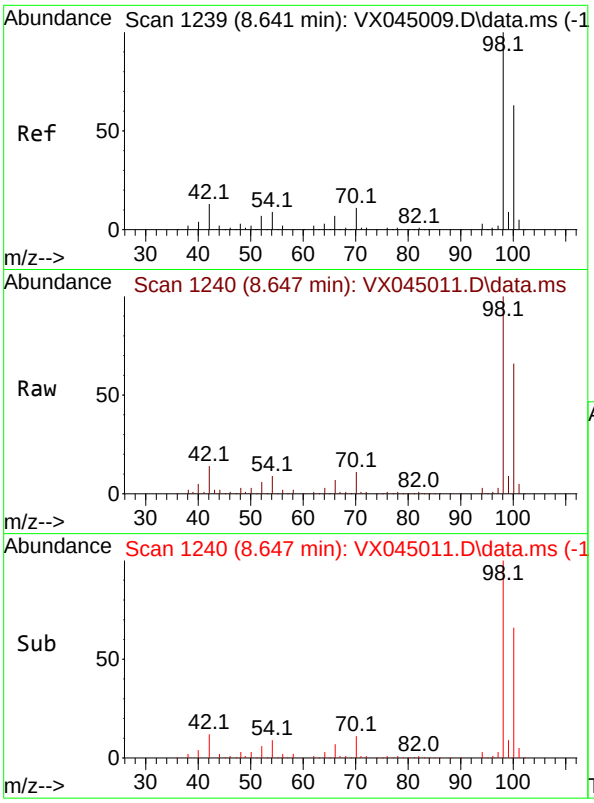


#62
Toluene
Concen: 98.410 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion: 91 Resp: 575772

Ion	Ratio	Lower	Upper
91	100		
92	57.9	46.9	70.3





#63
Toluene-d8
Concen: 30.306 ug/l
RT: 8.647 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion: 98 Resp: 14807

Ion	Ratio	Lower	Upper
98	100		
100	65.9	51.7	77.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
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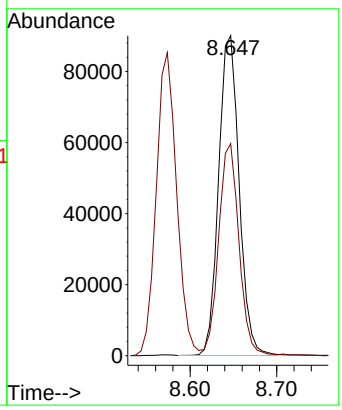
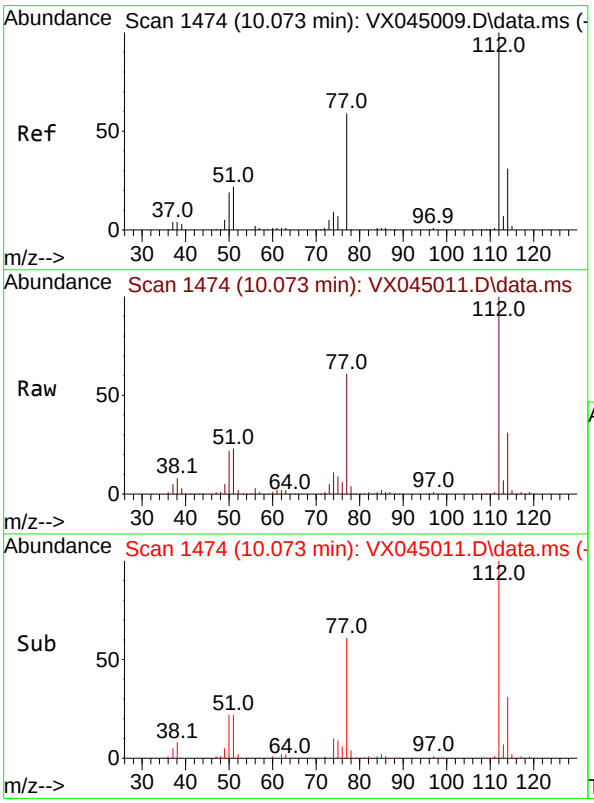
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

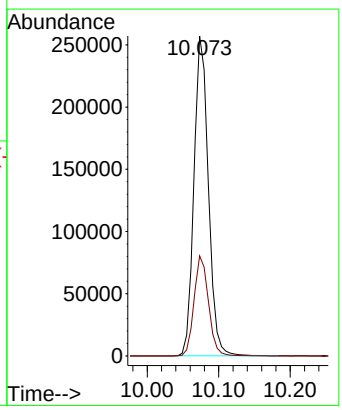


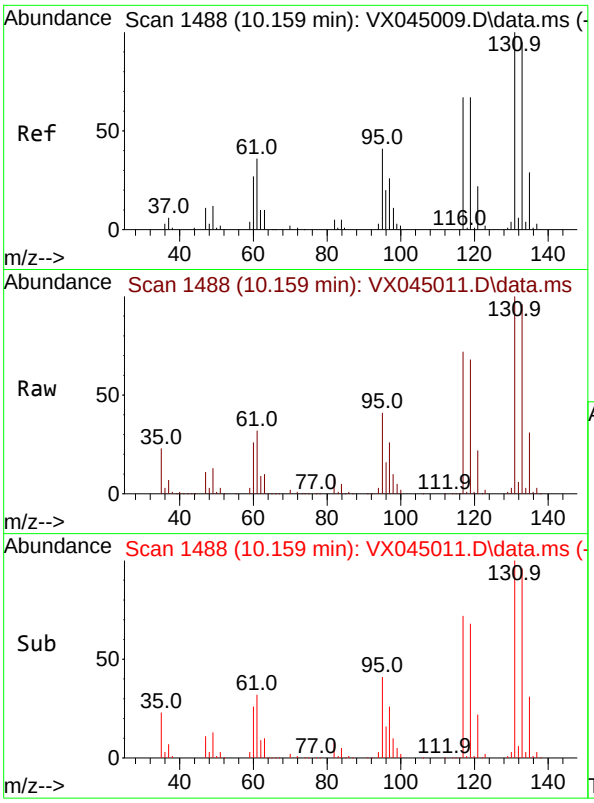


#64
Chlorobenzene
Concen: 99.055 ug/l
RT: 10.073 min Scan# 1474
Delta R.T. -0.000 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion:112 Resp: 359123

Ion	Ratio	Lower	Upper
112	100		
114	31.3	24.7	37.1





#65
1,1,1,2-Tetrachloroethane
Concen: 98.304 ug/l
RT: 10.159 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion:131 Resp: 11760

Ion	Ratio	Lower	Upper
131	100		
133	96.2	0.0	187.8
119	67.9	0.0	133.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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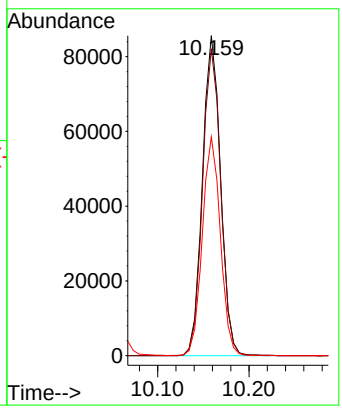
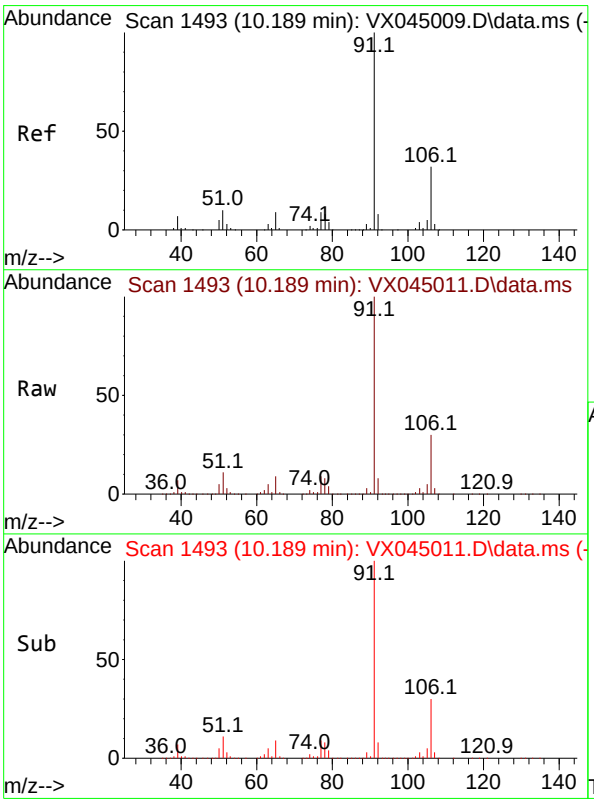
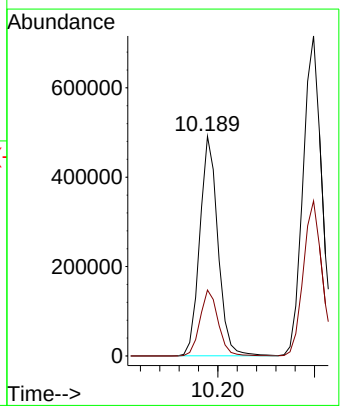


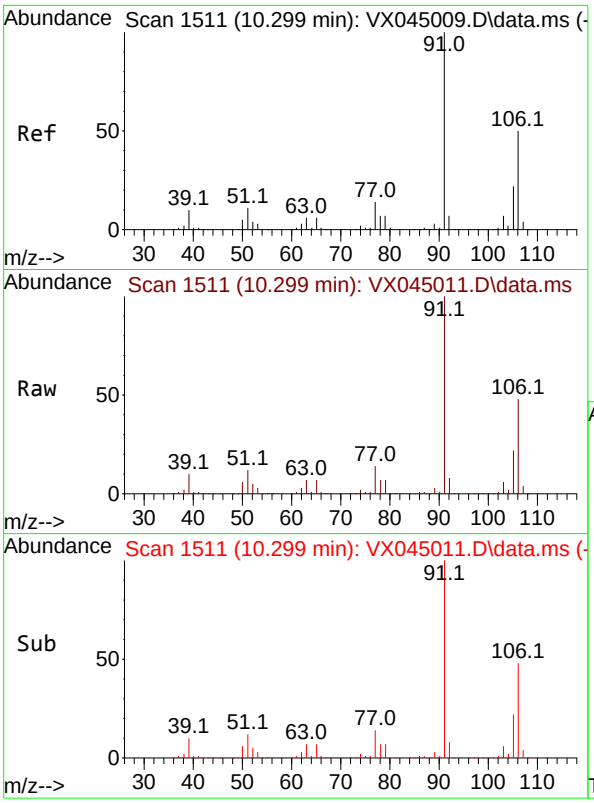


#66
Ethyl Benzene
Concen: 100.122 ug/l
RT: 10.189 min Scan# 1493
Delta R.T. -0.000 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion: 91 Resp: 641324

Ion	Ratio	Lower	Upper
91	100		
106	30.0	25.4	38.2





#67
m/p-Xylenes
Concen: 197.072 ug/l
RT: 10.299 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion:106 Resp: 47032

Ion	Ratio	Lower	Upper
106	100		
91	207.5	163.7	245.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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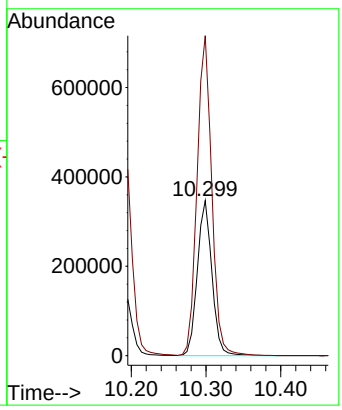
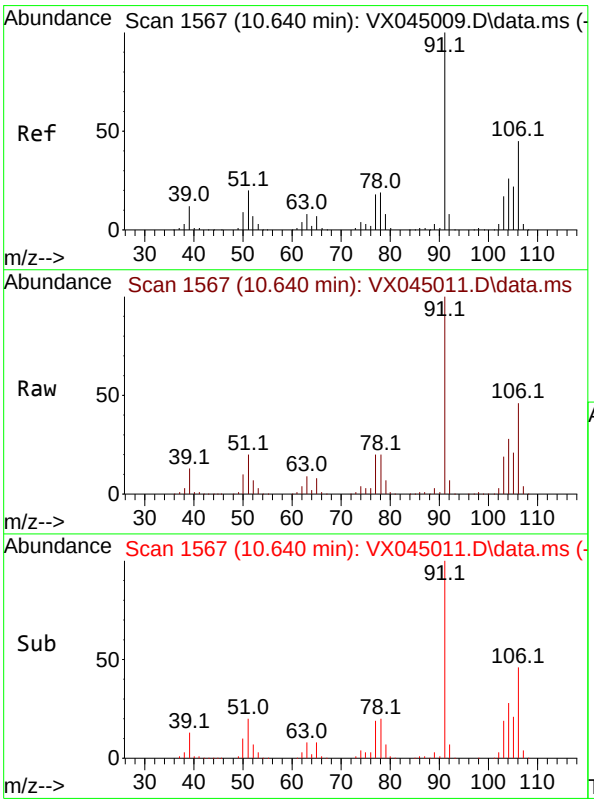
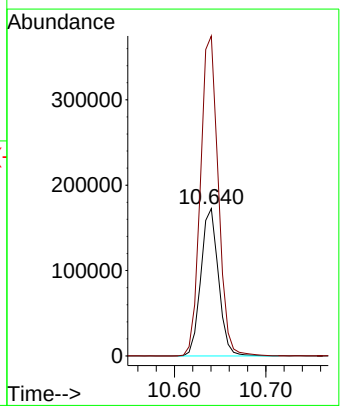


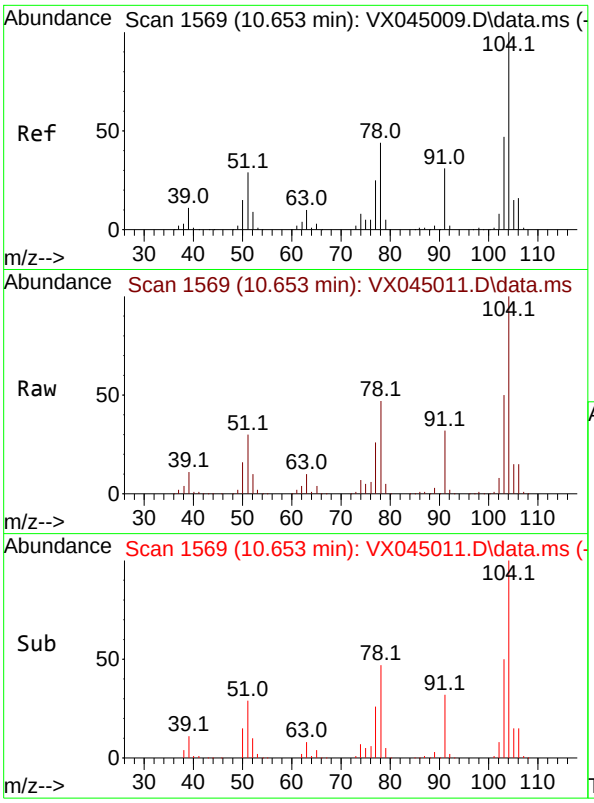


#68
o-Xylene
Concen: 98.392 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion:106 Resp: 230392

Ion	Ratio	Lower	Upper
106	100		
91	219.4	109.7	329.1

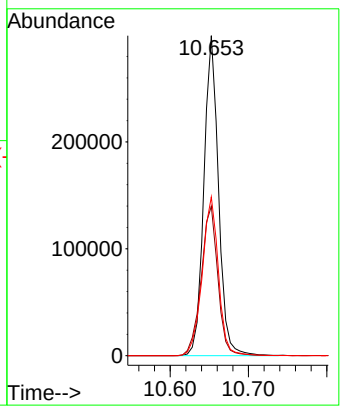




#69
Styrene
Concen: 99.067 ug/l
RT: 10.653 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion:104 Resp: 38743

Ion	Ratio	Lower	Upper
104	100		
78	53.3	41.4	62.0
103	55.1	43.0	64.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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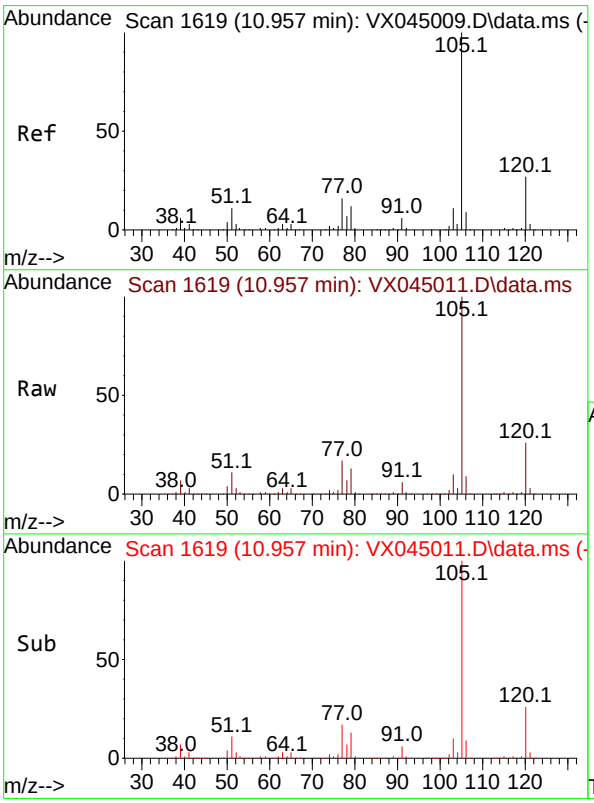
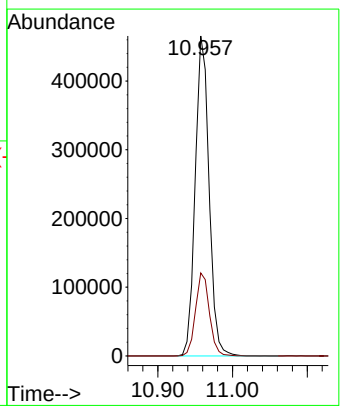
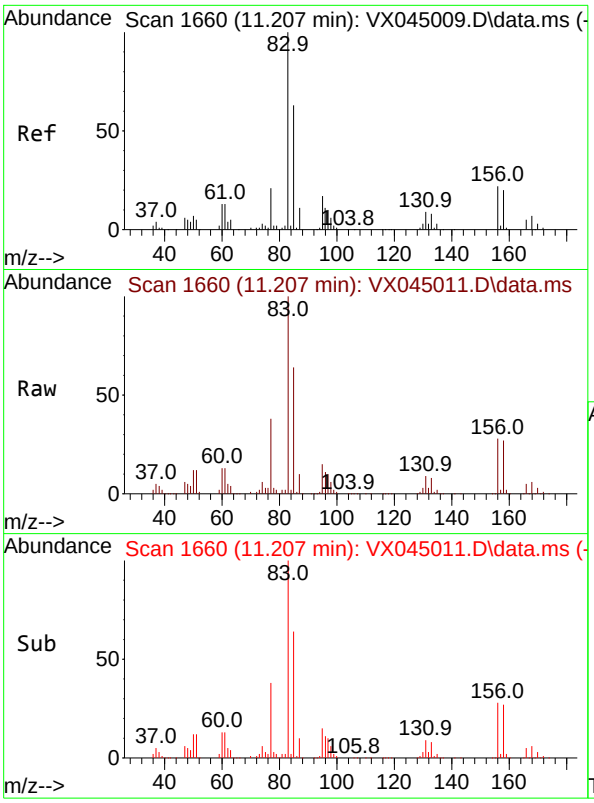


#70
Isopropylbenzene
Concen: 98.698 ug/l
RT: 10.957 min Scan# 1619
Delta R.T. -0.000 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion:105 Resp: 596402

Ion	Ratio	Lower	Upper
105	100		
120	26.1	18.4	34.2





#71
1,1,2,2-Tetrachloroethane
Concen: 95.916 ug/l
RT: 11.207 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion: 83 Resp: 19059

Ion	Ratio	Lower	Upper
83	100		
131	9.2	4.8	14.3
85	64.5	32.3	96.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
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Reviewed By :John Carlone 02/24/2025
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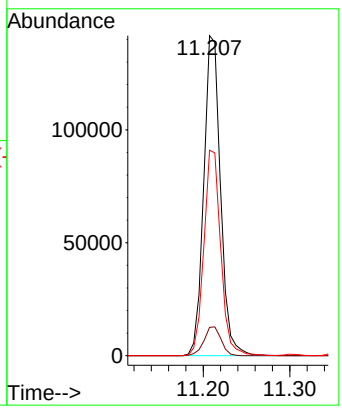
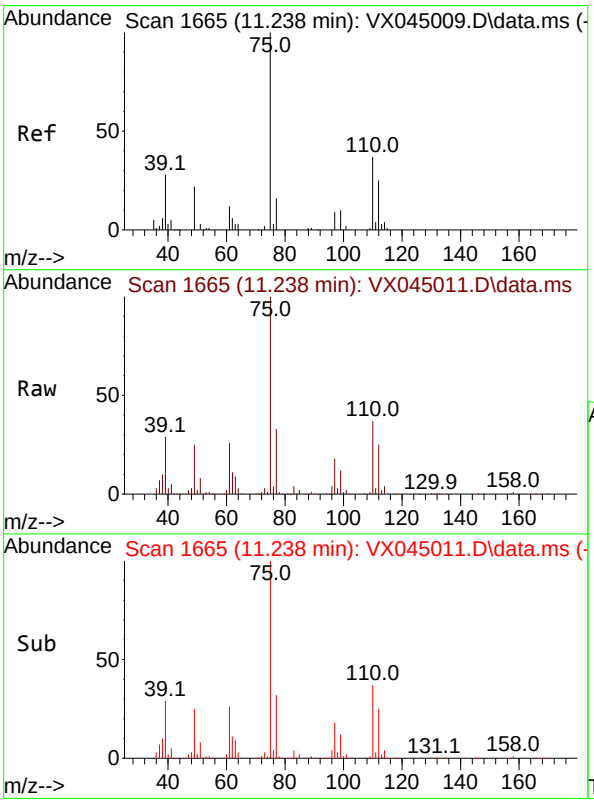
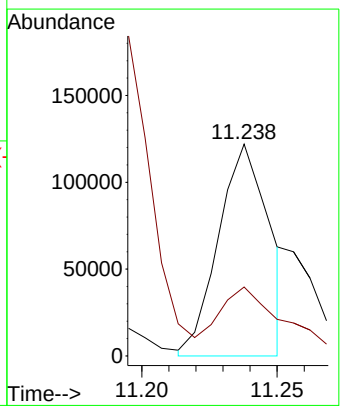


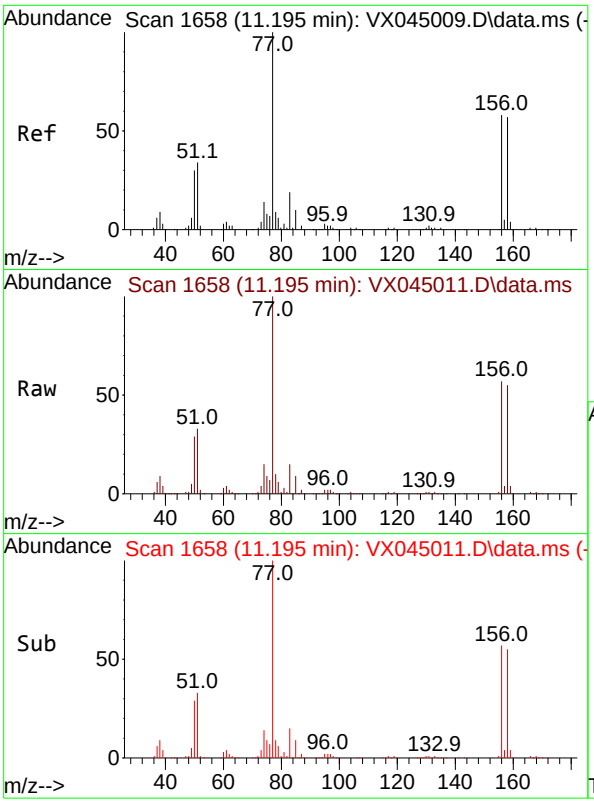


#72
1,2,3-Trichloropropane
Concen: 97.283 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion: 75 Resp: 158994

Ion	Ratio	Lower	Upper
75	100		
77	42.6	0.0	84.0

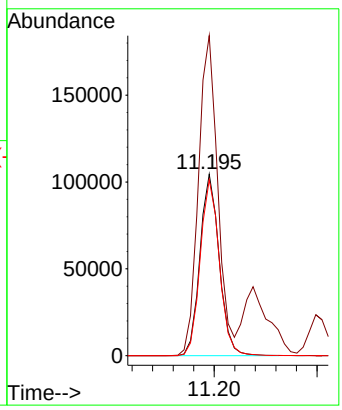




#73
Bromobenzene
Concen: 97.960 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion:156 Resp: 13627

Ion	Ratio	Lower	Upper
156	100		
77	176.6	0.0	347.2
158	96.3	0.0	197.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
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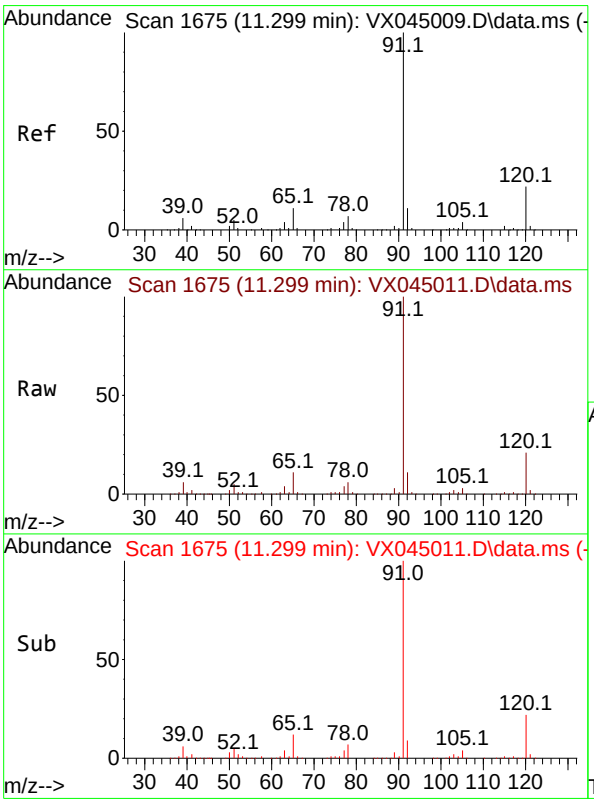
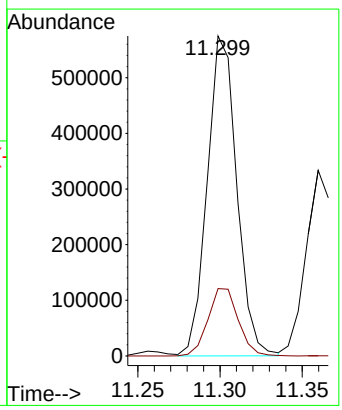
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

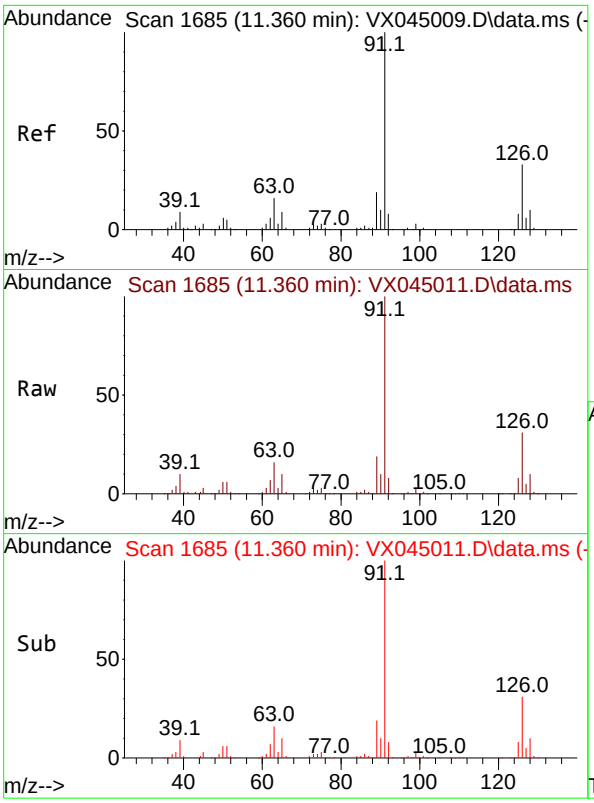


#74
n-propylbenzene
Concen: 99.759 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. -0.000 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion: 91 Resp: 717361

Ion	Ratio	Lower	Upper
91	100		
120	21.7	0.0	44.2





#75
2-Chlorotoluene
Concen: 96.938 ug/l
RT: 11.360 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion: 91 Resp: 42142

Ion	Ratio	Lower	Upper
91	100		
126	31.7	0.0	65.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
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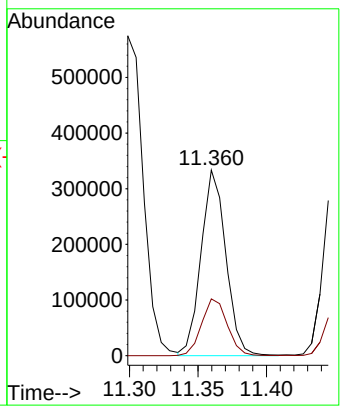
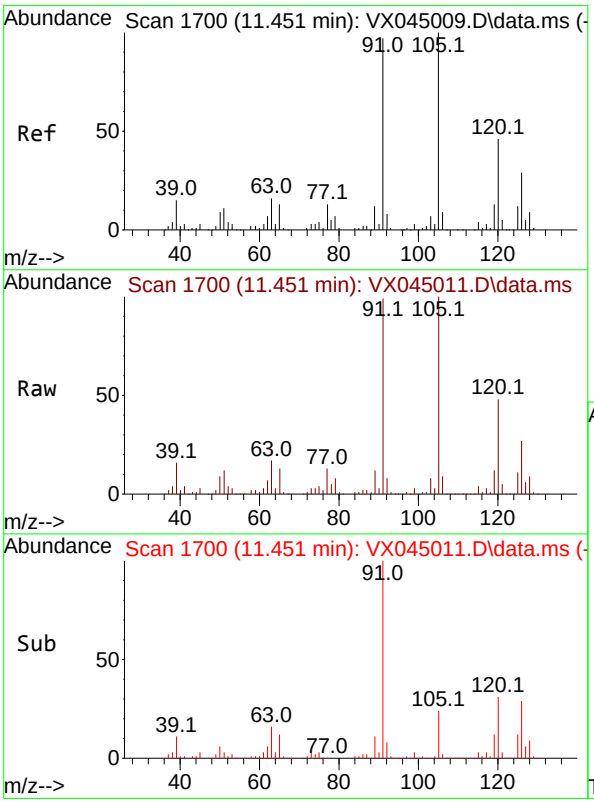
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

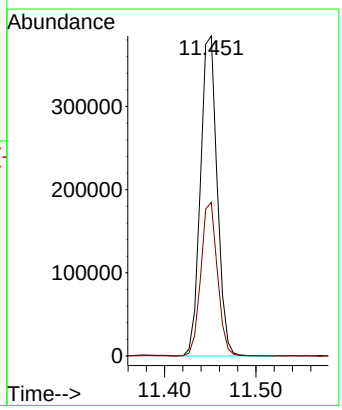


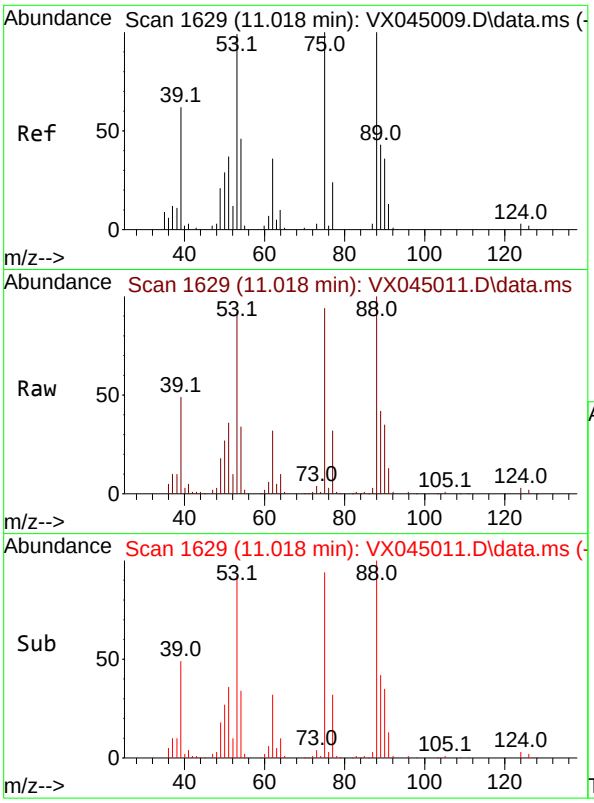


#76
1,3,5-Trimethylbenzene
Concen: 97.701 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion:105 Resp: 487050

Ion	Ratio	Lower	Upper
105	100		
120	47.8	0.0	94.4

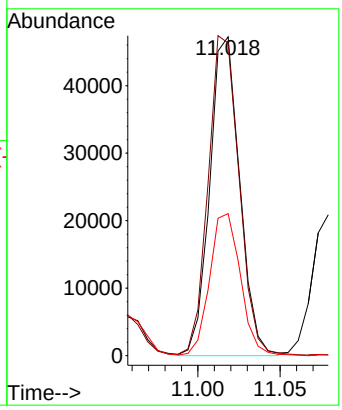




#77
t-1,4-Dichloro-2-butene
Concen: 108.886 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion: 75 Resp: 5987

Ion	Ratio	Lower	Upper
75	100		
53	98.0	49.8	149.4
89	44.5	21.4	64.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
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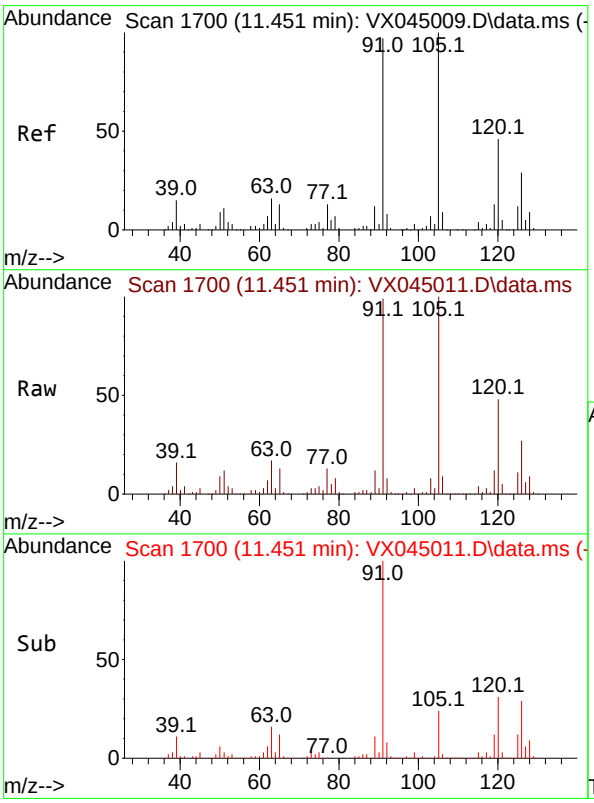
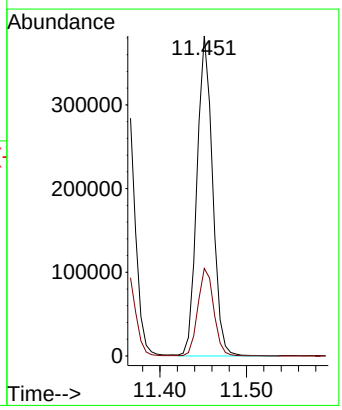
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

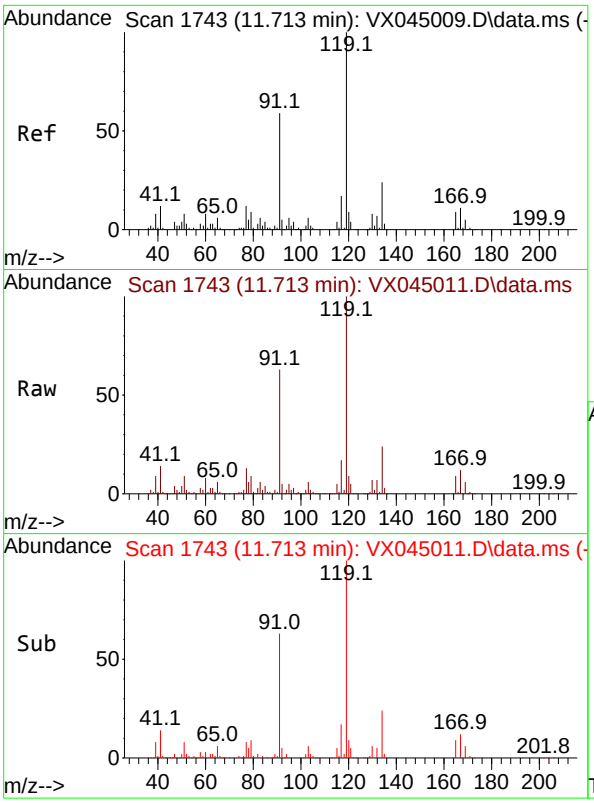


#78
4-Chlorotoluene
Concen: 98.607 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion: 91 Resp: 477861

Ion	Ratio	Lower	Upper
91	100		
126	27.9	0.0	58.0

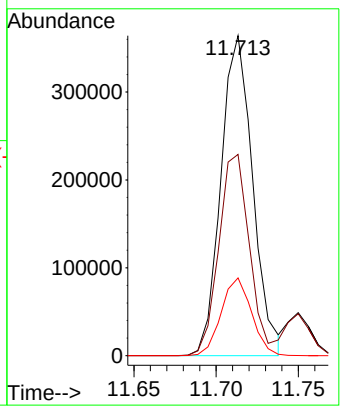




#79
tert-butylbenzene
Concen: 97.716 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion:119 Resp: 49081

Ion	Ratio	Lower	Upper
119	100		
91	60.1	0.0	120.6
134	23.2	0.0	48.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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Reviewed By :John Carlone 02/24/2025
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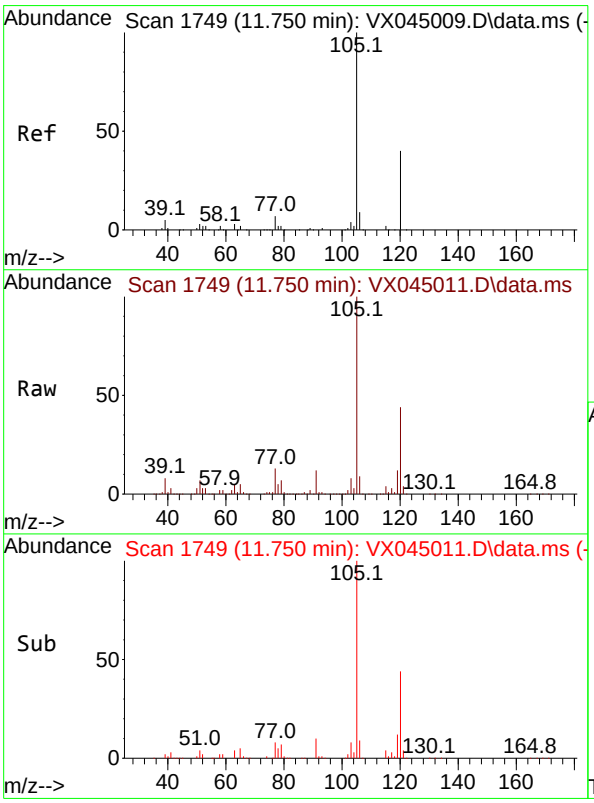
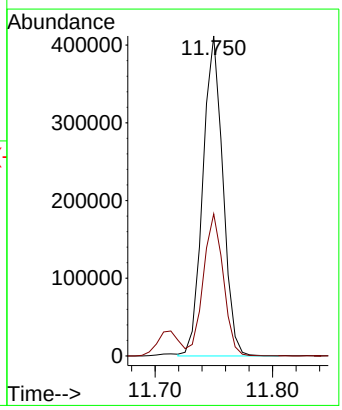
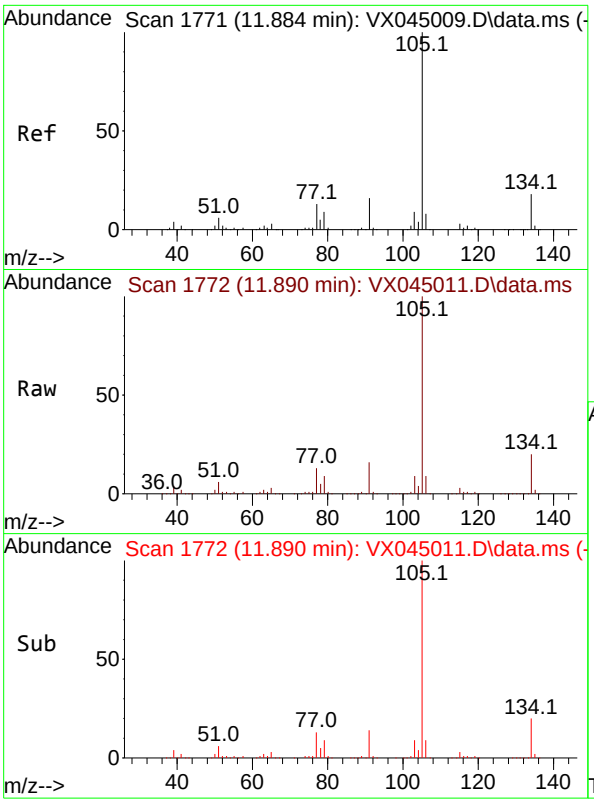


#80
1,2,4-Trimethylbenzene
Concen: 97.478 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion:105 Resp: 486770

Ion	Ratio	Lower	Upper
105	100		
120	44.4	0.0	88.4

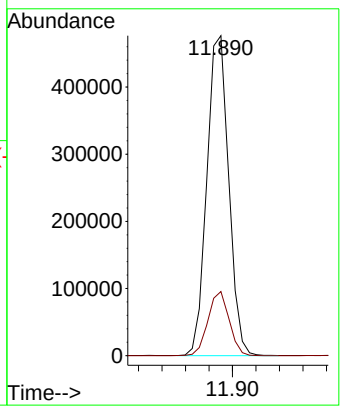




#81
sec-Butylbenzene
Concen: 97.788 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion:105 Resp: 61644

Ion	Ratio	Lower	Upper
105	100		
134	19.5	0.0	39.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
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Reviewed By :John Carlone 02/24/2025
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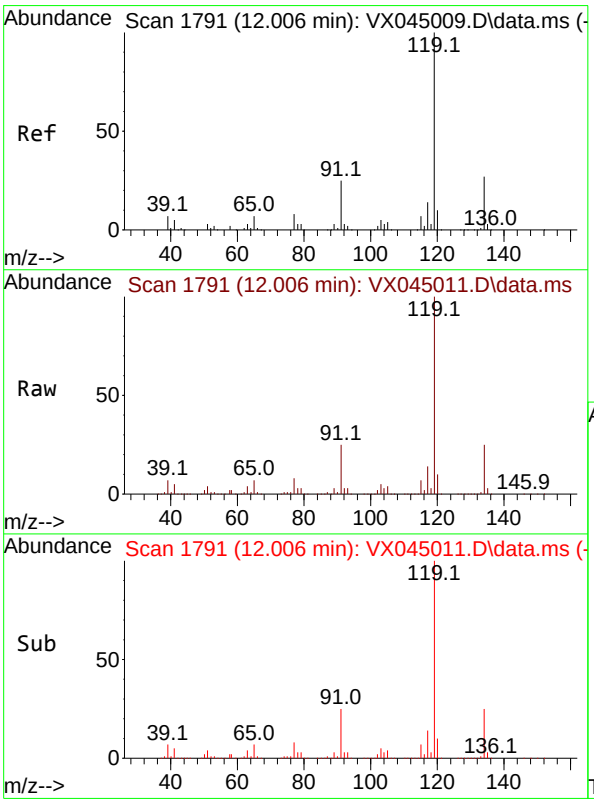
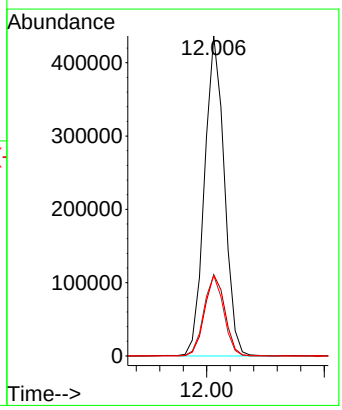
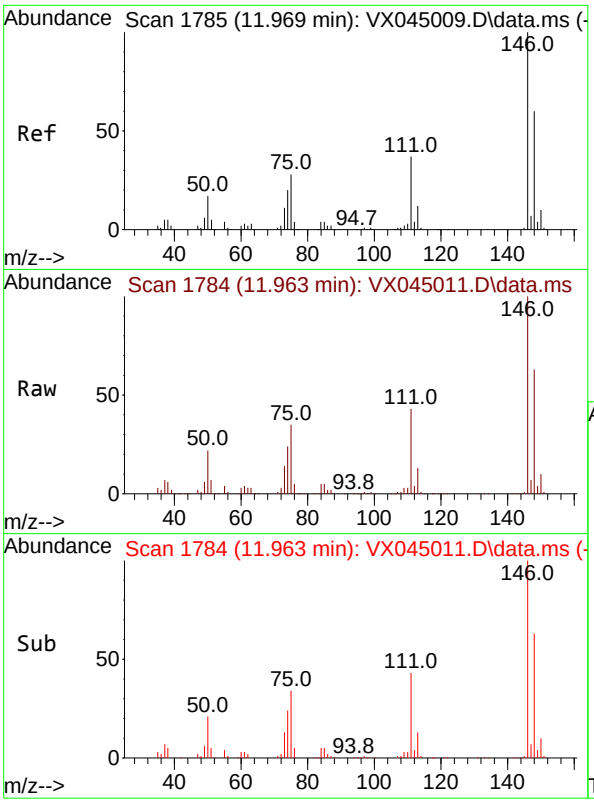


#82
p-Isopropyltoluene
Concen: 99.893 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion:119 Resp: 510223

Ion	Ratio	Lower	Upper
119	100		
134	25.8	0.0	52.6
91	25.1	0.0	51.0

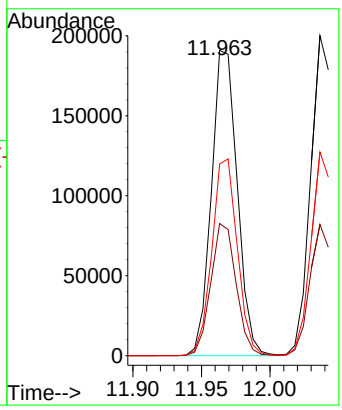




#83
1,3-Dichlorobenzene
Concen: 96.883 ug/l
RT: 11.963 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion:146 Resp: 25075

Ion	Ratio	Lower	Upper
146	100		
111	42.3	20.2	60.5
148	63.5	31.2	93.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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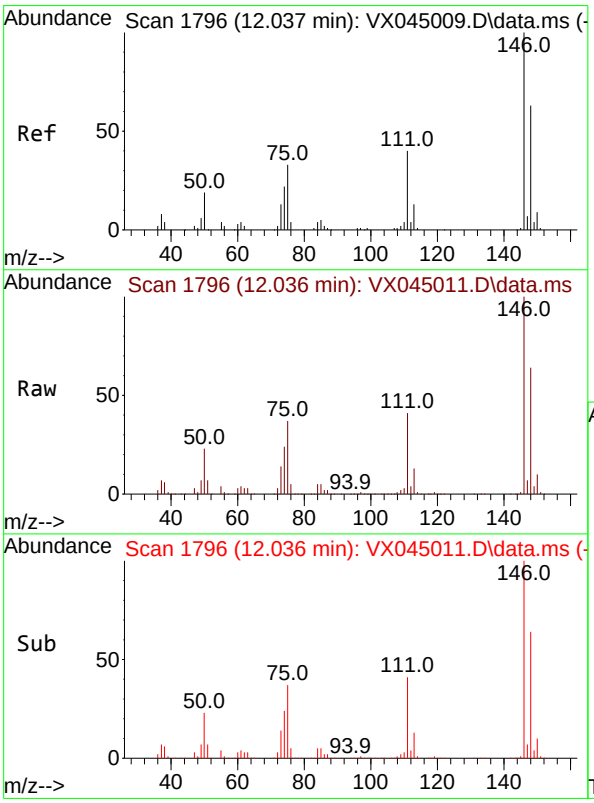
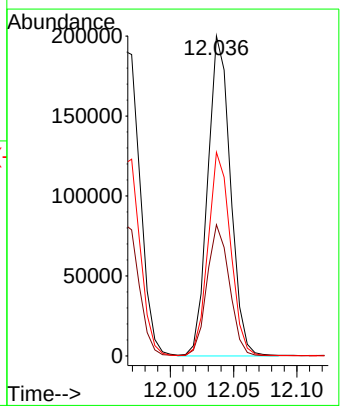
Supervised By :Mahesh Dadoda 02/24/2025

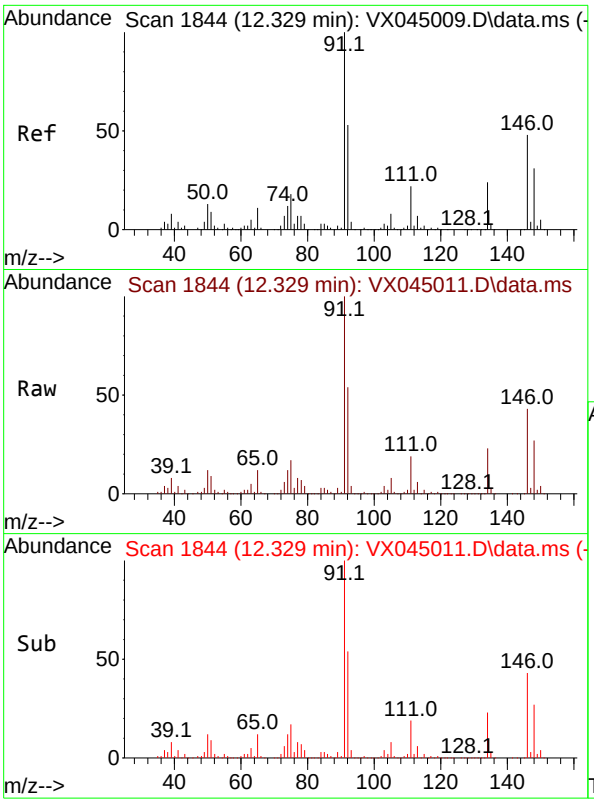


#84
1,4-Dichlorobenzene
Concen: 97.834 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. -0.000 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion:146 Resp: 249668

Ion	Ratio	Lower	Upper
146	100		
111	40.5	20.4	61.2
148	63.2	31.8	95.4

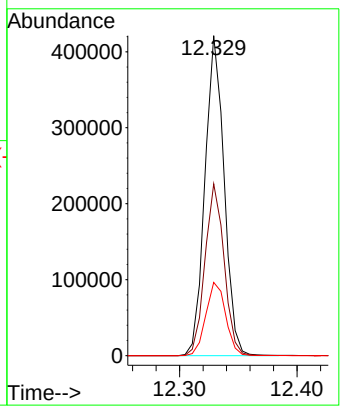




#85
n-Butylbenzene
Concen: 102.150 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion: 91 Resp: 47645

Ion	Ratio	Lower	Upper
91	100		
92	53.7	0.0	105.2
134	23.8	0.0	49.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
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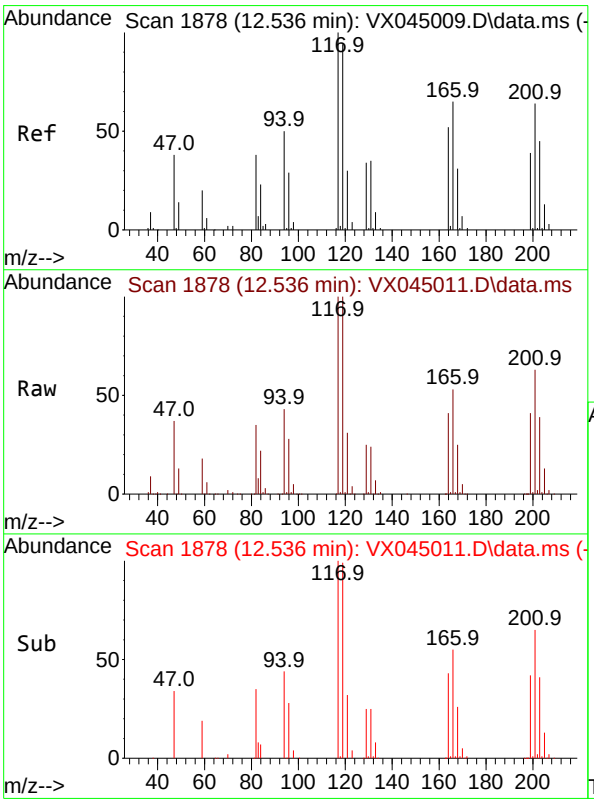
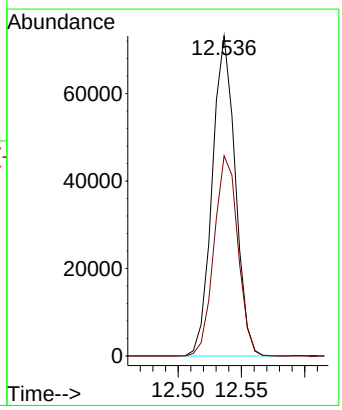
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

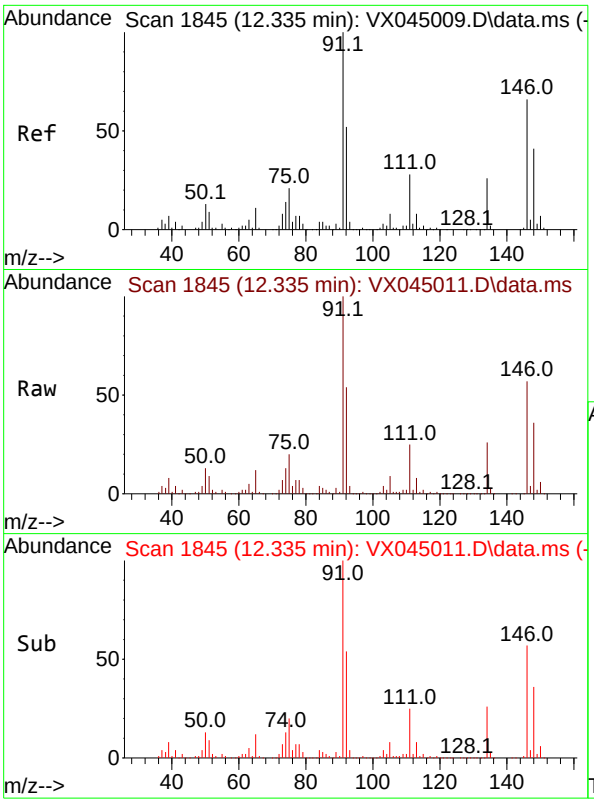


#86
Hexachloroethane
Concen: 102.679 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion:117 Resp: 92493

Ion	Ratio	Lower	Upper
117	100		
201	64.8	32.6	97.7

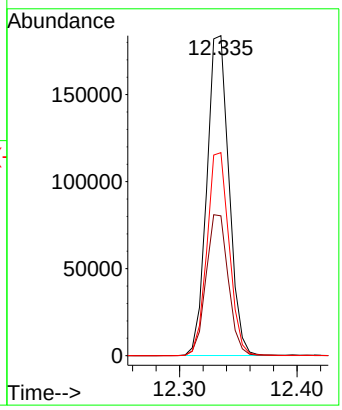




#87
1,2-Dichlorobenzene
Concen: 94.528 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion:146 Resp: 24005

Ion	Ratio	Lower	Upper
146	100		
111	44.4	21.7	65.1
148	63.5	31.8	95.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
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Reviewed By :John Carlone 02/24/2025
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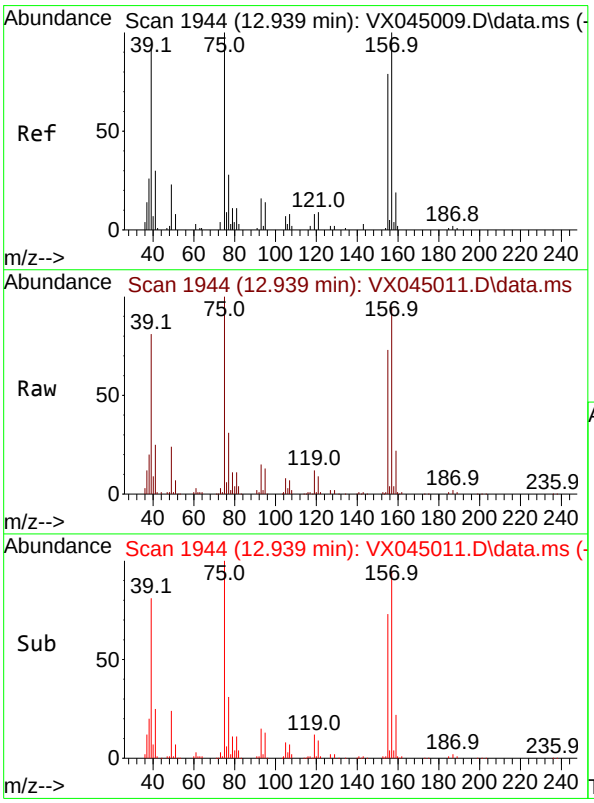
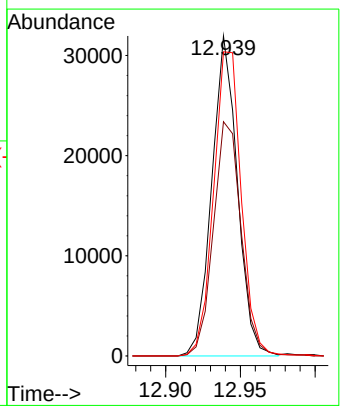
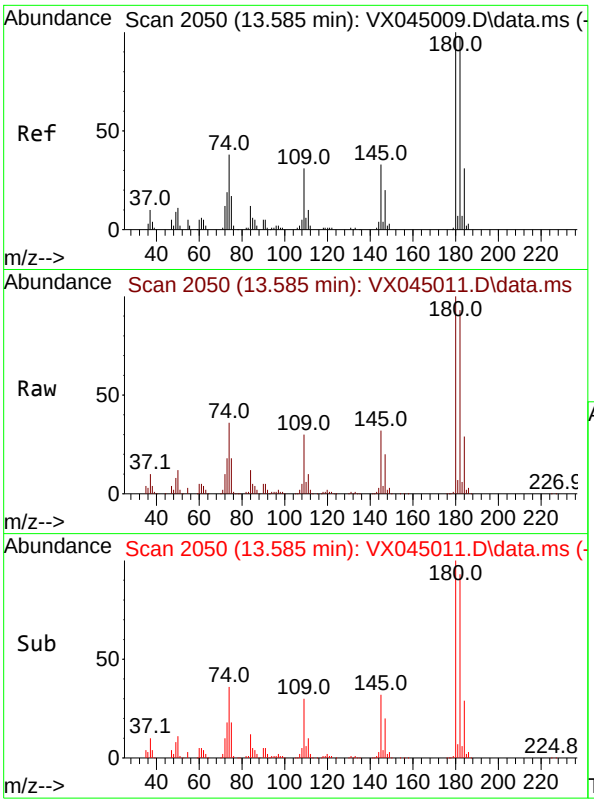


#88
1,2-Dibromo-3-Chloropropane
Concen: 98.669 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.000 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion: 75 Resp: 37960

Ion	Ratio	Lower	Upper
75	100		
155	79.6	66.2	99.4
157	103.3	81.4	122.2

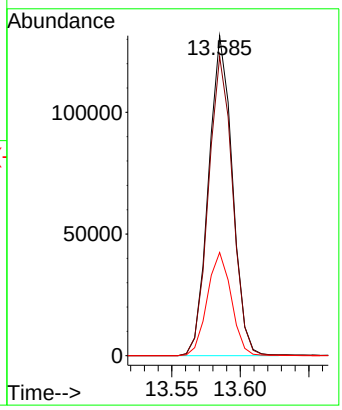




#89
1,2,4-Trichlorobenzene
Concen: 103.039 ug/l
RT: 13.585 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion:180 Resp: 15859

Ion	Ratio	Lower	Upper
180	100		
182	94.7	77.7	116.5
145	32.6	25.8	38.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
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Reviewed By :John Carlone 02/24/2025
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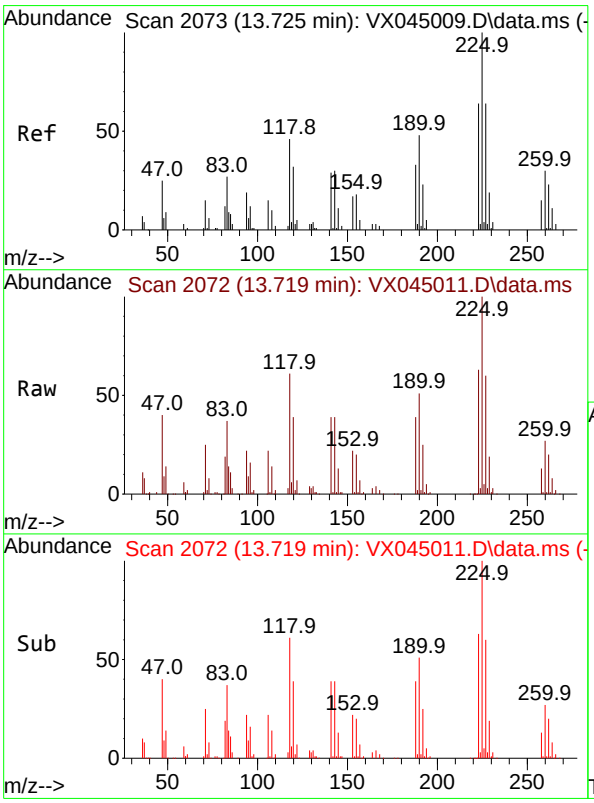
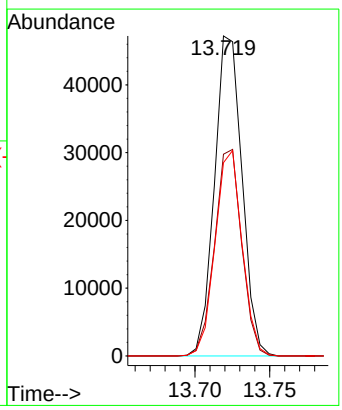
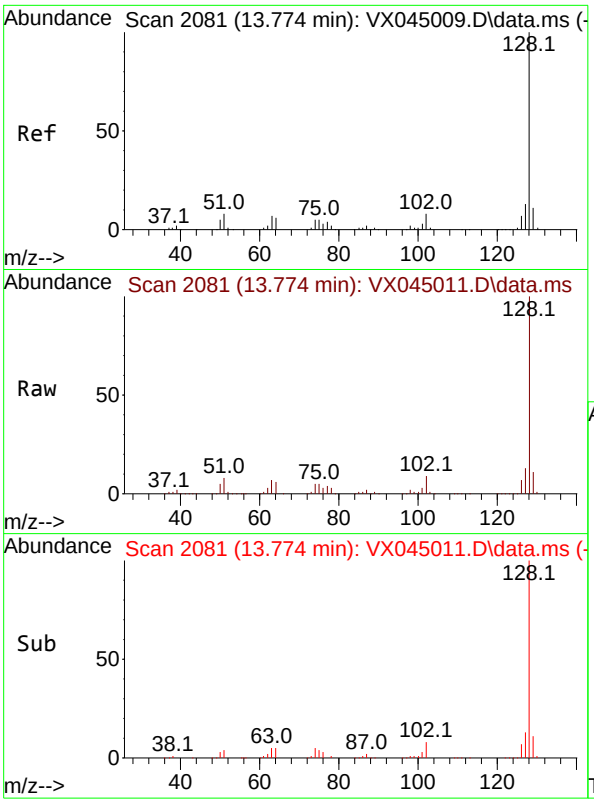


#90
Hexachlorobutadiene
Concen: 96.489 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. -0.006 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion:225 Resp: 60565

Ion	Ratio	Lower	Upper
225	100		
223	63.5	0.0	123.4
227	62.6	0.0	127.4

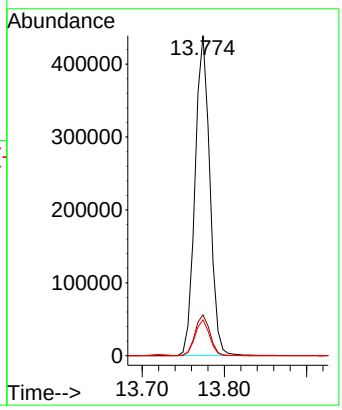




#91
Naphthalene
Concen: 100.977 ug/l
RT: 13.774 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion:128 Resp: 54802

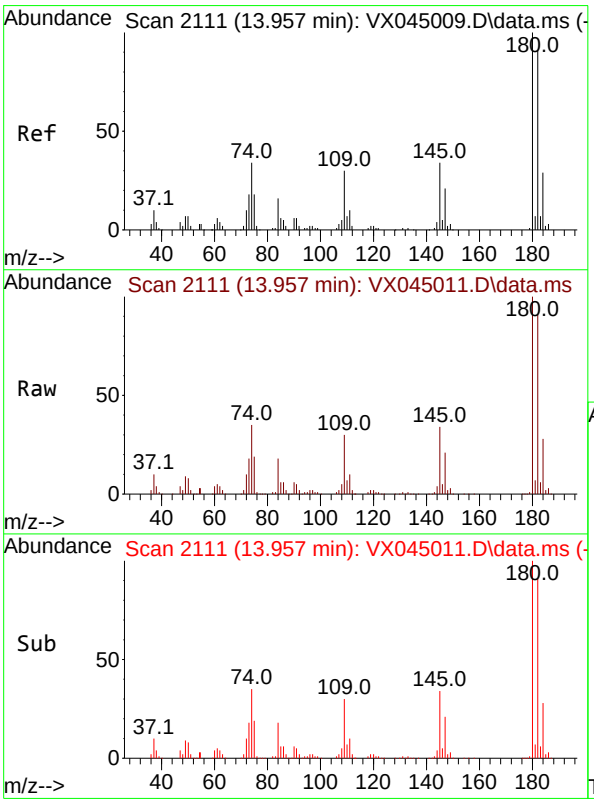
Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.5	15.7
129	11.0	8.7	13.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

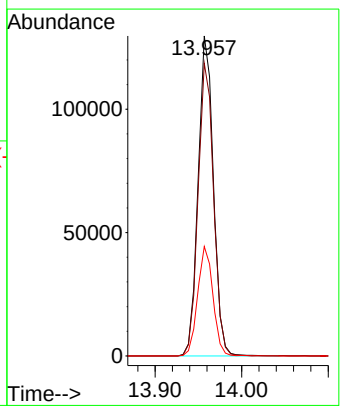
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025



#92
1,2,3-Trichlorobenzene
Concen: 100.267 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VX045011.D
Acq: 21 Feb 2025 11:07

Tgt Ion:180 Resp: 158881

Ion	Ratio	Lower	Upper
180	100		
182	92.9	0.0	186.6
145	34.3	0.0	68.4



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022125\
Data File : VX045012.D
Acq On : 21 Feb 2025 11:29
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

Quant Time: Feb 22 00:49:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X022125W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Feb 22 00:21:26 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	4.891	128	15390	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	91158	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.049	117	81702	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	46852	31.344	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 104.467%			
60) 4-Bromofluorobenzene	11.079	95	47199	30.907	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 103.033%			
63) Toluene-d8	8.647	98	134852	29.835	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.467%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	205354	158.286	ug/l	96
3) Chloromethane	1.295	50	242022	155.752	ug/l	100
4) Vinyl Chloride	1.374	62	240390	160.323	ug/l	100
5) Bromomethane	1.593	94	81221	155.617	ug/l	97
6) Chloroethane	1.660	64	93284	114.868	ug/l	97
7) Trichlorofluoromethane	1.868	101	320914	159.243	ug/l	97
8) Diethyl Ether	2.130	74	121707	159.619	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.319	101	191867	160.302	ug/l	98
10) 1,1-Dichloroethene	2.307	96	191658	163.938	ug/l	90
11) Methyl Iodide	2.447	142	247014	186.677	ug/l	97
12) Methyl Acetate	2.703	43	226419	166.780	ug/l	99
13) Acrolein	2.233	56	233841	859.331	ug/l	99
14) Acrylonitrile	3.062	53	532462	802.955	ug/l	99
15) Acetone	2.386	58	137785	757.609	ug/l	98
16) Carbon Disulfide	2.502	76	548971	165.547	ug/l	99
17) Allyl chloride	2.654	41	362889	165.958	ug/l	100
18) Methylene Chloride	2.782	84	211221	160.628	ug/l	97
19) trans-1,2-Dichloroethene	3.087	96	192443	162.701	ug/l	97
20) Diisopropyl ether	3.757	45	684590	162.921	ug/l #	84
21) 1,1-Dichloroethane	3.599	63	379249	162.287	ug/l	99
22) cis-1,2-Dichloroethene	4.483	96	230636	162.719	ug/l	98
23) tert-Butyl Alcohol	3.014	59	185225m	799.131	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	628626	164.746	ug/l	100
25) Chloroform	5.087	83	367141	162.652	ug/l	100
26) Cyclohexane	5.464	56	351233	162.829	ug/l #	99
29) 1,1-Dichloropropene	5.684	75	260684	155.458	ug/l	99
30) 2-Butanone	4.550	43	735492	759.373	ug/l	100
31) 2,2-Dichloropropane	4.465	77	304225	160.447	ug/l	100
32) 1,1,1-Trichloroethane	5.373	97	316595	155.824	ug/l	99
33) Carbon Tetrachloride	5.672	117	264905	154.492	ug/l	98
34) Benzene	6.031	78	800159	152.163	ug/l	99
35) Methacrylonitrile	4.916	41	162761	157.037	ug/l	96
36) 1,2-Dichloroethane	6.080	62	276707	153.695	ug/l	97
37) Trichloroethene	7.117	130	189307	153.878	ug/l	96
38) Methylcyclohexane	7.373	83	350907	155.851	ug/l	98
39) 1,2-Dichloropropane	7.421	63	202146	154.621	ug/l	98
40) Dibromomethane	7.574	93	143641	153.109	ug/l	99
41) Bromodichloromethane	7.818	83	291108	156.122	ug/l	99
42) Vinyl Acetate	3.715	43	2988086	795.020	ug/l	99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022125\
Data File : VX045012.D
Acq On : 21 Feb 2025 11:29
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 22 00:49:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X022125W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Feb 22 00:21:26 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.709	43	292788	161.195	ug/l	97
44) Isopropyl Acetate	6.336	43	490033	163.920	ug/l	99
45) 1,4-Dioxane	7.665	88	91297	2937.775	ug/l	98
46) Methyl methacrylate	7.690	41	241575	164.798	ug/l	97
47) n-amyl Acetate	10.842	43	438261	168.943	ug/l	98
48) t-1,3-Dichloropropene	8.976	75	303740	169.001	ug/l	100
49) cis-1,3-Dichloropropene	8.360	75	331118	162.750	ug/l	98
50) 1,1,2-Trichloroethane	9.147	97	183455	149.917	ug/l	95
51) Ethyl methacrylate	9.116	69	323054	167.857	ug/l	100
52) 1,3-Dichloropropane	9.305	76	327551	152.762	ug/l	99
53) Dibromochloromethane	9.519	129	213326	157.620	ug/l	97
54) 1,2-Dibromoethane	9.604	107	194634	156.632	ug/l	99
55) 2-Chloroethyl vinyl ether	8.238	63	788934	798.256	ug/l	99
56) Bromoform	10.799	173	140224	165.340	ug/l	98
58) 4-Methyl-2-Pentanone	8.574	43	1431130	770.025	ug/l	99
59) 2-Hexanone	9.433	43	1054503	784.964	ug/l	99
61) Tetrachloroethene	9.269	164	149808	148.903	ug/l	95
62) Toluene	8.714	91	824606	152.359	ug/l	100
64) Chlorobenzene	10.073	112	513552	153.126	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.159	131	175139	158.260	ug/l	98
66) Ethyl Benzene	10.189	91	933862	157.604	ug/l	97
67) m/p-Xylenes	10.299	106	679028	307.573	ug/l	97
68) o-Xylene	10.640	106	333410	153.922	ug/l	98
69) Styrene	10.653	104	566072	156.470	ug/l	97
70) Isopropylbenzene	10.957	105	868382	155.350	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.207	83	283733	154.359	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	234613m	155.182	ug/l	
73) Bromobenzene	11.195	156	198360	154.147	ug/l	96
74) n-propylbenzene	11.299	91	1049645	157.793	ug/l	98
75) 2-Chlorotoluene	11.360	91	619308	153.997	ug/l	98
76) 1,3,5-Trimethylbenzene	11.451	105	707908	153.508	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	97507	191.694	ug/l	99
78) 4-Chlorotoluene	11.451	91	704032	157.047	ug/l	98
79) tert-butylbenzene	11.713	119	716064	154.110	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	710215	153.746	ug/l	100
81) sec-Butylbenzene	11.890	105	910294	156.100	ug/l	100
82) p-Isopropyltoluene	12.006	119	738494	156.297	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	371922	155.340	ug/l	98
84) 1,4-Dichlorobenzene	12.036	146	366532	155.264	ug/l	99
85) n-Butylbenzene	12.329	91	710846	164.749	ug/l	98
86) Hexachloroethane	12.536	117	142372	170.855	ug/l	98
87) 1,2-Dichlorobenzene	12.335	146	356347	151.688	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.939	75	59310	166.653	ug/l	98
89) 1,2,4-Trichlorobenzene	13.585	180	238129	167.248	ug/l	98
90) Hexachlorobutadiene	13.725	225	90085	155.145	ug/l	98
91) Naphthalene	13.774	128	829698	165.262	ug/l	100
92) 1,2,3-Trichlorobenzene	13.957	180	236181	161.124	ug/l	99

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

ICAL Form

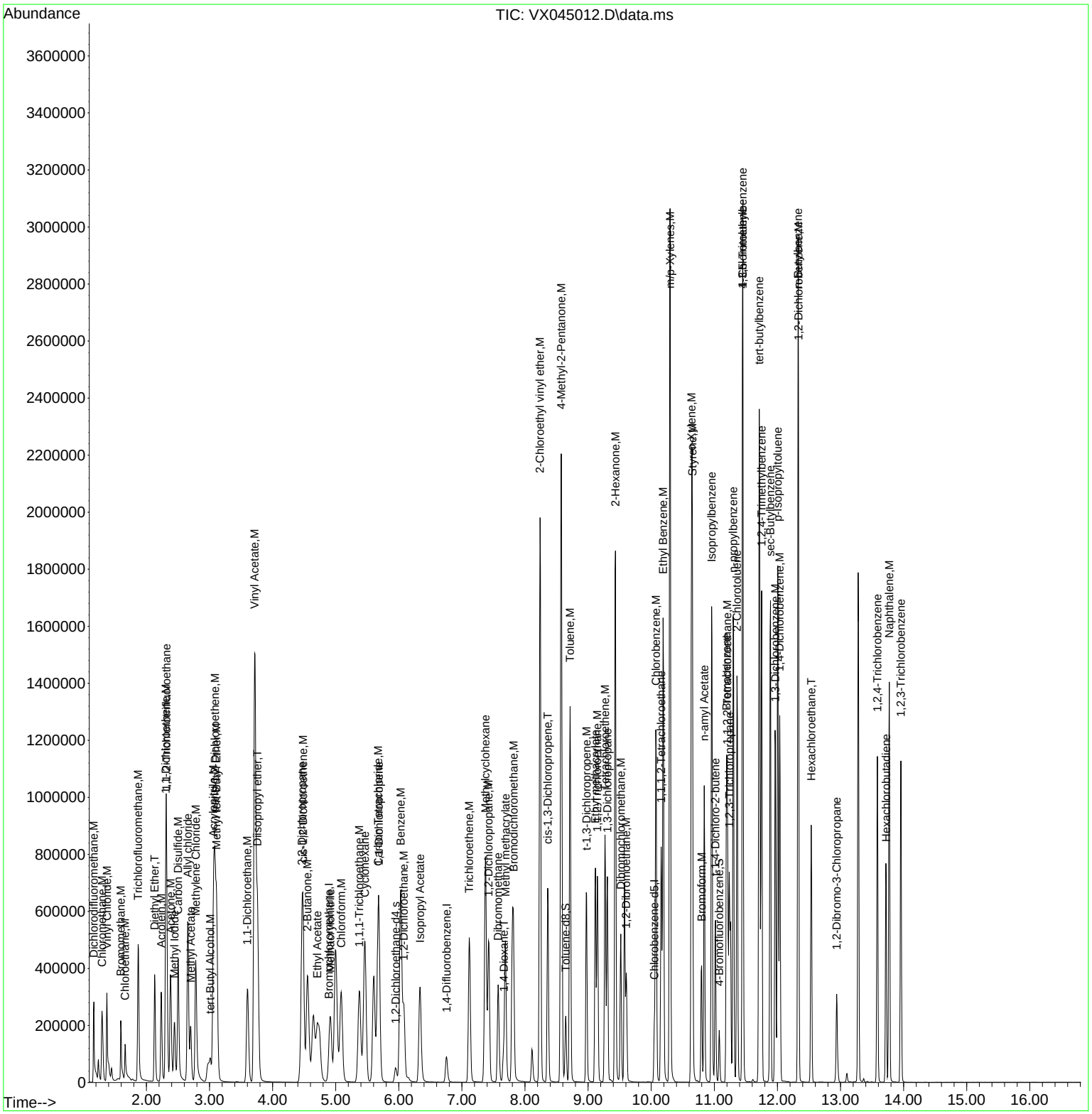
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022125\
Data File : VX045012.D
Acq On : 21 Feb 2025 11:29
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

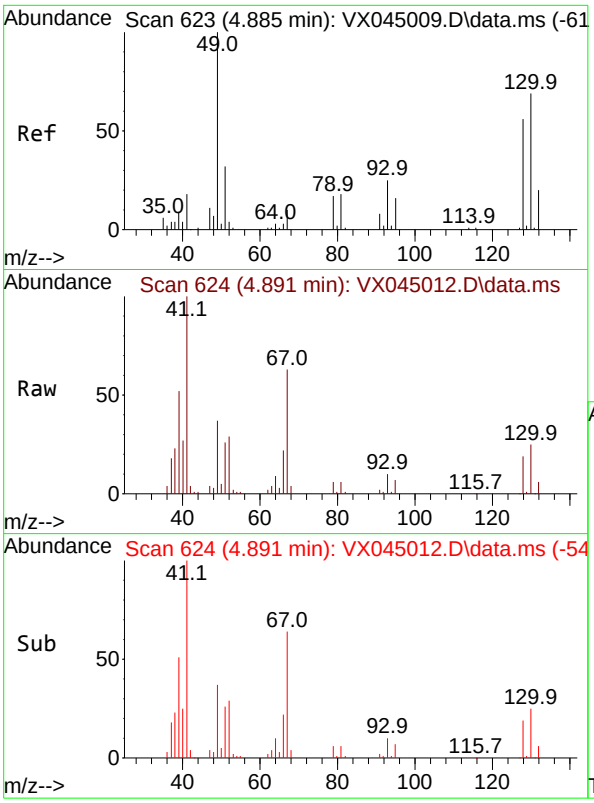
Quant Time: Feb 22 00:49:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X022125W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Feb 22 00:21:26 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

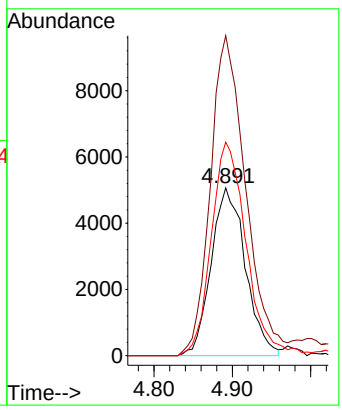




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.891 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion:128 Resp: 1539

Ion	Ratio	Lower	Upper
128	100		
49	196.5	0.0	449.7
130	128.8	0.0	312.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/24/2025
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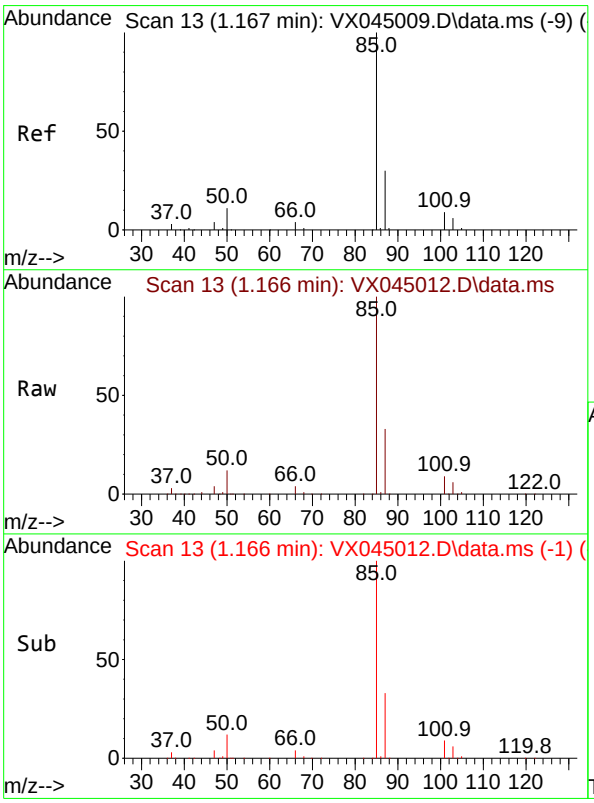
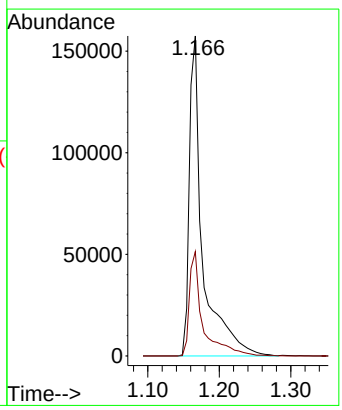
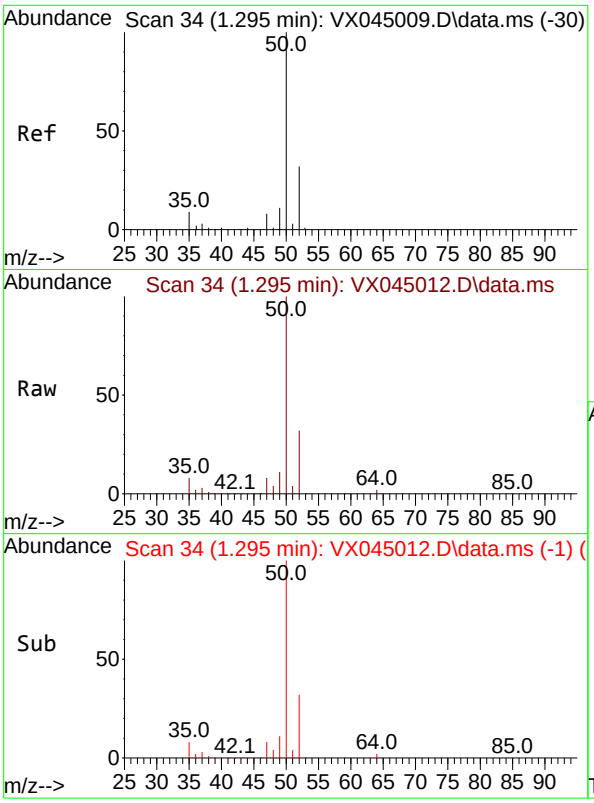


#2
Dichlorodifluoromethane
Concen: 158.286 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion: 85 Resp: 205354

Ion	Ratio	Lower	Upper
85	100		
87	32.6	15.1	45.3

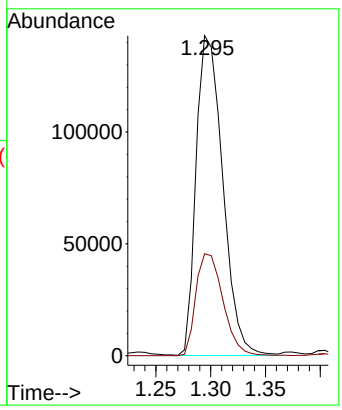




#3
Chloromethane
Concen: 155.752 ug/l
RT: 1.295 min Scan# 34
Delta R.T. -0.000 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion: 50 Resp: 24202

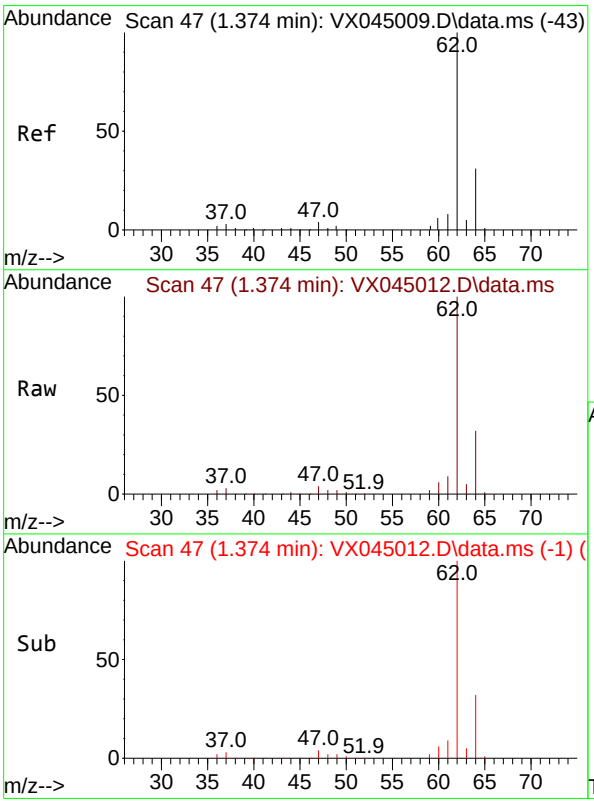
Ion	Ratio	Lower	Upper
50	100		
52	31.9	25.7	38.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

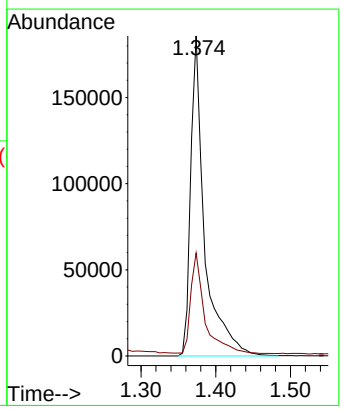
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

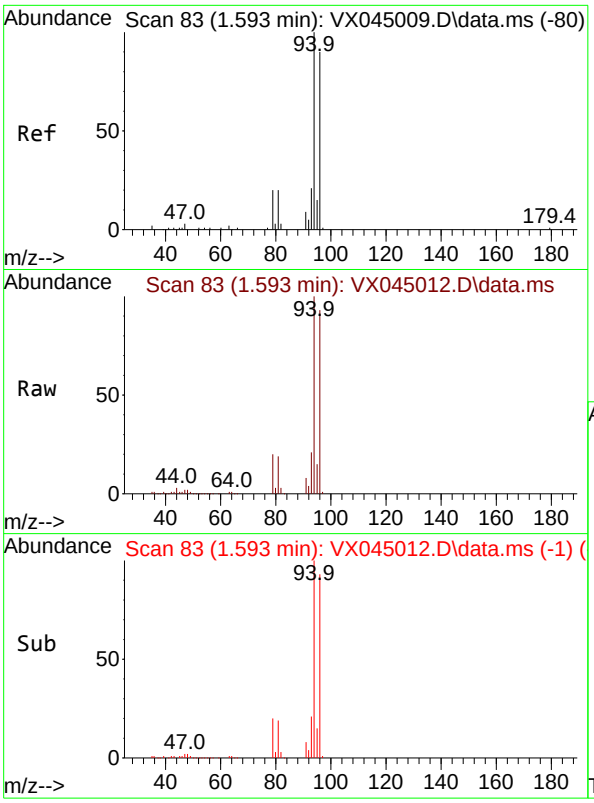


#4
Vinyl Chloride
Concen: 160.323 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion: 62 Resp: 240390

Ion	Ratio	Lower	Upper
62	100		
64	31.4	25.1	37.7

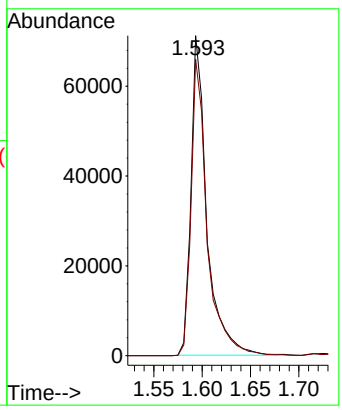




#5
Bromomethane
Concen: 155.617 ug/l
RT: 1.593 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion: 94 Resp: 8122

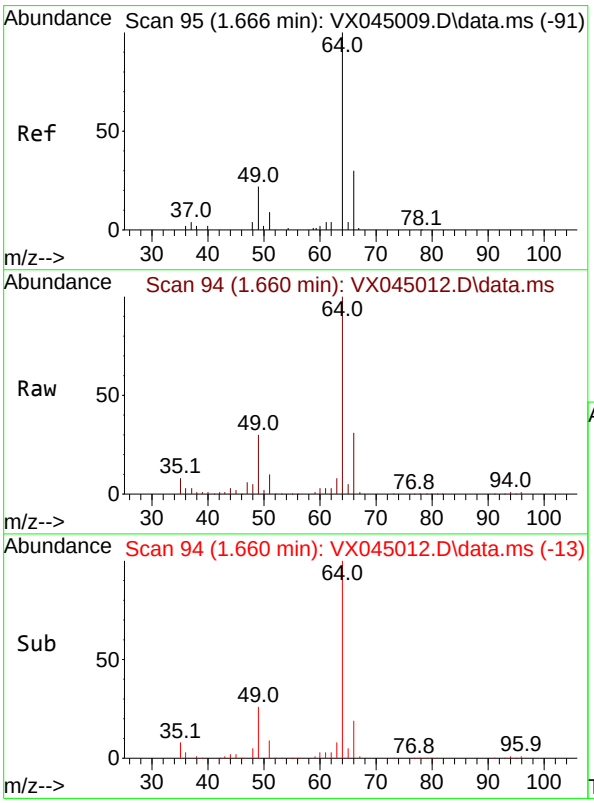
Ion	Ratio	Lower	Upper
94	100		
96	92.7	72.2	108.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

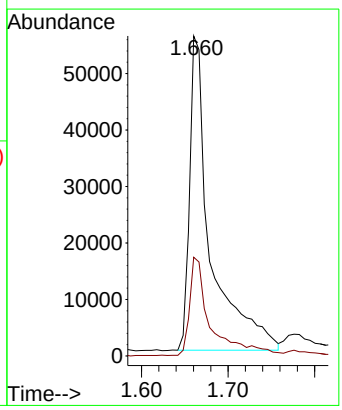
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

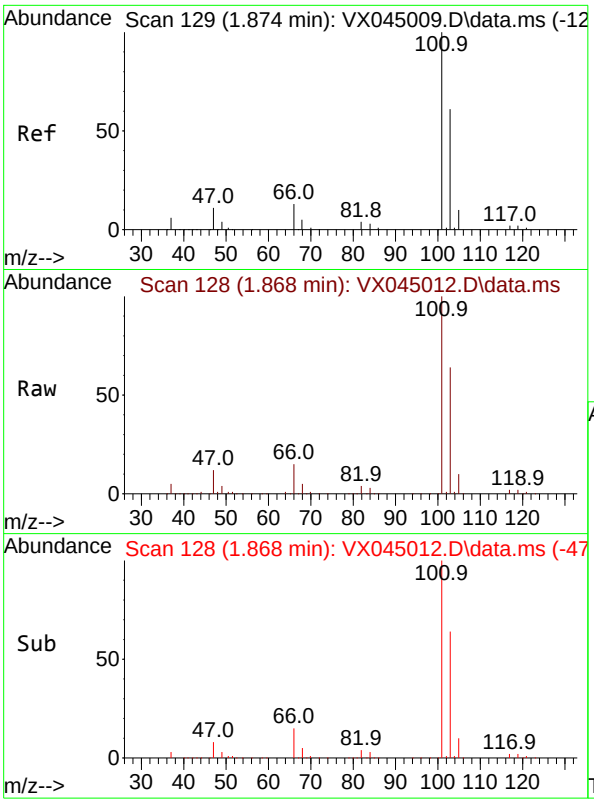


#6
Chloroethane
Concen: 114.868 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.006 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion: 64 Resp: 93284

Ion	Ratio	Lower	Upper
64	100		
66	31.3	23.7	35.5

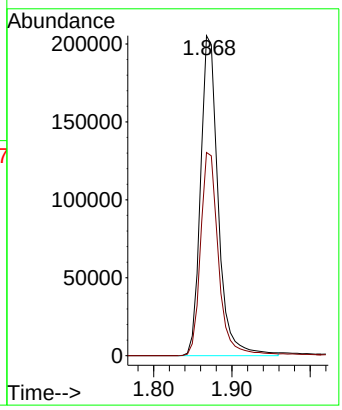




#7
Trichlorofluoromethane
Concen: 159.243 ug/l
RT: 1.868 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion:101 Resp: 32091

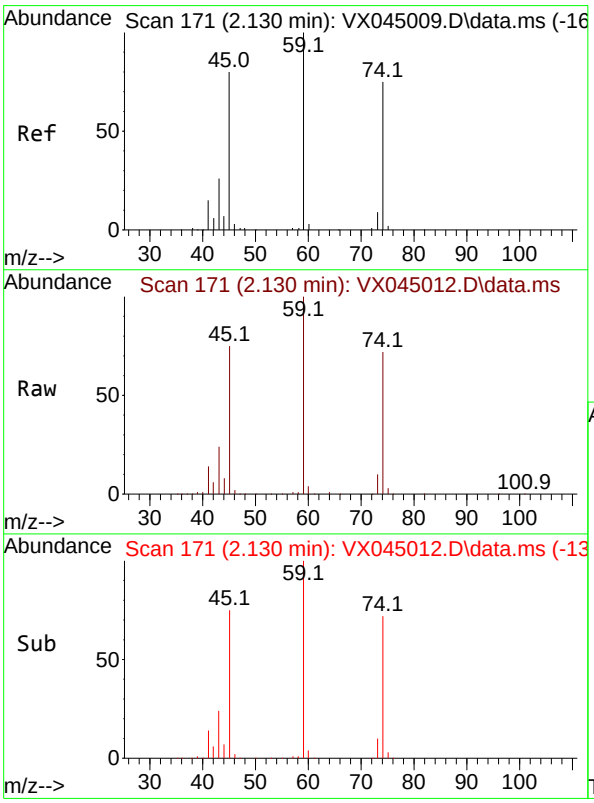
Ion	Ratio	Lower	Upper
101	100		
103	63.5	48.8	73.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

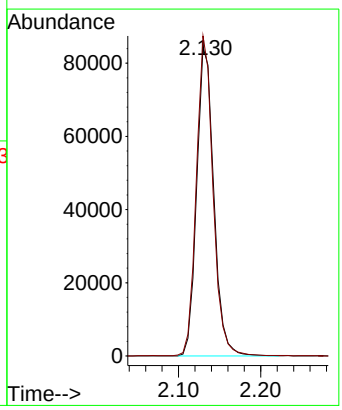
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

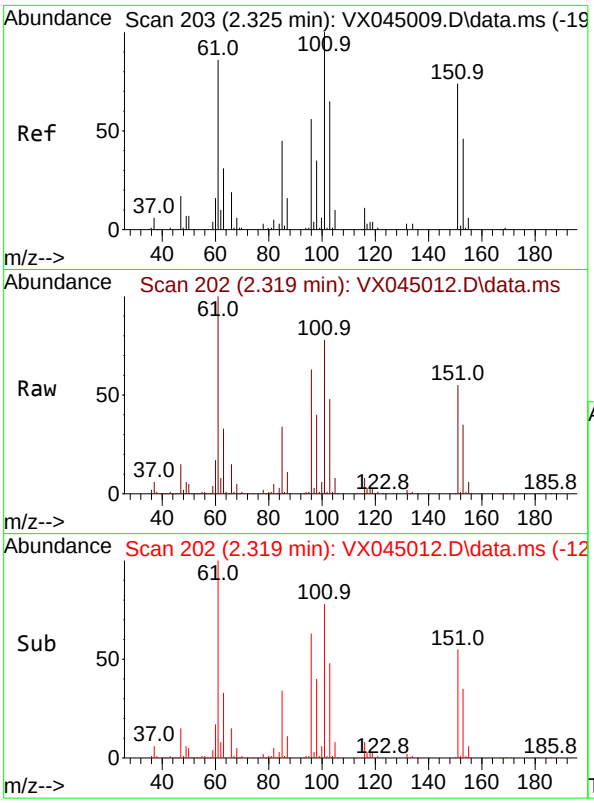


#8
Diethyl Ether
Concen: 159.619 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.000 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion: 74 Resp: 121707

Ion	Ratio	Lower	Upper
74	100		
45	101.0	20.8	186.8





#9
1,1,2-Trichlorotrifluoroethane
Concen: 160.302 ug/l
RT: 2.319 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion:101 Resp: 19186

Ion	Ratio	Lower	Upper
101	100		
85	45.2	0.0	90.6
151	71.0	0.0	147.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/24/2025
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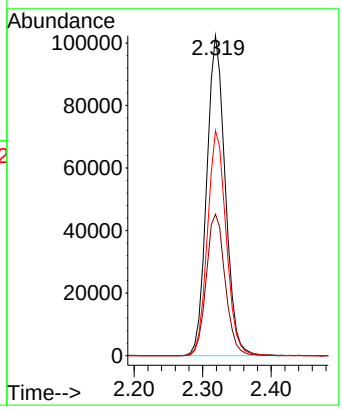
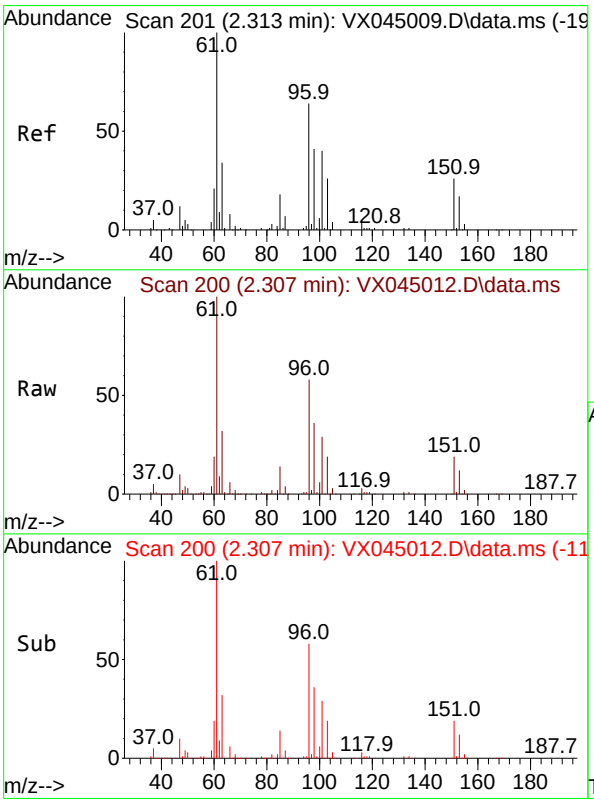
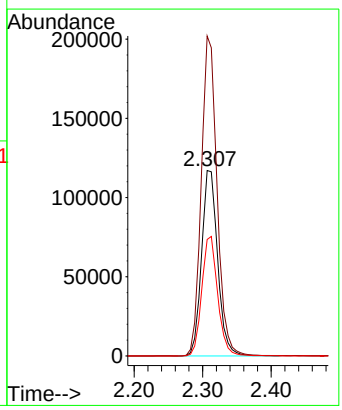


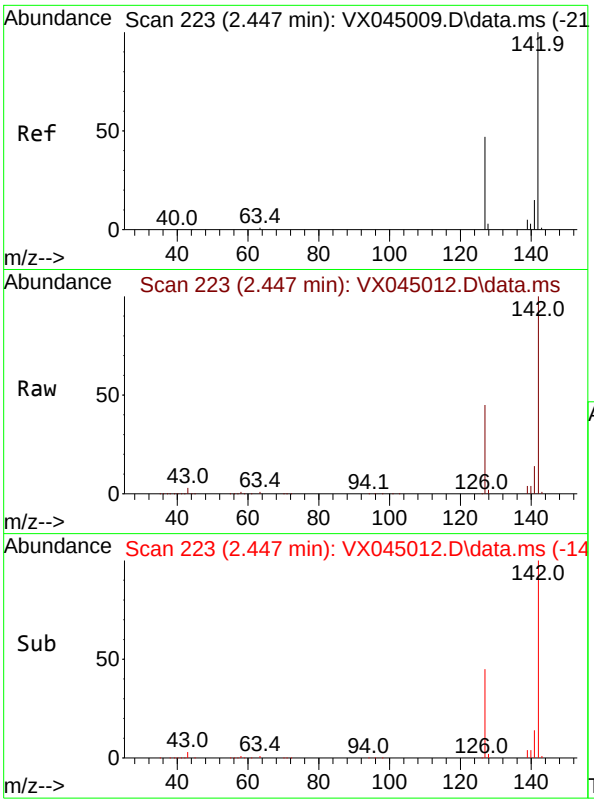


#10
1,1-Dichloroethene
Concen: 163.938 ug/l
RT: 2.307 min Scan# 200
Delta R.T. -0.006 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion: 96 Resp: 191658

Ion	Ratio	Lower	Upper
96	100		
61	172.6	124.2	186.2
98	62.8	51.1	76.7





#11
Methyl Iodide
Concen: 186.677 ug/l
RT: 2.447 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

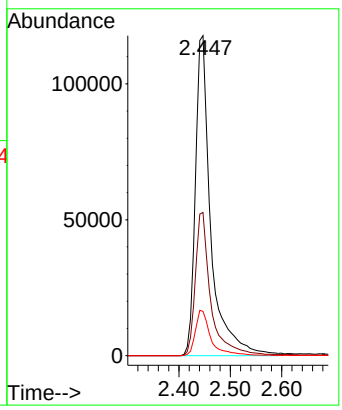
Tgt Ion:142 Resp: 24701

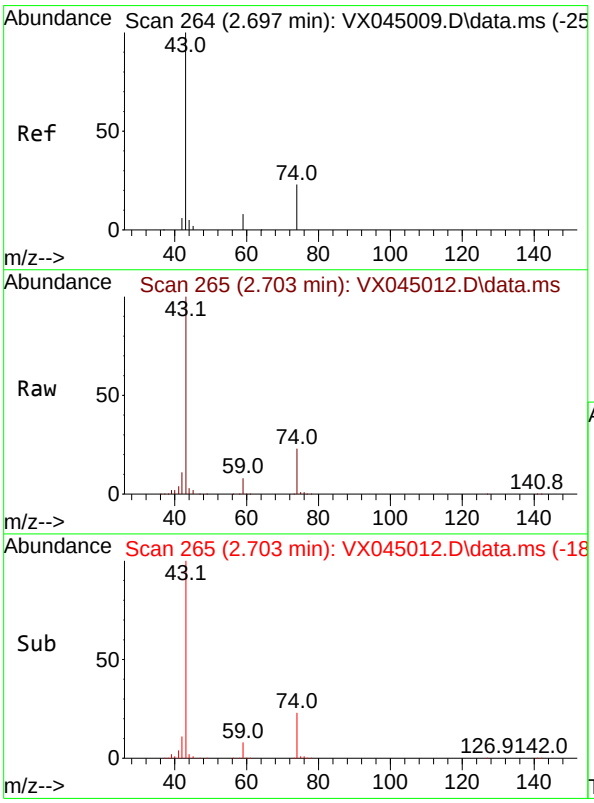
Ion	Ratio	Lower	Upper
142	100		
127	44.7	23.3	69.9
141	13.9	7.5	22.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

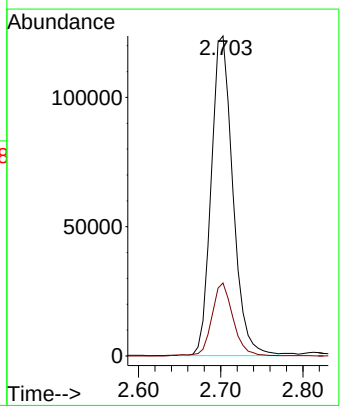


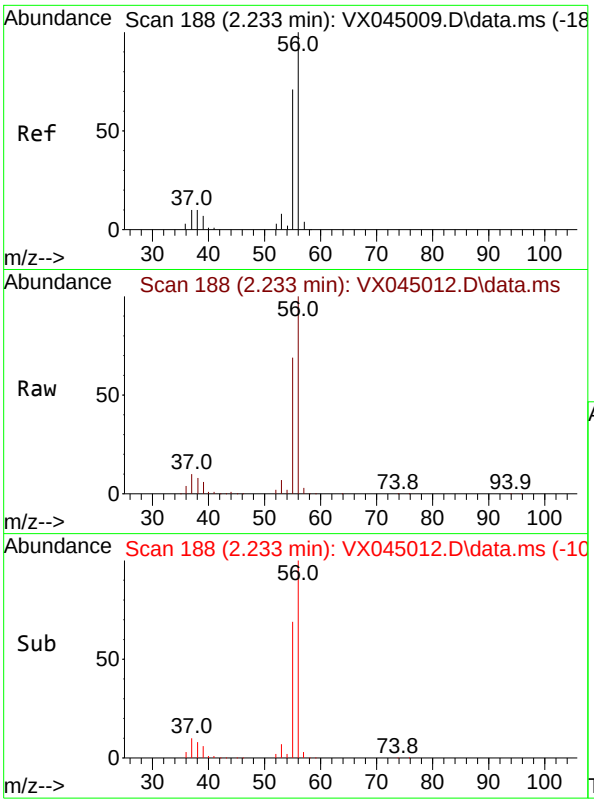


#12
Methyl Acetate
Concen: 166.780 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.006 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion: 43 Resp: 226419

Ion	Ratio	Lower	Upper
43	100		
74	22.7	17.9	26.9

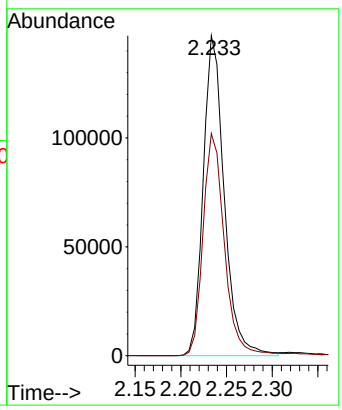




#13
Acrolein
Concen: 859.331 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion: 56 Resp: 23384

Ion	Ratio	Lower	Upper
56	100		
55	70.5	55.4	83.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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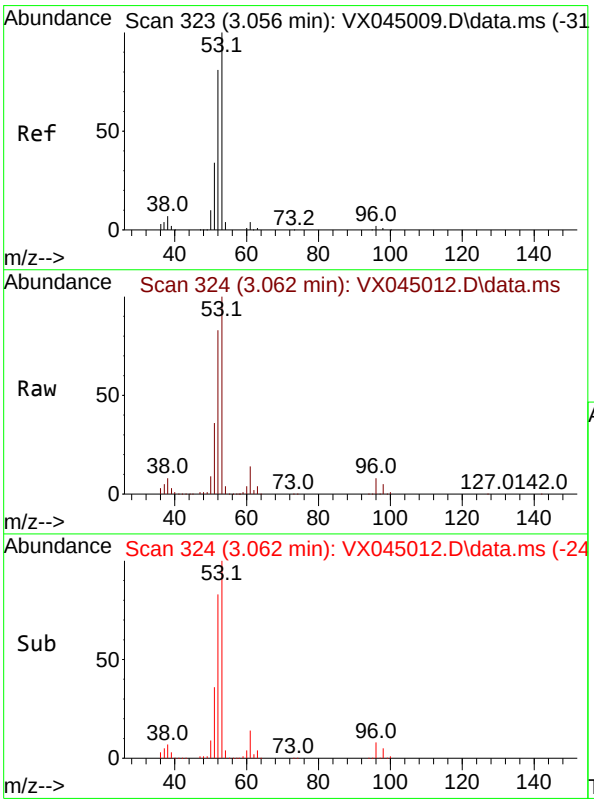
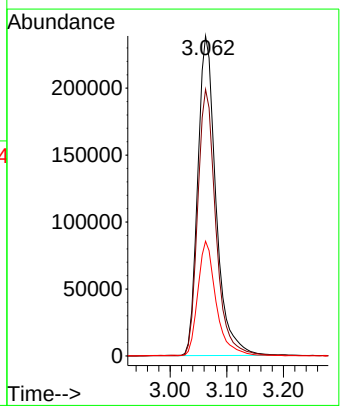
Supervised By :Mahesh Dadoda 02/24/2025

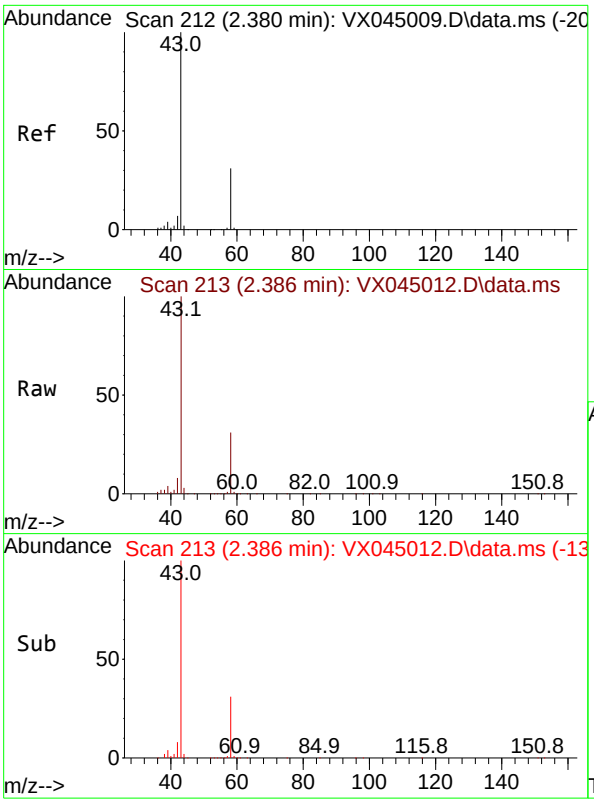


#14
Acrylonitrile
Concen: 802.955 ug/l
RT: 3.062 min Scan# 324
Delta R.T. 0.006 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion: 53 Resp: 532462

Ion	Ratio	Lower	Upper
53	100		
52	83.0	40.9	122.8
51	36.2	18.0	54.0





#15
Acetone
Concen: 757.609 ug/l
RT: 2.386 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion: 58 Resp: 13778

Ion	Ratio	Lower	Upper
58	100		
43	318.9	258.6	388.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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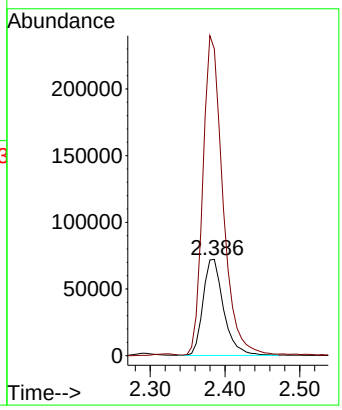
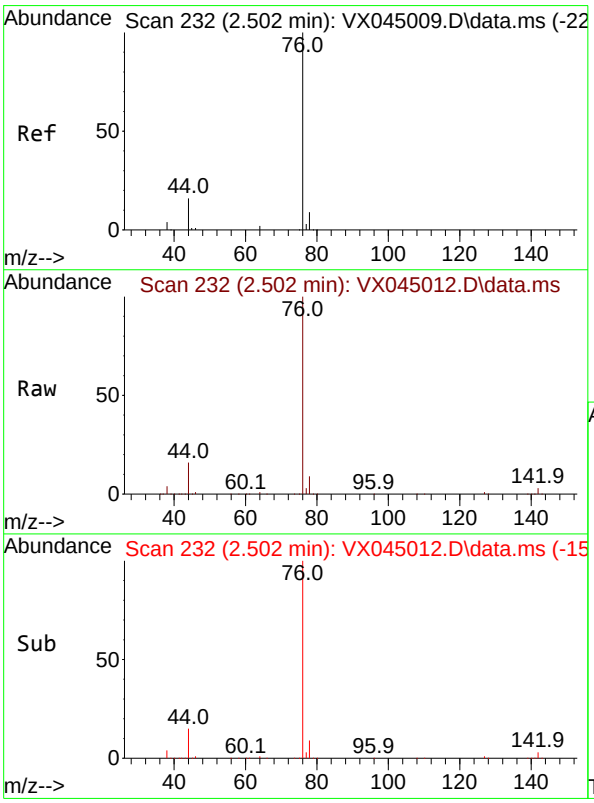
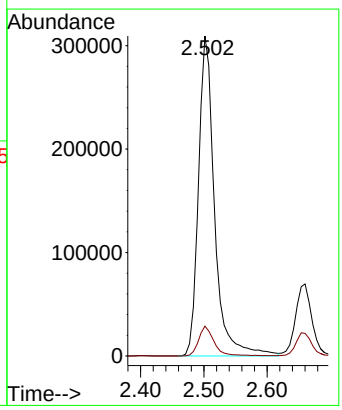


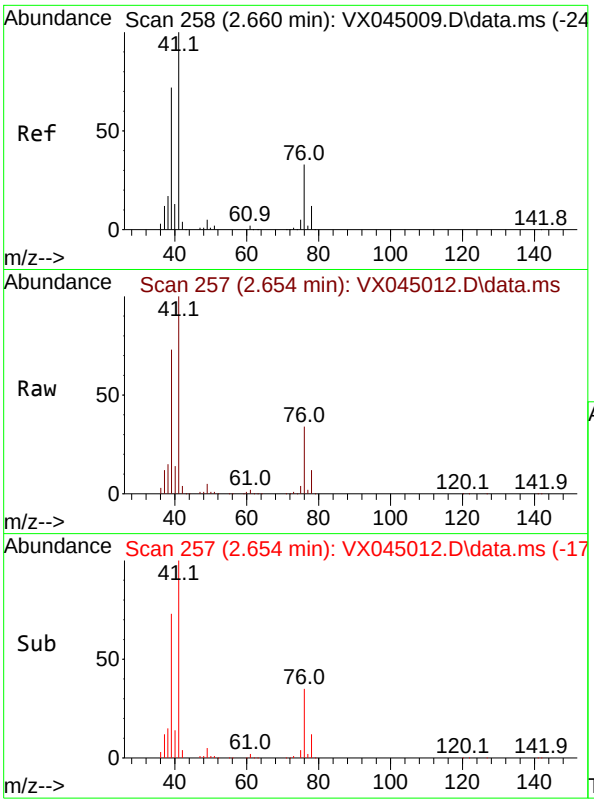


#16
Carbon Disulfide
Concen: 165.547 ug/l
RT: 2.502 min Scan# 232
Delta R.T. -0.000 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion: 76 Resp: 548971

Ion	Ratio	Lower	Upper
76	100		
78	9.3	7.3	10.9

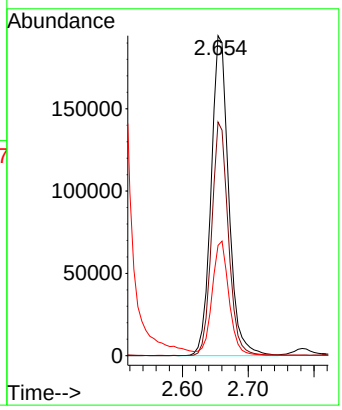




#17
Allyl chloride
Concen: 165.958 ug/l
RT: 2.654 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion: 41 Resp: 36288

Ion	Ratio	Lower	Upper
41	100		
39	73.0	36.2	108.6
76	34.3	17.2	51.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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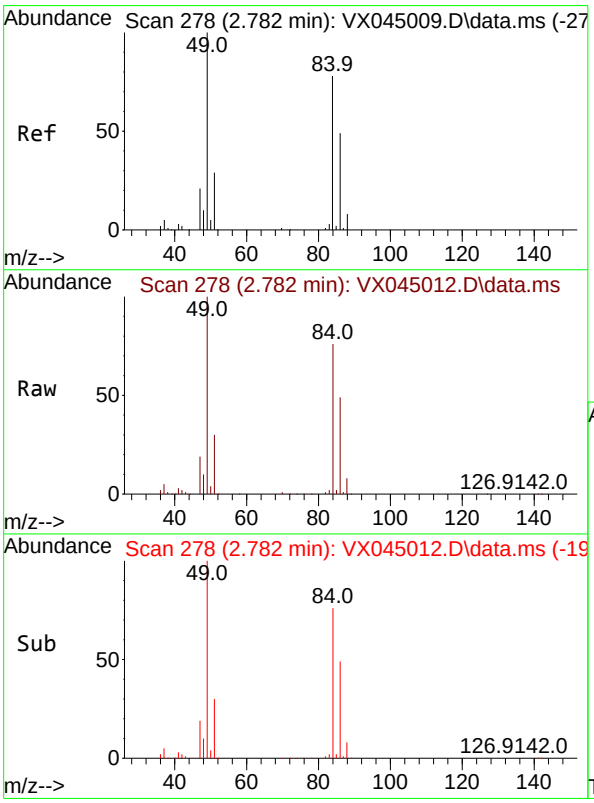
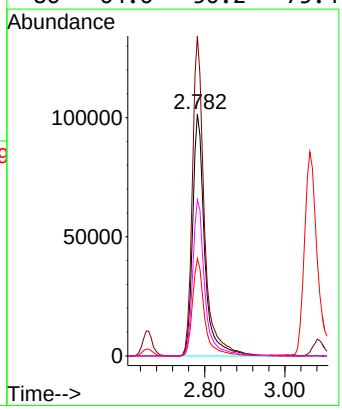
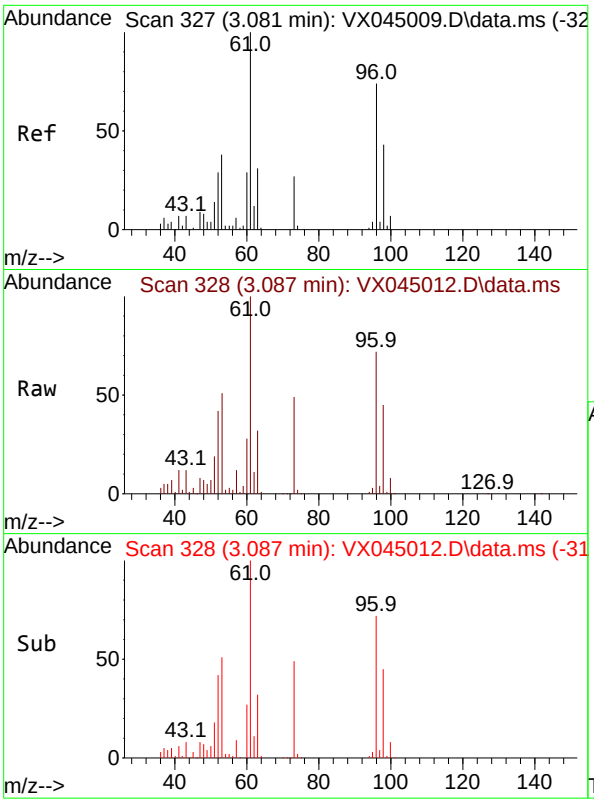


#18
Methylene Chloride
Concen: 160.628 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion: 84 Resp: 211221

Ion	Ratio	Lower	Upper
84	100		
49	132.4	102.8	154.2
51	40.3	30.1	45.1
86	64.6	50.2	75.4

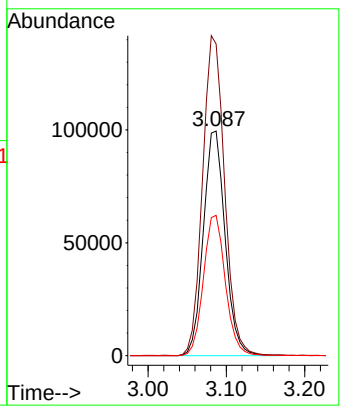




#19
trans-1,2-Dichloroethene
Concen: 162.701 ug/l
RT: 3.087 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion: 96 Resp: 19244

Ion	Ratio	Lower	Upper
96	100		
61	138.6	108.6	163.0
98	62.5	46.5	69.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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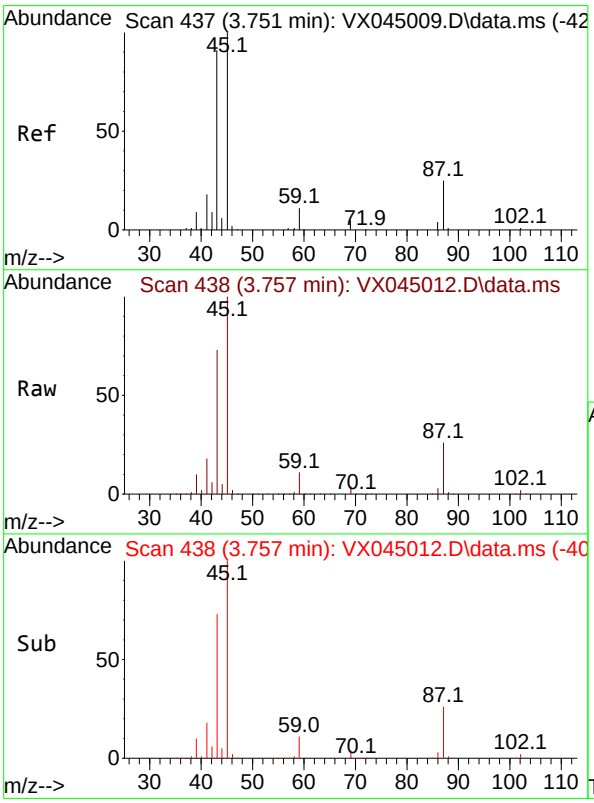
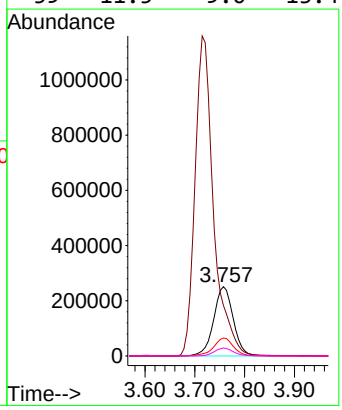
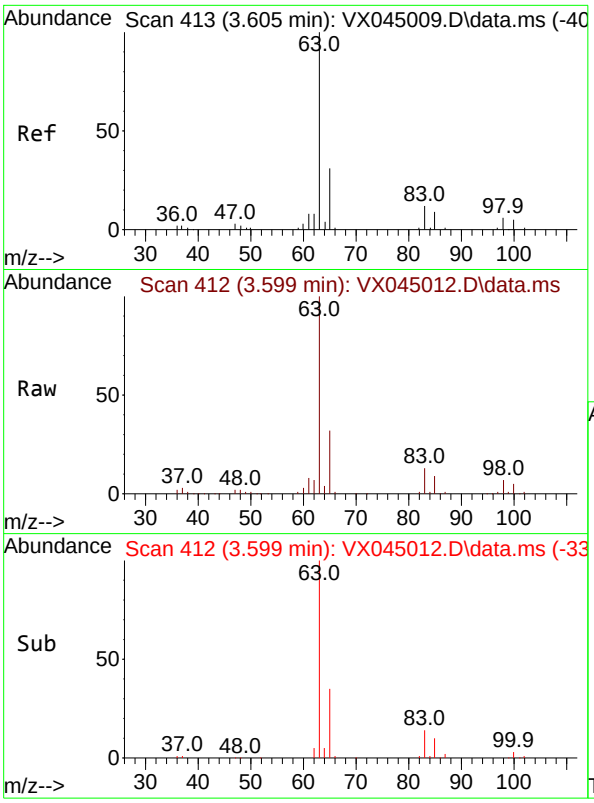


#20
Diisopropyl ether
Concen: 162.921 ug/l
RT: 3.757 min Scan# 438
Delta R.T. 0.006 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion: 45 Resp: 684590

Ion	Ratio	Lower	Upper
45	100		
43	72.4	74.4	111.6#
87	26.0	19.8	29.8
59	11.5	9.0	13.4

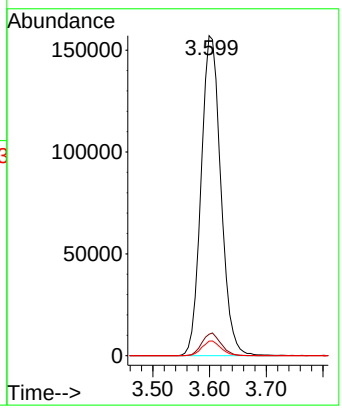




#21
1,1-Dichloroethane
Concen: 162.287 ug/l
RT: 3.599 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion: 63 Resp: 37924

Ion	Ratio	Lower	Upper
63	100		
98	6.7	3.3	9.8
100	4.6	2.4	7.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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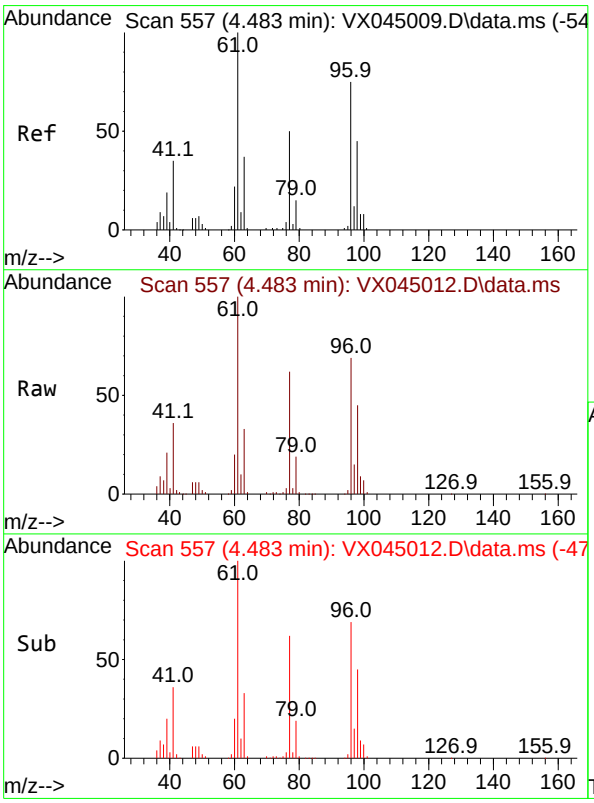
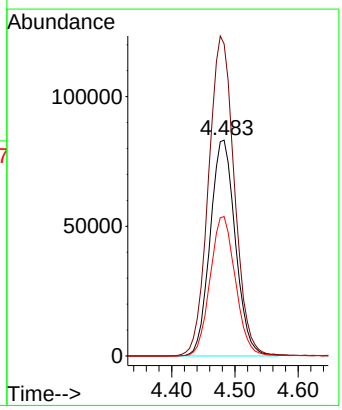
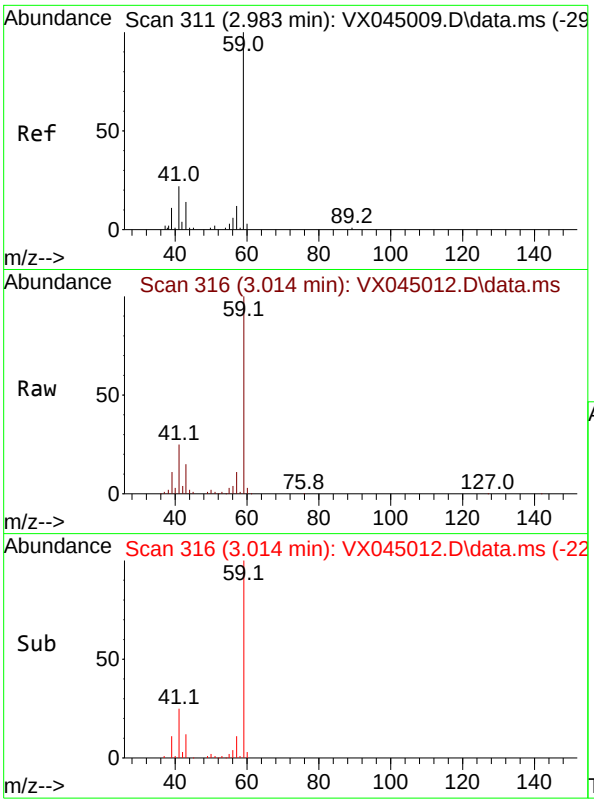


#22
cis-1,2-Dichloroethene
Concen: 162.719 ug/l
RT: 4.483 min Scan# 557
Delta R.T. -0.000 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion: 96 Resp: 230636

Ion	Ratio	Lower	Upper
96	100		
61	152.0	118.9	178.3
98	64.6	50.7	76.1

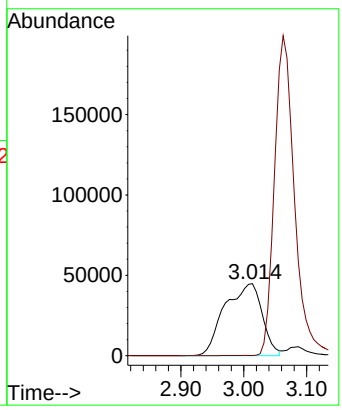




#23
tert-Butyl Alcohol
Concen: 799.131 ug/l m
RT: 3.014 min Scan# 3
Delta R.T. 0.030 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion: 59 Resp: 18522

Ion	Ratio	Lower	Upper
59	100		
52	0.0	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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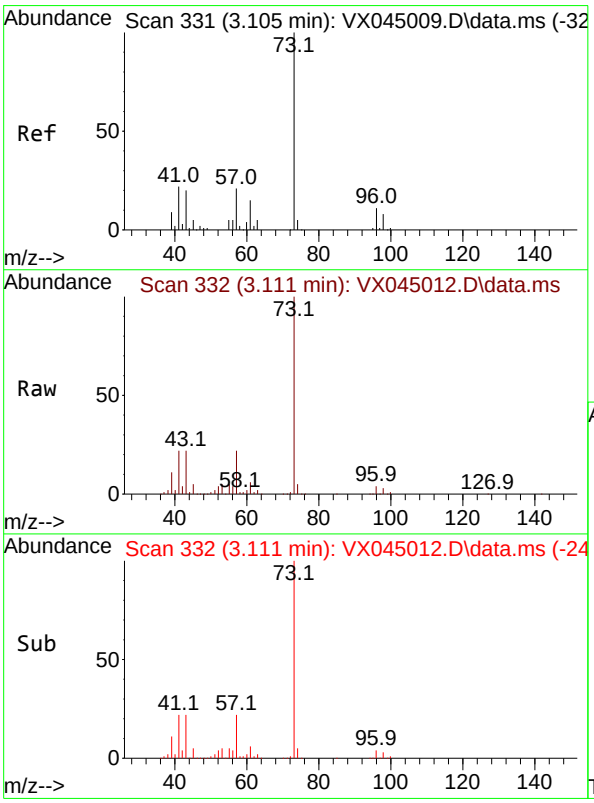
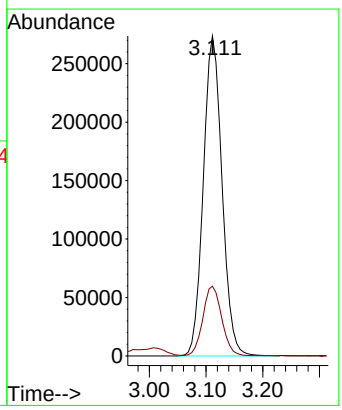
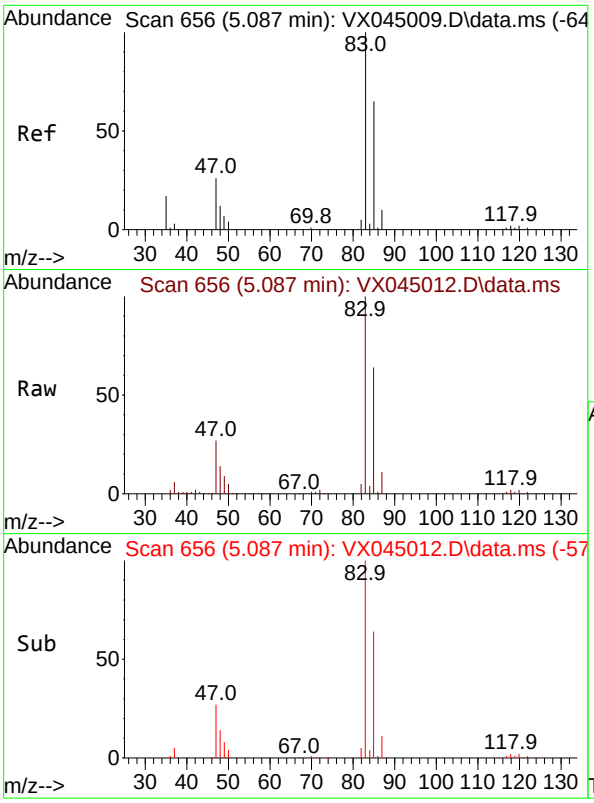


#24
Methyl tert-Butyl Ether
Concen: 164.746 ug/l
RT: 3.111 min Scan# 332
Delta R.T. 0.006 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion: 73 Resp: 628626

Ion	Ratio	Lower	Upper
73	100		
43	21.7	17.4	26.0

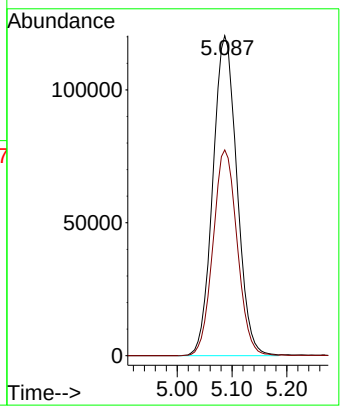




#25
Chloroform
Concen: 162.652 ug/l
RT: 5.087 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion: 83 Resp: 36714

Ion	Ratio	Lower	Upper
83	100		
85	64.3	51.7	77.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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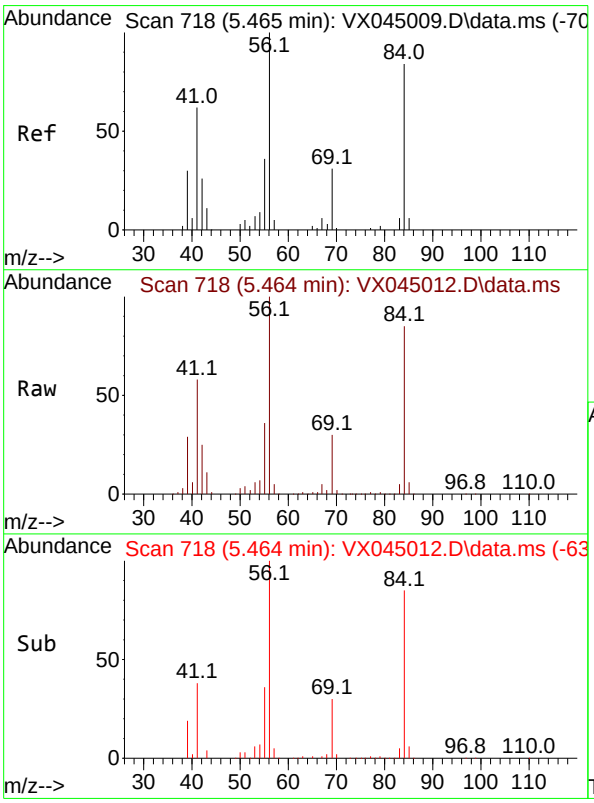
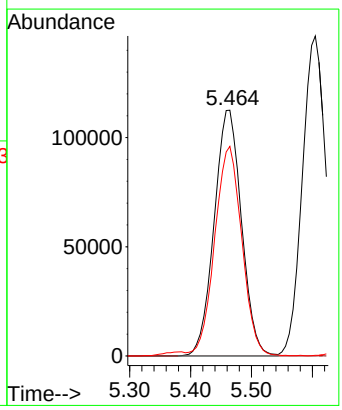
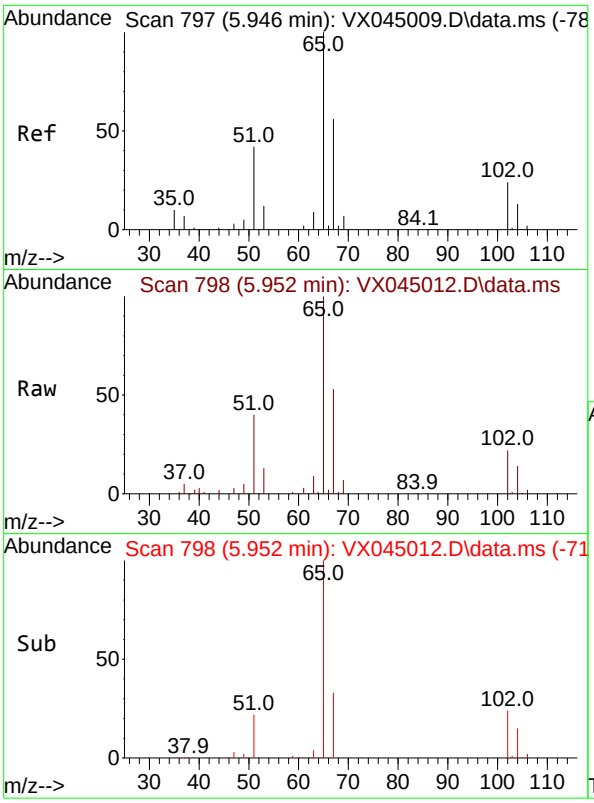


#26
Cyclohexane
Concen: 162.829 ug/l
RT: 5.464 min Scan# 718
Delta R.T. -0.000 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion: 56 Resp: 351233

Ion	Ratio	Lower	Upper
56	100		
89	0.0	0.0	0.0
84	84.8	67.1	100.7

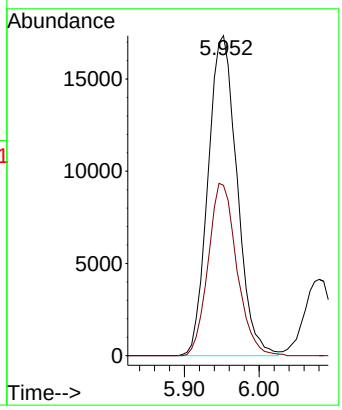




#27
1,2-Dichloroethane-d4
Concen: 31.344 ug/l
RT: 5.952 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion: 65 Resp: 4685

Ion	Ratio	Lower	Upper
65	100		
67	53.1	42.6	64.0



Instrument :
MSVOA_X
ClientSampleId :
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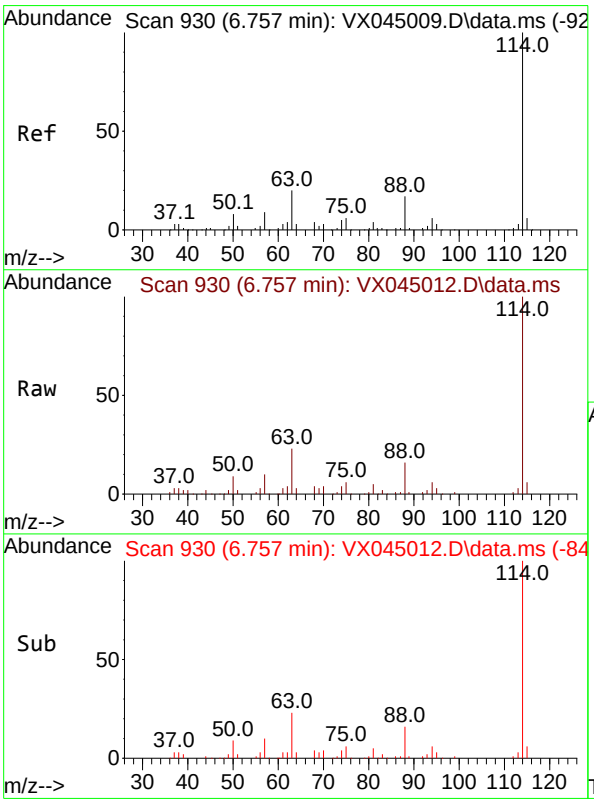
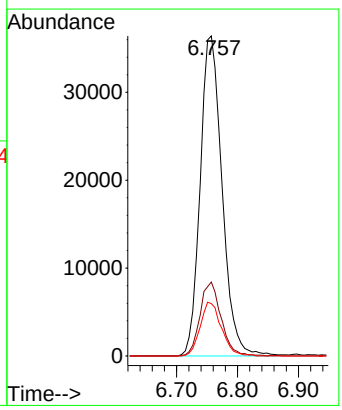
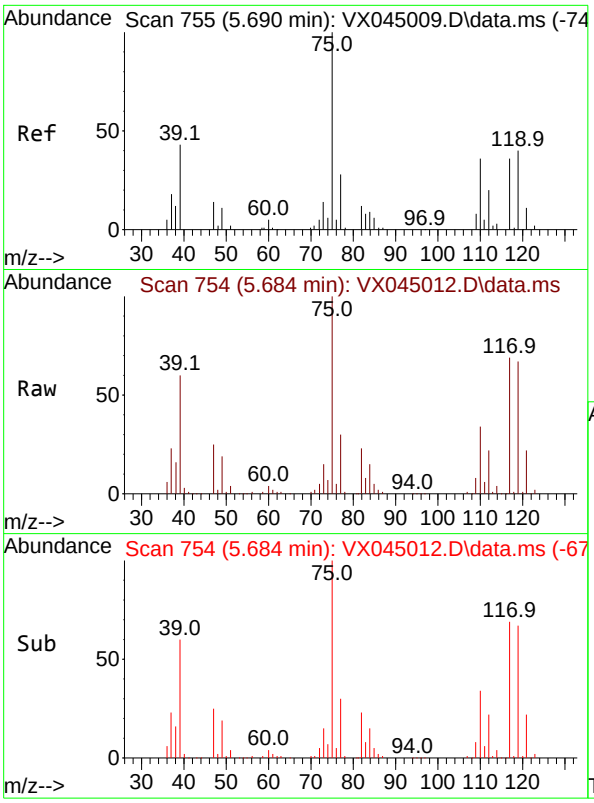


#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion:114 Resp: 91158

Ion	Ratio	Lower	Upper
114	100		
63	22.0	16.8	25.2
88	16.1	12.7	19.1

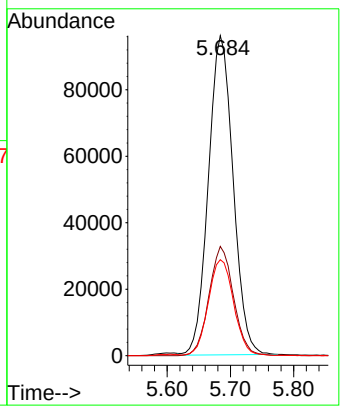




#29
1,1-Dichloropropene
Concen: 155.458 ug/l
RT: 5.684 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion: 75 Resp: 26068

Ion	Ratio	Lower	Upper
75	100		
110	33.9	0.0	69.2
77	30.9	0.0	61.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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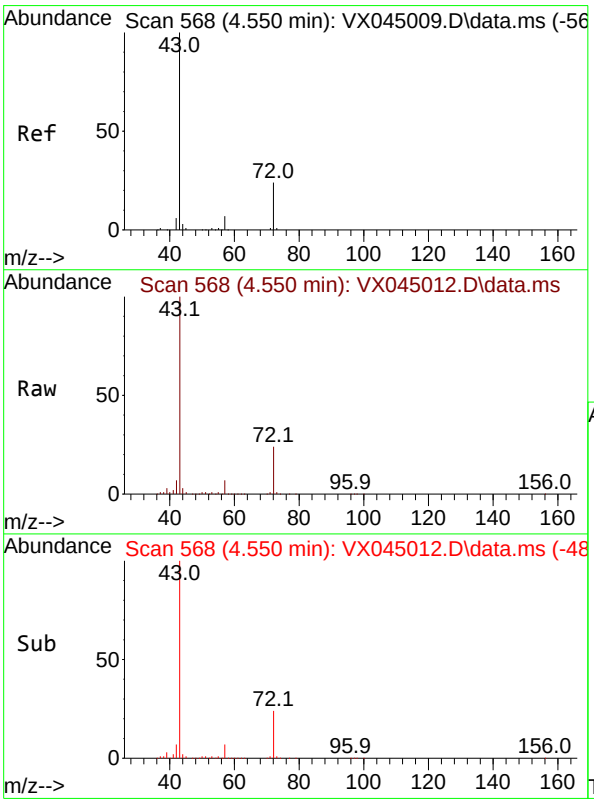
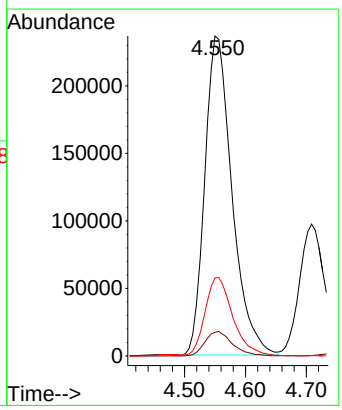
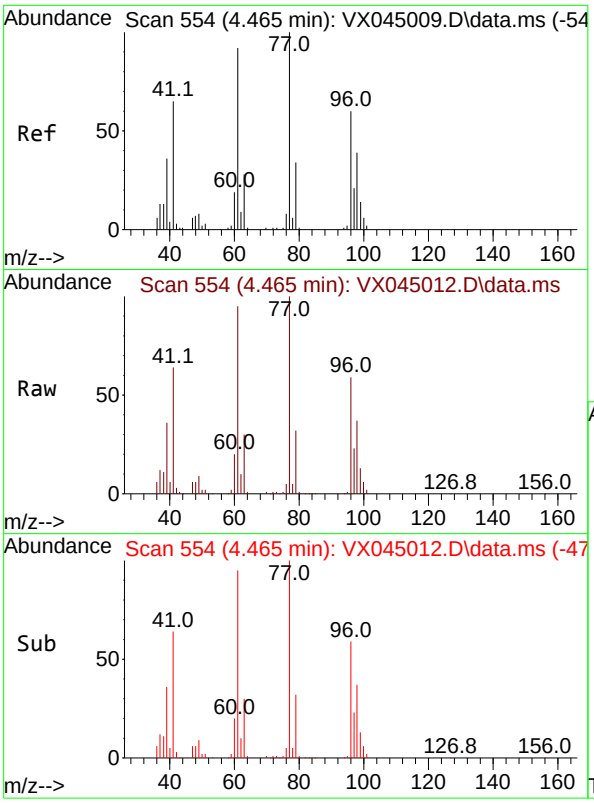


#30
2-Butanone
Concen: 759.373 ug/l
RT: 4.550 min Scan# 568
Delta R.T. -0.000 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion: 43 Resp: 735492

Ion	Ratio	Lower	Upper
43	100		
57	7.7	6.2	9.2
72	25.0	20.2	30.2

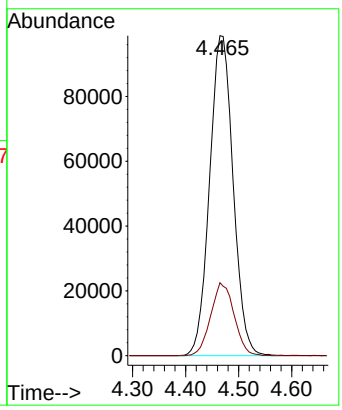




#31
2,2-Dichloropropane
Concen: 160.447 ug/l
RT: 4.465 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion: 77 Resp: 30422

Ion	Ratio	Lower	Upper
77	100		
97	22.7	18.0	27.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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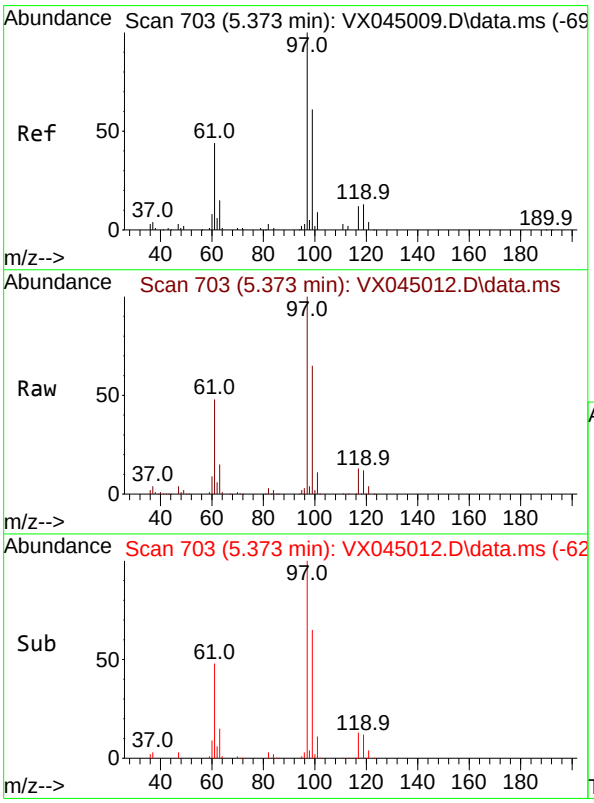
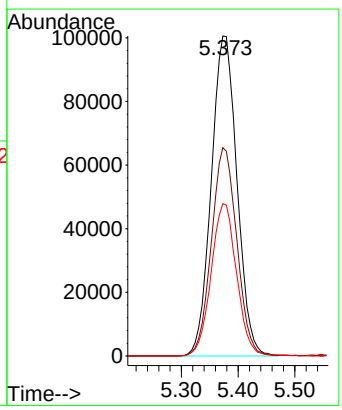
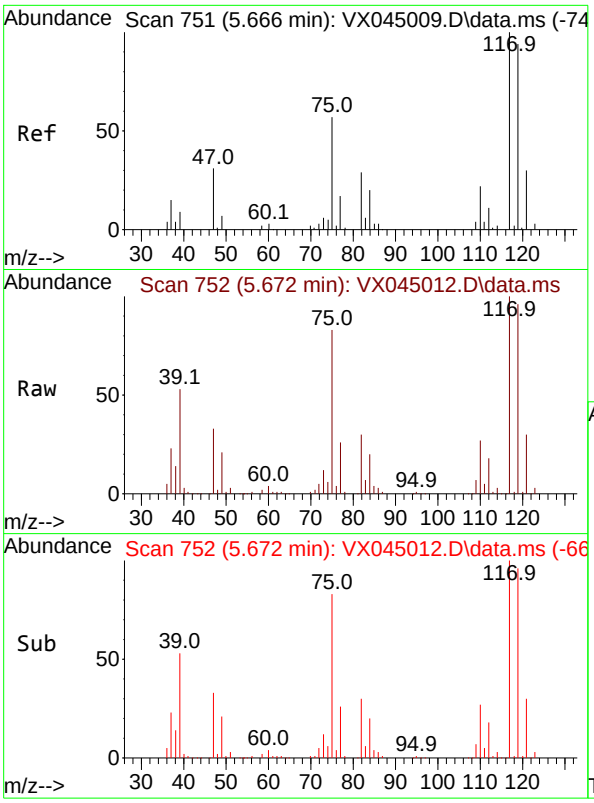


#32
1,1,1-Trichloroethane
Concen: 155.824 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion: 97 Resp: 316595

Ion	Ratio	Lower	Upper
97	100		
99	64.3	52.2	78.2
61	47.2	38.5	57.7

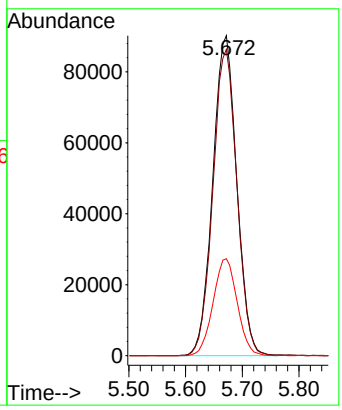




#33
Carbon Tetrachloride
Concen: 154.492 ug/l
RT: 5.672 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion:117 Resp: 26490

Ion	Ratio	Lower	Upper
117	100		
119	95.7	75.1	112.7
121	30.3	23.9	35.9



Instrument :
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ClientSampleId :
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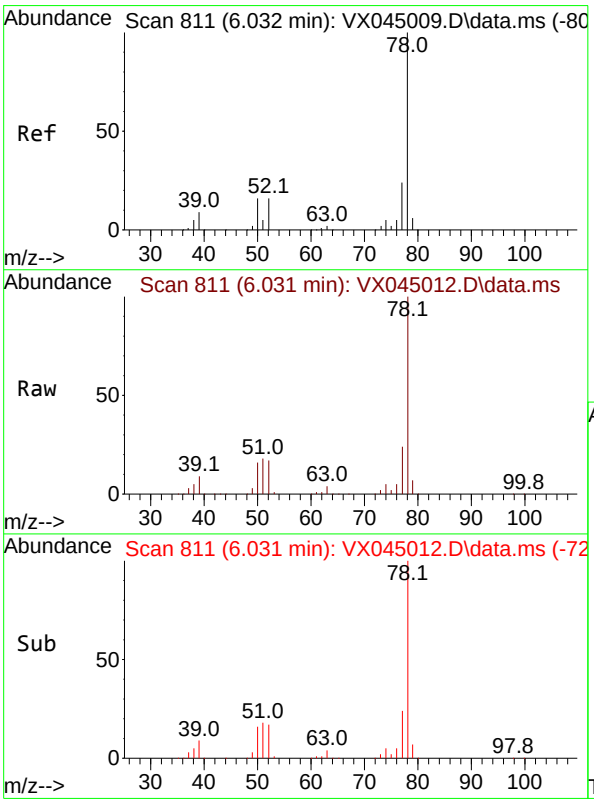
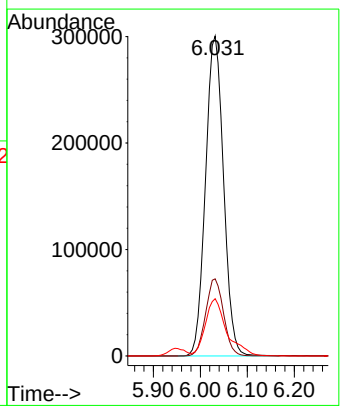
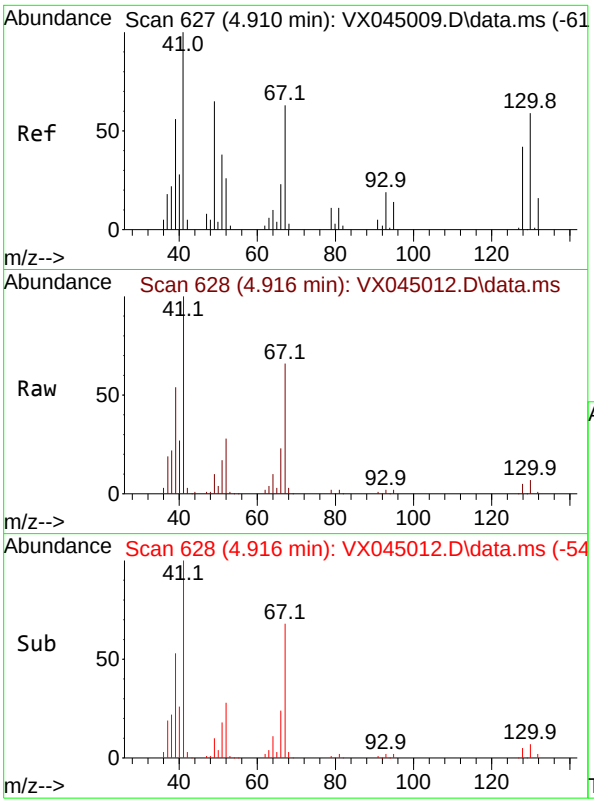


#34
Benzene
Concen: 152.163 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion: 78 Resp: 800159

Ion	Ratio	Lower	Upper
78	100		
77	24.1	19.6	29.4
51	17.8	13.8	20.6

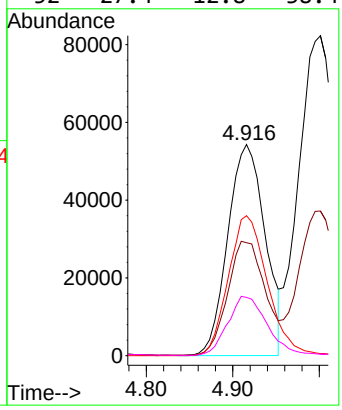




#35
Methacrylonitrile
Concen: 157.037 ug/l
RT: 4.916 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion: 41 Resp: 16276

Ion	Ratio	Lower	Upper
41	100		
39	53.3	27.8	83.4
67	66.4	31.5	94.5
52	27.4	12.8	38.4



Instrument :
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ClientSampleId :
VSTDICC150

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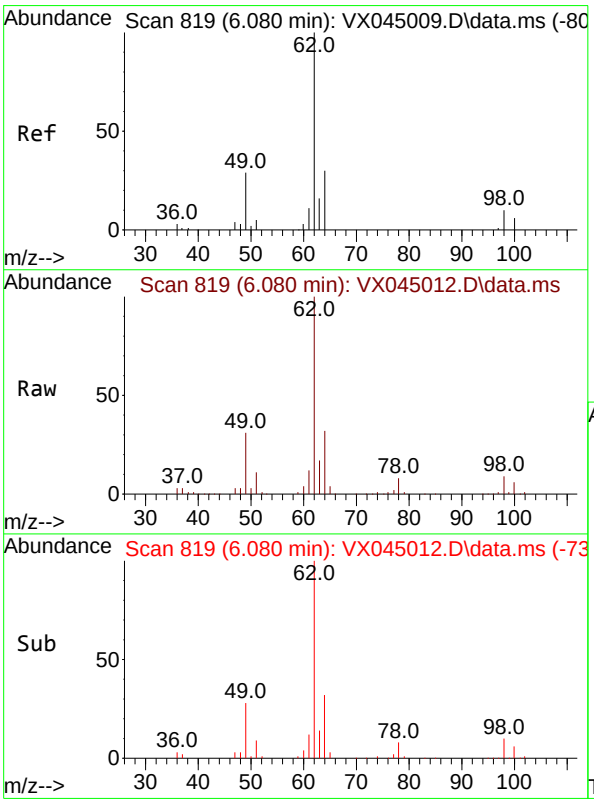
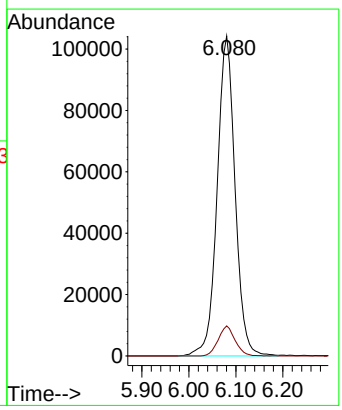
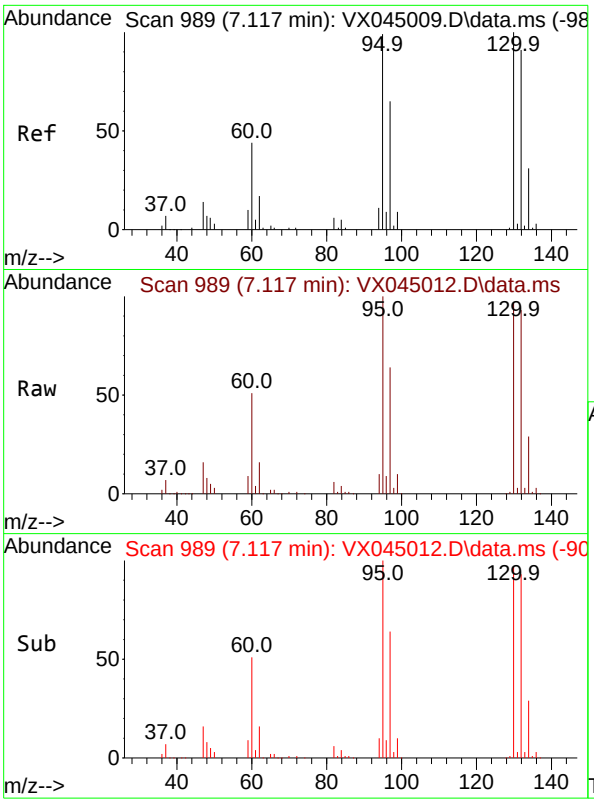


#36
1,2-Dichloroethane
Concen: 153.695 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.000 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion: 62 Resp: 276707

Ion	Ratio	Lower	Upper
62	100		
98	8.9	7.9	11.9

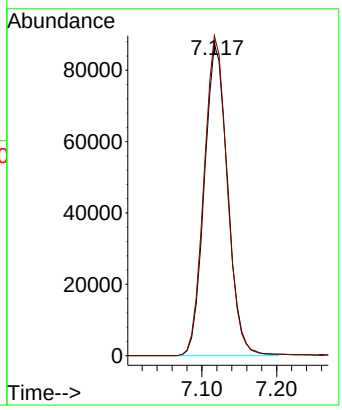




#37
Trichloroethene
Concen: 153.878 ug/l
RT: 7.117 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion:130 Resp: 18930

Ion	Ratio	Lower	Upper
130	100		
95	102.6	79.0	118.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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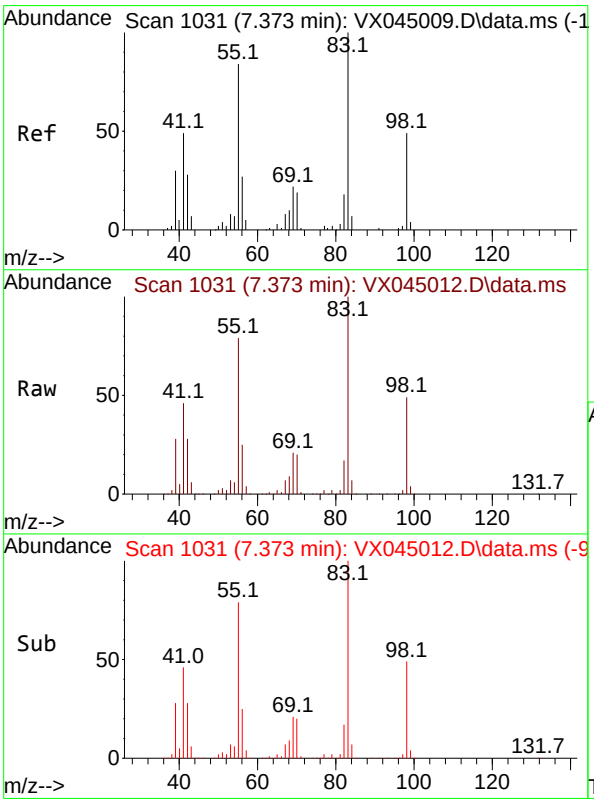
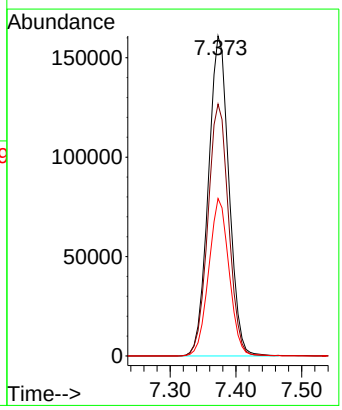
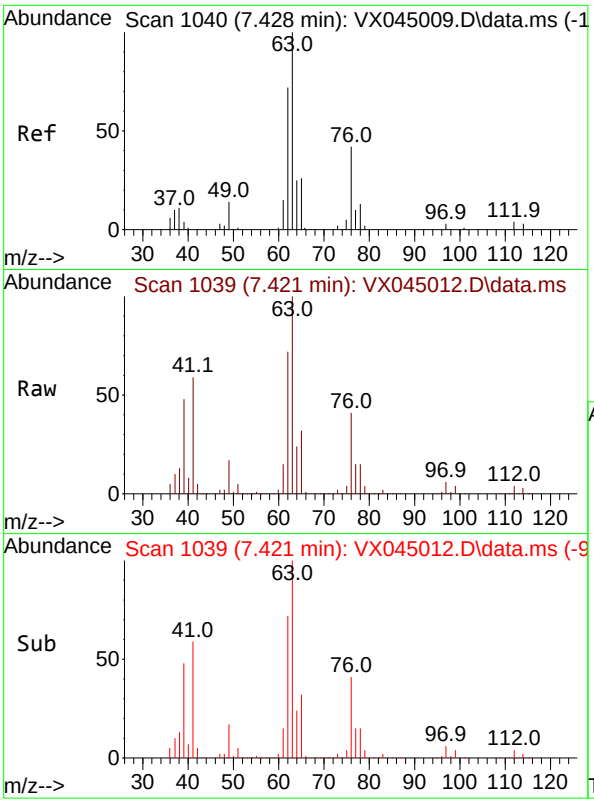


#38
Methylcyclohexane
Concen: 155.851 ug/l
RT: 7.373 min Scan# 1031
Delta R.T. -0.000 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion: 83 Resp: 350907

Ion	Ratio	Lower	Upper
83	100		
55	79.0	40.6	122.0
98	48.7	24.9	74.6

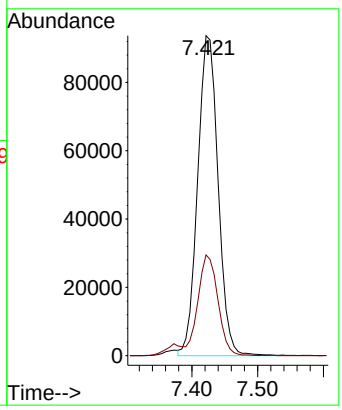




#39
1,2-Dichloropropane
Concen: 154.621 ug/l
RT: 7.421 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion: 63 Resp: 20214

Ion	Ratio	Lower	Upper
63	100		
65	31.6	24.3	36.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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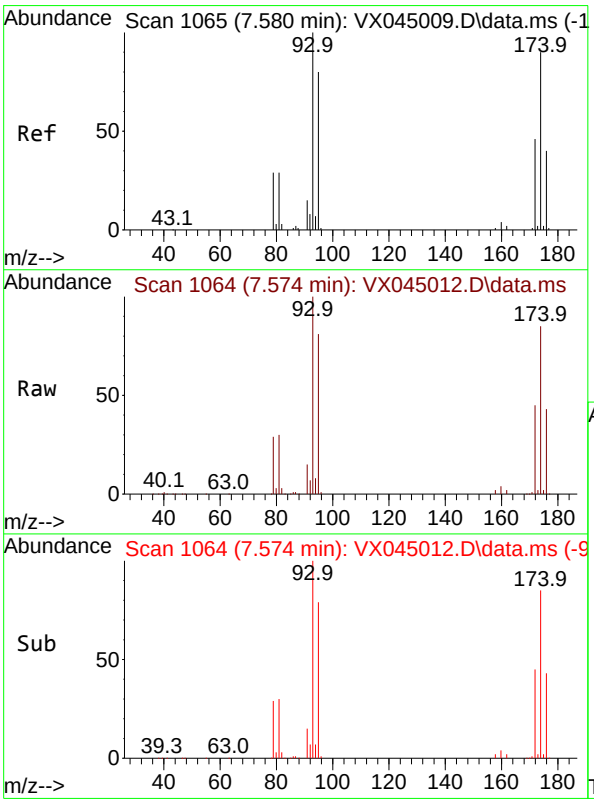
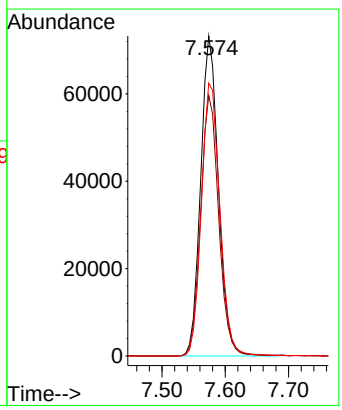
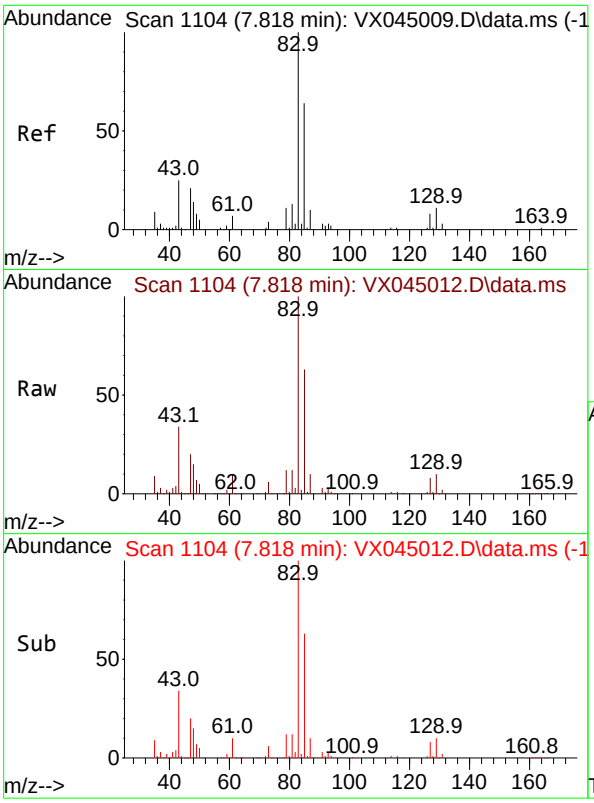


#40
Dibromomethane
Concen: 153.109 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. -0.006 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion: 93 Resp: 143641

Ion	Ratio	Lower	Upper
93	100		
95	82.5	0.0	162.6
174	88.4	0.0	178.8

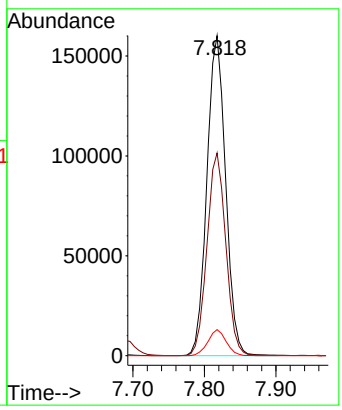




#41
Bromodichloromethane
Concen: 156.122 ug/l
RT: 7.818 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion: 83 Resp: 29110

Ion	Ratio	Lower	Upper
83	100		
85	63.3	51.0	76.6
127	8.2	6.1	9.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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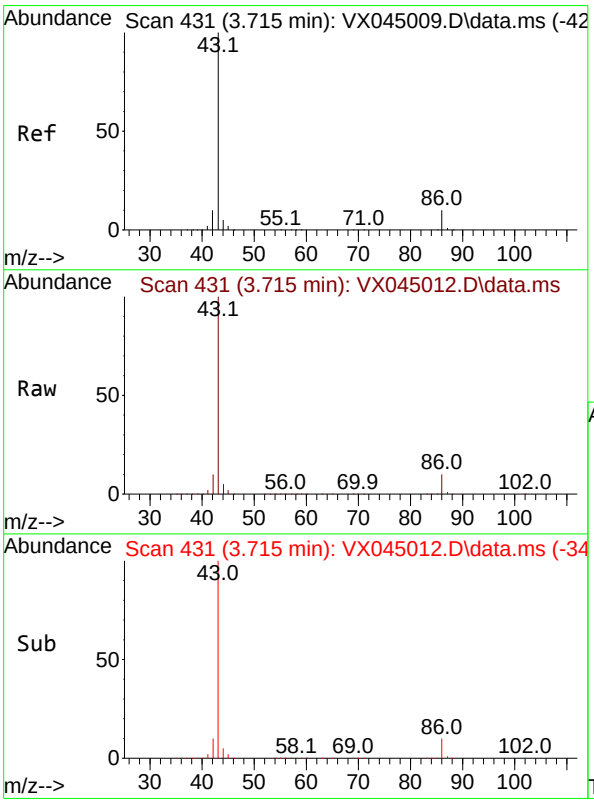
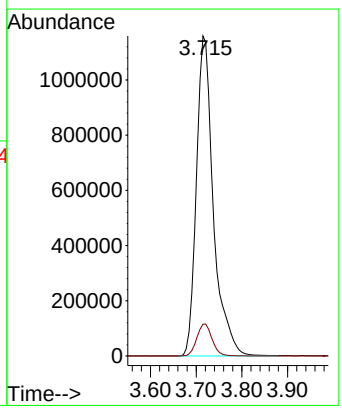
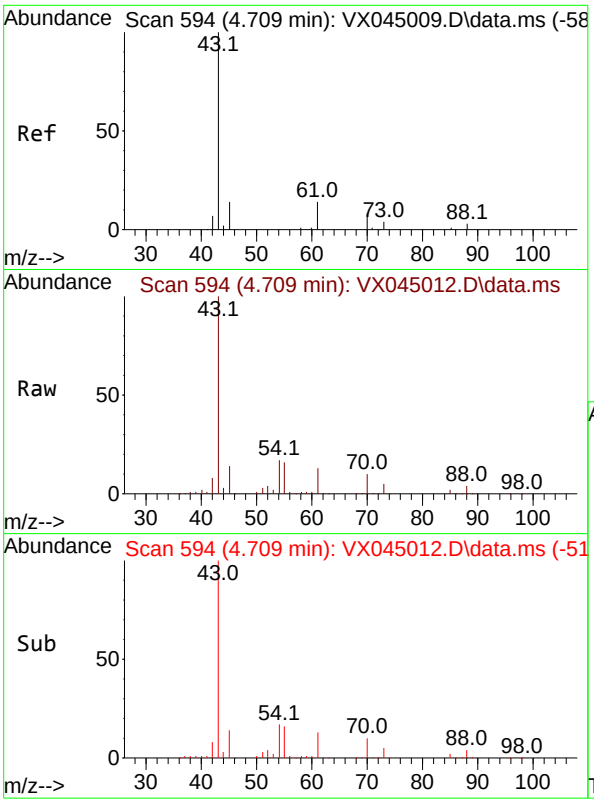


#42
Vinyl Acetate
Concen: 795.020 ug/l
RT: 3.715 min Scan# 431
Delta R.T. -0.000 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion: 43 Resp: 2988086

Ion	Ratio	Lower	Upper
43	100		
86	9.0	7.0	10.4





#43
Ethyl Acetate
Concen: 161.195 ug/l
RT: 4.709 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion: 43 Resp: 29278

Ion	Ratio	Lower	Upper
43	100		
45	14.6	12.7	19.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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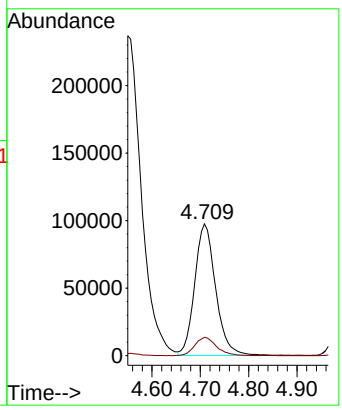
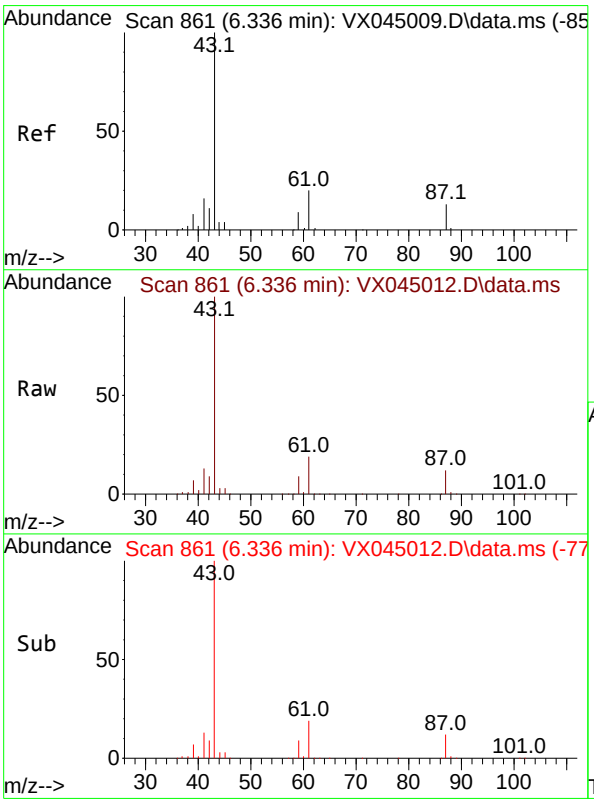
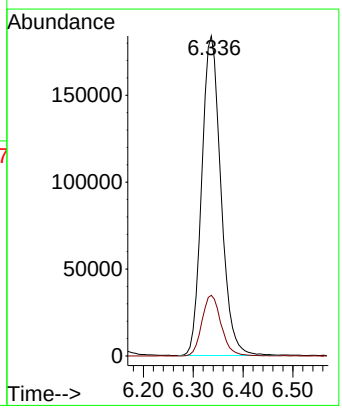


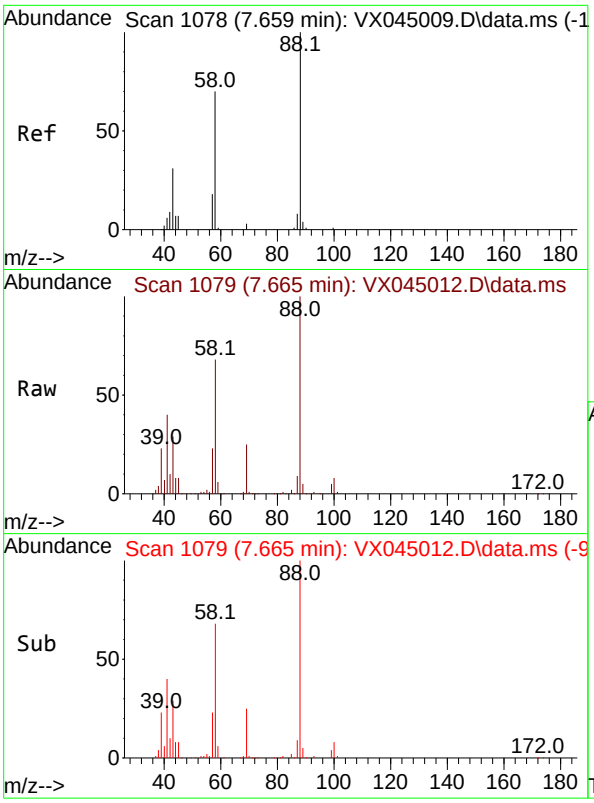


#44
Isopropyl Acetate
Concen: 163.920 ug/l
RT: 6.336 min Scan# 861
Delta R.T. -0.000 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion: 43 Resp: 490033

Ion	Ratio	Lower	Upper
43	100		
61	19.1	15.5	23.3

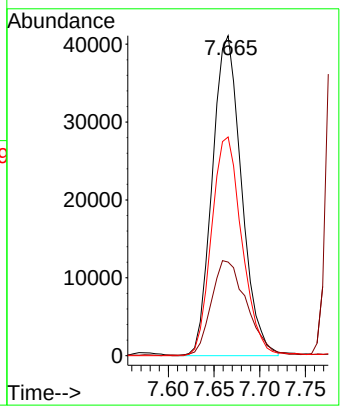




#45
1,4-Dioxane
Concen: 2937.775 ug/l
RT: 7.665 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion: 88 Resp: 9129

Ion	Ratio	Lower	Upper
88	100		
43	35.3	29.6	44.4
58	71.1	56.2	84.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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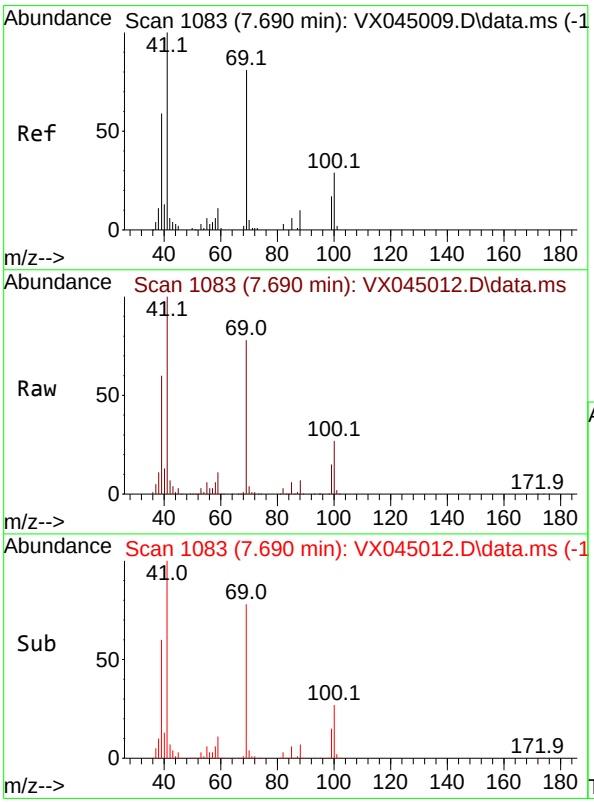
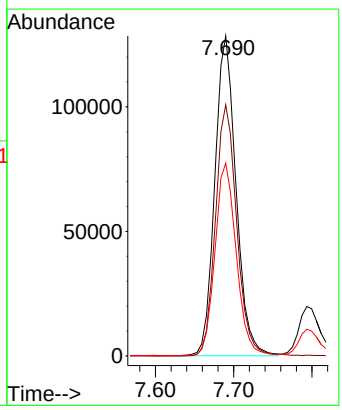
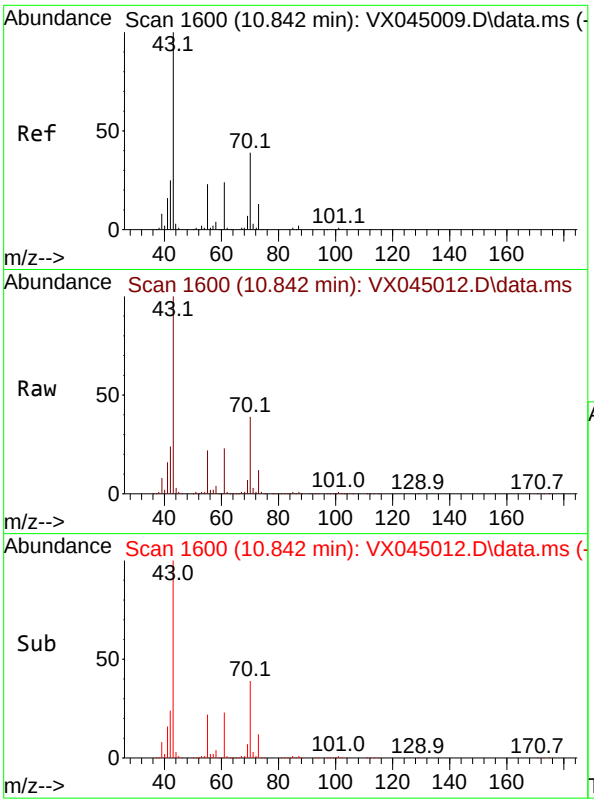


#46
Methyl methacrylate
Concen: 164.798 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. -0.000 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion: 41 Resp: 241575

Ion	Ratio	Lower	Upper
41	100		
69	78.5	40.7	122.1
39	60.2	29.5	88.5

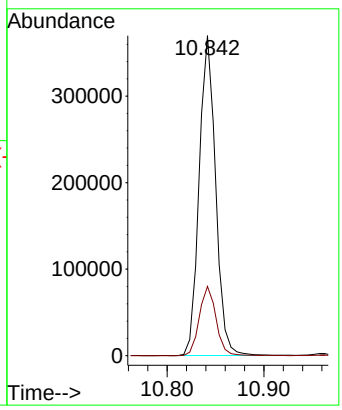




#47
n-amyl Acetate
Concen: 168.943 ug/l
RT: 10.842 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion: 43 Resp: 43826

Ion	Ratio	Lower	Upper
43	100		
55	22.0	18.6	27.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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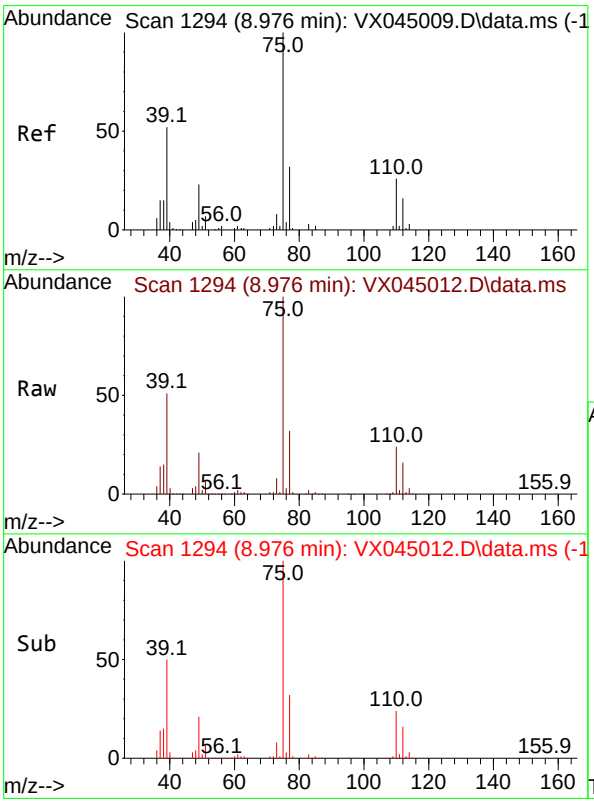
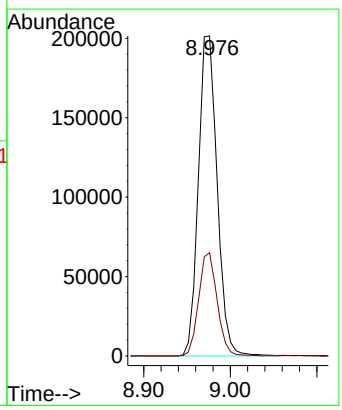
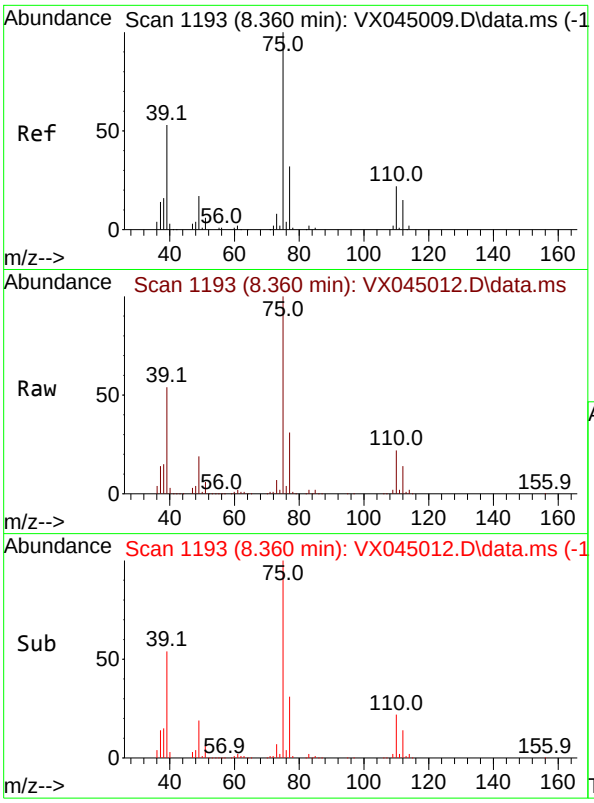


#48
t-1,3-Dichloropropene
Concen: 169.001 ug/l
RT: 8.976 min Scan# 1294
Delta R.T. -0.000 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion: 75 Resp: 303740

Ion	Ratio	Lower	Upper
75	100		
77	32.3	25.7	38.5

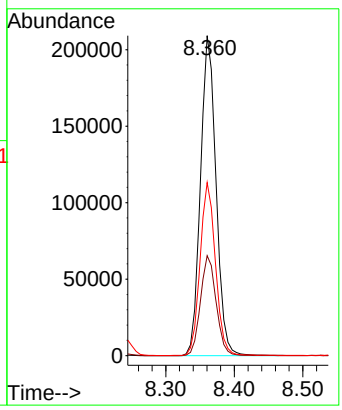




#49
cis-1,3-Dichloropropene
Concen: 162.750 ug/l
RT: 8.360 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion: 75 Resp: 33111

Ion	Ratio	Lower	Upper
75	100		
77	31.3	25.9	38.9
39	54.0	42.3	63.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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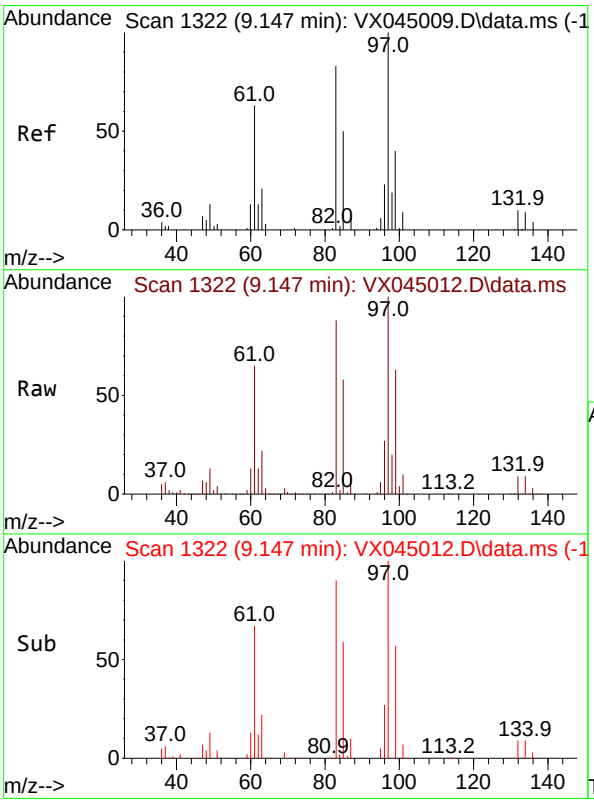
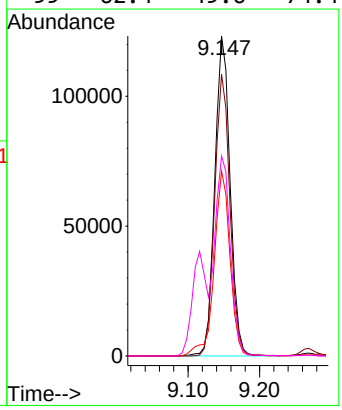
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

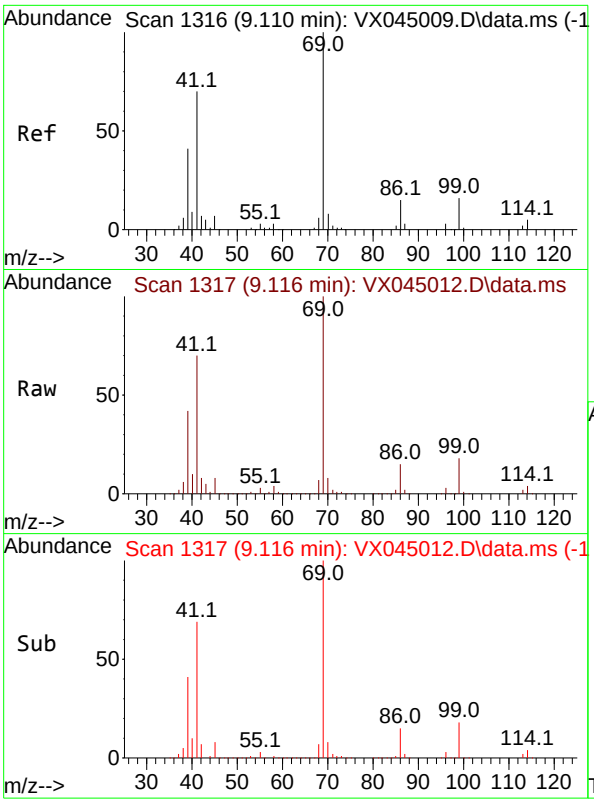


#50
1,1,2-Trichloroethane
Concen: 149.917 ug/l
RT: 9.147 min Scan# 1322
Delta R.T. -0.000 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion: 97 Resp: 183455

Ion	Ratio	Lower	Upper
97	100		
83	88.1	66.0	99.0
85	57.8	42.5	63.7
99	62.4	49.6	74.4

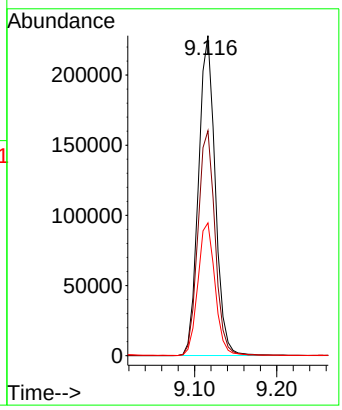




#51
Ethyl methacrylate
Concen: 167.857 ug/l
RT: 9.116 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion: 69 Resp: 32305

Ion	Ratio	Lower	Upper
69	100		
41	70.2	35.1	105.3
39	41.5	20.5	61.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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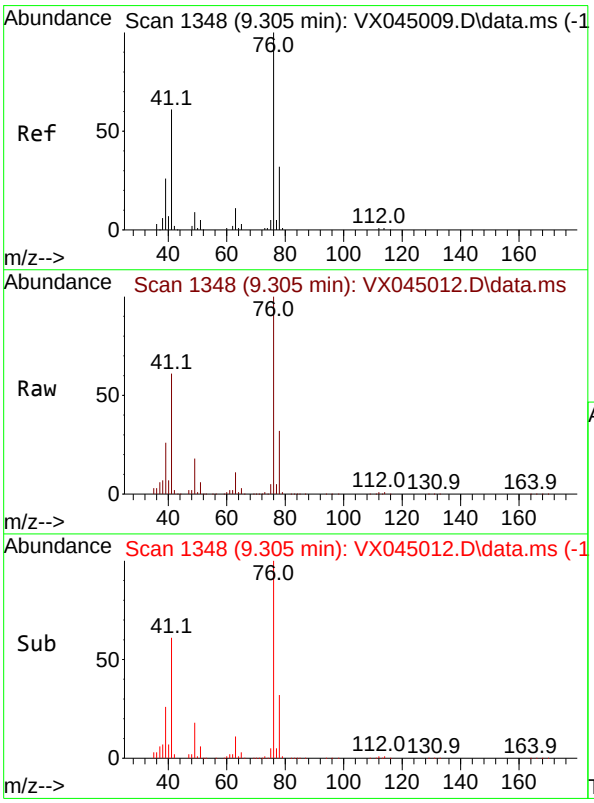
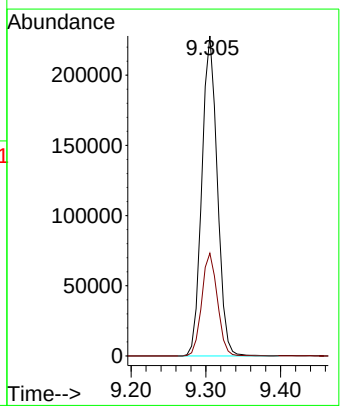
Supervised By :Mahesh Dadoda 02/24/2025

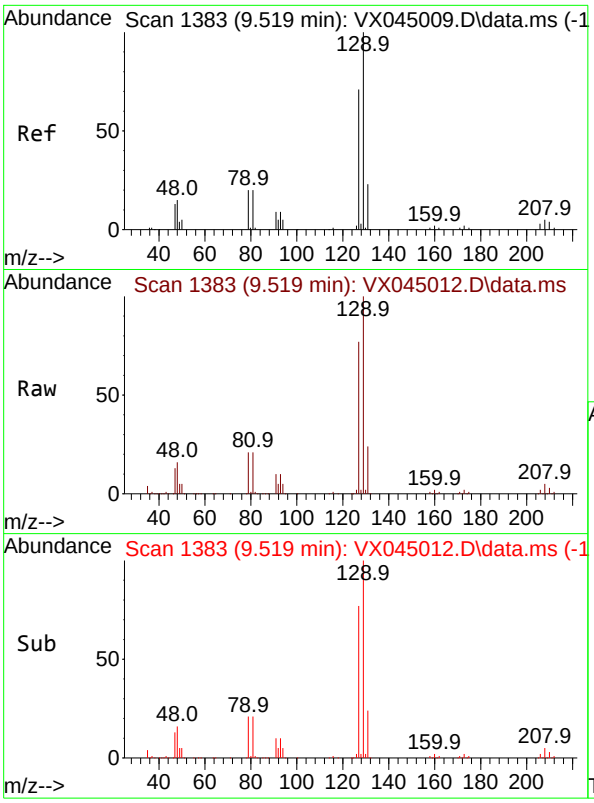


#52
1,3-Dichloropropane
Concen: 152.762 ug/l
RT: 9.305 min Scan# 1348
Delta R.T. -0.000 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion: 76 Resp: 327551

Ion	Ratio	Lower	Upper
76	100		
78	32.4	0.0	63.6





#53
Dibromochloromethane
Concen: 157.620 ug/l
RT: 9.519 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion:129 Resp: 21332

Ion	Ratio	Lower	Upper
129	100		
127	77.2	37.3	111.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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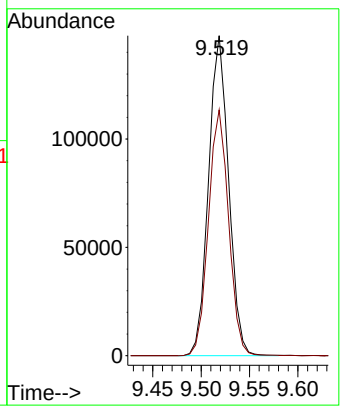
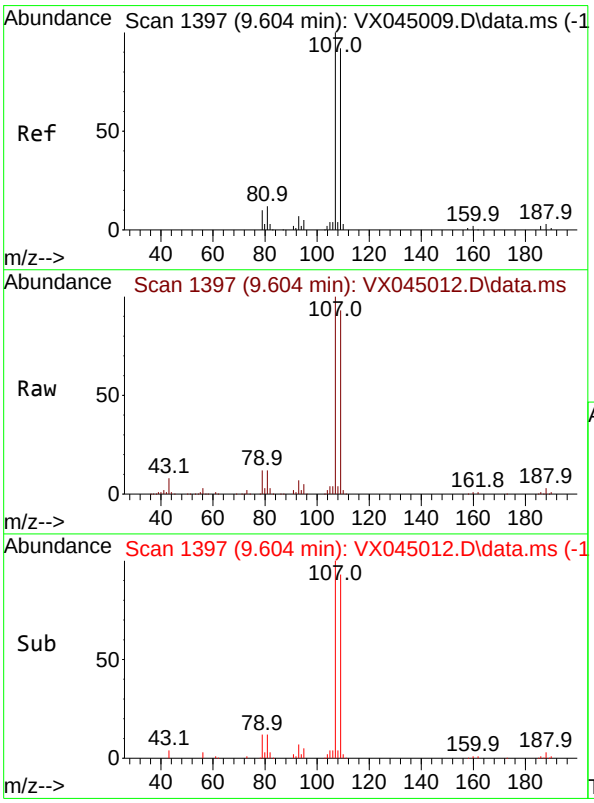
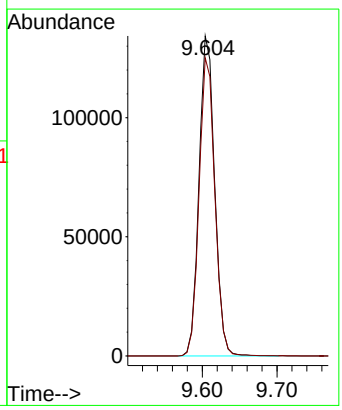


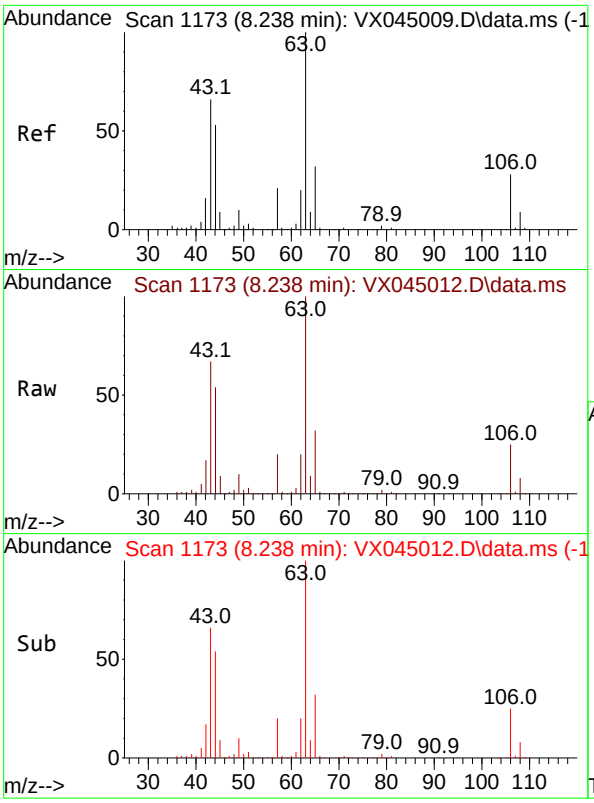


#54
1,2-Dibromoethane
Concen: 156.632 ug/l
RT: 9.604 min Scan# 1397
Delta R.T. -0.000 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion:107 Resp: 194634

Ion	Ratio	Lower	Upper
107	100		
109	94.0	75.8	113.8

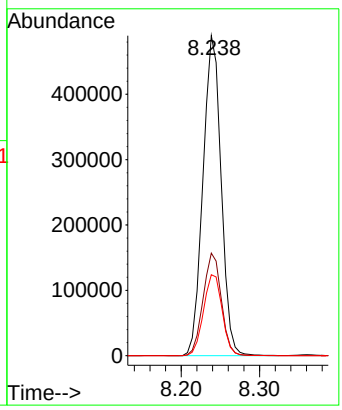




#55
2-Chloroethyl vinyl ether
Concen: 798.256 ug/l
RT: 8.238 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion: 63 Resp: 78893

Ion	Ratio	Lower	Upper
63	100		
65	32.1	26.2	39.2
106	26.0	21.2	31.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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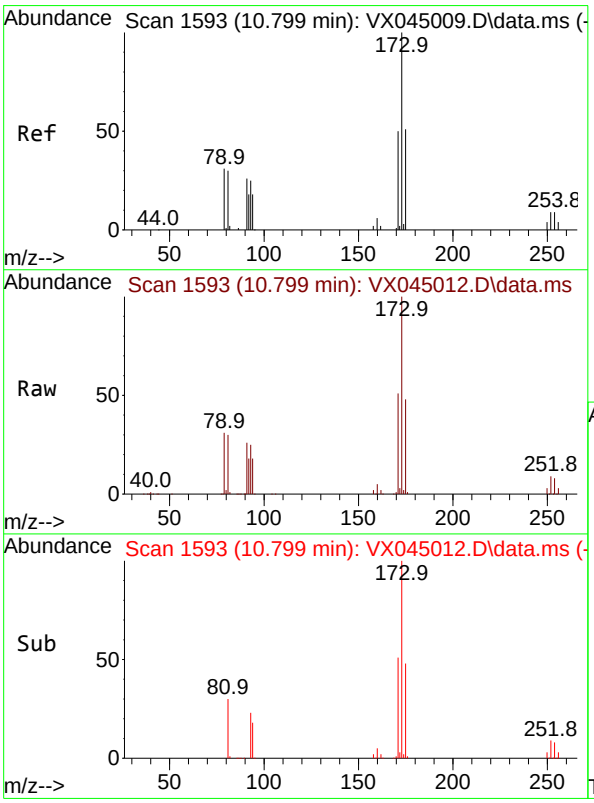
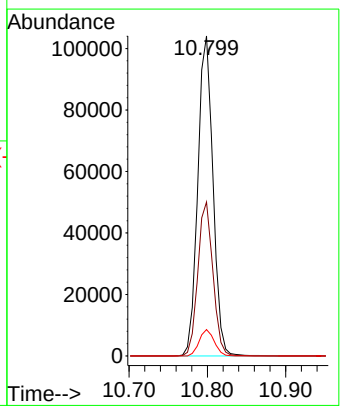
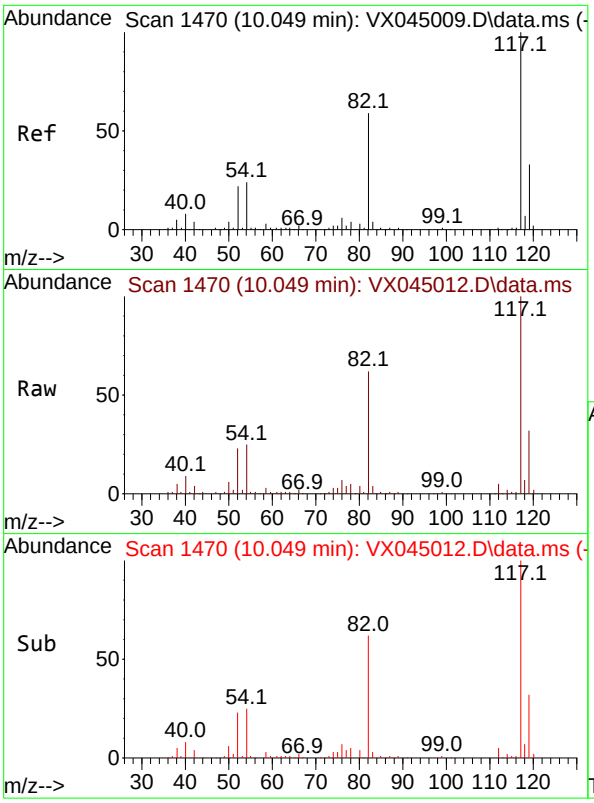


#56
Bromoform
Concen: 165.340 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. -0.000 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion:173 Resp: 140224

Ion	Ratio	Lower	Upper
173	100		
175	47.7	39.6	59.4
254	8.2	6.3	9.5





#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion:117 Resp: 8170

Ion	Ratio	Lower	Upper
117	100		
82	59.0	45.8	68.8
119	31.7	25.5	38.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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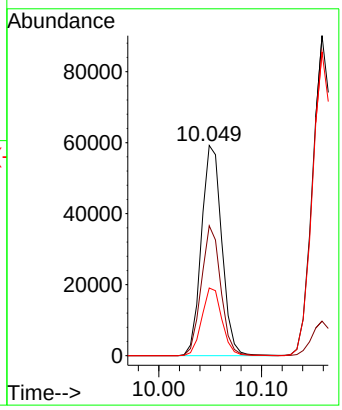
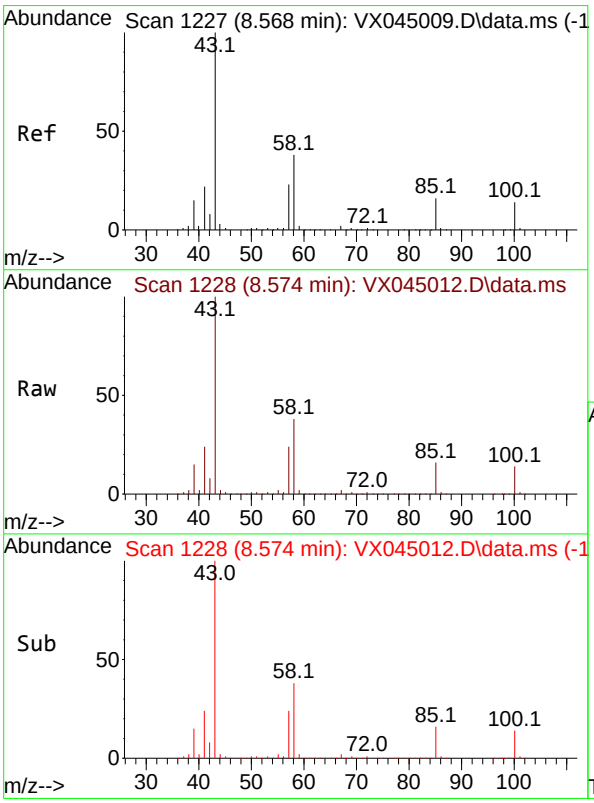
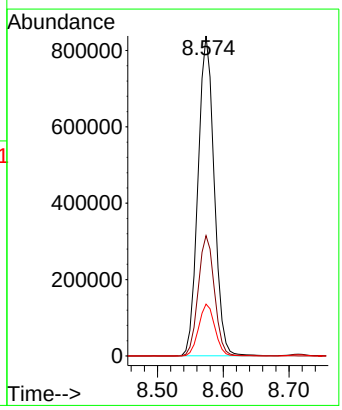


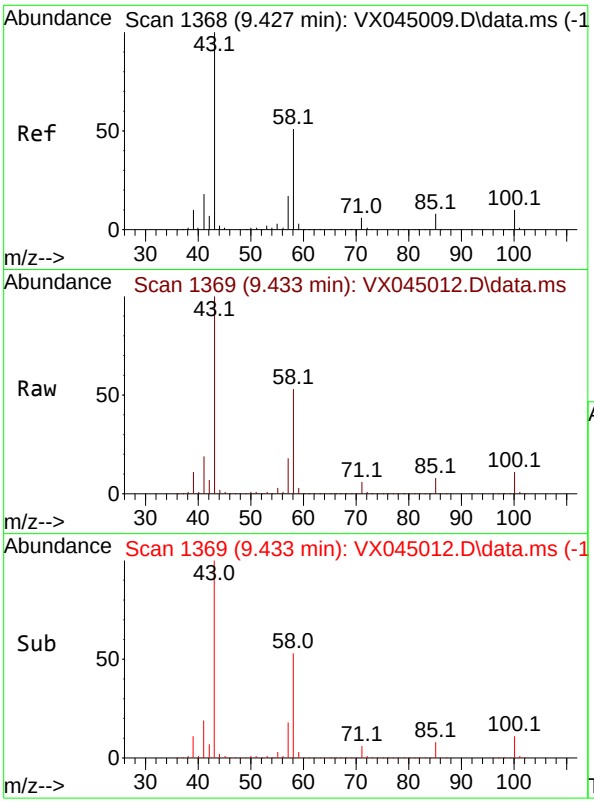


#58
4-Methyl-2-Pentanone
Concen: 770.025 ug/l
RT: 8.574 min Scan# 1228
Delta R.T. 0.006 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion: 43 Resp: 1431130

Ion	Ratio	Lower	Upper
43	100		
58	37.6	29.5	44.3
85	16.3	12.9	19.3





#59
2-Hexanone
Concen: 784.964 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion: 43 Resp: 105450

Ion	Ratio	Lower	Upper
43	100		
58	52.4	41.6	62.4
57	18.0	13.8	20.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
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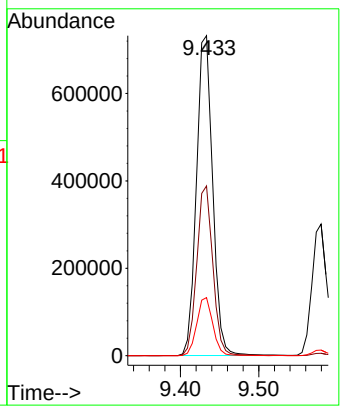
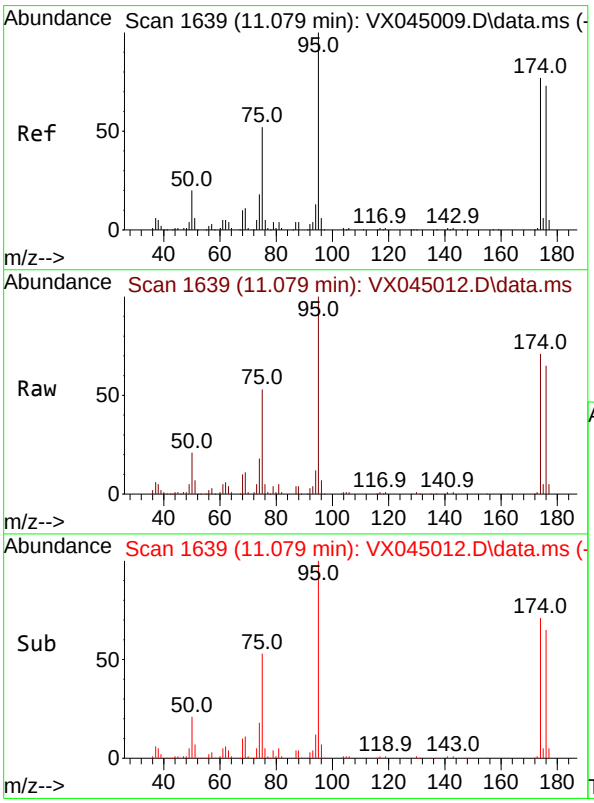
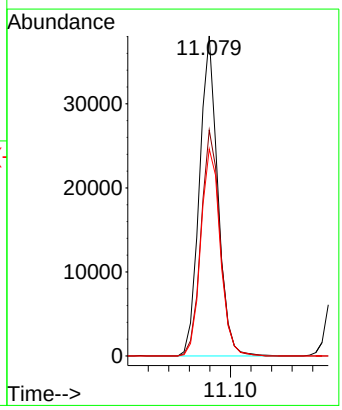


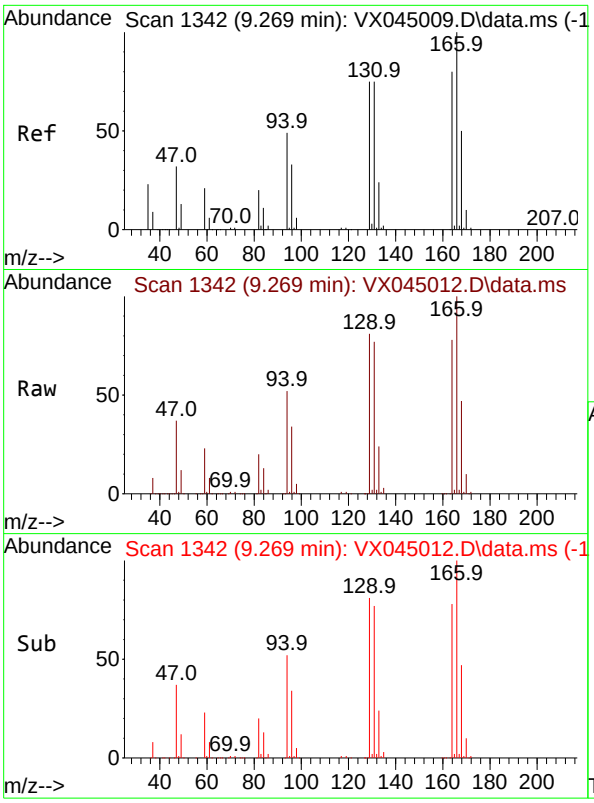


#60
4-Bromofluorobenzene
Concen: 30.907 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion: 95 Resp: 47199

Ion	Ratio	Lower	Upper
95	100		
174	73.3	59.5	89.3
176	68.6	55.5	83.3

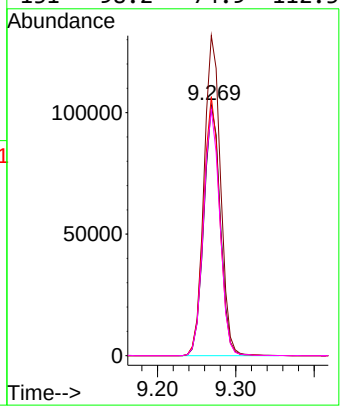




#61
Tetrachloroethene
Concen: 148.903 ug/l
RT: 9.269 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion:164 Resp: 14980

Ion	Ratio	Lower	Upper
164	100		
166	127.7	100.3	150.5
129	103.4	75.5	113.3
131	98.2	74.9	112.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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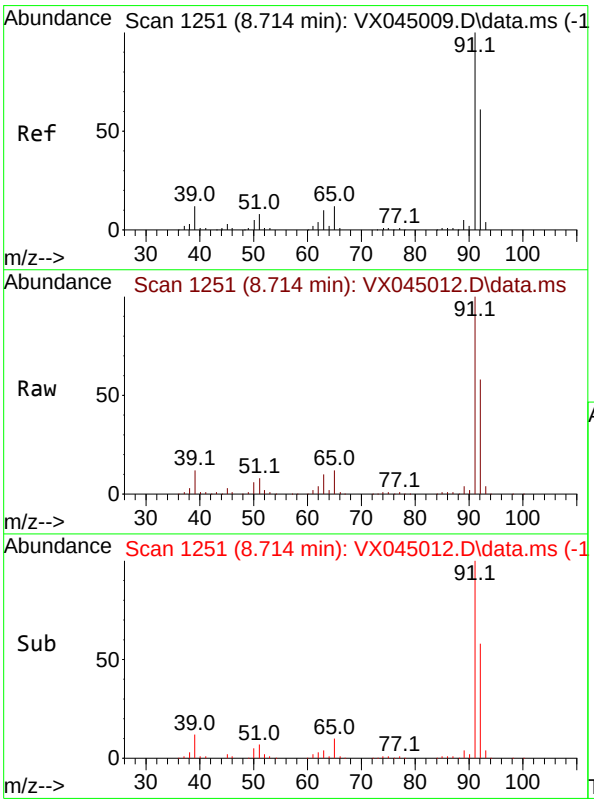
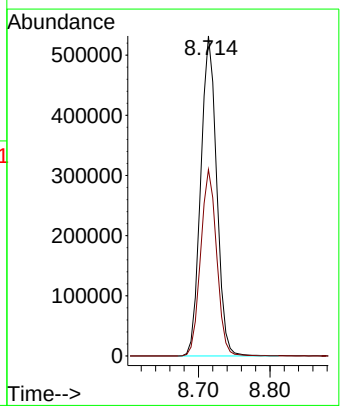
Supervised By :Mahesh Dadoda 02/24/2025

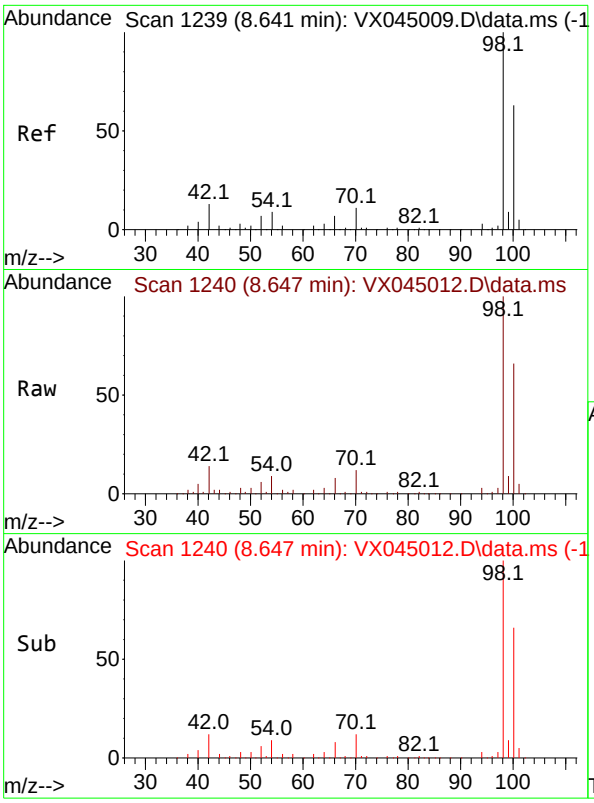


#62
Toluene
Concen: 152.359 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion: 91 Resp: 824606

Ion	Ratio	Lower	Upper
91	100		
92	58.3	46.9	70.3





#63
Toluene-d8
Concen: 29.835 ug/l
RT: 8.647 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion: 98 Resp: 13485

Ion	Ratio	Lower	Upper
98	100		
100	65.2	51.7	77.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
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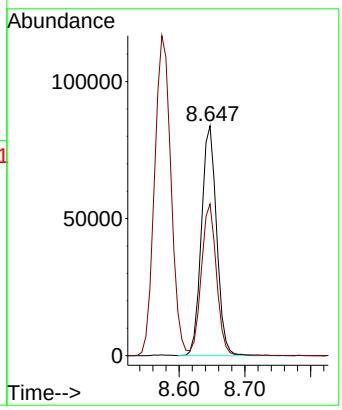
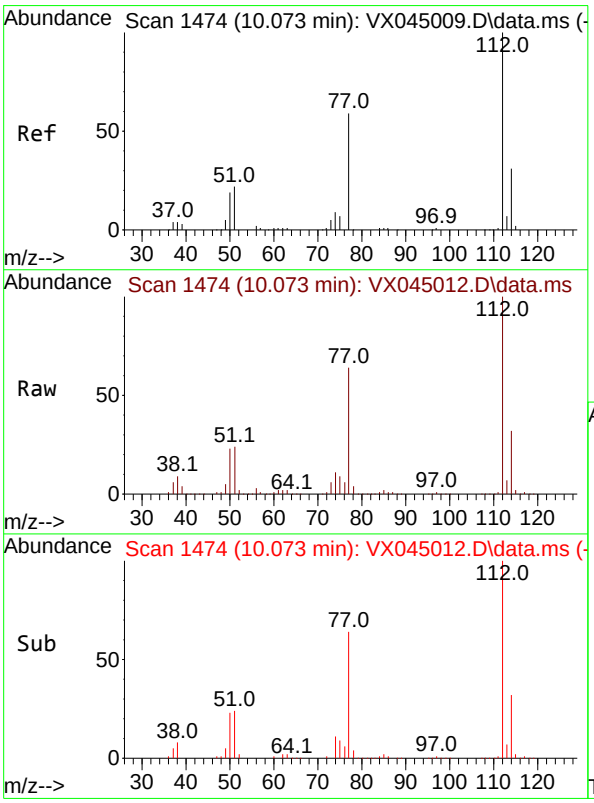
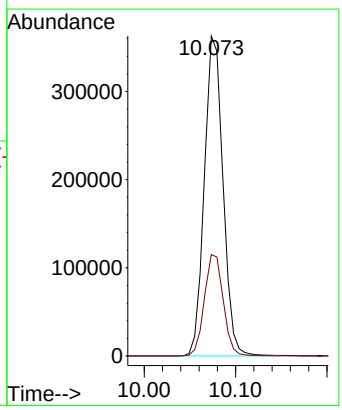


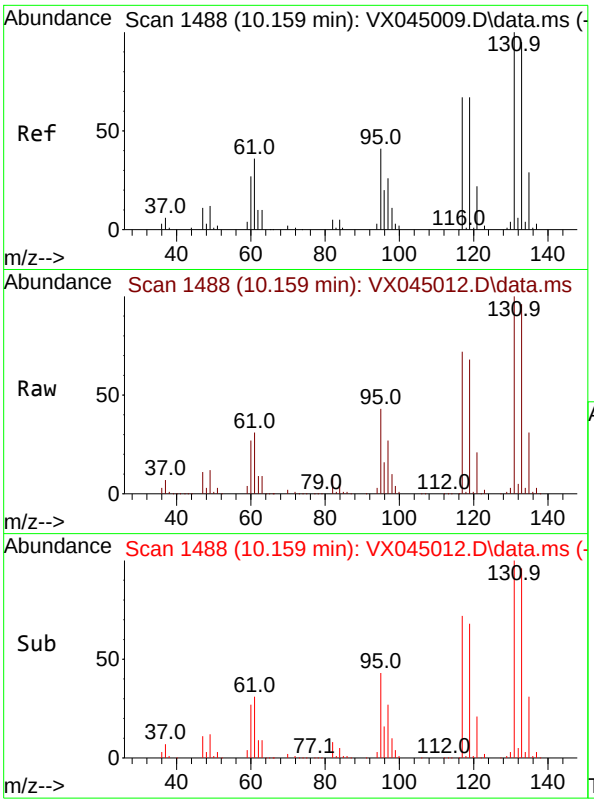


#64
Chlorobenzene
Concen: 153.126 ug/l
RT: 10.073 min Scan# 1474
Delta R.T. -0.000 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion:112 Resp: 513552

Ion	Ratio	Lower	Upper
112	100		
114	31.7	24.7	37.1

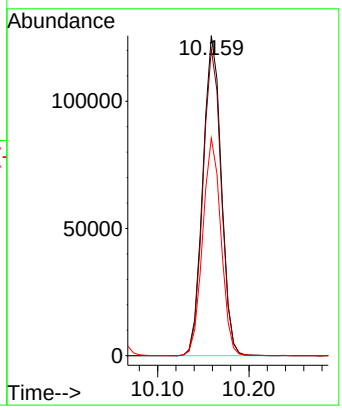




#65
1,1,1,2-Tetrachloroethane
Concen: 158.260 ug/l
RT: 10.159 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion:131 Resp: 175139

Ion	Ratio	Lower	Upper
131	100		
133	95.6	0.0	187.8
119	67.4	0.0	133.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
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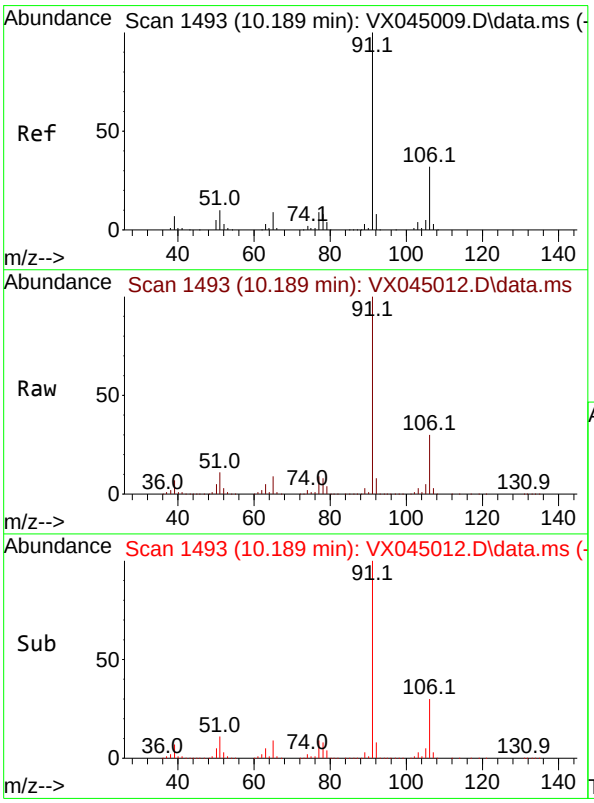
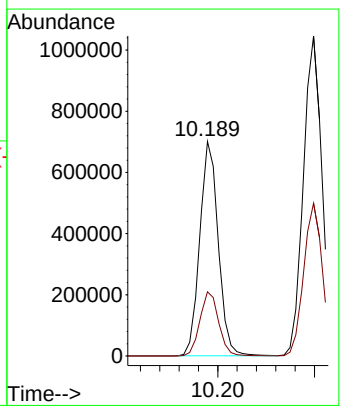
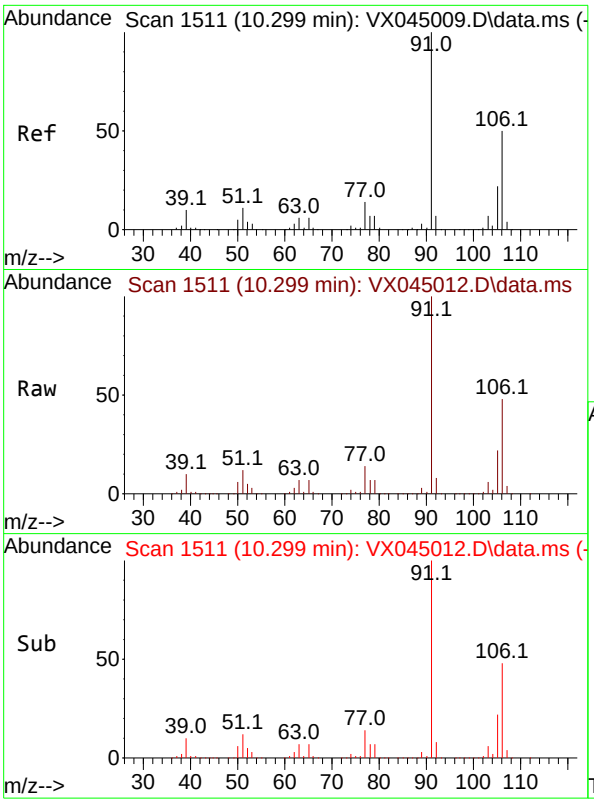


#66
Ethyl Benzene
Concen: 157.604 ug/l
RT: 10.189 min Scan# 1493
Delta R.T. -0.000 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion: 91 Resp: 933862

Ion	Ratio	Lower	Upper
91	100		
106	29.9	25.4	38.2

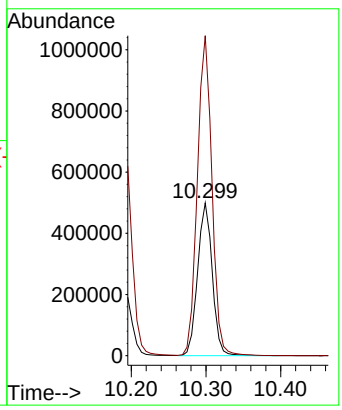




#67
m/p-Xylenes
Concen: 307.573 ug/l
RT: 10.299 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion:106 Resp: 67902

Ion	Ratio	Lower	Upper
106	100		
91	208.5	163.7	245.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
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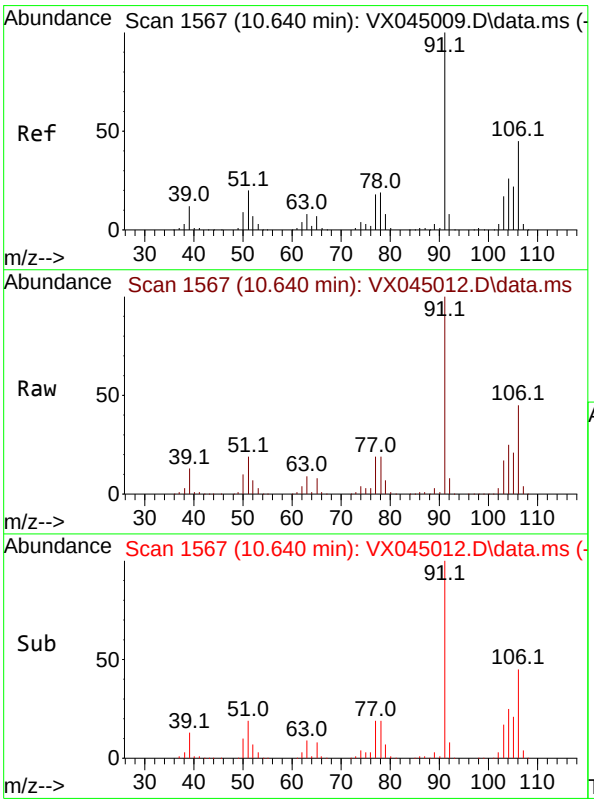
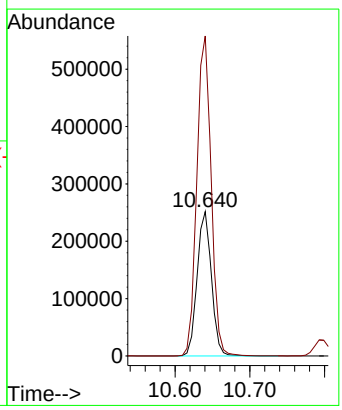
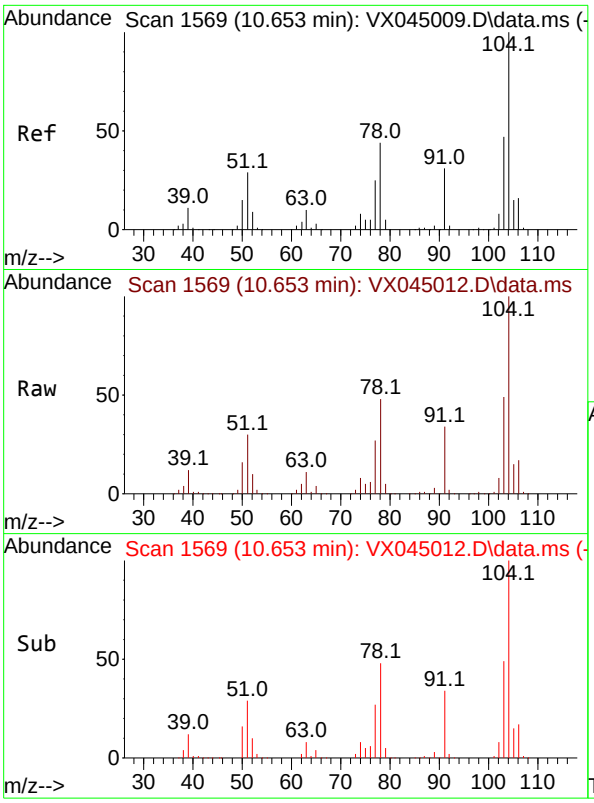


#68
o-Xylene
Concen: 153.922 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion:106 Resp: 333410

Ion	Ratio	Lower	Upper
106	100		
91	222.3	109.7	329.1





#69
Styrene
Concen: 156.470 ug/l
RT: 10.653 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion:104 Resp: 56607

Ion	Ratio	Lower	Upper
104	100		
78	54.2	41.4	62.0
103	54.8	43.0	64.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
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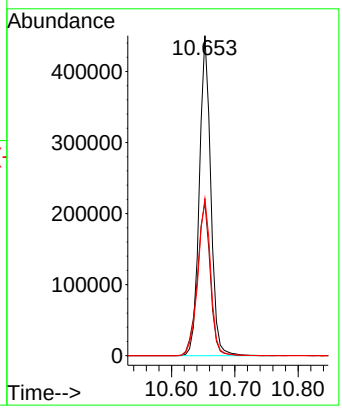
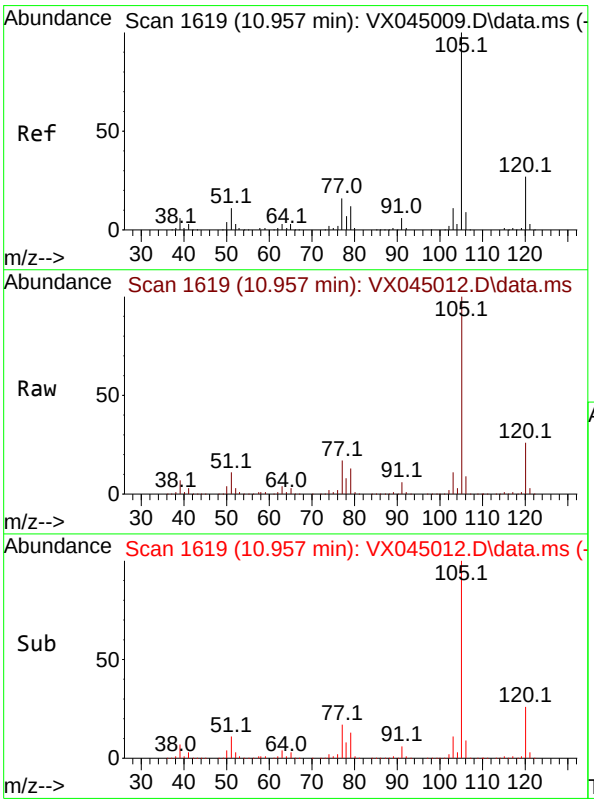
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

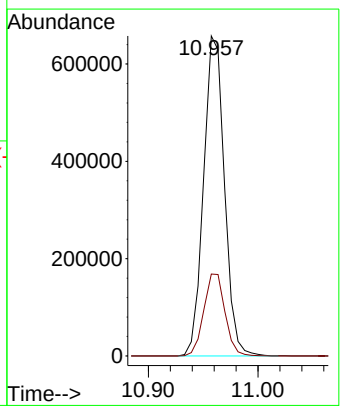


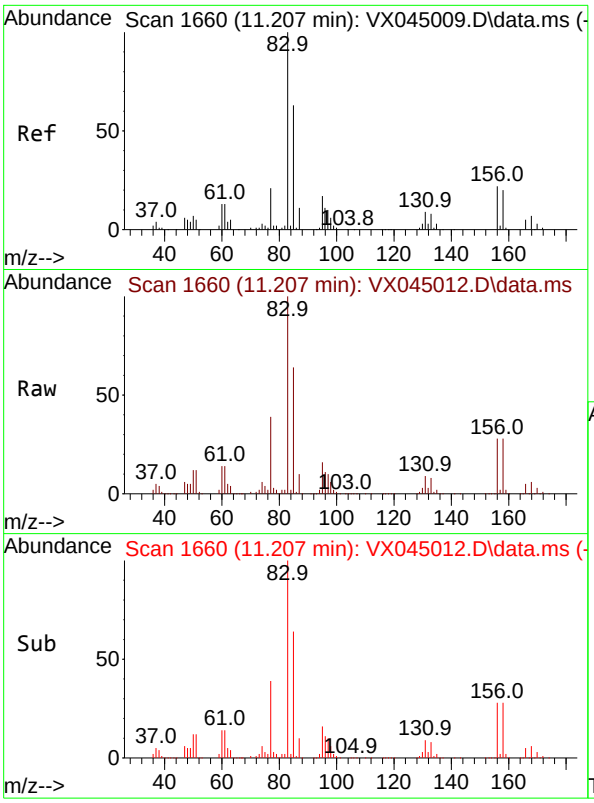


#70
Isopropylbenzene
Concen: 155.350 ug/l
RT: 10.957 min Scan# 1619
Delta R.T. -0.000 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion:105 Resp: 868382

Ion	Ratio	Lower	Upper
105	100		
120	26.1	18.4	34.2





#71
1,1,2,2-Tetrachloroethane
Concen: 154.359 ug/l
RT: 11.207 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion: 83 Resp: 28373

Ion	Ratio	Lower	Upper
83	100		
131	9.2	4.8	14.3
85	64.2	32.3	96.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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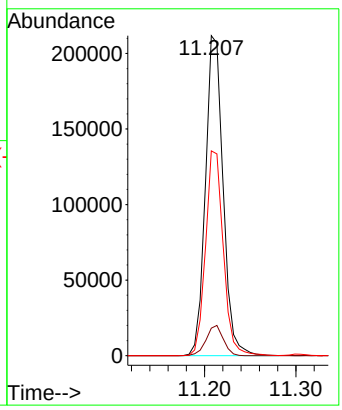
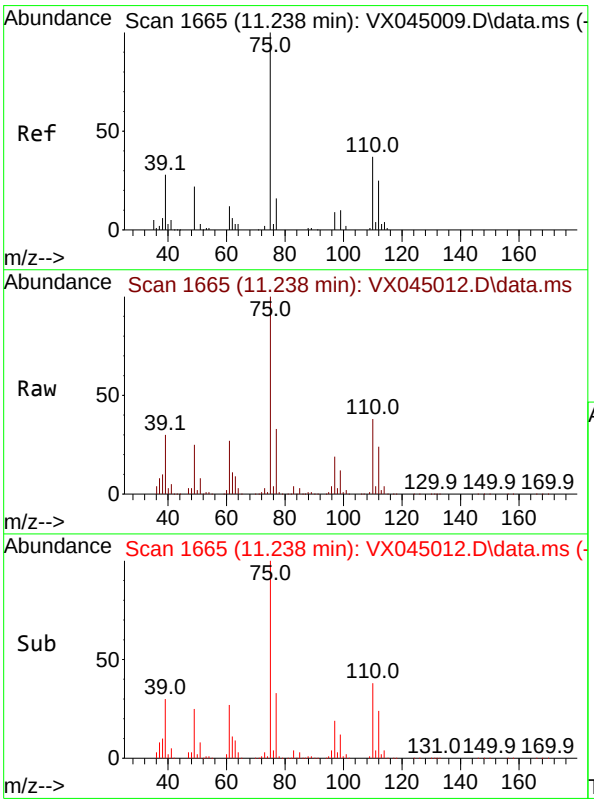
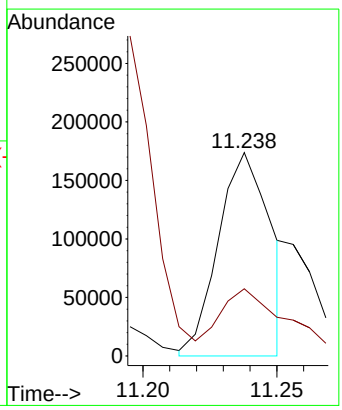


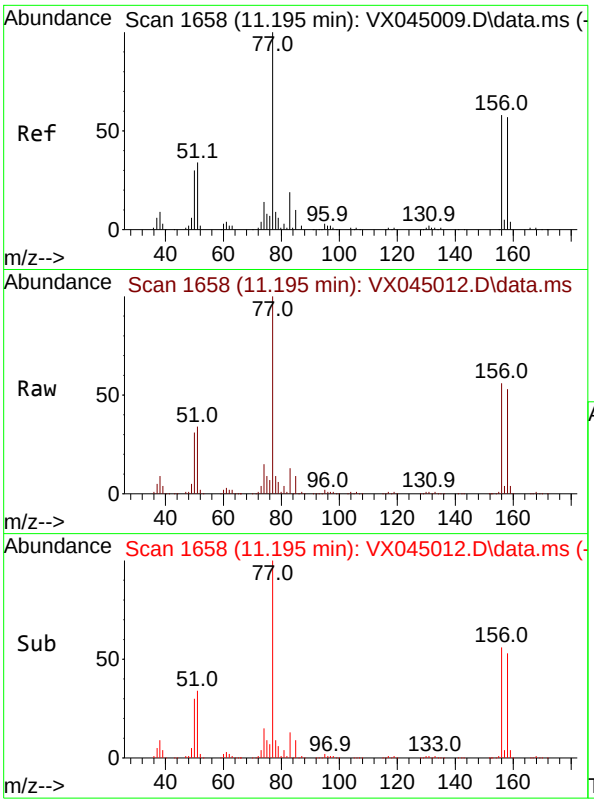


#72
1,2,3-Trichloropropane
Concen: 155.182 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion: 75 Resp: 234613

Ion	Ratio	Lower	Upper
75	100		
77	43.4	0.0	84.0

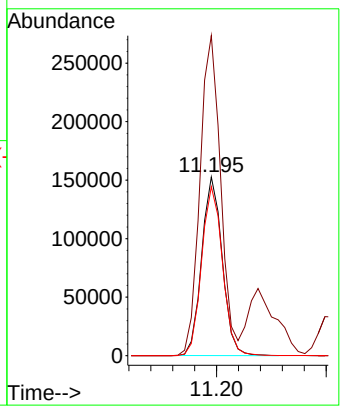




#73
Bromobenzene
Concen: 154.147 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion:156 Resp: 19836

Ion	Ratio	Lower	Upper
156	100		
77	180.7	0.0	347.2
158	96.4	0.0	197.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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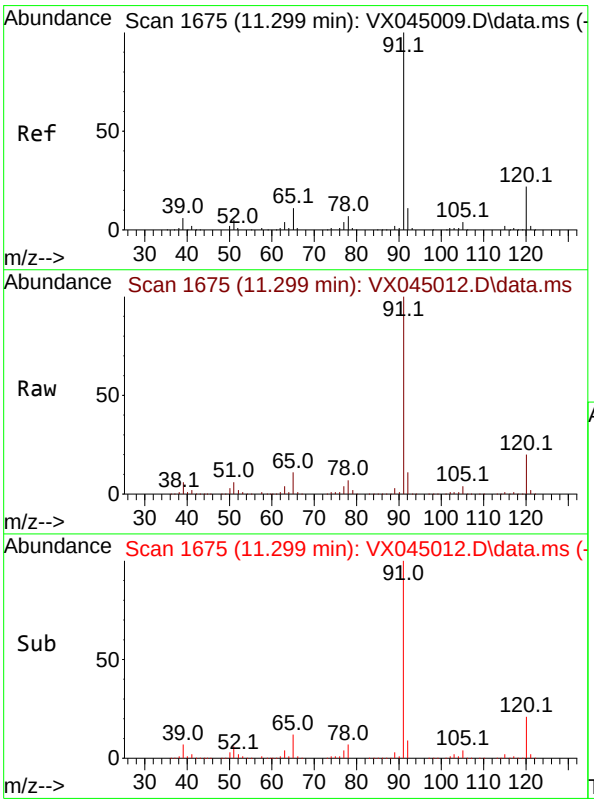
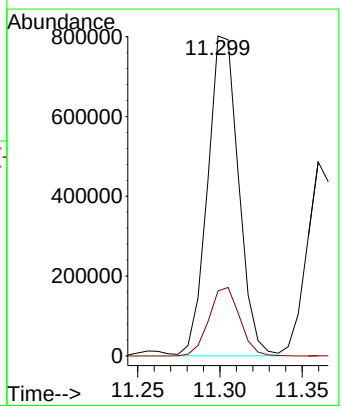
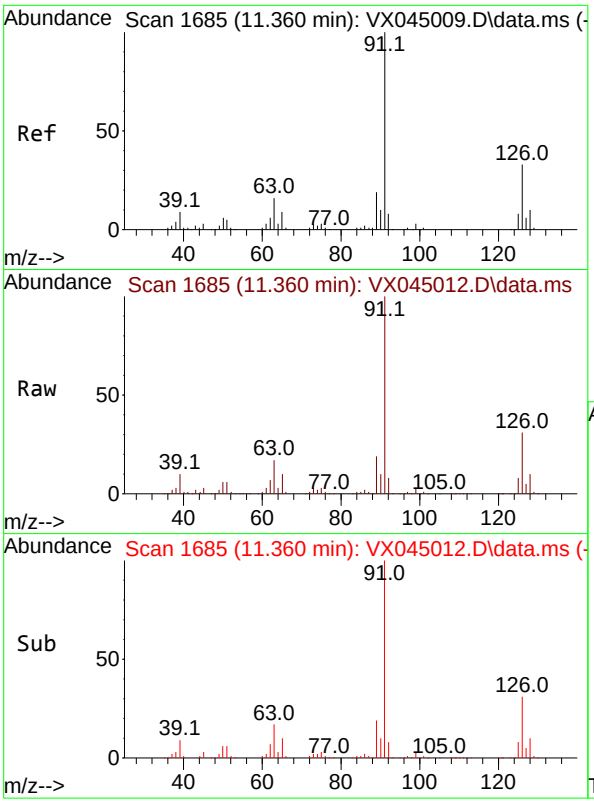


#74
n-propylbenzene
Concen: 157.793 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. -0.000 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion: 91 Resp: 1049645

Ion	Ratio	Lower	Upper
91	100		
120	21.4	0.0	44.2





#75
2-Chlorotoluene
Concen: 153.997 ug/l
RT: 11.360 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion: 91 Resp: 61930

Ion	Ratio	Lower	Upper
91	100		
126	31.8	0.0	65.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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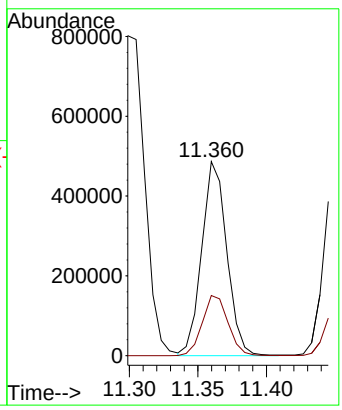
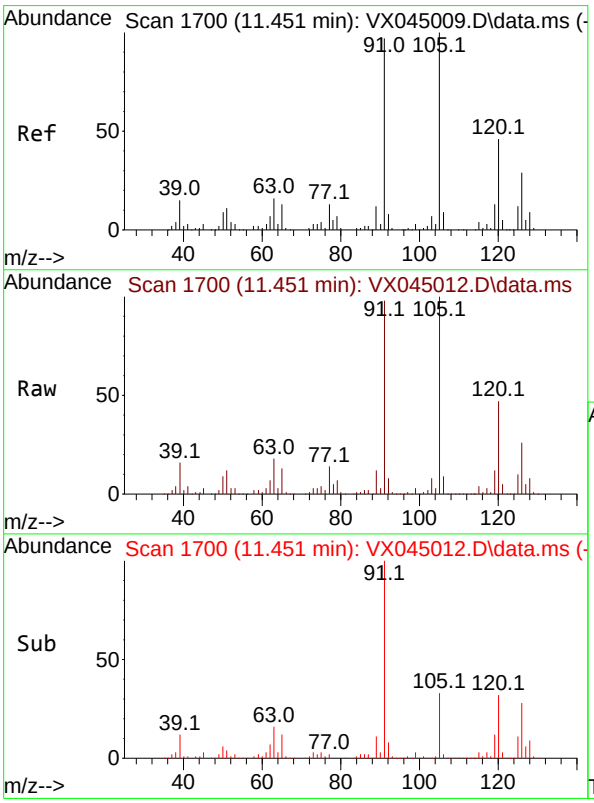
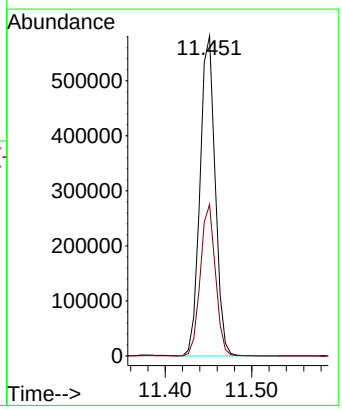


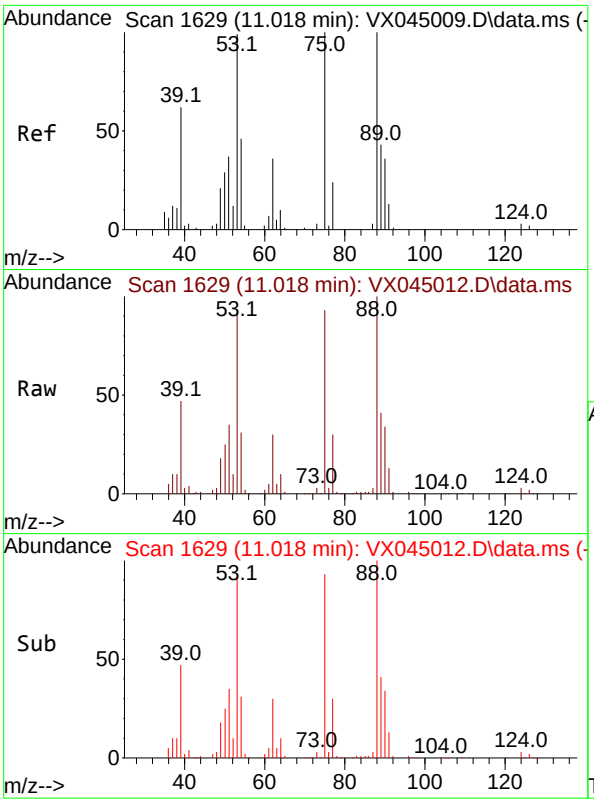


#76
1,3,5-Trimethylbenzene
Concen: 153.508 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion:105 Resp: 707908

Ion	Ratio	Lower	Upper
105	100		
120	47.0	0.0	94.4





#77
t-1,4-Dichloro-2-butene
Concen: 191.694 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion: 75 Resp: 9750

Ion	Ratio	Lower	Upper
75	100		
53	100.7	49.8	149.4
89	43.9	21.4	64.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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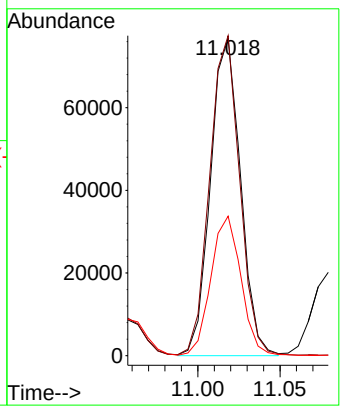
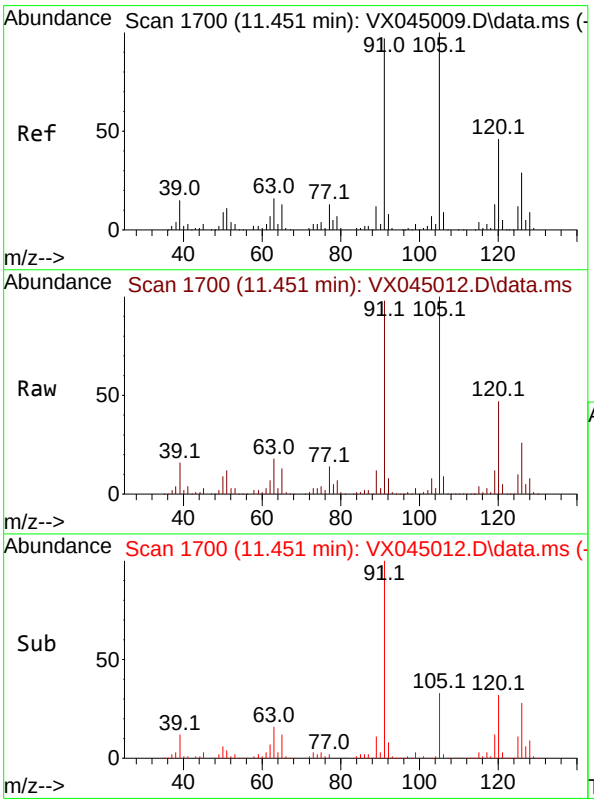
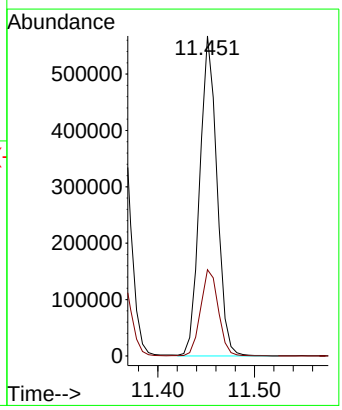


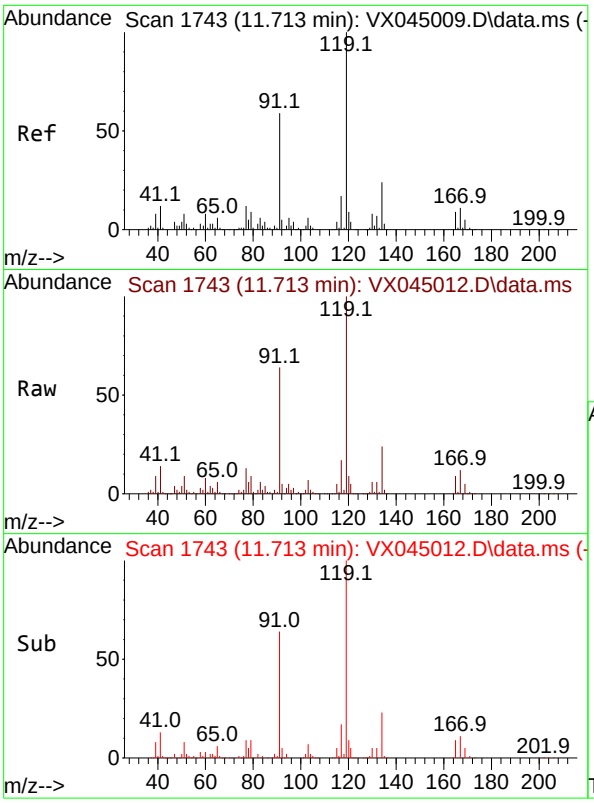


#78
4-Chlorotoluene
Concen: 157.047 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion: 91 Resp: 704032

Ion	Ratio	Lower	Upper
91	100		
126	27.7	0.0	58.0

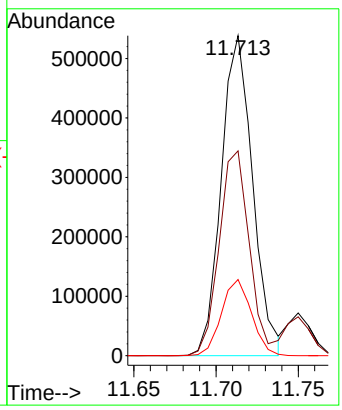




#79
tert-butylbenzene
Concen: 154.110 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion:119 Resp: 71606

Ion	Ratio	Lower	Upper
119	100		
91	61.0	0.0	120.6
134	22.8	0.0	48.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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Reviewed By :John Carlone 02/24/2025
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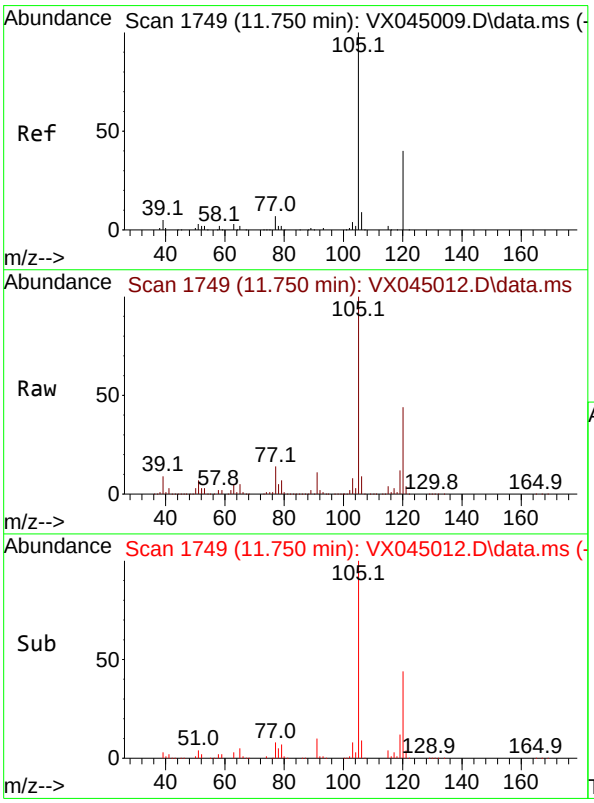
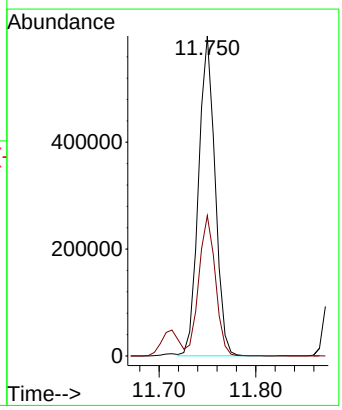
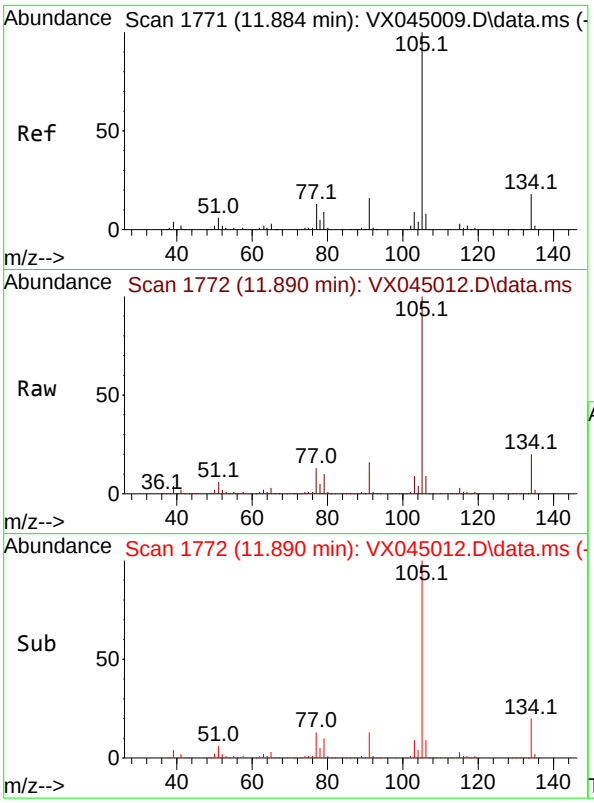


#80
1,2,4-Trimethylbenzene
Concen: 153.746 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion:105 Resp: 710215

Ion	Ratio	Lower	Upper
105	100		
120	44.1	0.0	88.4

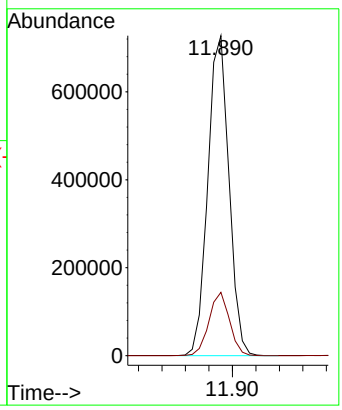




#81
sec-Butylbenzene
Concen: 156.100 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion:105 Resp: 91029

Ion	Ratio	Lower	Upper
105	100		
134	19.3	0.0	39.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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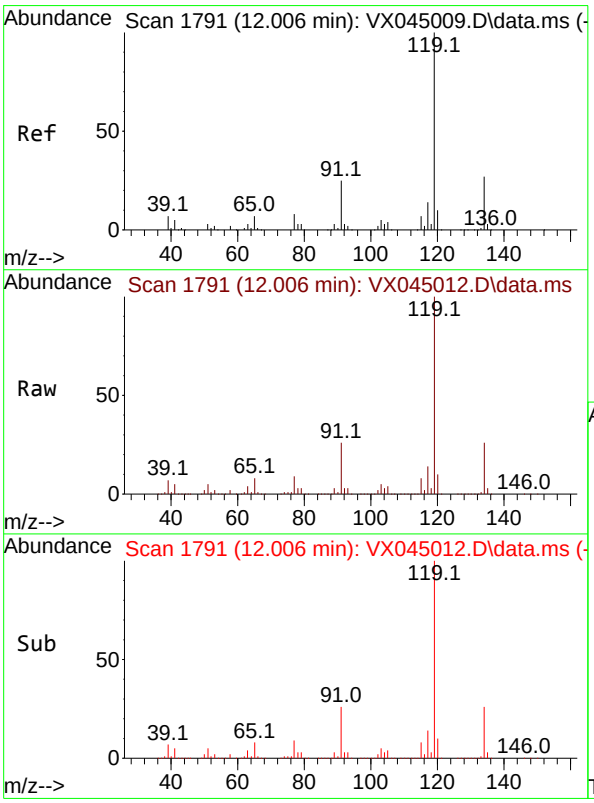
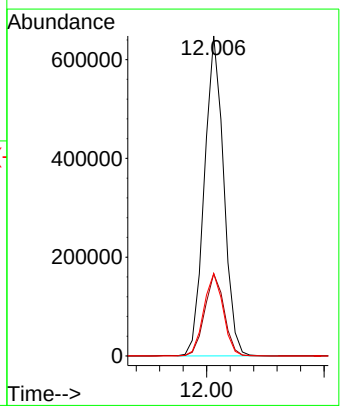
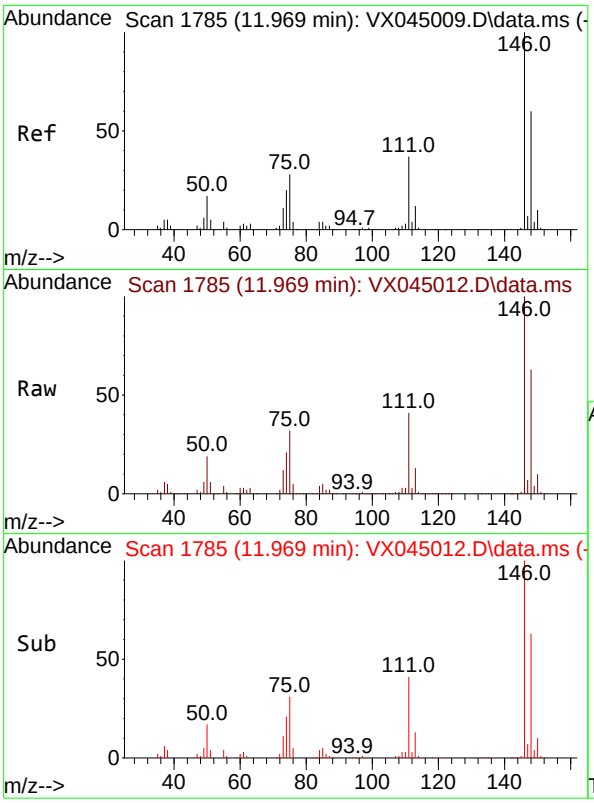


#82
p-Isopropyltoluene
Concen: 156.297 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion:119 Resp: 738494

Ion	Ratio	Lower	Upper
119	100		
134	25.8	0.0	52.6
91	25.9	0.0	51.0

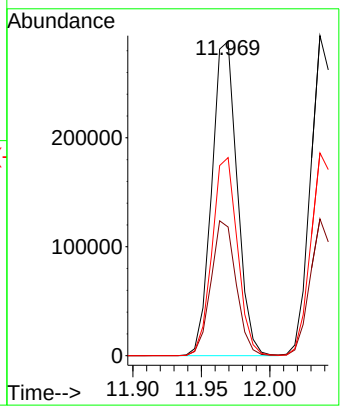




#83
1,3-Dichlorobenzene
Concen: 155.340 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion:146 Resp: 37192

Ion	Ratio	Lower	Upper
146	100		
111	42.5	20.2	60.5
148	63.0	31.2	93.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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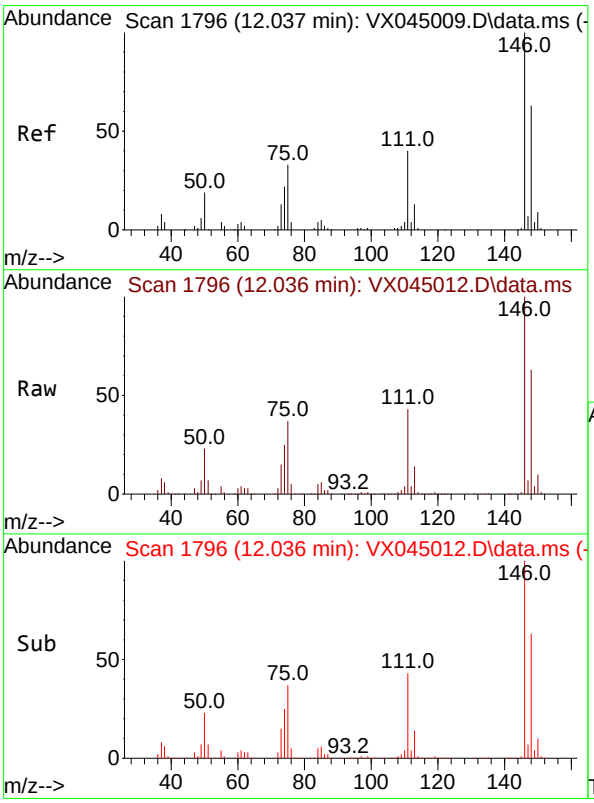
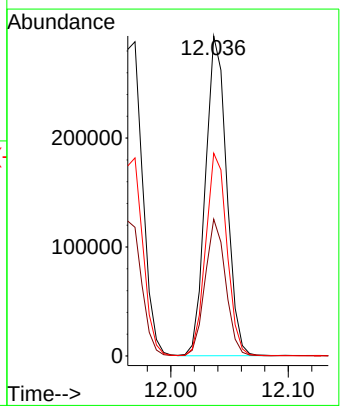
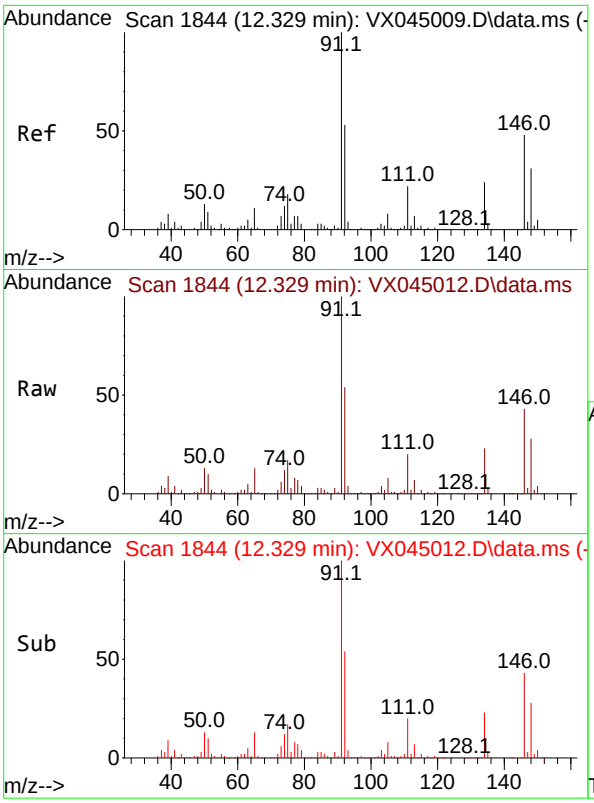


#84
1,4-Dichlorobenzene
Concen: 155.264 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. -0.000 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion:146 Resp: 366532

Ion	Ratio	Lower	Upper
146	100		
111	41.7	20.4	61.2
148	63.6	31.8	95.4

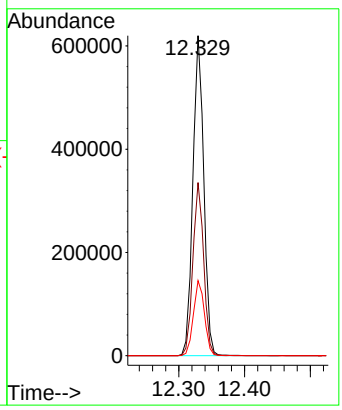




#85
n-Butylbenzene
Concen: 164.749 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion: 91 Resp: 71084

Ion	Ratio	Lower	Upper
91	100		
92	53.7	0.0	105.2
134	23.9	0.0	49.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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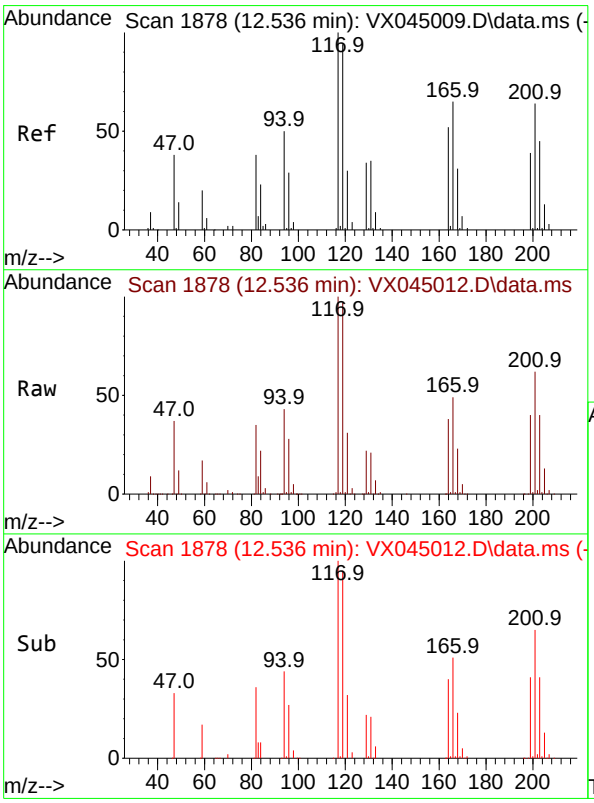
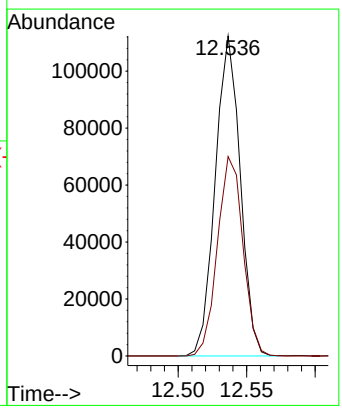
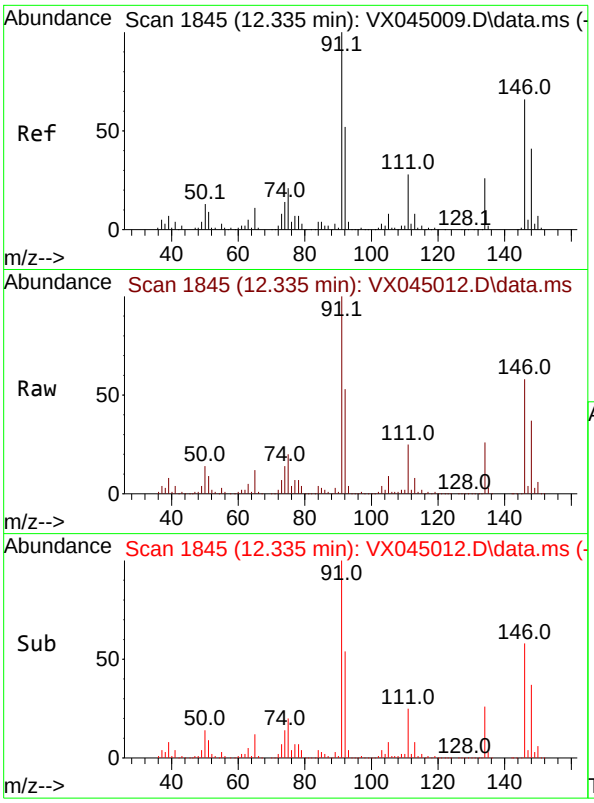


#86
Hexachloroethane
Concen: 170.855 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion:117 Resp: 142372

Ion	Ratio	Lower	Upper
117	100		
201	63.8	32.6	97.7

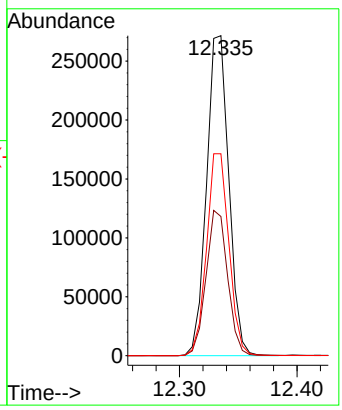




#87
1,2-Dichlorobenzene
Concen: 151.688 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion:146 Resp: 35634

Ion	Ratio	Lower	Upper
146	100		
111	44.2	21.7	65.1
148	63.4	31.8	95.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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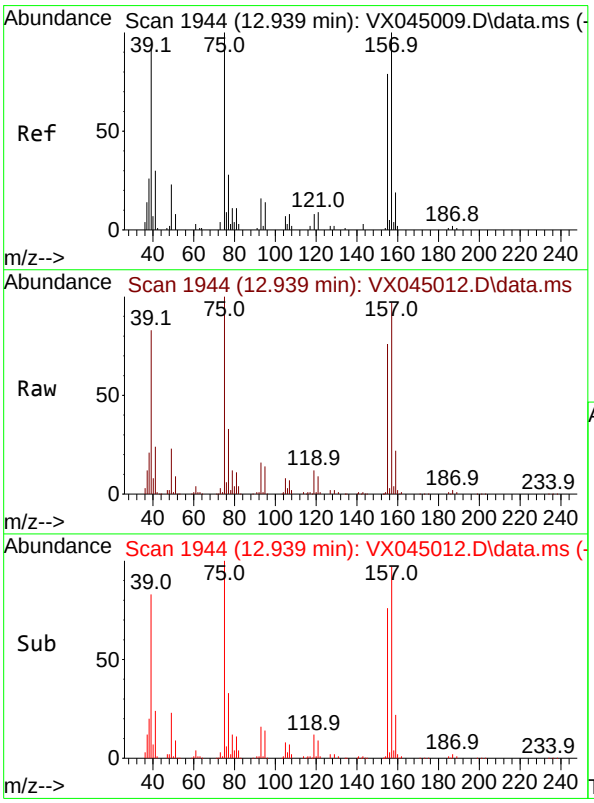
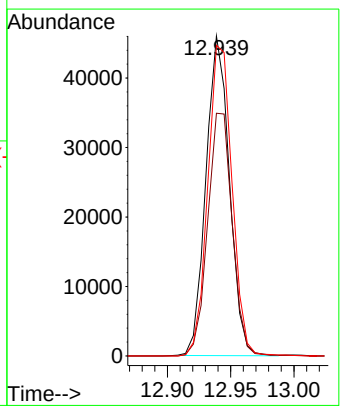
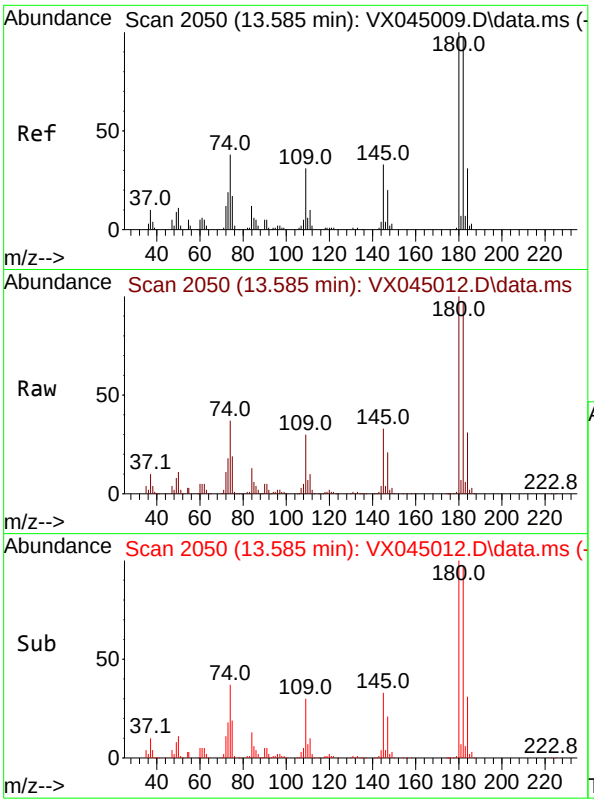


#88
1,2-Dibromo-3-Chloropropane
Concen: 166.653 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.000 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion: 75 Resp: 59310

Ion	Ratio	Lower	Upper
75	100		
155	79.4	66.2	99.4
157	100.8	81.4	122.2

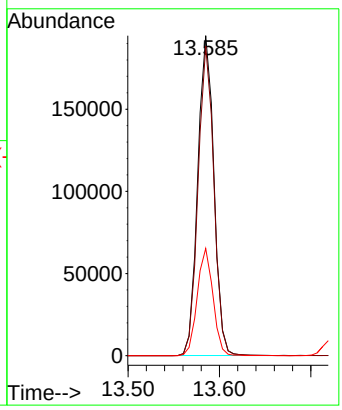




#89
1,2,4-Trichlorobenzene
Concen: 167.248 ug/l
RT: 13.585 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion:180 Resp: 23812

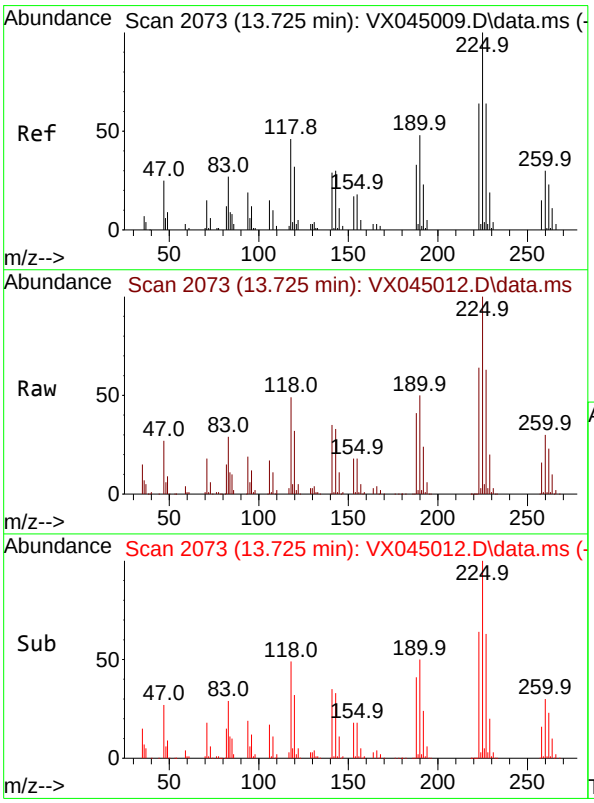
Ion	Ratio	Lower	Upper
180	100		
182	95.0	77.7	116.5
145	32.8	25.8	38.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

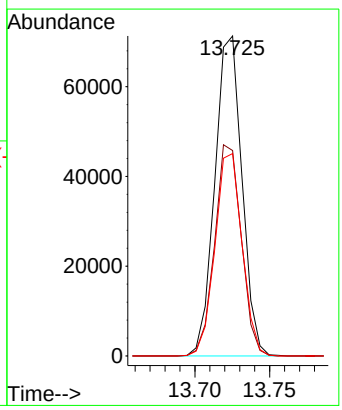
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

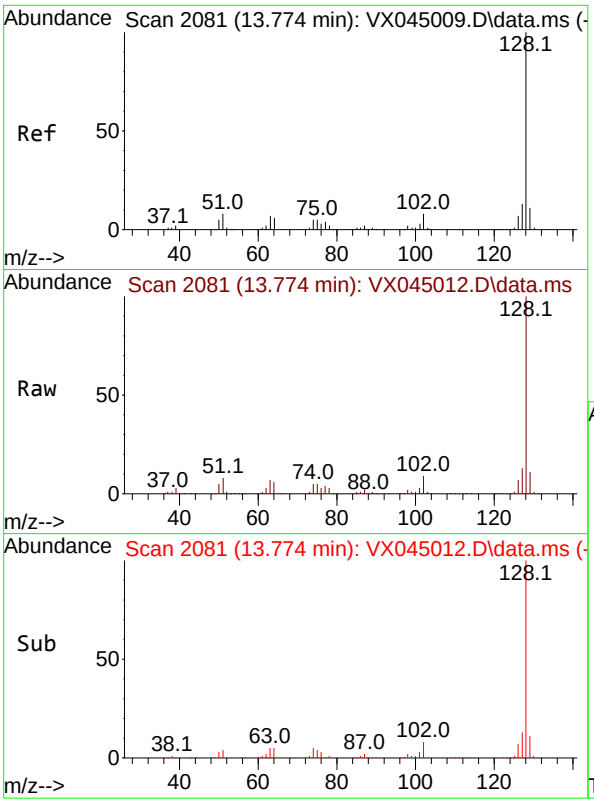


#90
Hexachlorobutadiene
Concen: 155.145 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion:225 Resp: 90085

Ion	Ratio	Lower	Upper
225	100		
223	64.8	0.0	123.4
227	63.2	0.0	127.4

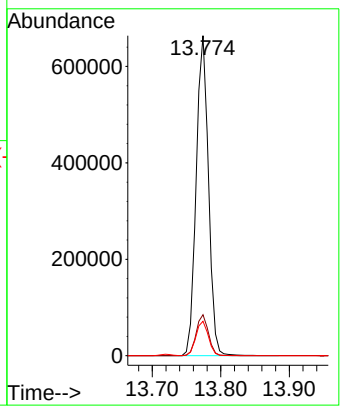




#91
Naphthalene
Concen: 165.262 ug/l
RT: 13.774 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion:128 Resp: 82969

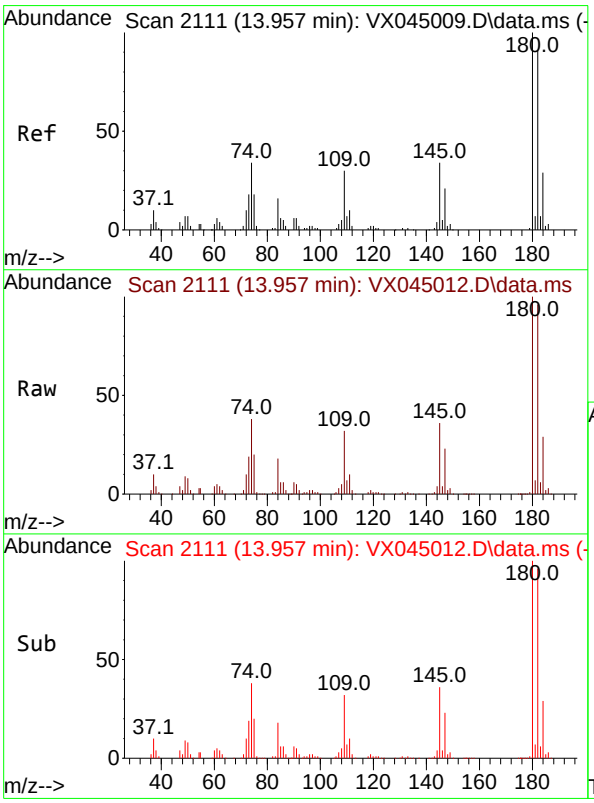
Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.5	15.7
129	10.9	8.7	13.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

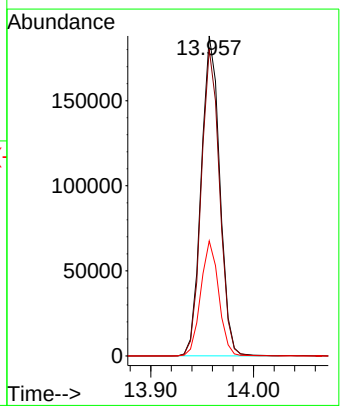
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025



#92
1,2,3-Trichlorobenzene
Concen: 161.124 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VX045012.D
Acq: 21 Feb 2025 11:29

Tgt Ion:180 Resp: 236181

Ion	Ratio	Lower	Upper
180	100		
182	94.5	0.0	186.6
145	34.8	0.0	68.4



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022125\
Data File : VX045014.D
Acq On : 21 Feb 2025 13:09
Operator : JC/MD
Sample : VSTDICV020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022125

Manual Integrations APPROVED

Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

Quant Time: Feb 22 01:12:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X022125W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Feb 22 01:06:36 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	4.885	128	17826	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.751	114	98652	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.049	117	90634	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.946	65	51483	29.736	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 99.133%			
60) 4-Bromofluorobenzene	11.079	95	50982	30.094	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 100.300%			
63) Toluene-d8	8.641	98	148516	29.620	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 98.733%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	27388	18.226	ug/l	95
3) Chloromethane	1.294	50	32169	17.873	ug/l	99
4) Vinyl Chloride	1.374	62	30221	17.401	ug/l	99
5) Bromomethane	1.593	94	11792	19.506	ug/l	97
6) Chloroethane	1.666	64	19435	20.662	ug/l	96
7) Trichlorofluoromethane	1.874	101	41534	17.793	ug/l	96
8) Diethyl Ether	2.130	74	15203	17.214	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.319	101	25031	18.055	ug/l	97
10) 1,1-Dichloroethene	2.313	96	24494	18.088	ug/l	95
11) Methyl Iodide	2.441	142	24257	15.827	ug/l	95
12) Methyl Acetate	2.697	43	28582	18.176	ug/l	99
13) Acrolein	2.233	56	30003	95.190	ug/l	100
14) Acrylonitrile	3.056	53	68921	89.730	ug/l	99
15) Acetone	2.374	58	22947	108.932	ug/l	97
16) Carbon Disulfide	2.502	76	68739	17.896	ug/l	100
17) Allyl chloride	2.654	41	45112	17.812	ug/l	99
18) Methylene Chloride	2.782	84	26839	17.621	ug/l	92
19) trans-1,2-Dichloroethene	3.081	96	24421	17.825	ug/l	92
20) Diisopropyl ether	3.751	45	86878	17.850	ug/l	90
21) 1,1-Dichloroethane	3.599	63	47892	17.693	ug/l	99
22) cis-1,2-Dichloroethene	4.471	96	29051	17.695	ug/l	99
23) tert-Butyl Alcohol	2.965	59	24746	92.286	ug/l #	100
24) Methyl tert-Butyl Ether	3.105	73	78186	17.690	ug/l	100
25) Chloroform	5.074	83	46912	17.943	ug/l	98
26) Cyclohexane	5.458	56	44699	17.890	ug/l #	98
29) 1,1-Dichloropropene	5.678	75	32608	17.969	ug/l	99
30) 2-Butanone	4.544	43	100841	96.206	ug/l	99
31) 2,2-Dichloropropane	4.465	77	37149	18.104	ug/l	99
32) 1,1,1-Trichloroethane	5.373	97	39458	17.945	ug/l	99
33) Carbon Tetrachloride	5.666	117	33551	18.080	ug/l	98
34) Benzene	6.025	78	102508	18.013	ug/l	98
35) Methacrylonitrile	4.910	41	20575	18.343	ug/l	97
36) 1,2-Dichloroethane	6.074	62	35686	18.316	ug/l	99
37) Trichloroethene	7.117	130	23875	17.933	ug/l	97
38) Methylcyclohexane	7.373	83	44760	18.370	ug/l	98
39) 1,2-Dichloropropane	7.421	63	24627	17.406	ug/l	98
40) Dibromomethane	7.574	93	18285	18.010	ug/l	99
41) Bromodichloromethane	7.812	83	35606	17.645	ug/l	98
42) Vinyl Acetate	3.709	43	365963	89.973	ug/l	100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022125\
Data File : VX045014.D
Acq On : 21 Feb 2025 13:09
Operator : JC/MD
Sample : VSTDICV020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022125

Manual Integrations APPROVED

Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

Quant Time: Feb 22 01:12:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X022125W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Feb 22 01:06:36 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.702	43	33559	17.072	ug/l	100
44) Isopropyl Acetate	6.330	43	58216	17.994	ug/l	98
45) 1,4-Dioxane	7.659	88	12655	376.282	ug/l	99
46) Methyl methacrylate	7.684	41	29063	18.320	ug/l	98
47) n-amyl Acetate	10.842	43	50309	17.920	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	33010	16.972	ug/l	98
49) cis-1,3-Dichloropropene	8.360	75	38512	17.491	ug/l	99
50) 1,1,2-Trichloroethane	9.147	97	24435	18.451	ug/l	96
51) Ethyl methacrylate	9.110	69	37245	17.882	ug/l	97
52) 1,3-Dichloropropane	9.305	76	41224	17.765	ug/l	97
53) Dibromochloromethane	9.519	129	25807	17.620	ug/l	96
54) 1,2-Dibromoethane	9.604	107	23689	17.616	ug/l	96
55) 2-Chloroethyl vinyl ether	8.232	63	91907	85.929	ug/l	100
56) Bromoform	10.799	173	15981	17.412	ug/l	99
58) 4-Methyl-2-Pentanone	8.568	43	192103	93.175	ug/l	99
59) 2-Hexanone	9.427	43	142320	95.501	ug/l	99
61) Tetrachloroethene	9.269	164	19987	17.908	ug/l	95
62) Toluene	8.714	91	107324	17.876	ug/l	98
64) Chlorobenzene	10.073	112	66754	17.942	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.159	131	21314	17.362	ug/l	98
66) Ethyl Benzene	10.189	91	119085	18.117	ug/l	95
67) m/p-Xylenes	10.299	106	88668	36.205	ug/l	98
68) o-Xylene	10.634	106	44070	18.340	ug/l	97
69) Styrene	10.653	104	71782	17.886	ug/l	98
70) Isopropylbenzene	10.957	105	112344	18.117	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.207	83	37415	18.349	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	30477m	18.172	ug/l	
73) Bromobenzene	11.195	156	26006	18.218	ug/l	99
74) n-propylbenzene	11.299	91	134814	18.269	ug/l	100
75) 2-Chlorotoluene	11.360	91	80948	18.145	ug/l	100
76) 1,3,5-Trimethylbenzene	11.445	105	95320	18.633	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	9008	15.964	ug/l	92
78) 4-Chlorotoluene	11.451	91	90166	18.131	ug/l	99
79) tert-butylbenzene	11.713	119	94943	18.420	ug/l	100
80) 1,2,4-Trimethylbenzene	11.750	105	94408	18.423	ug/l	99
81) sec-Butylbenzene	11.884	105	119426	18.461	ug/l	99
82) p-Isopropyltoluene	12.006	119	97575	18.616	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	48430	18.234	ug/l	99
84) 1,4-Dichlorobenzene	12.036	146	48160	18.390	ug/l	99
85) n-Butylbenzene	12.329	91	87176	18.213	ug/l	99
86) Hexachloroethane	12.536	117	16000	17.309	ug/l	100
87) 1,2-Dichlorobenzene	12.329	146	48245	18.513	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.939	75	7064	17.893	ug/l	97
89) 1,2,4-Trichlorobenzene	13.585	180	28630	18.126	ug/l	98
90) Hexachlorobutadiene	13.719	225	12062	18.726	ug/l	99
91) Naphthalene	13.774	128	101756	18.271	ug/l	99
92) 1,2,3-Trichlorobenzene	13.957	180	28151	17.312	ug/l	97

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

ICAL Form

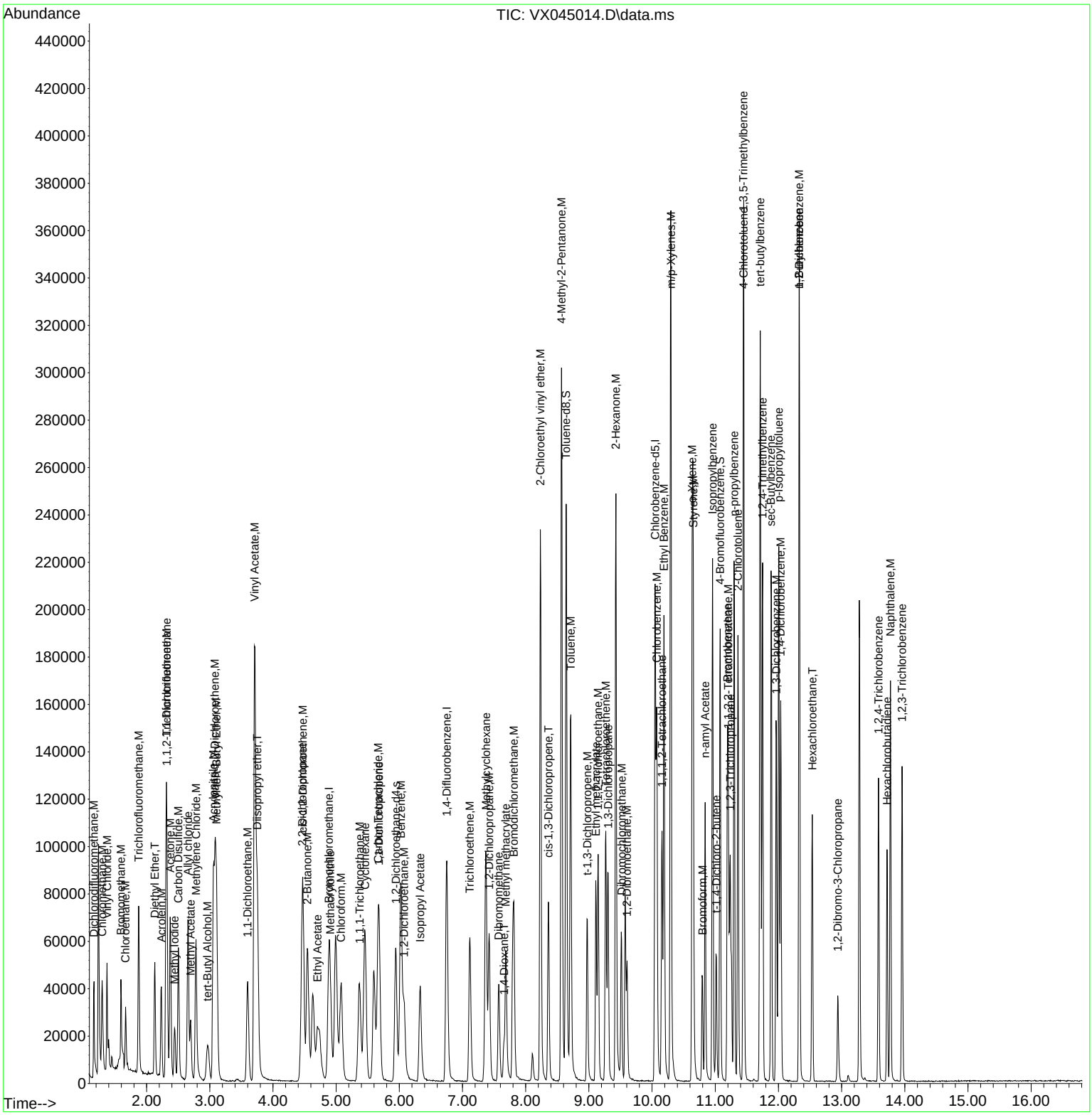
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022125\
Data File : VX045014.D
Acq On : 21 Feb 2025 13:09
Operator : JC/MD
Sample : VSTDICV020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

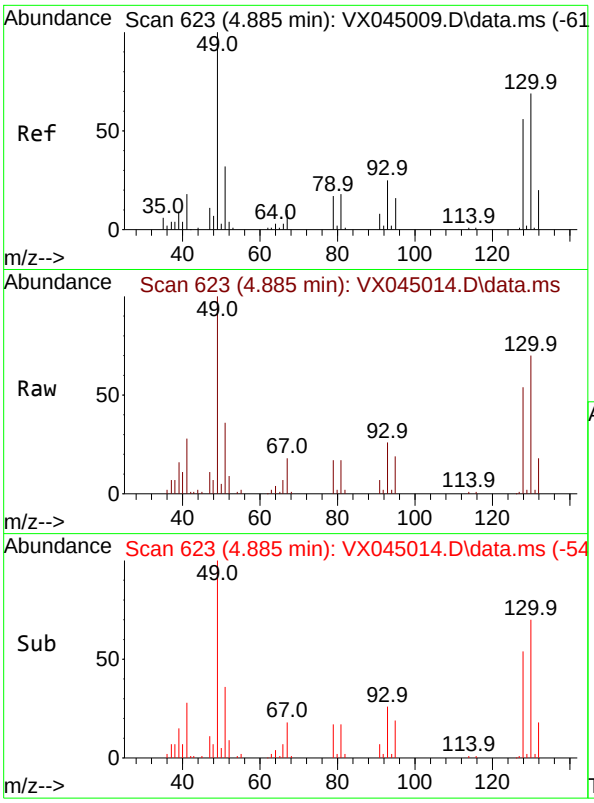
Quant Time: Feb 22 01:12:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X022125W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Feb 22 01:06:36 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022125

Manual Integrations APPROVED

Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

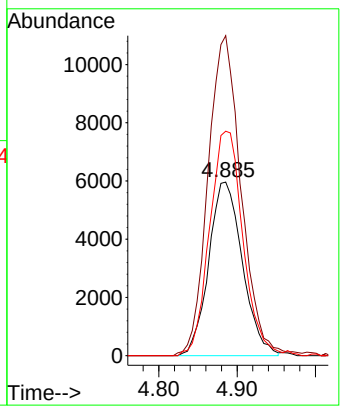




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.885 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion:128 Resp: 1782

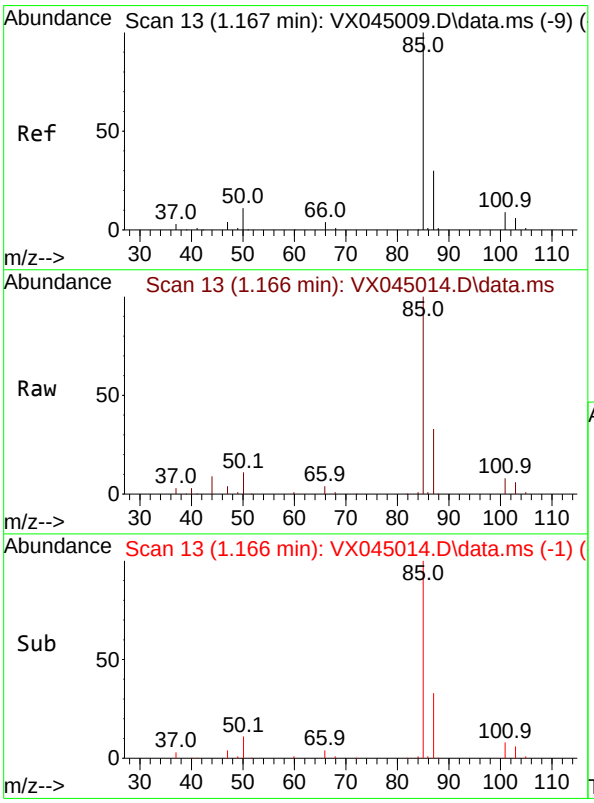
Ion	Ratio	Lower	Upper
128	100		
49	181.1	0.0	449.7
130	128.1	0.0	312.7



Instrument :
MSVOA_X
ClientSampleId :
ICVVX022125

Manual Integrations
APPROVED

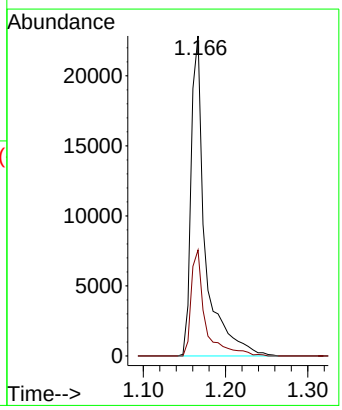
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

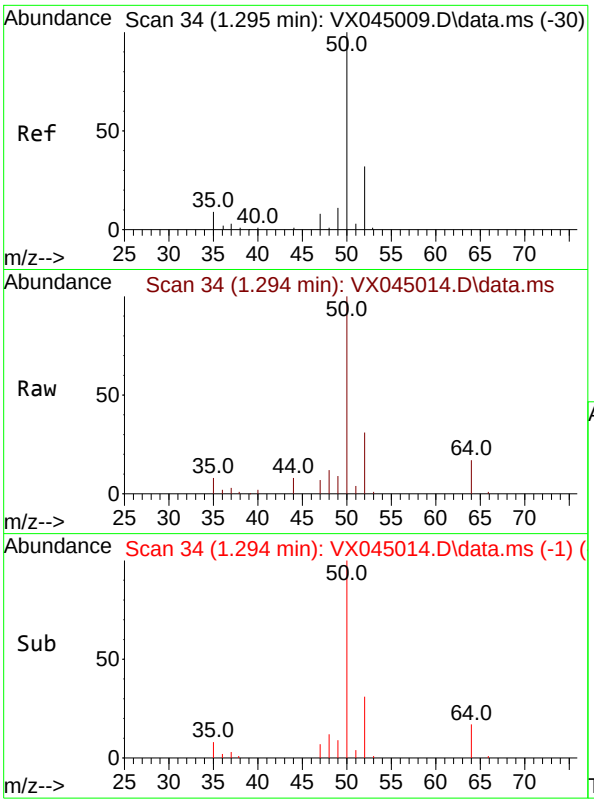


#2
Dichlorodifluoromethane
Concen: 18.226 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion: 85 Resp: 27388

Ion	Ratio	Lower	Upper
85	100		
87	33.1	15.1	45.3

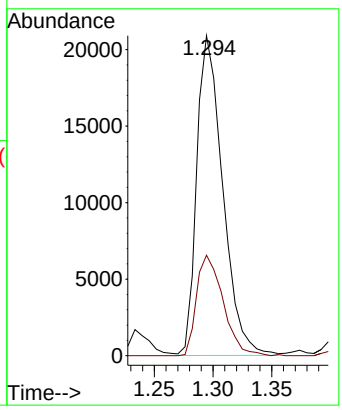




#3
Chloromethane
Concen: 17.873 ug/l
RT: 1.294 min Scan# 34
Delta R.T. -0.000 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion: 50 Resp: 3216

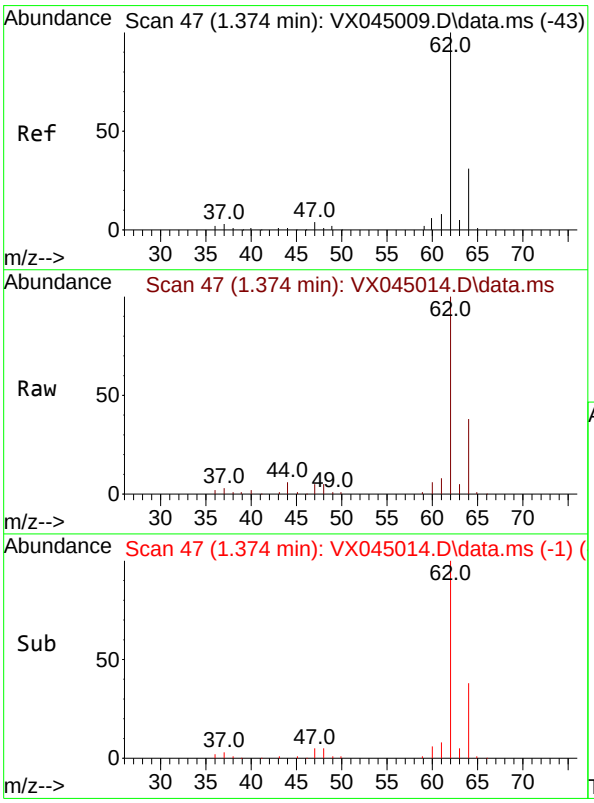
Ion	Ratio	Lower	Upper
50	100		
52	31.6	25.7	38.5



Instrument :
MSVOA_X
ClientSampleId :
ICVVX022125

Manual Integrations
APPROVED

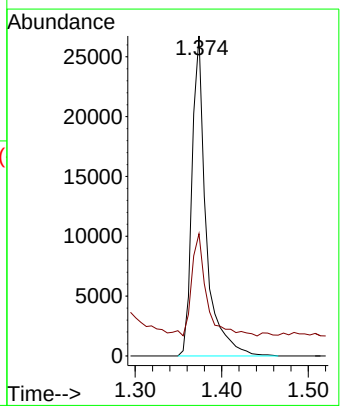
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

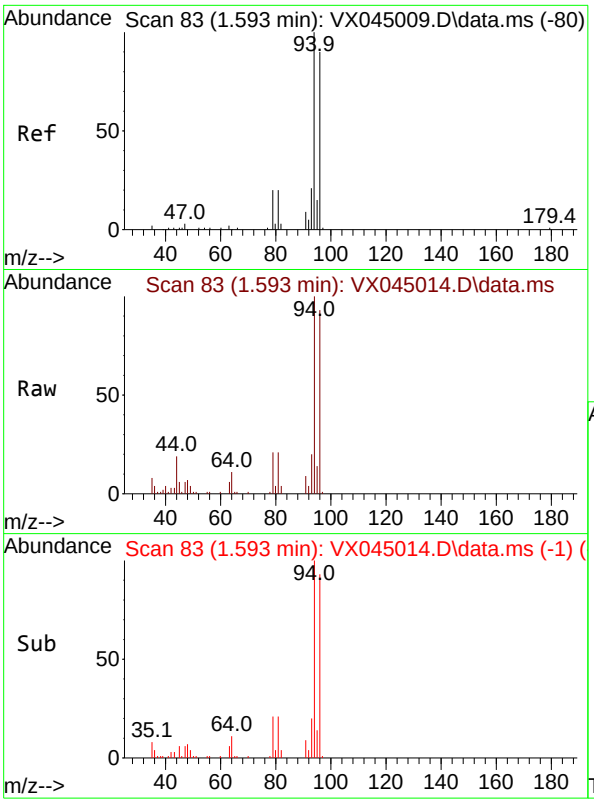


#4
Vinyl Chloride
Concen: 17.401 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion: 62 Resp: 30221

Ion	Ratio	Lower	Upper
62	100		
64	31.7	25.1	37.7

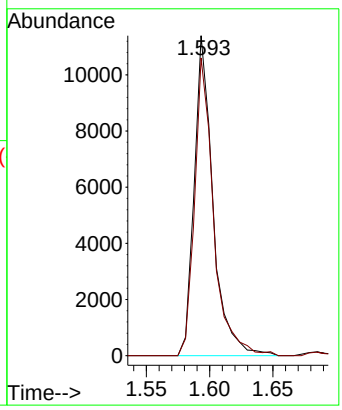




#5
Bromomethane
Concen: 19.506 ug/l
RT: 1.593 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion: 94 Resp: 1179

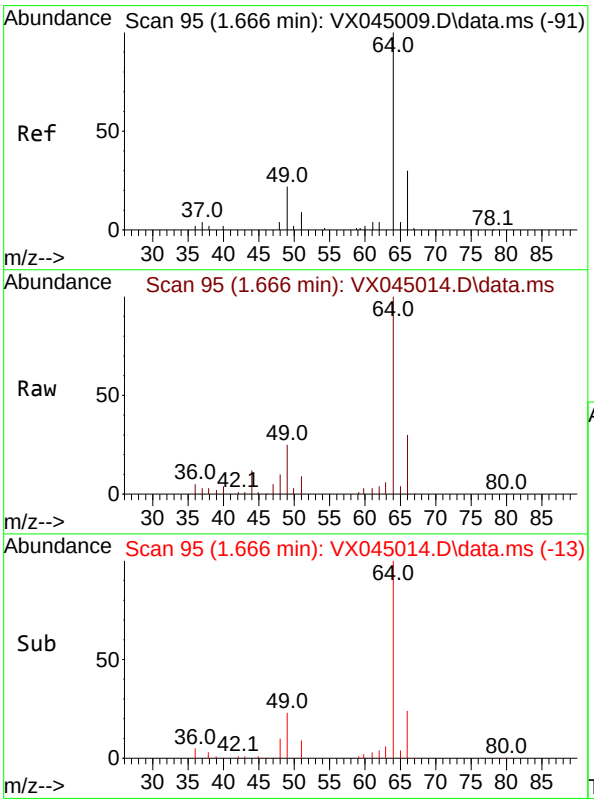
Ion	Ratio	Lower	Upper
94	100		
96	93.1	72.2	108.4



Instrument :
MSVOA_X
ClientSampleId :
ICVVX022125

Manual Integrations
APPROVED

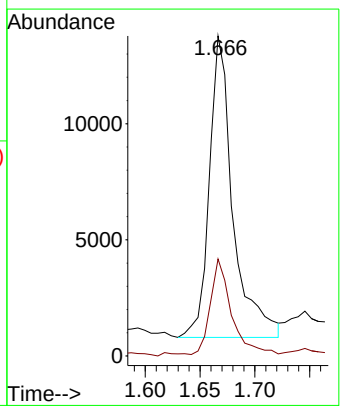
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

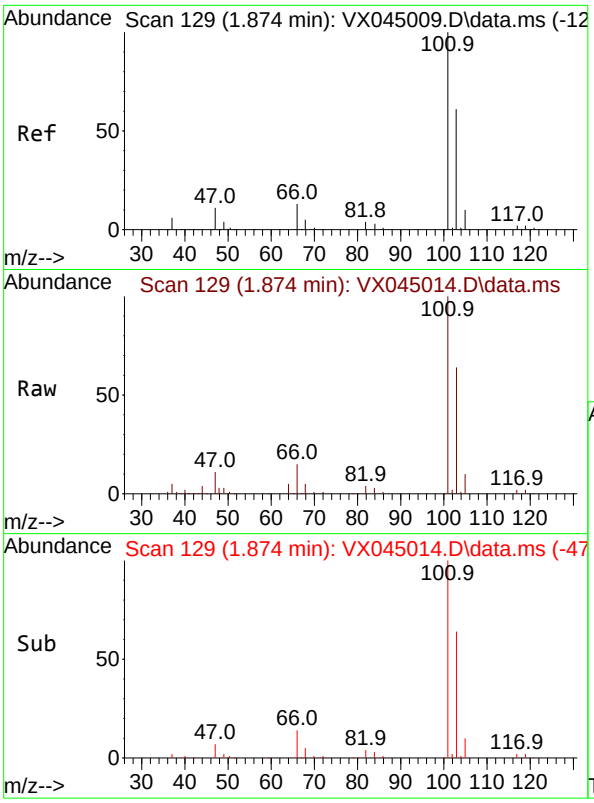


#6
Chloroethane
Concen: 20.662 ug/l
RT: 1.666 min Scan# 95
Delta R.T. -0.000 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion: 64 Resp: 19435

Ion	Ratio	Lower	Upper
64	100		
66	31.5	23.7	35.5

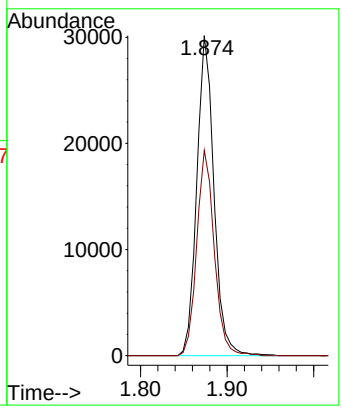




#7
Trichlorofluoromethane
Concen: 17.793 ug/l
RT: 1.874 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion:101 Resp: 4153

Ion	Ratio	Lower	Upper
101	100		
103	64.2	48.8	73.2



Instrument :
MSVOA_X
ClientSampleId :
ICVVX022125

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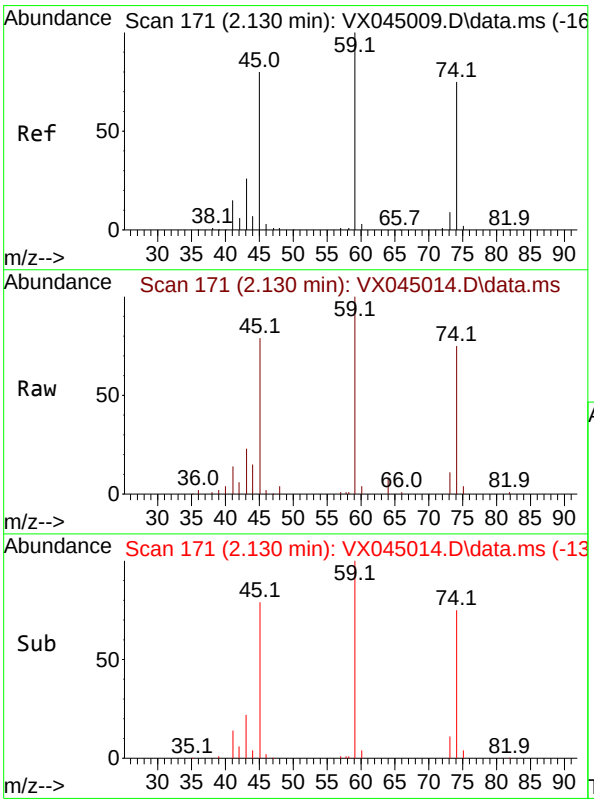
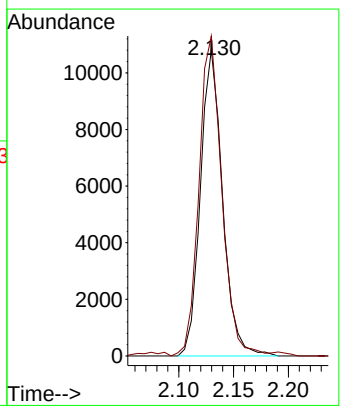
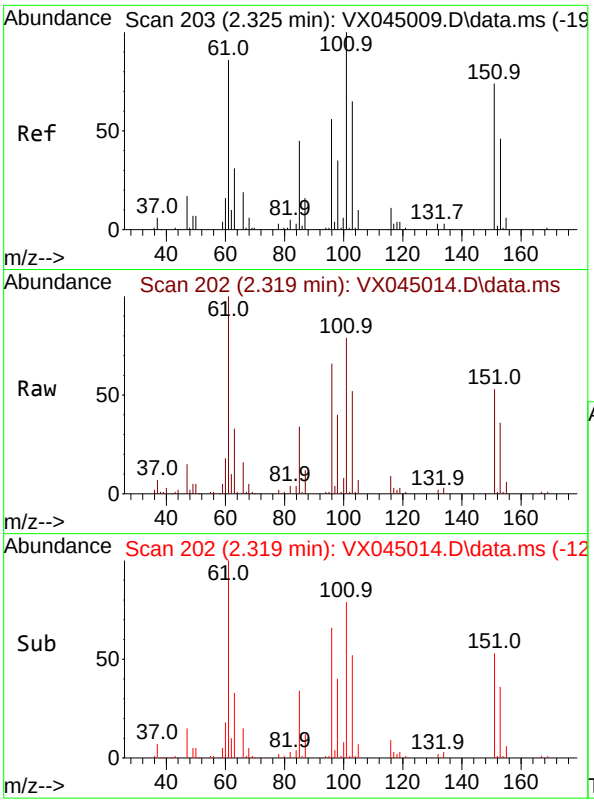


#8
Diethyl Ether
Concen: 17.214 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.000 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion: 74 Resp: 15203

Ion	Ratio	Lower	Upper
74	100		
45	107.4	20.8	186.8





#9
1,1,2-Trichlorotrifluoroethane
Concen: 18.055 ug/l
RT: 2.319 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022125

Tgt Ion:101 Resp: 2503

Ion	Ratio	Lower	Upper
101	100		
85	44.1	0.0	90.6
151	70.2	0.0	147.6

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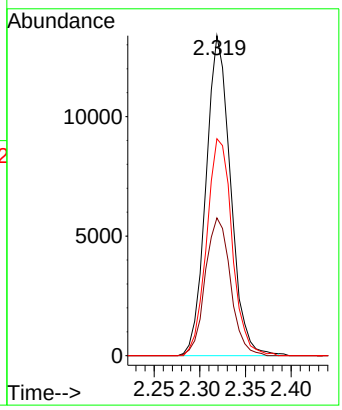
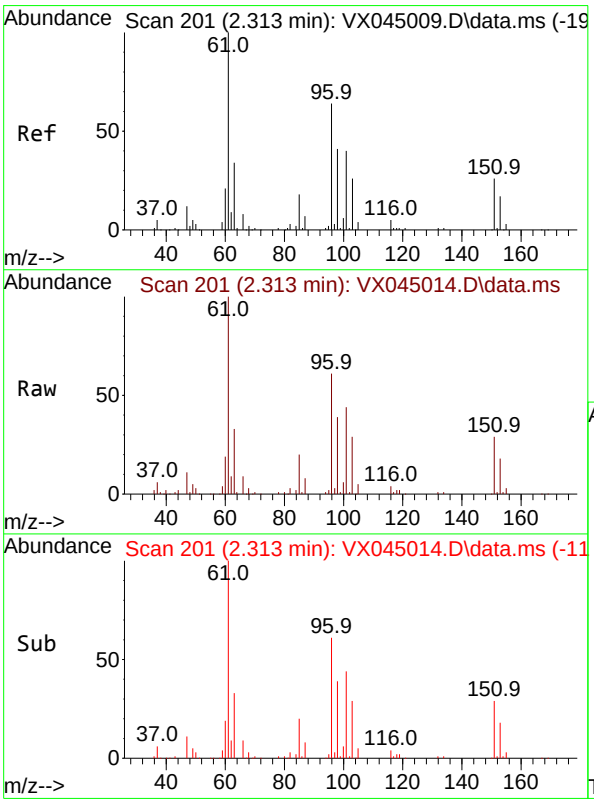
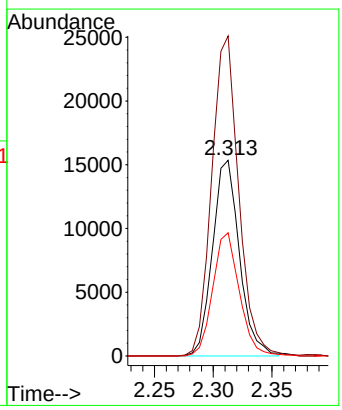


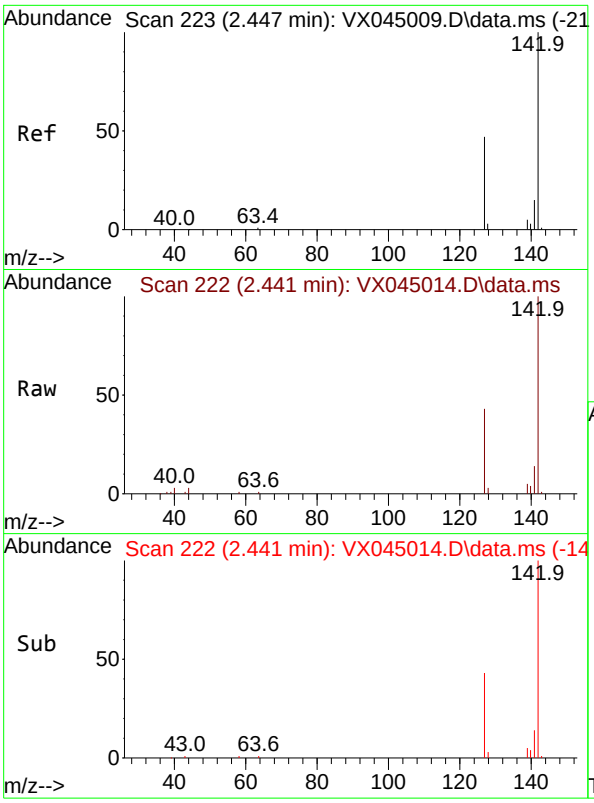


#10
1,1-Dichloroethene
Concen: 18.088 ug/l
RT: 2.313 min Scan# 201
Delta R.T. -0.000 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion: 96 Resp: 24494

Ion	Ratio	Lower	Upper
96	100		
61	163.5	124.2	186.2
98	63.0	51.1	76.7

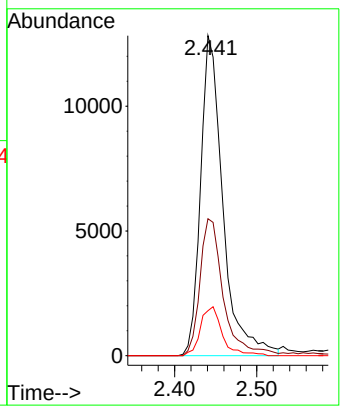




#11
Methyl Iodide
Concen: 15.827 ug/l
RT: 2.441 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion:142 Resp: 2425

Ion	Ratio	Lower	Upper
142	100		
127	42.9	23.3	69.9
141	14.2	7.5	22.6



Instrument :
MSVOA_X
ClientSampleId :
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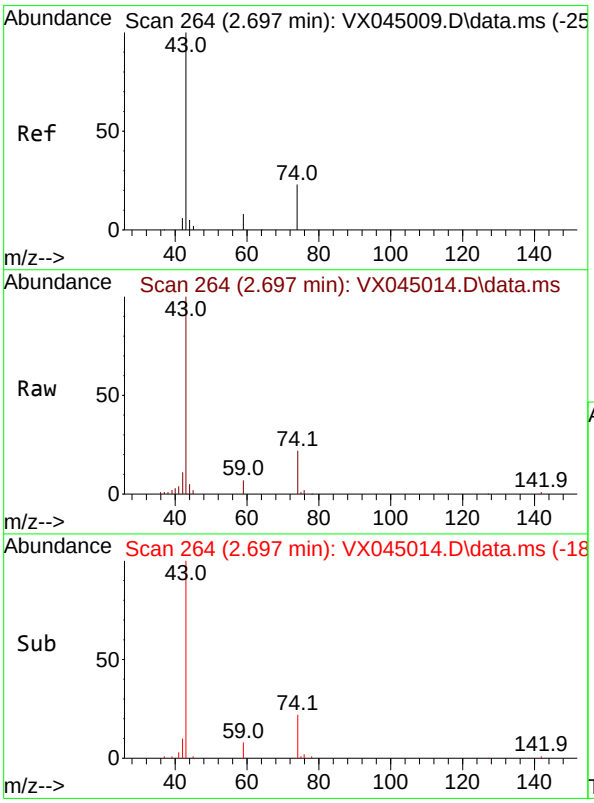
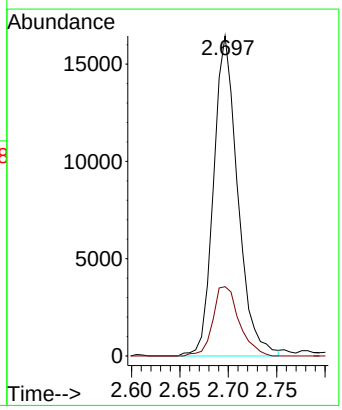
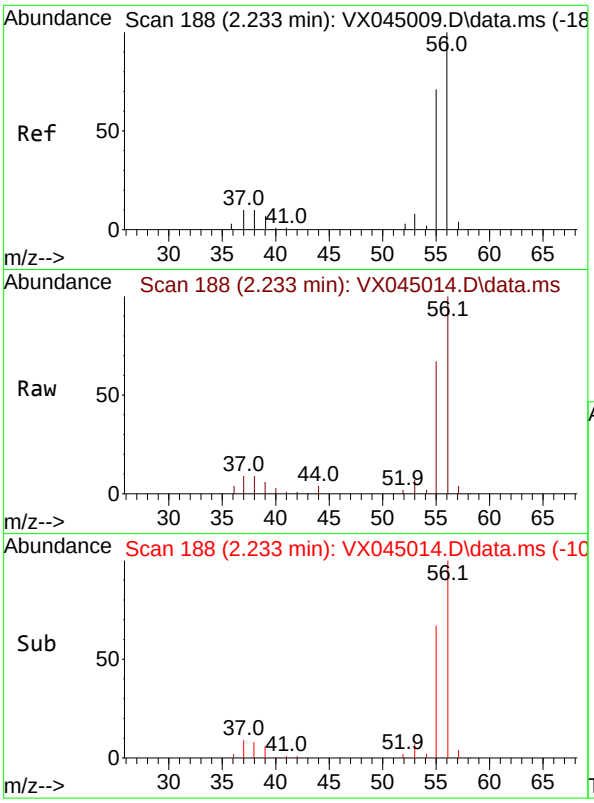


#12
Methyl Acetate
Concen: 18.176 ug/l
RT: 2.697 min Scan# 264
Delta R.T. -0.000 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion: 43 Resp: 28582

Ion	Ratio	Lower	Upper
43	100		
74	21.9	17.9	26.9

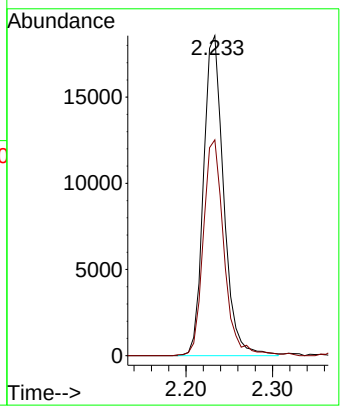




#13
Acrolein
Concen: 95.190 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion: 56 Resp: 3000

Ion	Ratio	Lower	Upper
56	100		
55	69.0	55.4	83.2



Instrument :
MSVOA_X
ClientSampleId :
ICVVX022125

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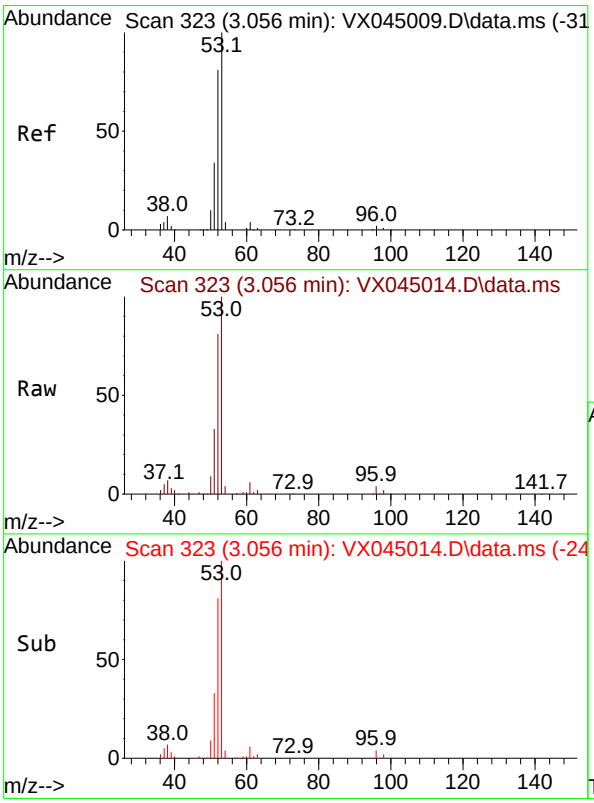
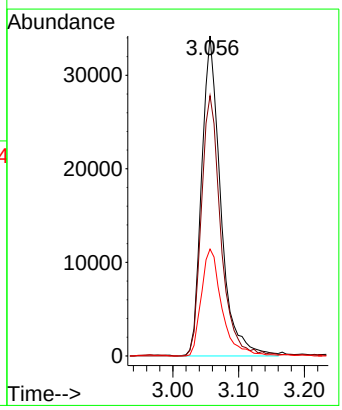
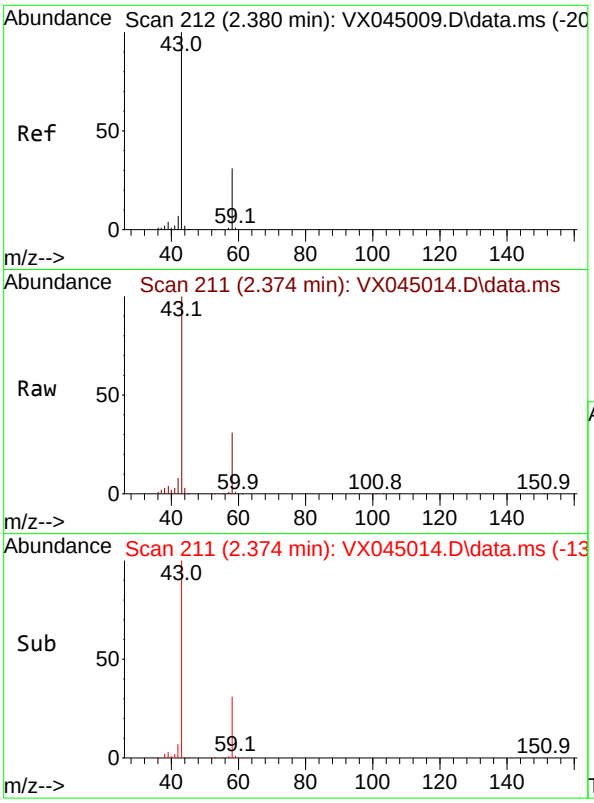


#14
Acrylonitrile
Concen: 89.730 ug/l
RT: 3.056 min Scan# 323
Delta R.T. -0.000 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion: 53 Resp: 68921

Ion	Ratio	Lower	Upper
53	100		
52	82.6	40.9	122.8
51	35.7	18.0	54.0





#15
Acetone
Concen: 108.932 ug/l
RT: 2.374 min Scan# 21
Delta R.T. -0.006 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion: 58 Resp: 2294

Ion	Ratio	Lower	Upper
58	100		
43	317.3	258.6	388.0

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022125

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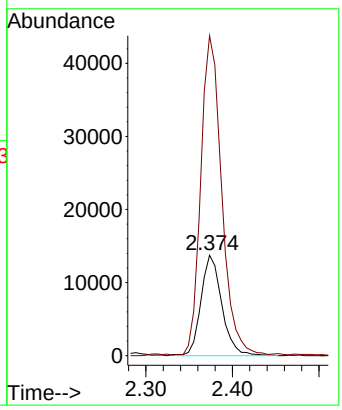
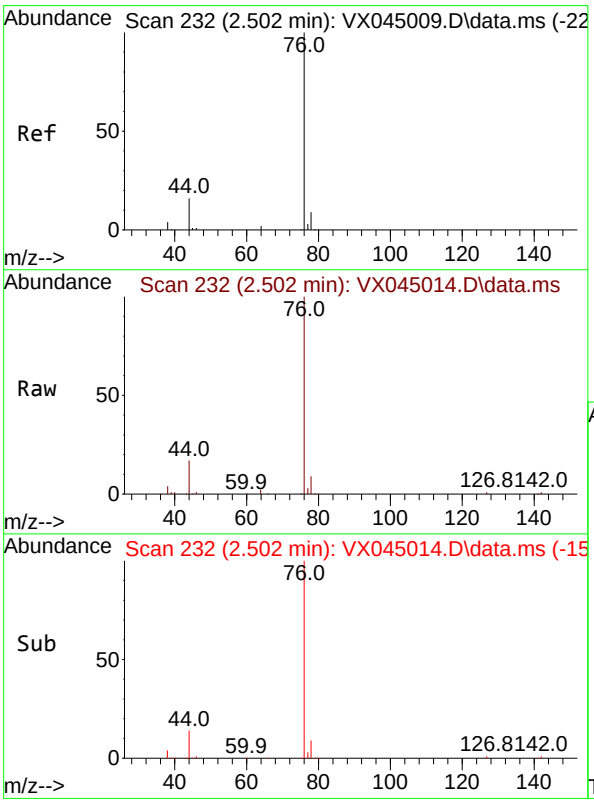
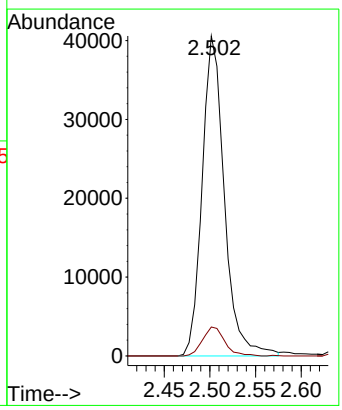


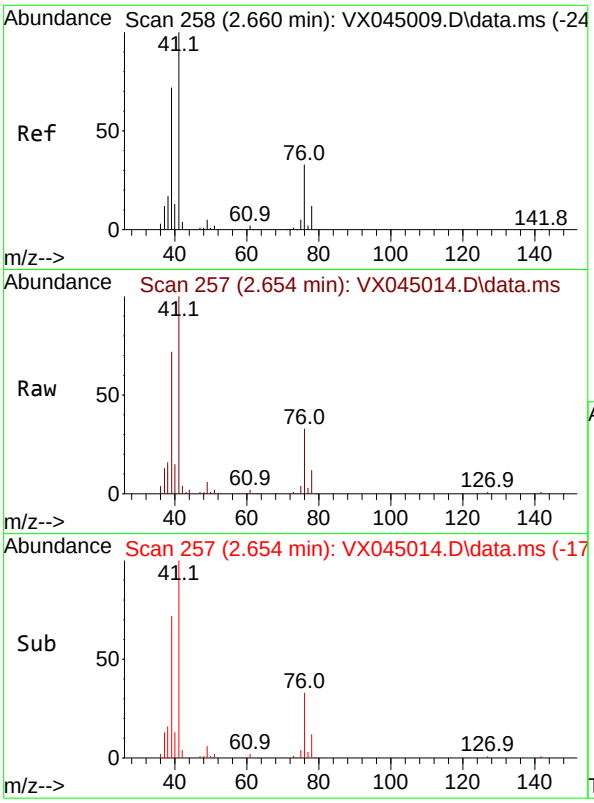


#16
Carbon Disulfide
Concen: 17.896 ug/l
RT: 2.502 min Scan# 232
Delta R.T. -0.000 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion: 76 Resp: 68739

Ion	Ratio	Lower	Upper
76	100		
78	9.0	7.3	10.9

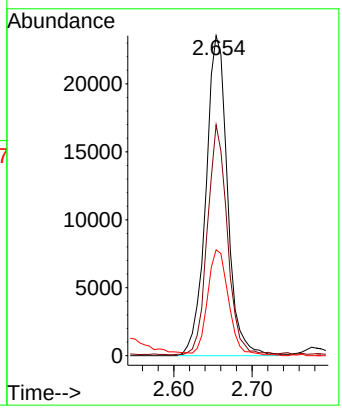




#17
Allyl chloride
Concen: 17.812 ug/l
RT: 2.654 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion: 41 Resp: 4511

Ion	Ratio	Lower	Upper
41	100		
39	71.7	36.2	108.6
76	32.9	17.2	51.5



Instrument :
MSVOA_X
ClientSampleId :
ICVVX022125

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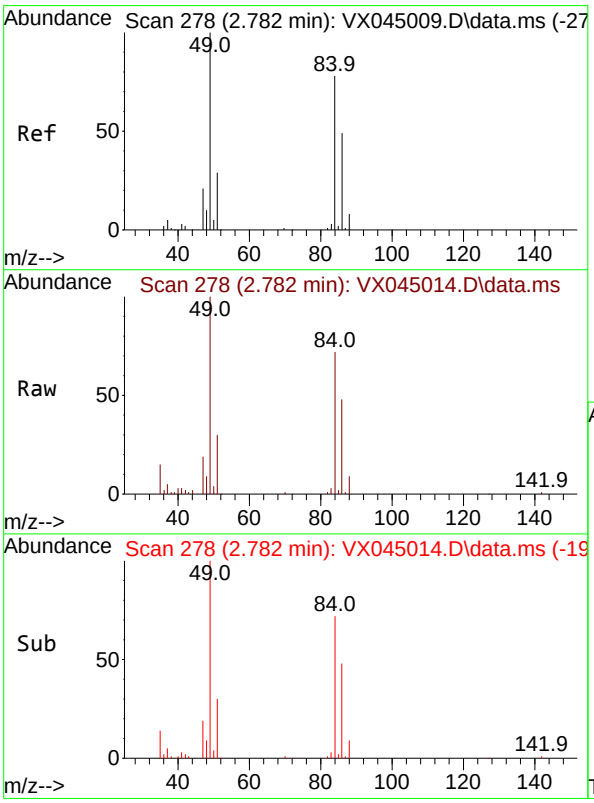
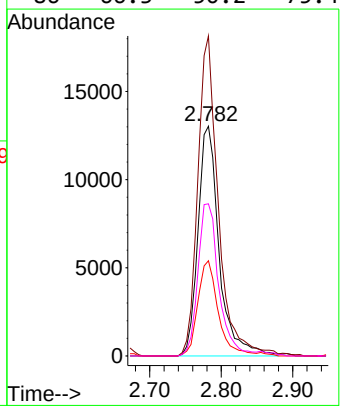
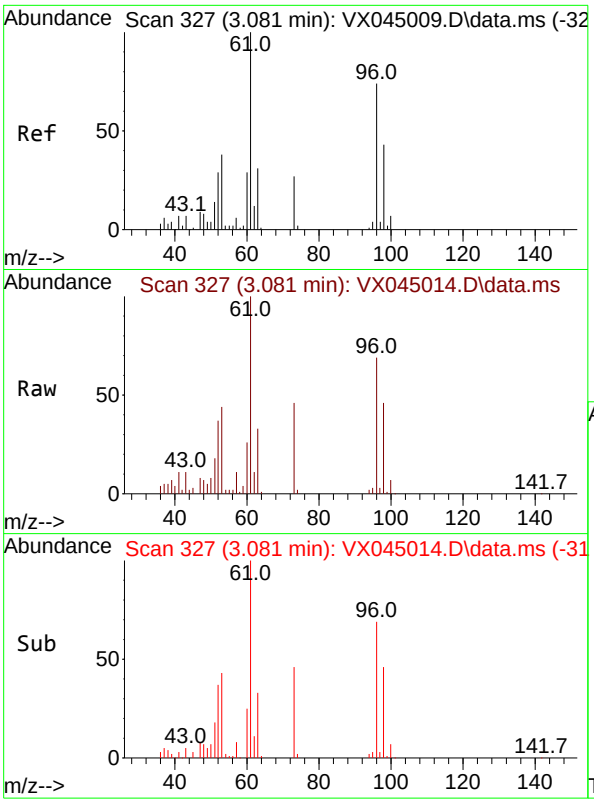


#18
Methylene Chloride
Concen: 17.621 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion: 84 Resp: 26839

Ion	Ratio	Lower	Upper
84	100		
49	139.3	102.8	154.2
51	41.4	30.1	45.1
86	66.3	50.2	75.4

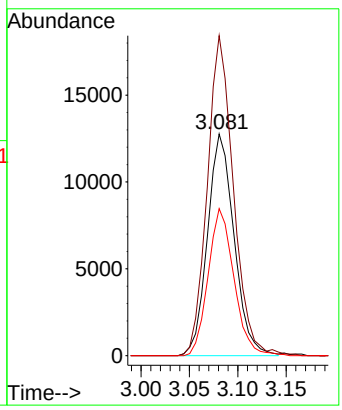




#19
trans-1,2-Dichloroethene
Concen: 17.825 ug/l
RT: 3.081 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion: 96 Resp: 2442

Ion	Ratio	Lower	Upper
96	100		
61	144.3	108.6	163.0
98	66.3	46.5	69.7



Instrument :
MSVOA_X
ClientSampleId :
ICVVX022125

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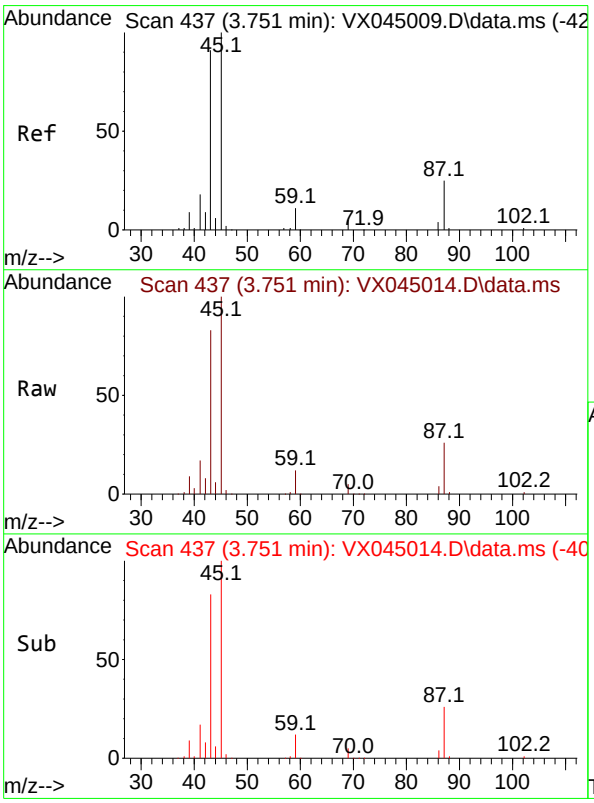
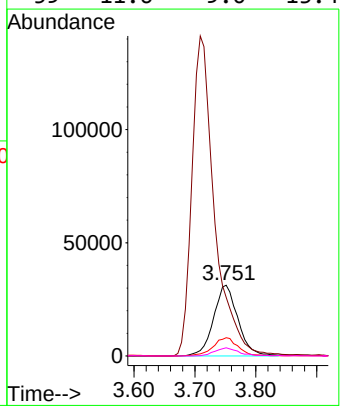
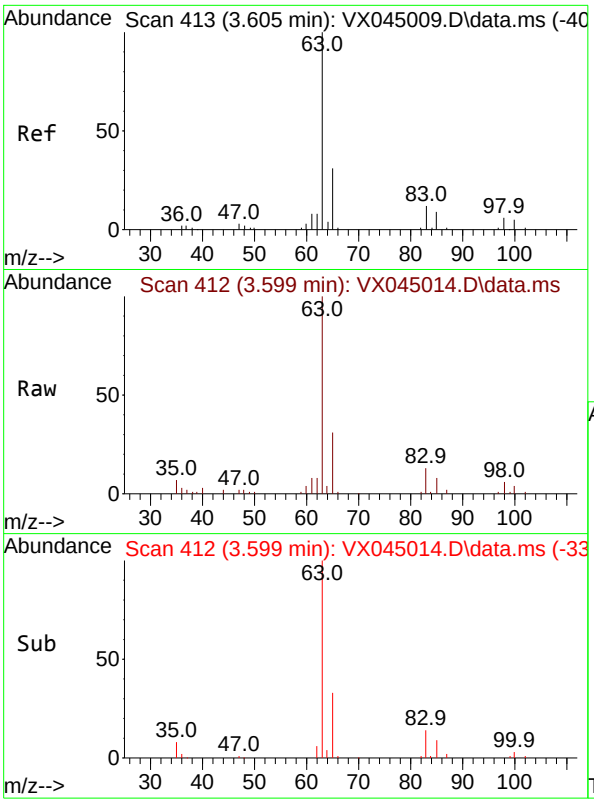


#20
Diisopropyl ether
Concen: 17.850 ug/l
RT: 3.751 min Scan# 437
Delta R.T. -0.000 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion: 45 Resp: 86878

Ion	Ratio	Lower	Upper
45	100		
43	79.8	74.4	111.6
87	25.8	19.8	29.8
59	11.6	9.0	13.4

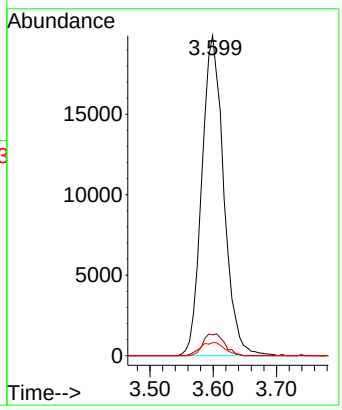




#21
1,1-Dichloroethane
Concen: 17.693 ug/l
RT: 3.599 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion: 63 Resp: 4789

Ion	Ratio	Lower	Upper
63	100		
98	6.5	3.3	9.8
100	4.0	2.4	7.1



Instrument :
MSVOA_X
ClientSampleId :
ICVVX022125

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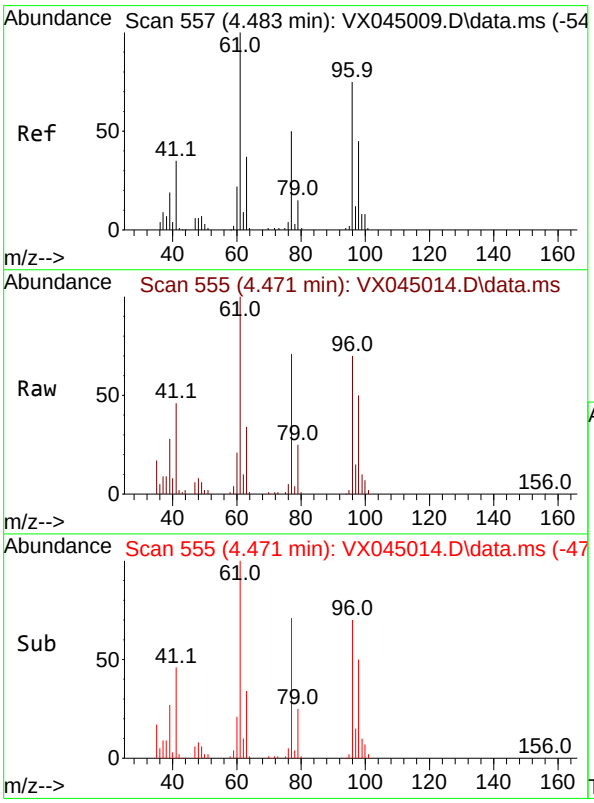
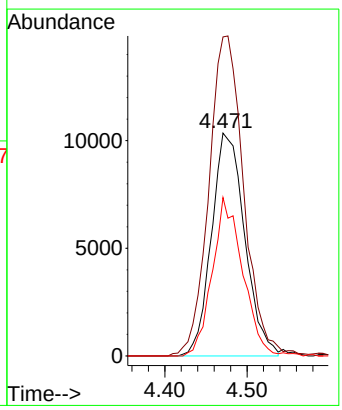
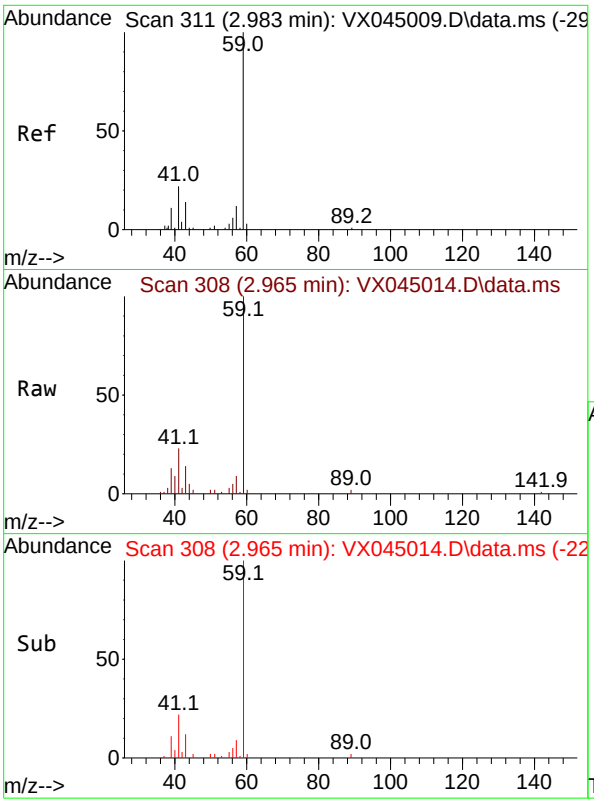


#22
cis-1,2-Dichloroethene
Concen: 17.695 ug/l
RT: 4.471 min Scan# 555
Delta R.T. -0.012 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion: 96 Resp: 29051

Ion	Ratio	Lower	Upper
96	100		
61	149.8	118.9	178.3
98	64.7	50.7	76.1





#23
tert-Butyl Alcohol
Concen: 92.286 ug/l
RT: 2.965 min Scan# 3
Delta R.T. -0.018 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion: 59 Resp: 2474

Ion	Ratio	Lower	Upper
59	100		
52	0.0	0.0	0.0

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022125

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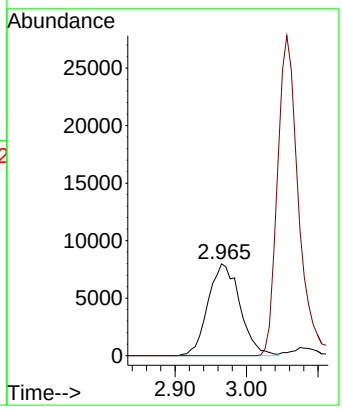
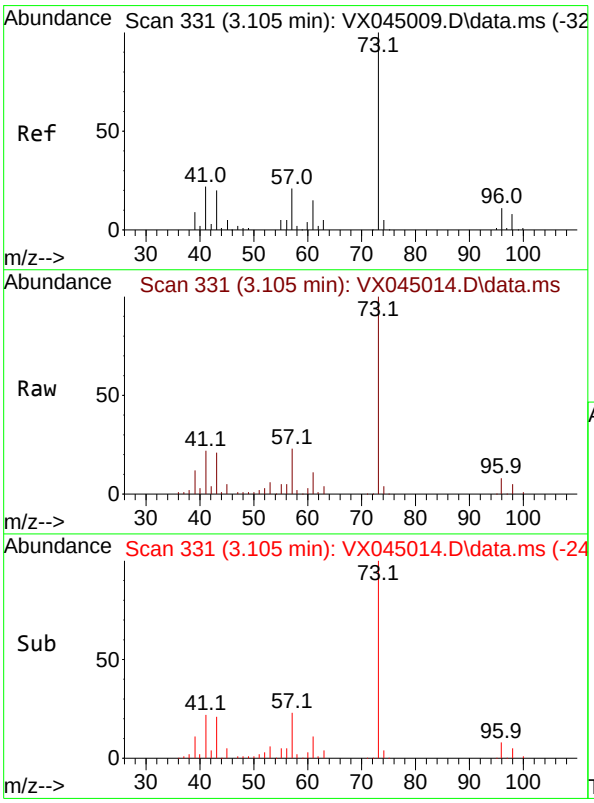
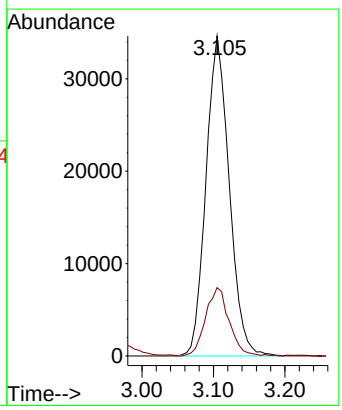


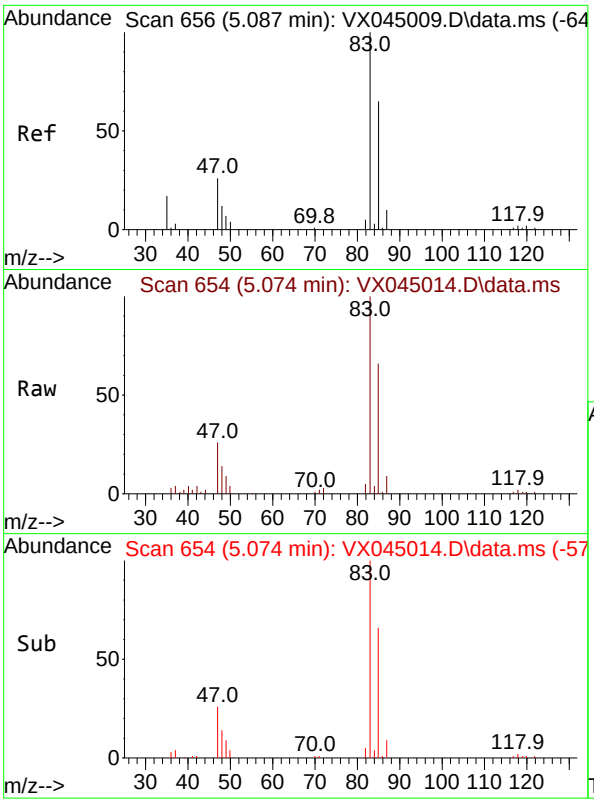


#24
Methyl tert-Butyl Ether
Concen: 17.690 ug/l
RT: 3.105 min Scan# 331
Delta R.T. -0.000 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion: 73 Resp: 78186

Ion	Ratio	Lower	Upper
73	100		
43	21.5	17.4	26.0

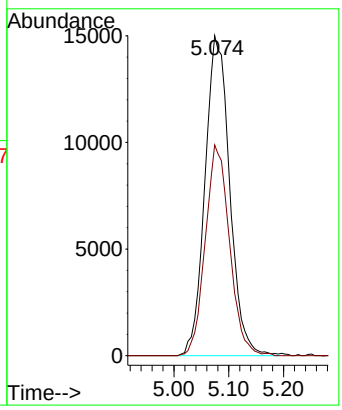




#25
Chloroform
Concen: 17.943 ug/l
RT: 5.074 min Scan# 6
Delta R.T. -0.012 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion: 83 Resp: 4691

Ion	Ratio	Lower	Upper
83	100		
85	65.8	51.7	77.5



Instrument :
MSVOA_X
ClientSampleId :
ICVVX022125

Manual Integrations
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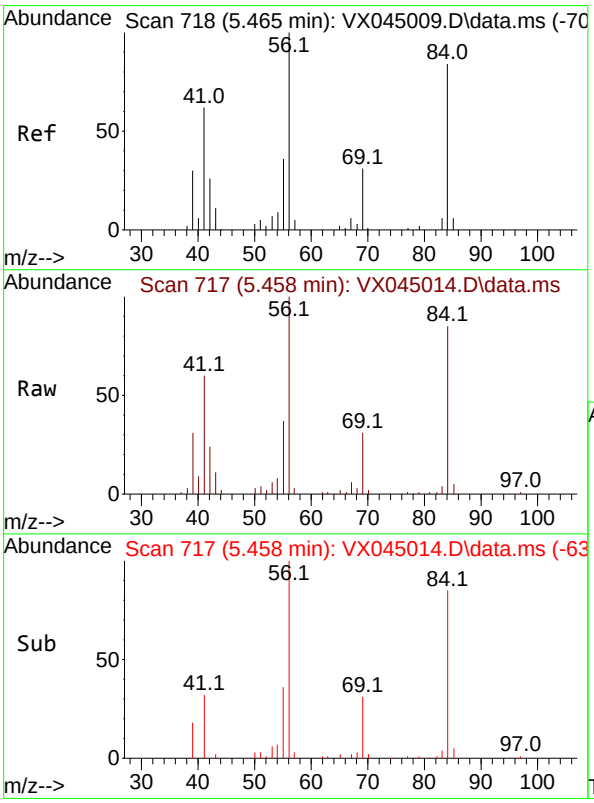
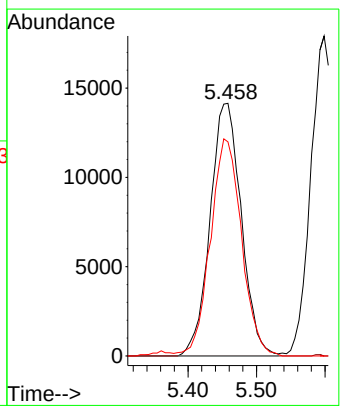
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

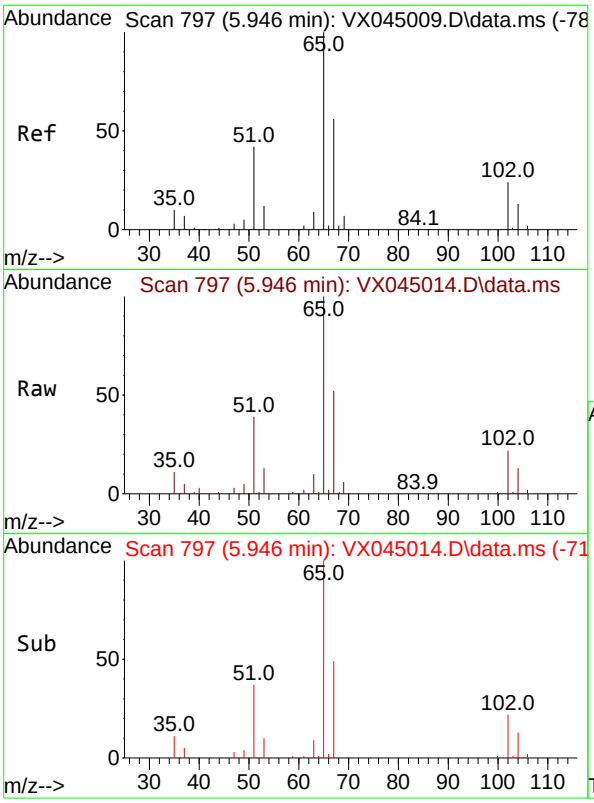


#26
Cyclohexane
Concen: 17.890 ug/l
RT: 5.458 min Scan# 717
Delta R.T. -0.006 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion: 56 Resp: 44699

Ion	Ratio	Lower	Upper
56	100		
89	0.0	0.0	0.0
84	85.8	67.1	100.7





#27
1,2-Dichloroethane-d4
Concen: 29.736 ug/l
RT: 5.946 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion: 65 Resp: 5148

Ion	Ratio	Lower	Upper
65	100		
67	53.2	42.6	64.0

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022125

Manual Integrations
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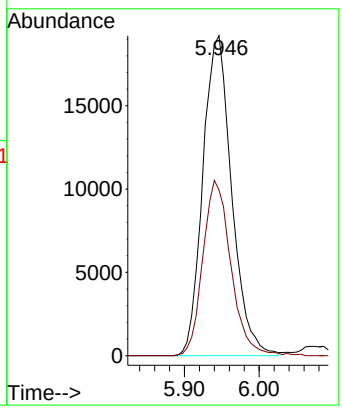
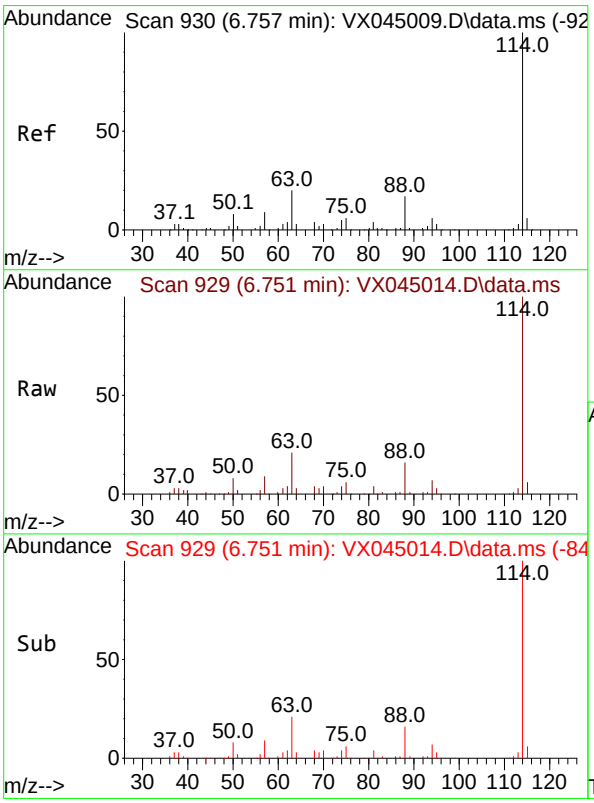
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

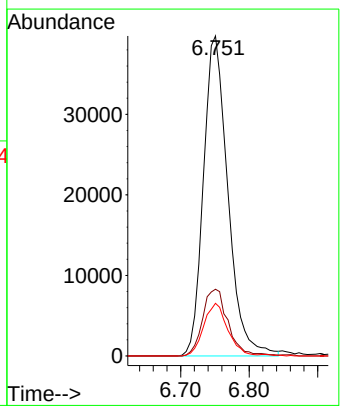


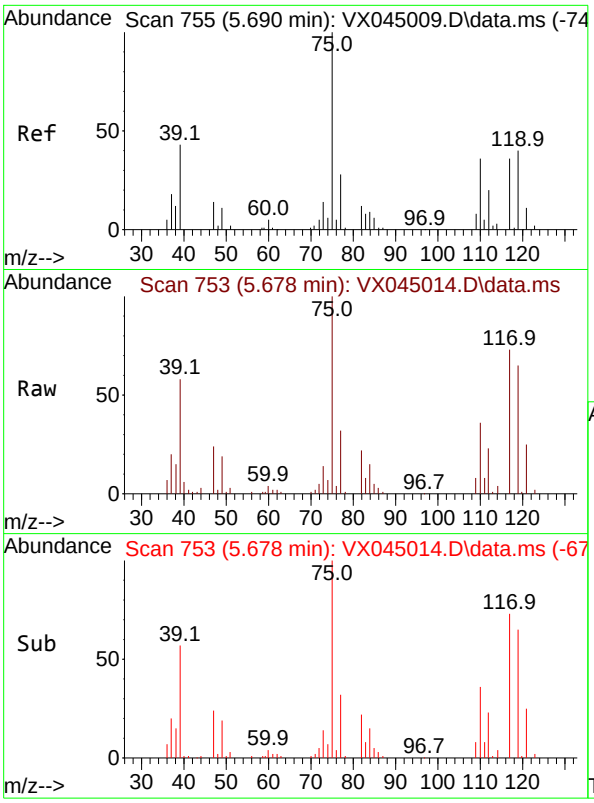


#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. -0.006 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion:114 Resp: 98652

Ion	Ratio	Lower	Upper
114	100		
63	21.3	16.8	25.2
88	16.1	12.7	19.1

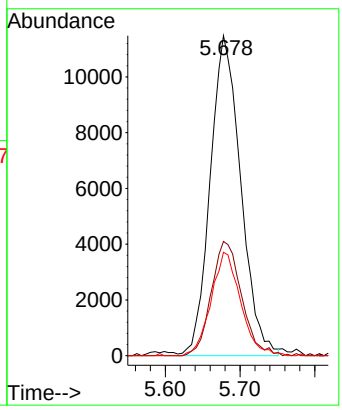




#29
1,1-Dichloropropene
Concen: 17.969 ug/l
RT: 5.678 min Scan# 7
Delta R.T. -0.012 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion: 75 Resp: 3260

Ion	Ratio	Lower	Upper
75	100		
110	35.2	0.0	69.2
77	31.1	0.0	61.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX022125

Manual Integrations
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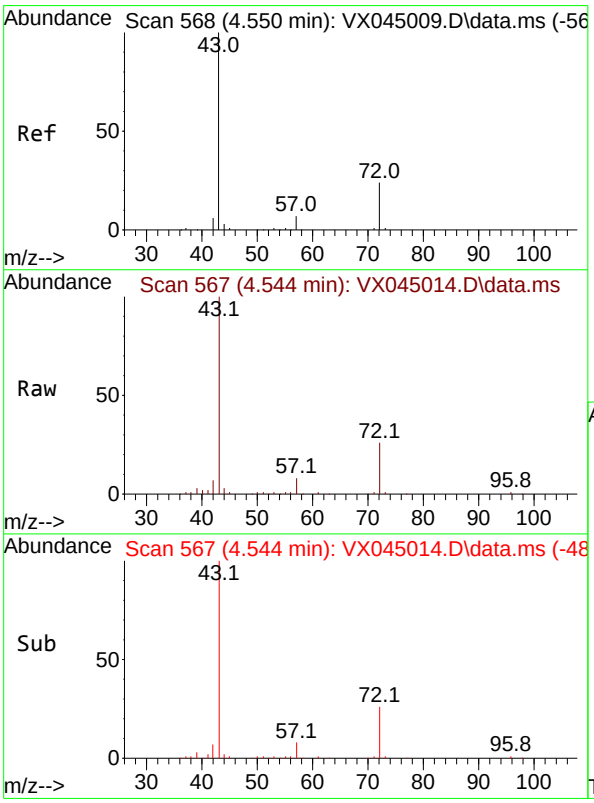
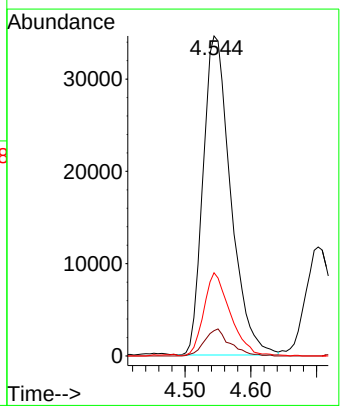
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

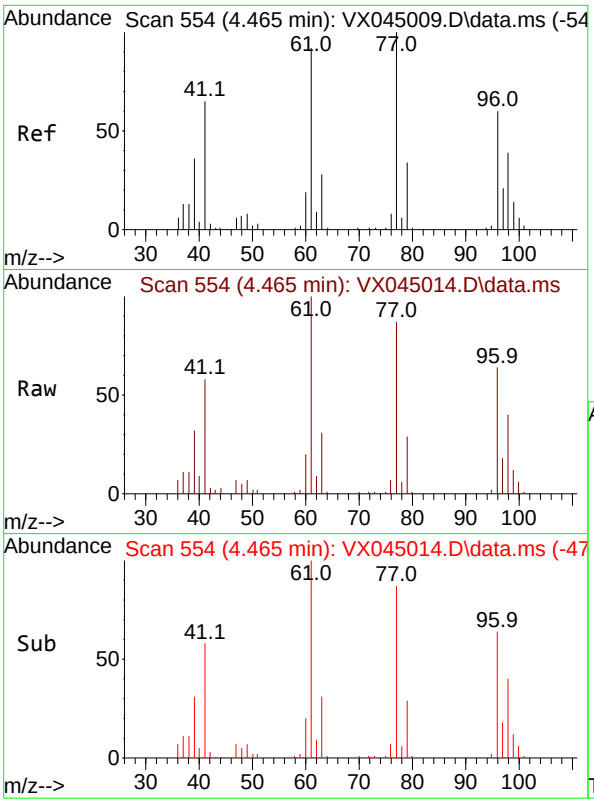


#30
2-Butanone
Concen: 96.206 ug/l
RT: 4.544 min Scan# 567
Delta R.T. -0.006 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion: 43 Resp: 100841

Ion	Ratio	Lower	Upper
43	100		
57	7.8	6.2	9.2
72	24.4	20.2	30.2

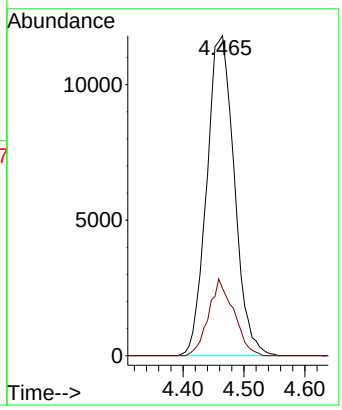




#31
2,2-Dichloropropane
Concen: 18.104 ug/l
RT: 4.465 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion: 77 Resp: 3714

Ion	Ratio	Lower	Upper
77	100		
97	21.9	18.0	27.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX022125

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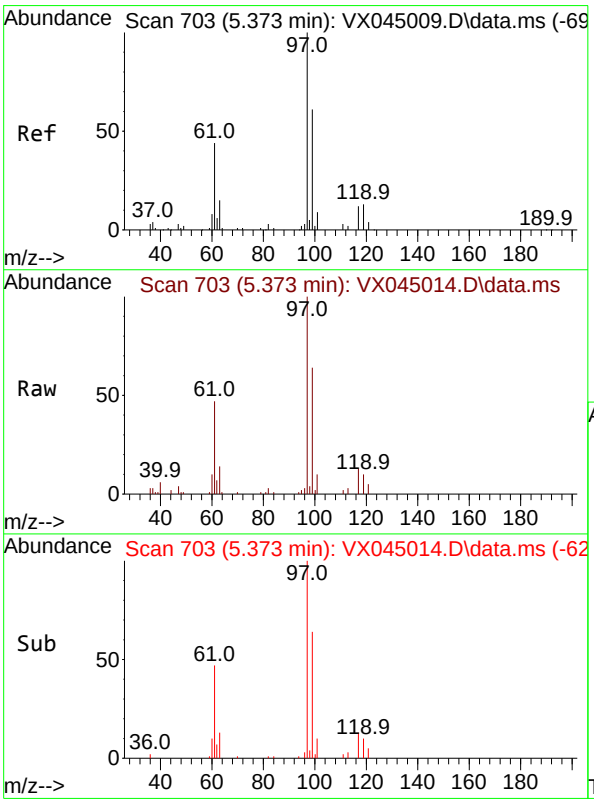
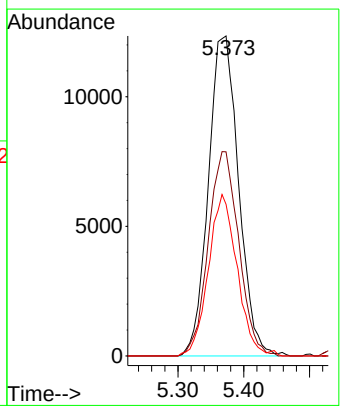
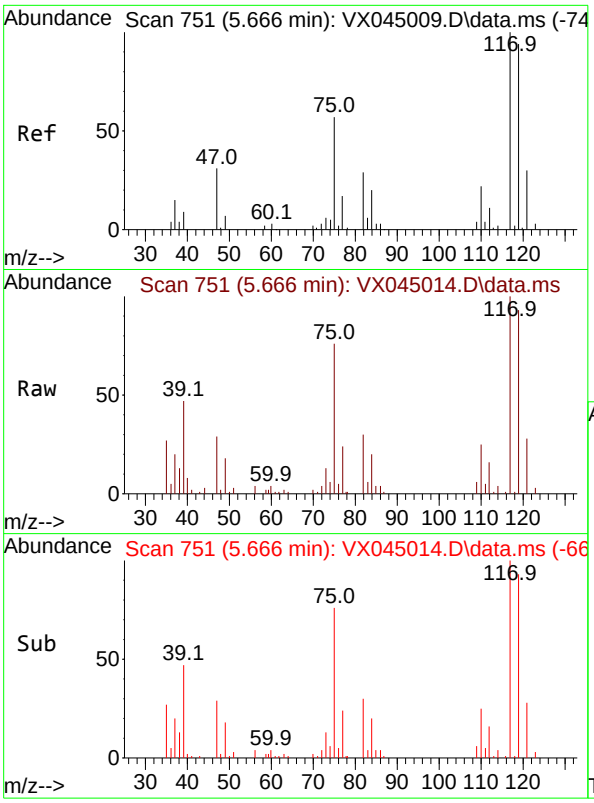


#32
1,1,1-Trichloroethane
Concen: 17.945 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion: 97 Resp: 39458

Ion	Ratio	Lower	Upper
97	100		
99	64.4	52.2	78.2
61	47.7	38.5	57.7

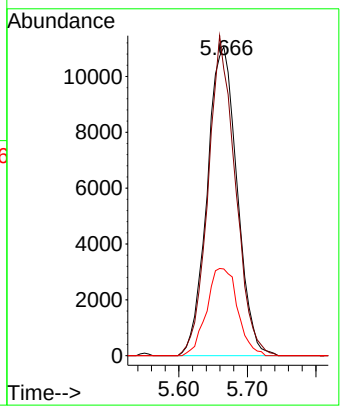




#33
Carbon Tetrachloride
Concen: 18.080 ug/l
RT: 5.666 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion:117 Resp: 3355

Ion	Ratio	Lower	Upper
117	100		
119	92.8	75.1	112.7
121	28.1	23.9	35.9



Instrument :
MSVOA_X
ClientSampleId :
ICVVX022125

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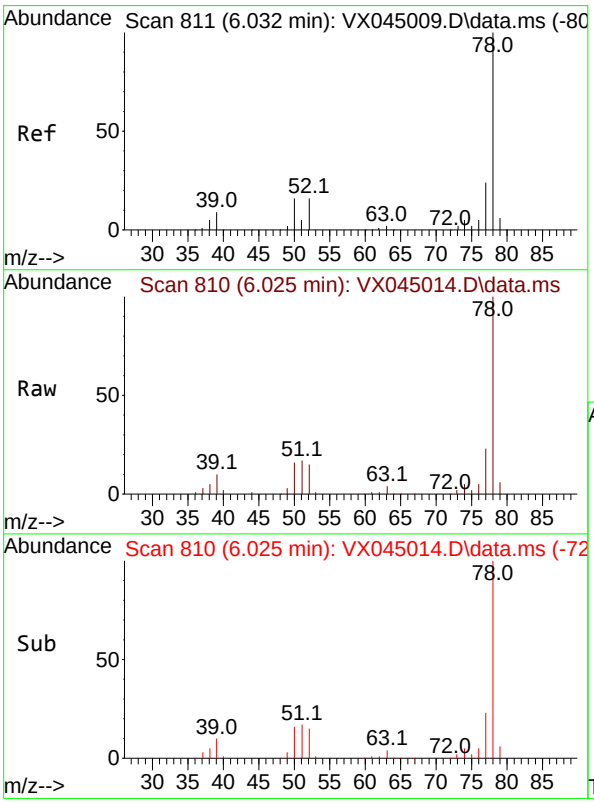
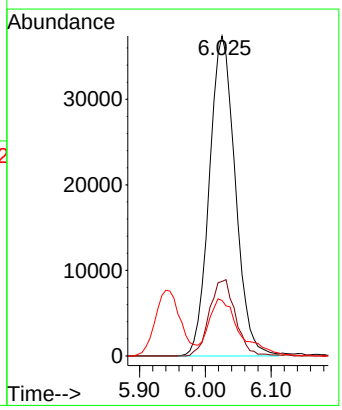
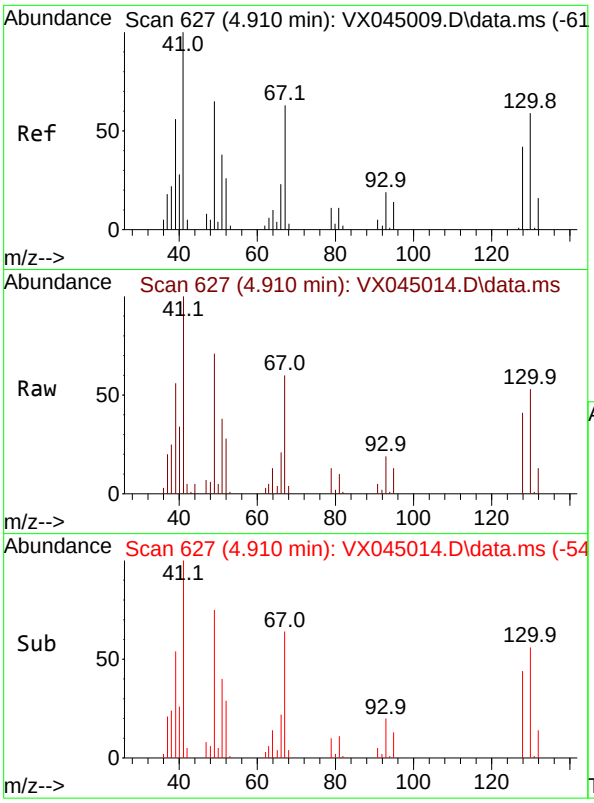


#34
Benzene
Concen: 18.013 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.006 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion: 78 Resp: 102508

Ion	Ratio	Lower	Upper
78	100		
77	23.3	19.6	29.4
51	16.4	13.8	20.6

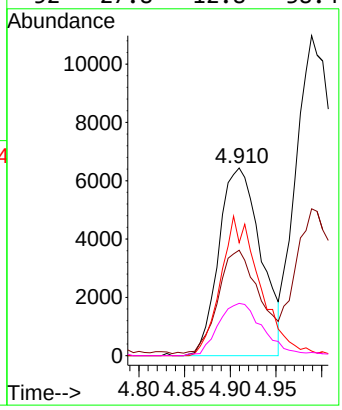




#35
Methacrylonitrile
Concen: 18.343 ug/l
RT: 4.910 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion: 41 Resp: 2057

Ion	Ratio	Lower	Upper
41	100		
39	54.4	27.8	83.4
67	60.2	31.5	94.5
52	27.8	12.8	38.4



Instrument :
MSVOA_X
ClientSampleId :
ICVVX022125

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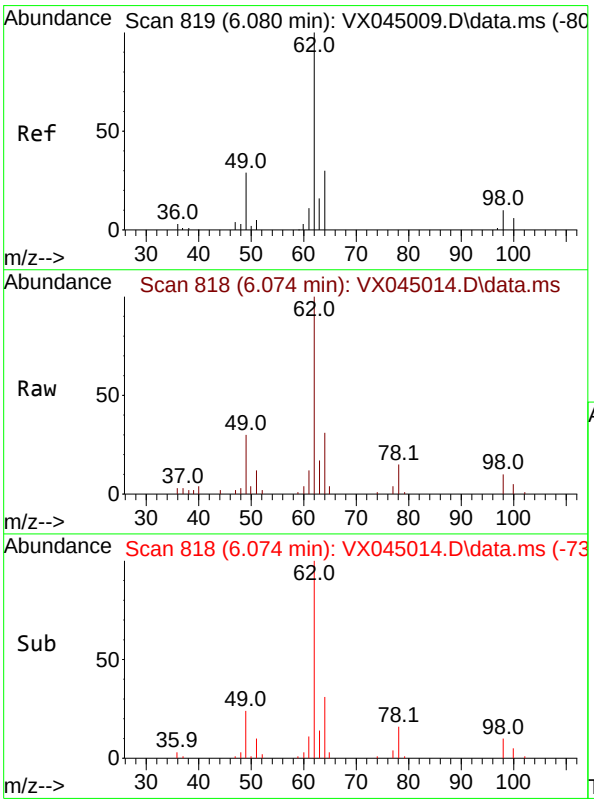
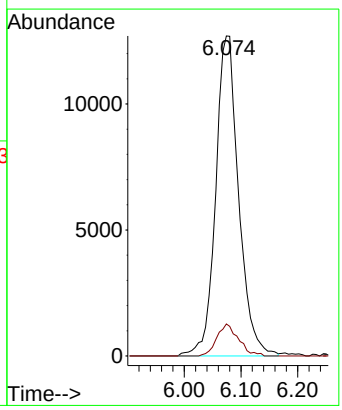
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

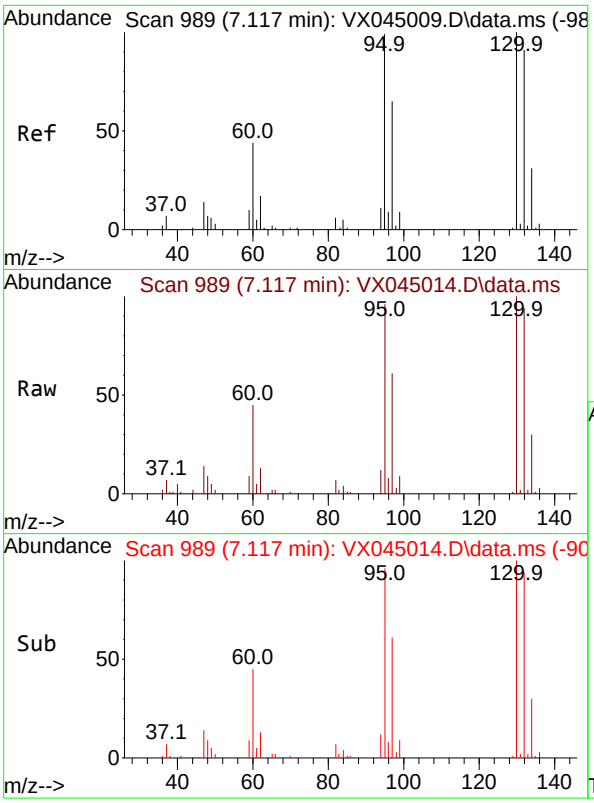


#36
1,2-Dichloroethane
Concen: 18.316 ug/l
RT: 6.074 min Scan# 818
Delta R.T. -0.006 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion: 62 Resp: 35686

Ion	Ratio	Lower	Upper
62	100		
98	9.4	7.9	11.9

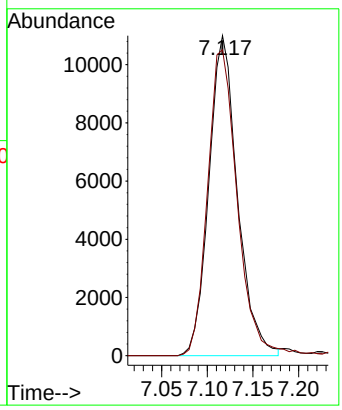




#37
Trichloroethene
Concen: 17.933 ug/l
RT: 7.117 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion:130 Resp: 2387

Ion	Ratio	Lower	Upper
130	100		
95	95.6	79.0	118.4



Instrument :
MSVOA_X
ClientSampleId :
ICVVX022125

Manual Integrations
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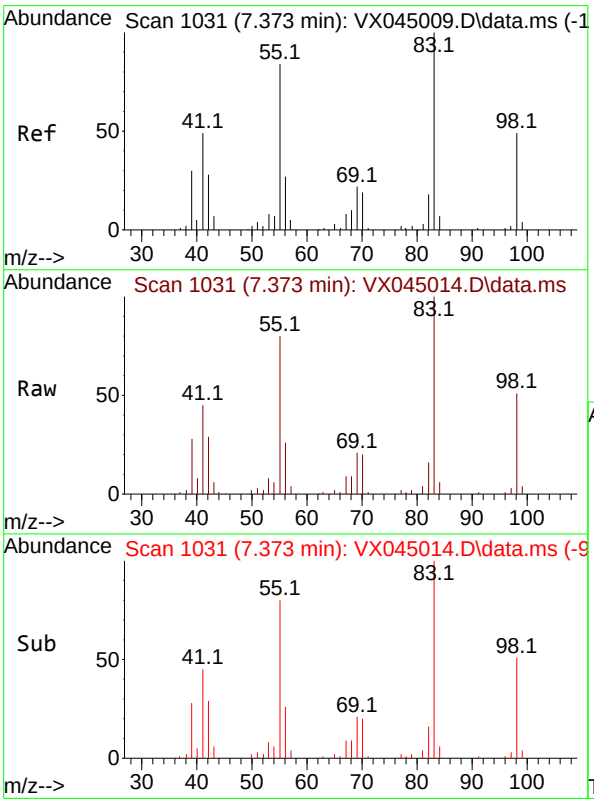
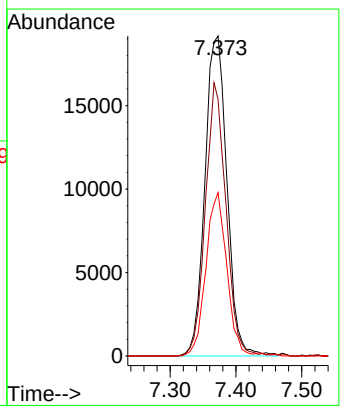
Supervised By :Mahesh Dadoda 02/24/2025

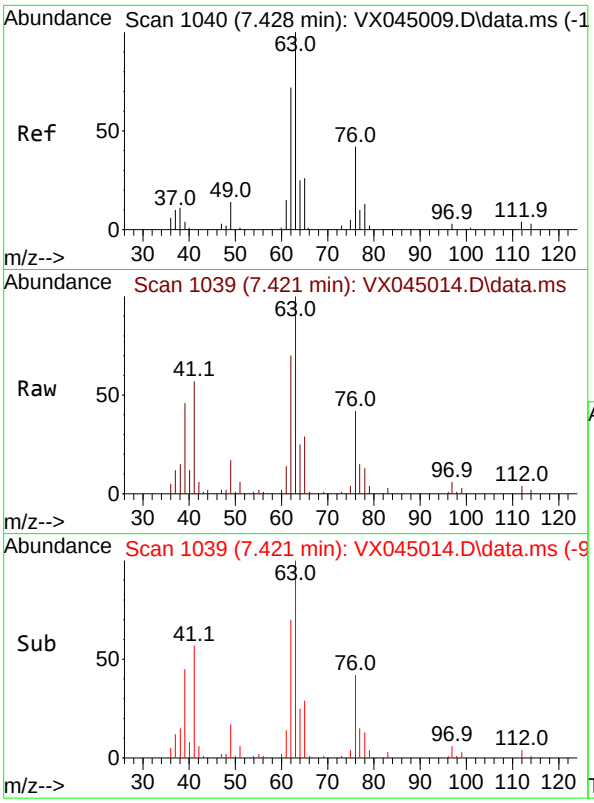


#38
Methylcyclohexane
Concen: 18.370 ug/l
RT: 7.373 min Scan# 1031
Delta R.T. -0.000 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion: 83 Resp: 44760

Ion	Ratio	Lower	Upper
83	100		
55	79.4	40.6	122.0
98	48.2	24.9	74.6

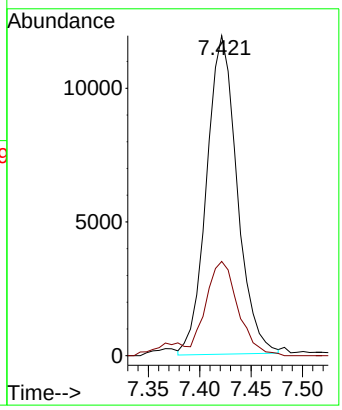




#39
1,2-Dichloropropane
Concen: 17.406 ug/l
RT: 7.421 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion: 63 Resp: 2462

Ion	Ratio	Lower	Upper
63	100		
65	29.2	24.3	36.5



Instrument :
MSVOA_X
ClientSampleId :
ICVVX022125

Manual Integrations
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Reviewed By :John Carlone 02/24/2025
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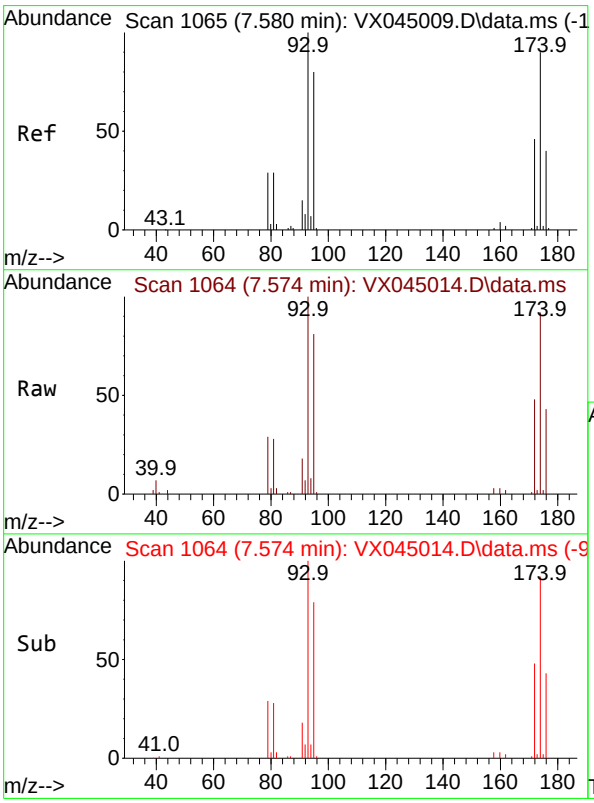
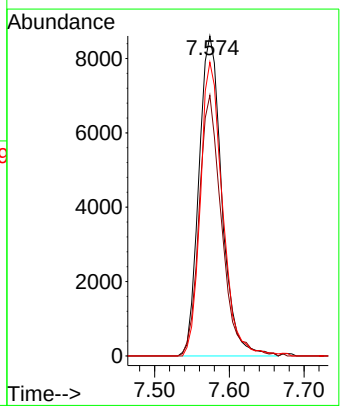
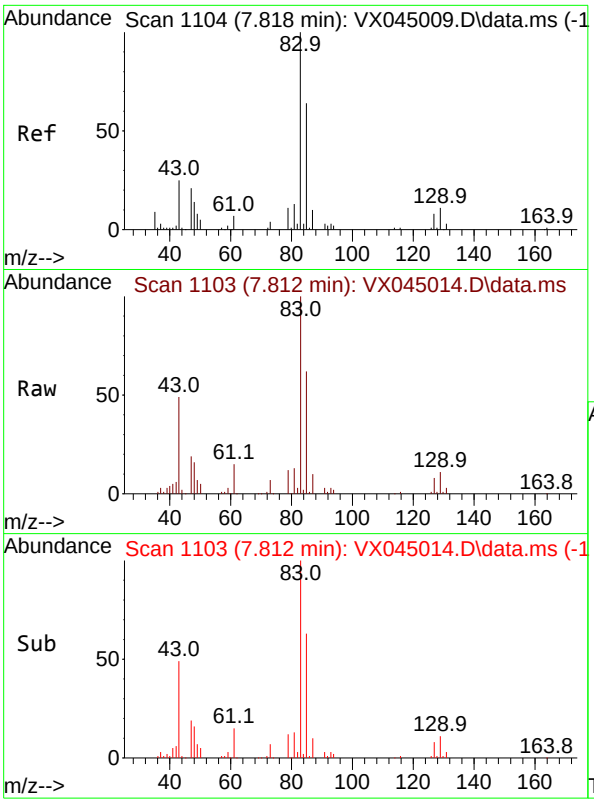


#40
Dibromomethane
Concen: 18.010 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. -0.006 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion: 93 Resp: 18285

Ion	Ratio	Lower	Upper
93	100		
95	79.9	0.0	162.6
174	88.9	0.0	178.8

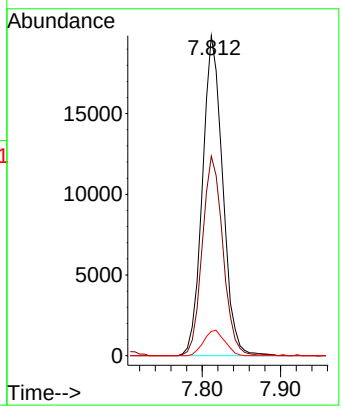




#41
Bromodichloromethane
Concen: 17.645 ug/l
RT: 7.812 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion: 83 Resp: 3560

Ion	Ratio	Lower	Upper
83	100		
85	62.3	51.0	76.6
127	7.6	6.1	9.1



Instrument :
MSVOA_X
ClientSampleId :
ICVVX022125

Manual Integrations
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Reviewed By :John Carlone 02/24/2025
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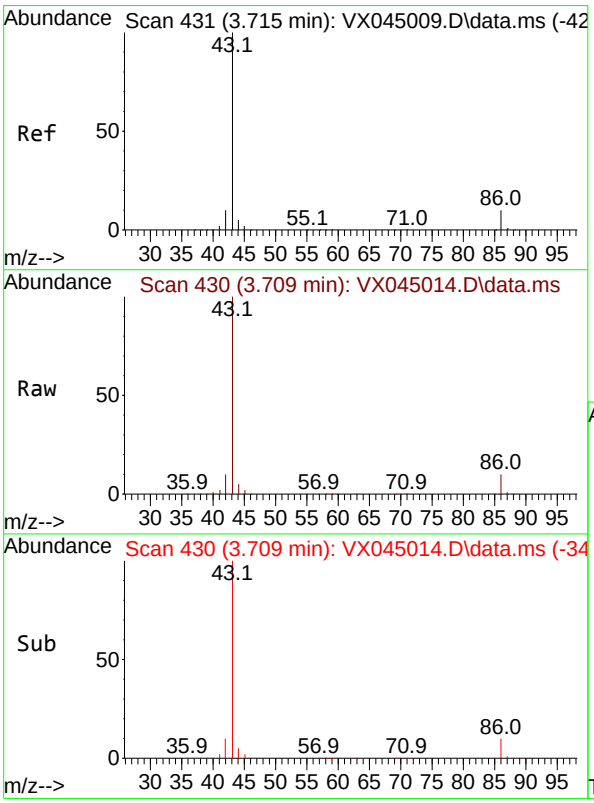
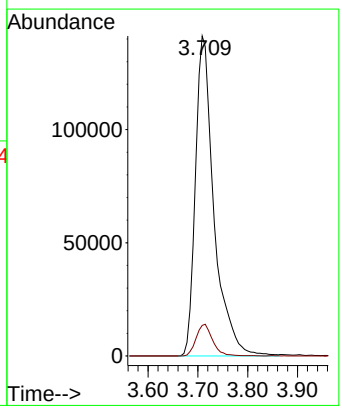
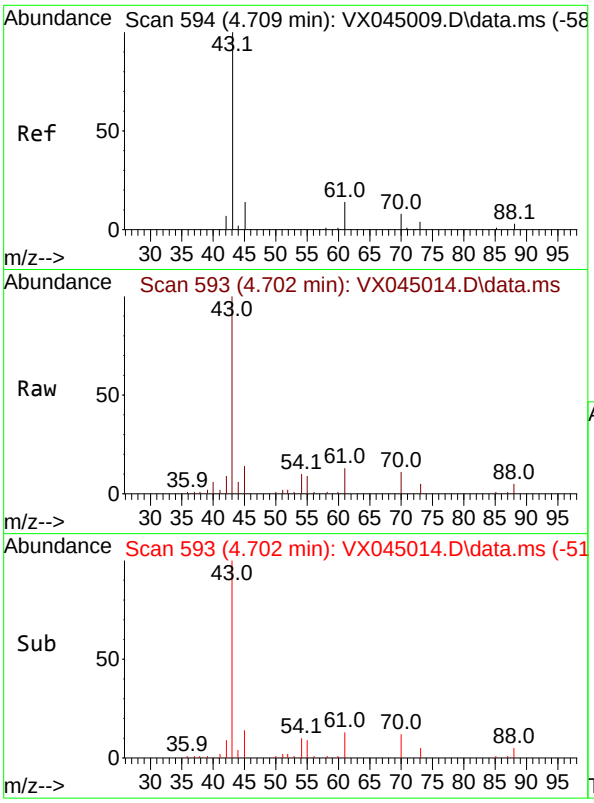


#42
Vinyl Acetate
Concen: 89.973 ug/l
RT: 3.709 min Scan# 430
Delta R.T. -0.006 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion: 43 Resp: 365963

Ion	Ratio	Lower	Upper
43	100		
86	8.7	7.0	10.4





#43
Ethyl Acetate
Concen: 17.072 ug/l
RT: 4.702 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion: 43 Resp: 3355

Ion	Ratio	Lower	Upper
43	100		
45	15.7	12.7	19.1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022125

Manual Integrations
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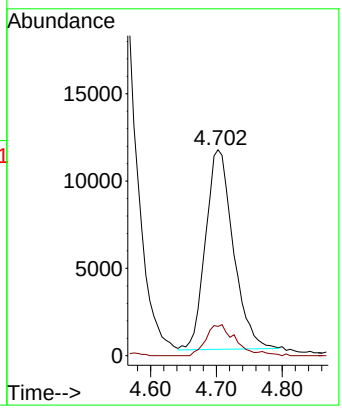
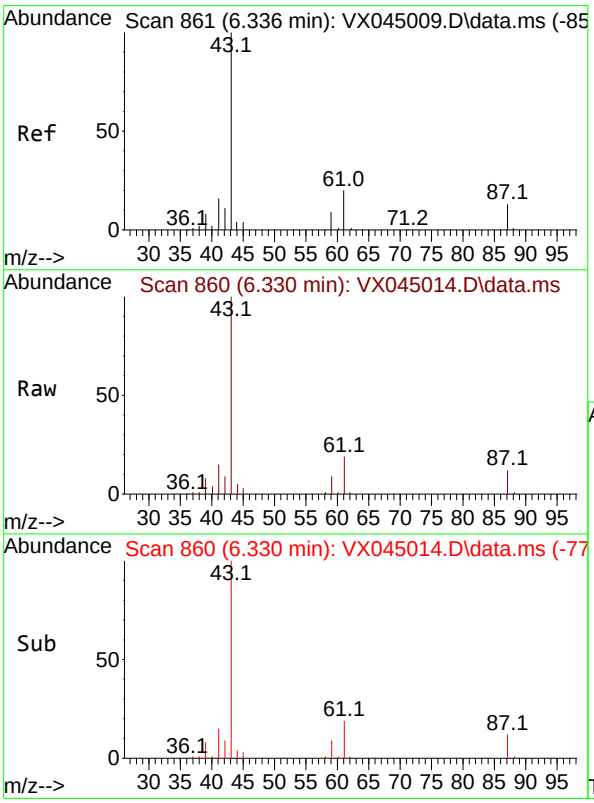
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

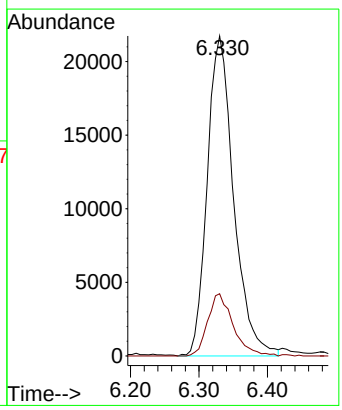


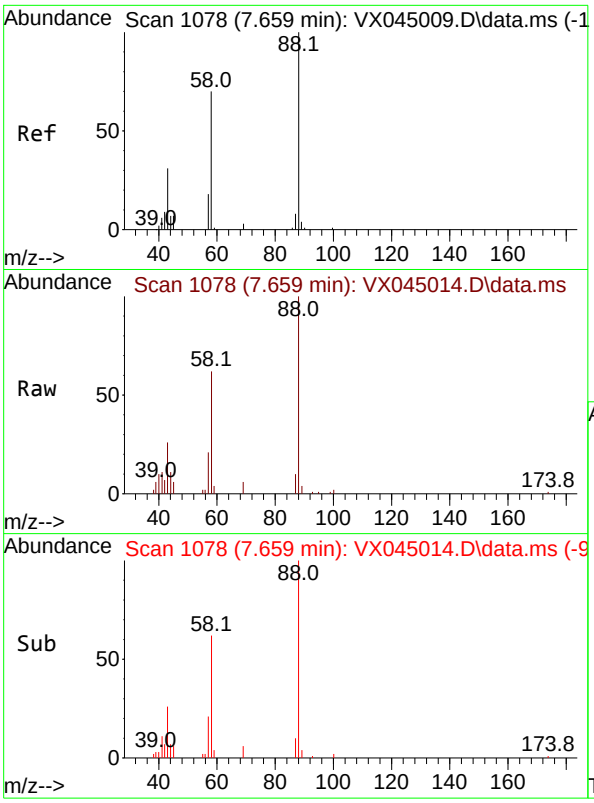


#44
Isopropyl Acetate
Concen: 17.994 ug/l
RT: 6.330 min Scan# 860
Delta R.T. -0.006 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion: 43 Resp: 58216

Ion	Ratio	Lower	Upper
43	100		
61	18.7	15.5	23.3





#45
1,4-Dioxane
Concen: 376.282 ug/l
RT: 7.659 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

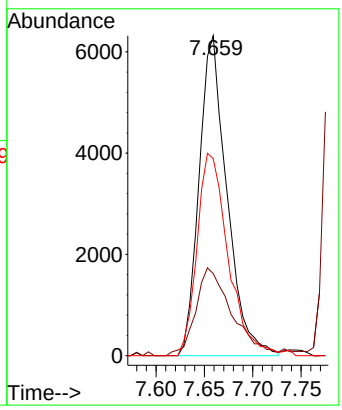
Tgt Ion: 88 Resp: 1265

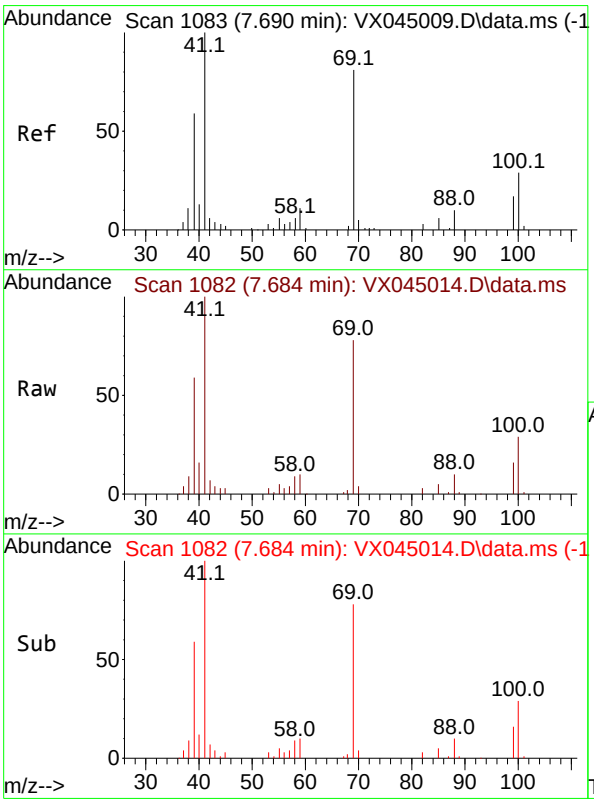
Ion	Ratio	Lower	Upper
88	100		
43	35.5	29.6	44.4
58	70.6	56.2	84.4

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022125

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

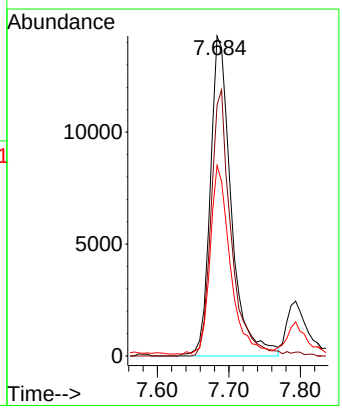


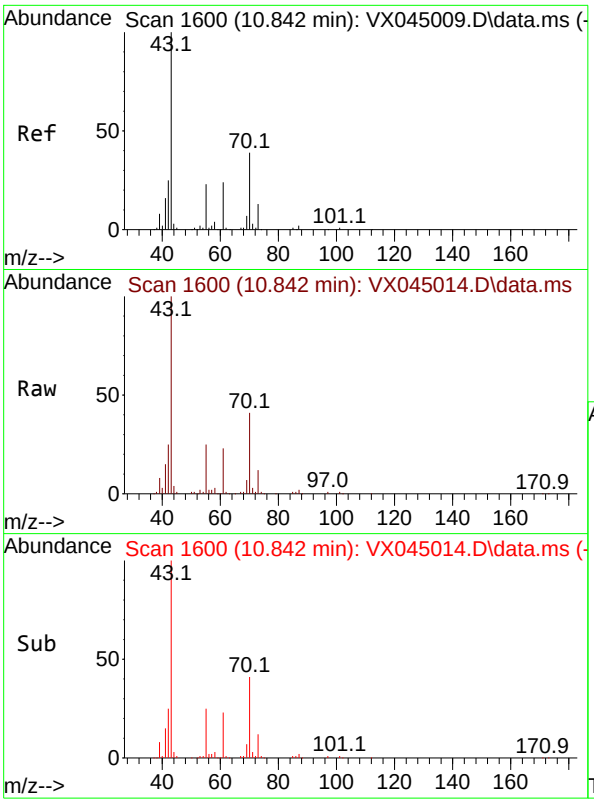


#46
Methyl methacrylate
Concen: 18.320 ug/l
RT: 7.684 min Scan# 1082
Delta R.T. -0.006 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion: 41 Resp: 29063

Ion	Ratio	Lower	Upper
41	100		
69	78.5	40.7	122.1
39	58.8	29.5	88.5





#47
n-amyl Acetate
Concen: 17.920 ug/l
RT: 10.842 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion: 43 Resp: 5030

Ion	Ratio	Lower	Upper
43	100		
55	23.8	18.6	27.8

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022125

Manual Integrations
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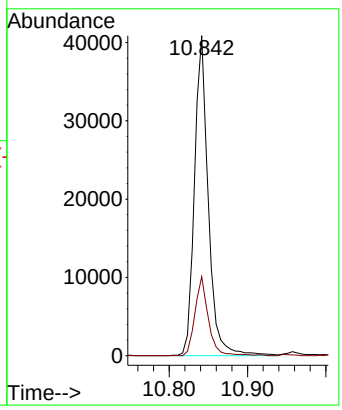
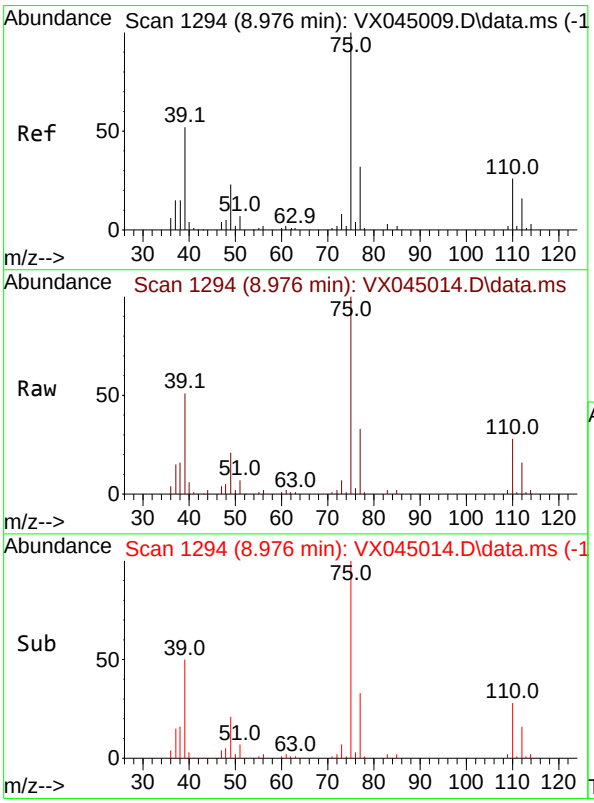
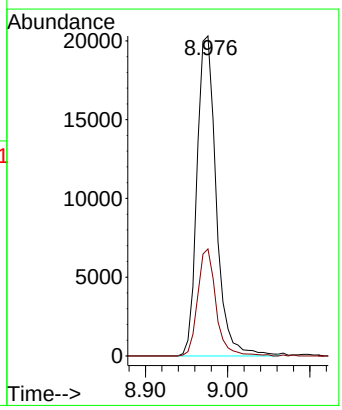


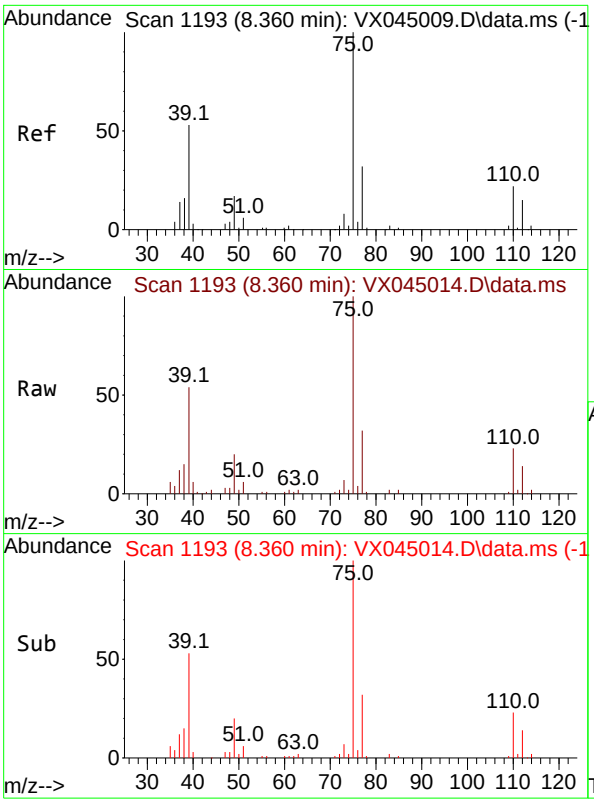


#48
t-1,3-Dichloropropene
Concen: 16.972 ug/l
RT: 8.976 min Scan# 1294
Delta R.T. -0.000 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion: 75 Resp: 33010

Ion	Ratio	Lower	Upper
75	100		
77	33.5	25.7	38.5

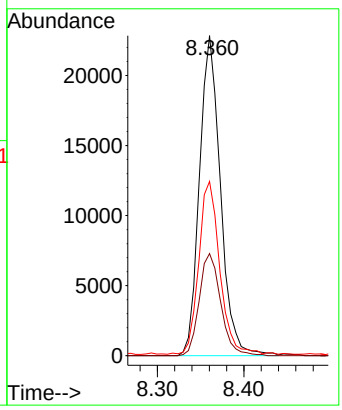




#49
cis-1,3-Dichloropropene
Concen: 17.491 ug/l
RT: 8.360 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion: 75 Resp: 3851

Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.9	38.9
39	54.0	42.3	63.5



Instrument :
MSVOA_X
ClientSampleId :
ICVVX022125

Manual Integrations
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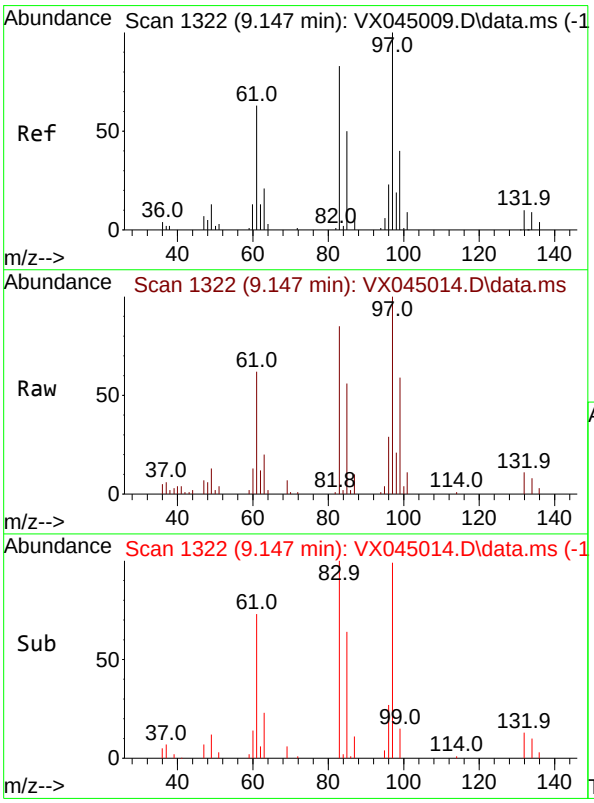
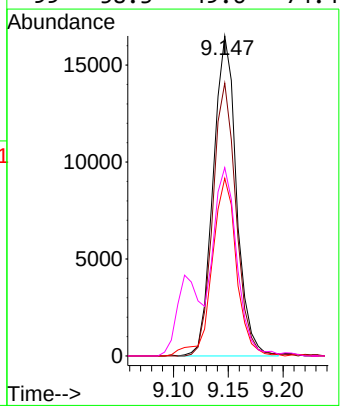
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

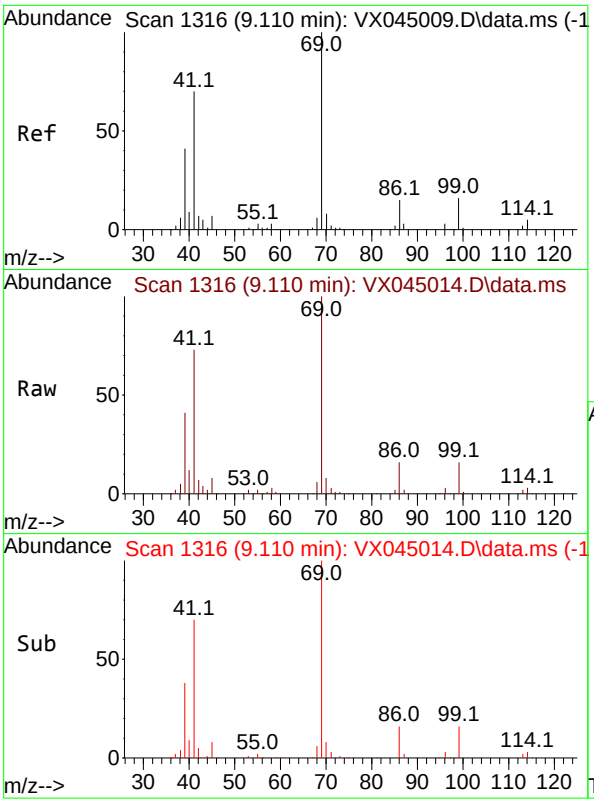


#50
1,1,2-Trichloroethane
Concen: 18.451 ug/l
RT: 9.147 min Scan# 1322
Delta R.T. -0.000 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion: 97 Resp: 24435

Ion	Ratio	Lower	Upper
97	100		
83	85.2	66.0	99.0
85	55.1	42.5	63.7
99	58.3	49.6	74.4

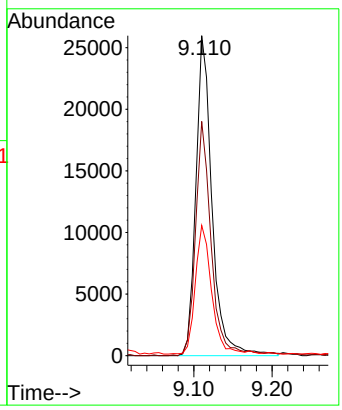




#51
Ethyl methacrylate
Concen: 17.882 ug/l
RT: 9.110 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion: 69 Resp: 3724

Ion	Ratio	Lower	Upper
69	100		
41	73.2	35.1	105.3
39	40.1	20.5	61.6



Instrument :
MSVOA_X
ClientSampleId :
ICVVX022125

Manual Integrations
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Reviewed By :John Carlone 02/24/2025
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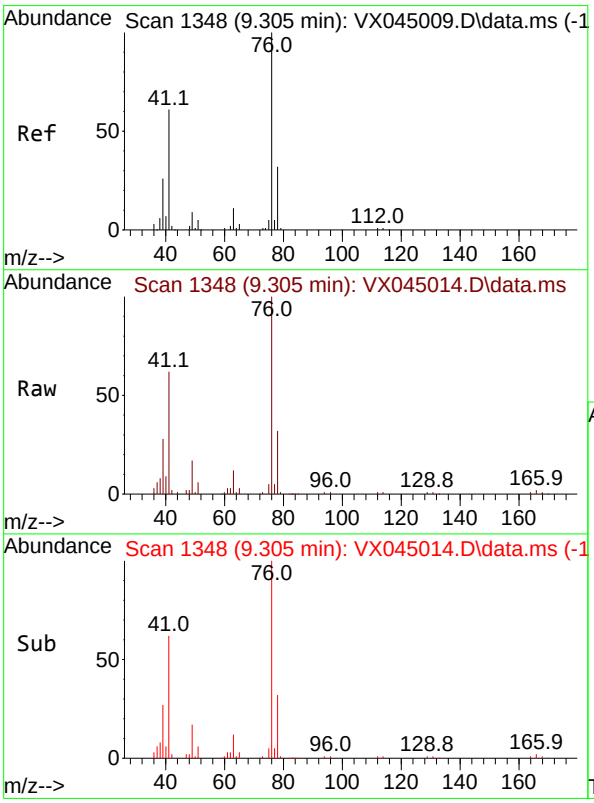
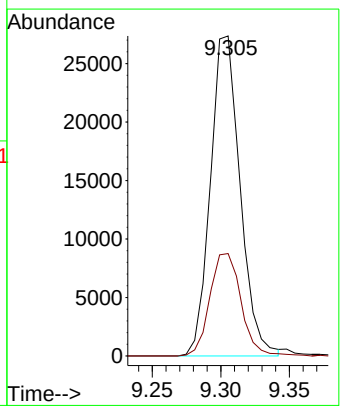
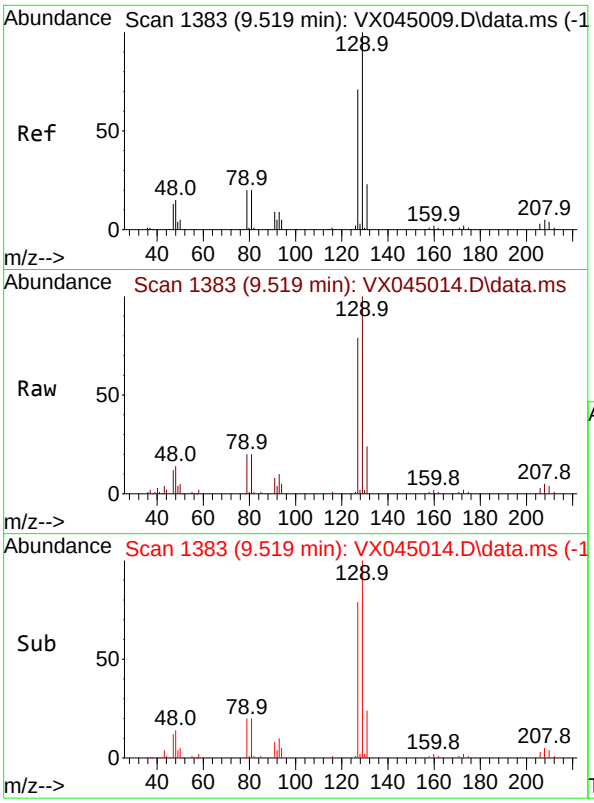


#52
1,3-Dichloropropane
Concen: 17.765 ug/l
RT: 9.305 min Scan# 1348
Delta R.T. -0.000 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion: 76 Resp: 41224

Ion	Ratio	Lower	Upper
76	100		
78	33.7	0.0	63.6

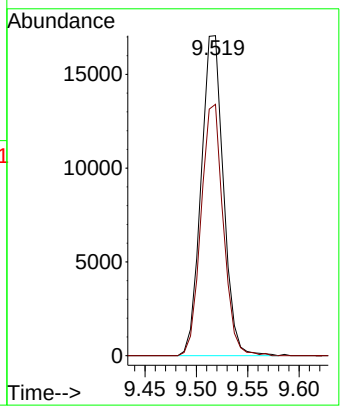




#53
Dibromochloromethane
Concen: 17.620 ug/l
RT: 9.519 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion:129 Resp: 2580

Ion	Ratio	Lower	Upper
129	100		
127	78.1	37.3	111.9



Instrument :
MSVOA_X
ClientSampleId :
ICVVX022125

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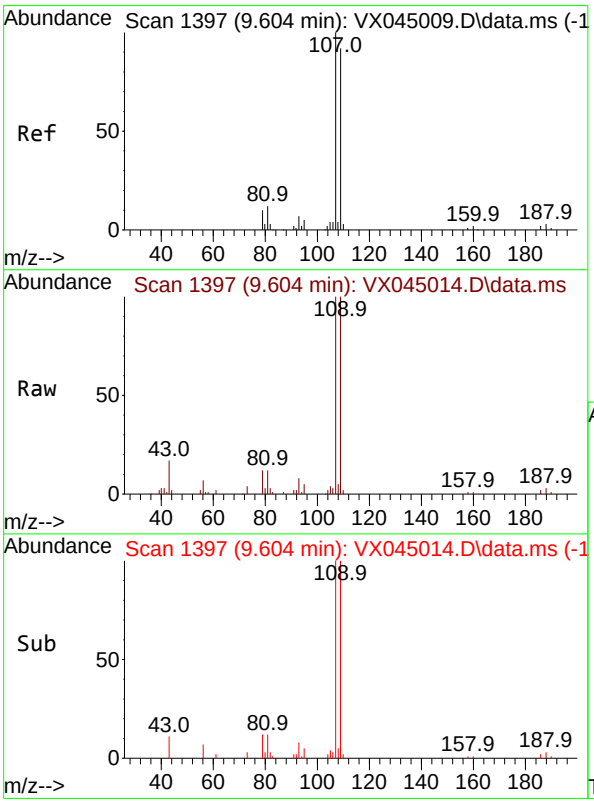
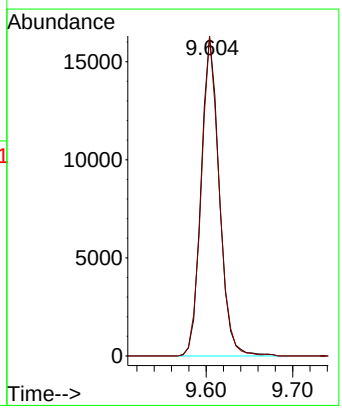
Supervised By :Mahesh Dadoda 02/24/2025

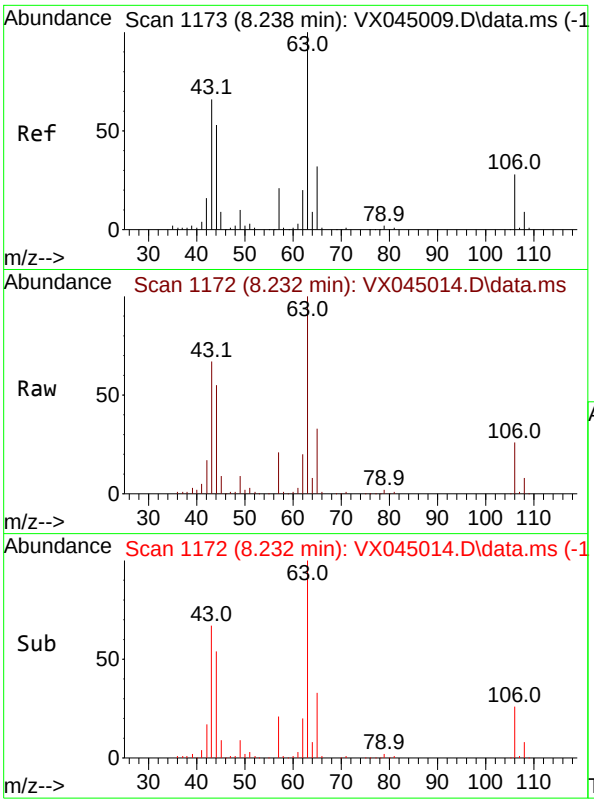


#54
1,2-Dibromoethane
Concen: 17.616 ug/l
RT: 9.604 min Scan# 1397
Delta R.T. -0.000 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion:107 Resp: 23689

Ion	Ratio	Lower	Upper
107	100		
109	98.5	75.8	113.8

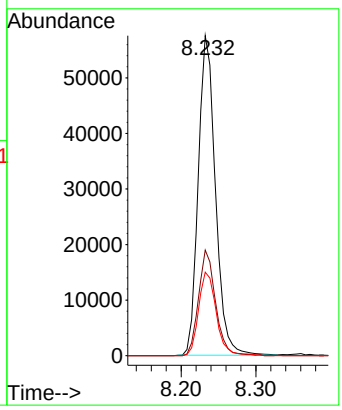




#55
2-Chloroethyl vinyl ether
Concen: 85.929 ug/l
RT: 8.232 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion: 63 Resp: 9190

Ion	Ratio	Lower	Upper
63	100		
65	32.6	26.2	39.2
106	26.5	21.2	31.8



Instrument :
MSVOA_X
ClientSampleId :
ICVVX022125

Manual Integrations
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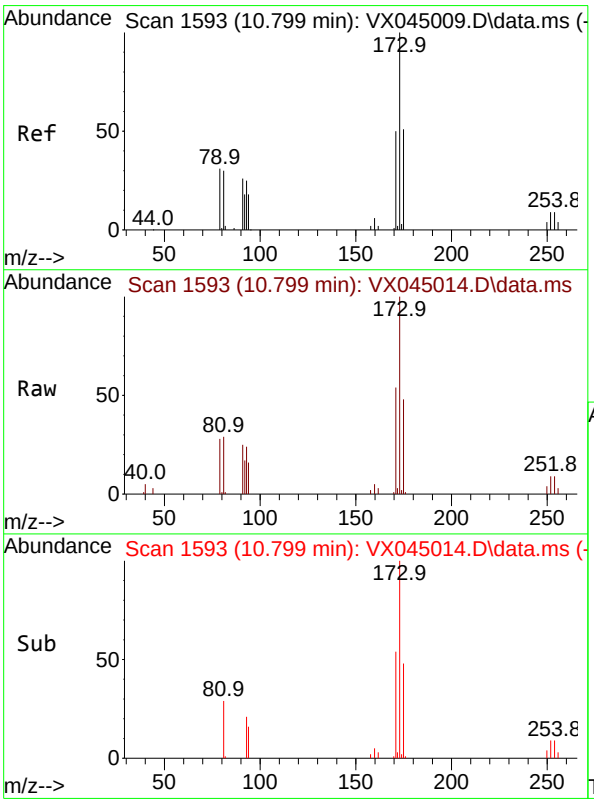
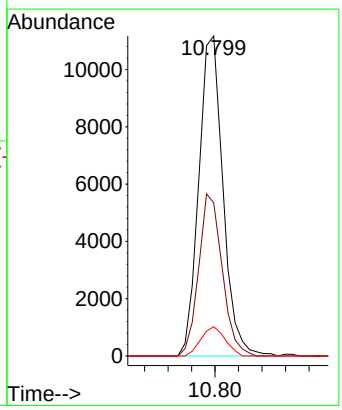
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

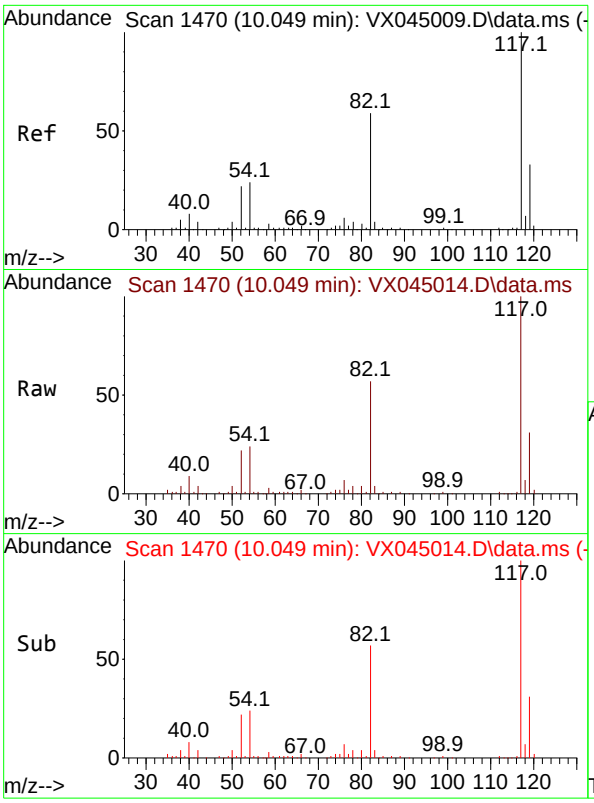


#56
Bromoform
Concen: 17.412 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. -0.000 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion:173 Resp: 15981

Ion	Ratio	Lower	Upper
173	100		
175	49.3	39.6	59.4
254	9.1	6.3	9.5





#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion:117 Resp: 9063

Ion	Ratio	Lower	Upper
117	100		
82	57.1	45.8	68.8
119	31.7	25.5	38.3

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022125

Manual Integrations
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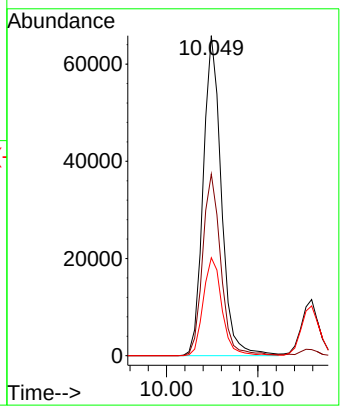
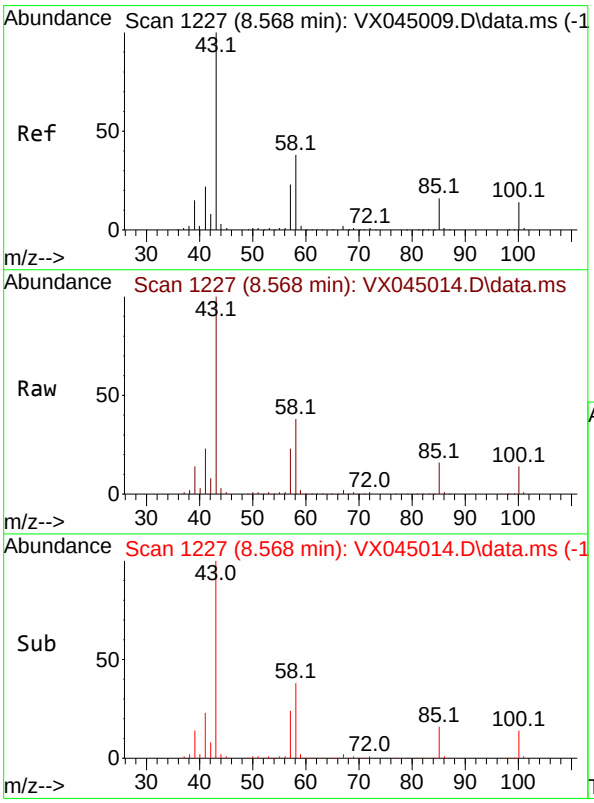
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

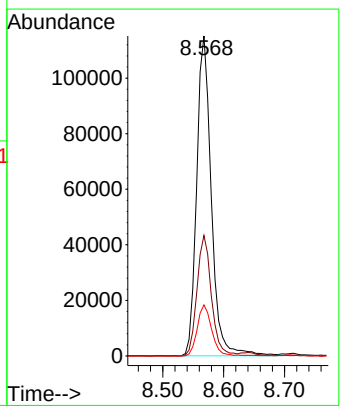


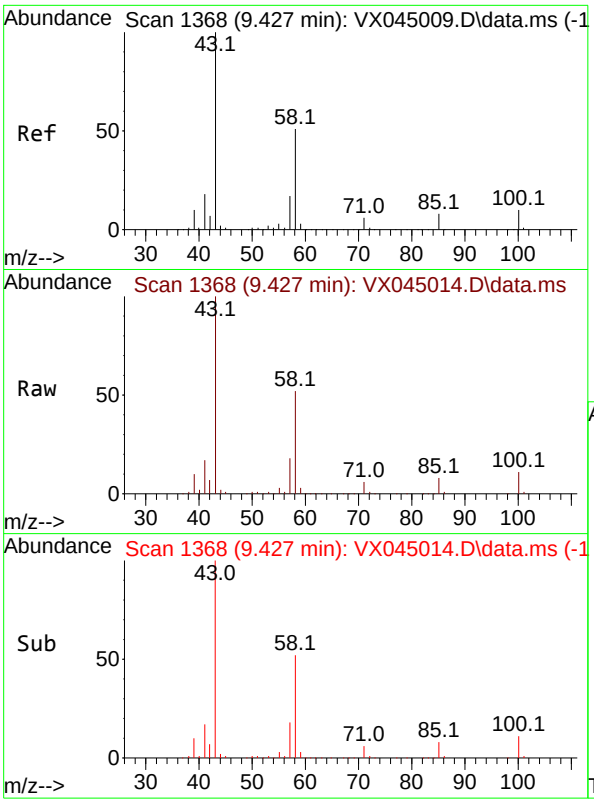


#58
4-Methyl-2-Pentanone
Concen: 93.175 ug/l
RT: 8.568 min Scan# 1227
Delta R.T. -0.000 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion: 43 Resp: 192103

Ion	Ratio	Lower	Upper
43	100		
58	37.1	29.5	44.3
85	15.6	12.9	19.3





#59
2-Hexanone
Concen: 95.501 ug/l
RT: 9.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion: 43 Resp: 14232

Ion	Ratio	Lower	Upper
43	100		
58	51.3	41.6	62.4
57	17.7	13.8	20.6

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022125

Manual Integrations
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Reviewed By :John Carlone 02/24/2025
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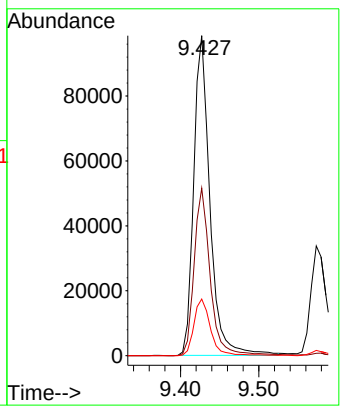
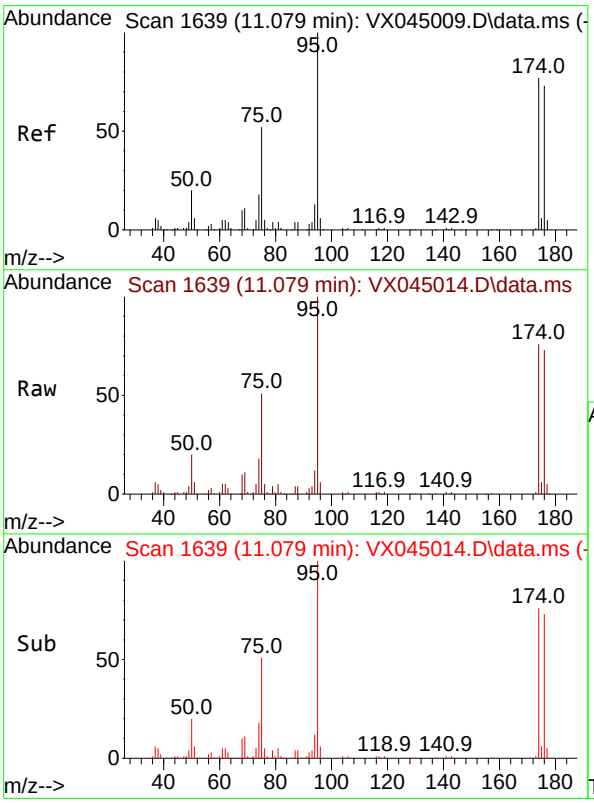
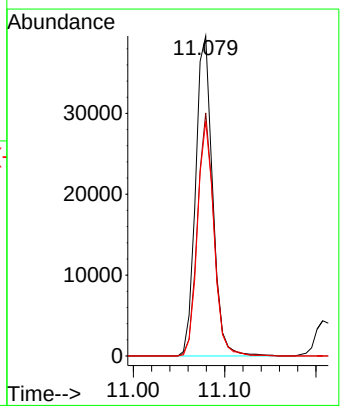


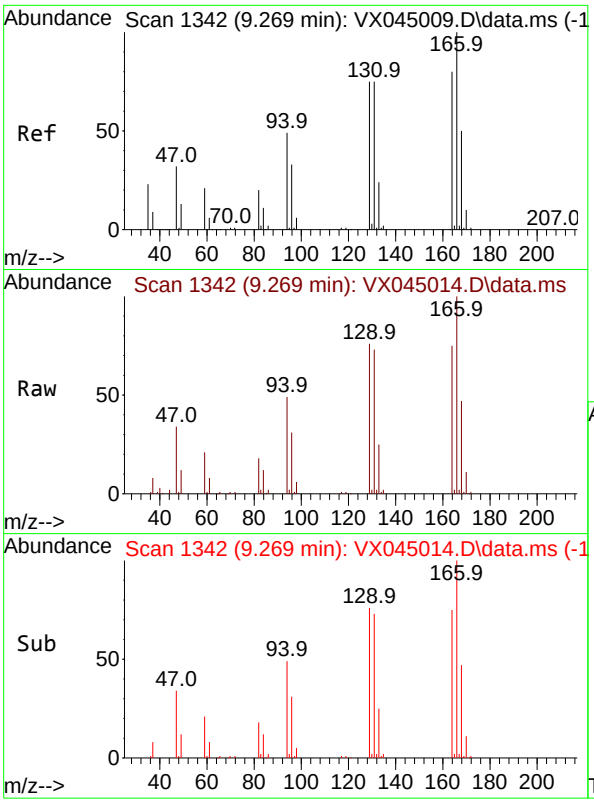


#60
4-Bromofluorobenzene
Concen: 30.094 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion: 95 Resp: 50982

Ion	Ratio	Lower	Upper
95	100		
174	73.6	59.5	89.3
176	70.9	55.5	83.3

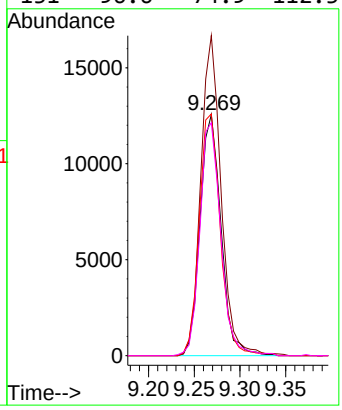




#61
Tetrachloroethene
Concen: 17.908 ug/l
RT: 9.269 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion:164 Resp: 1998

Ion	Ratio	Lower	Upper
164	100		
166	132.7	100.3	150.5
129	100.3	75.5	113.3
131	96.6	74.9	112.3



Instrument :
MSVOA_X
ClientSampleId :
ICVVX022125

Manual Integrations
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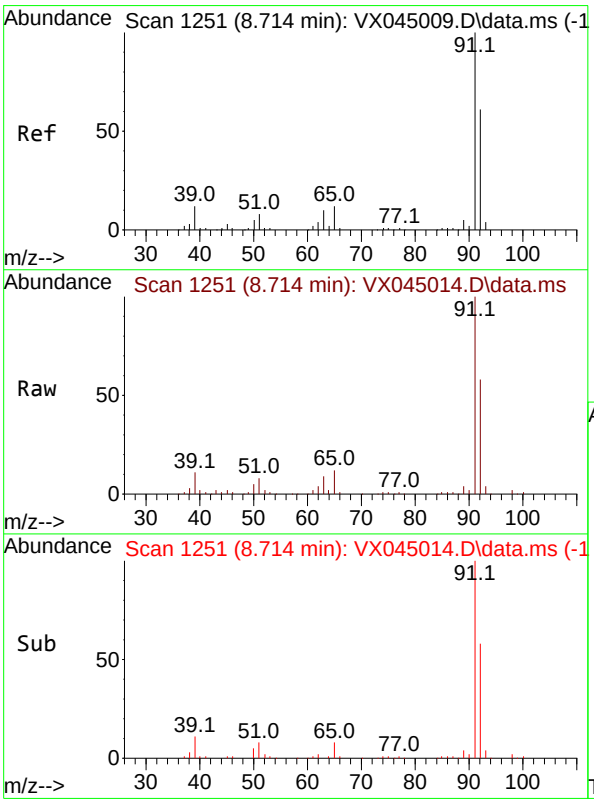
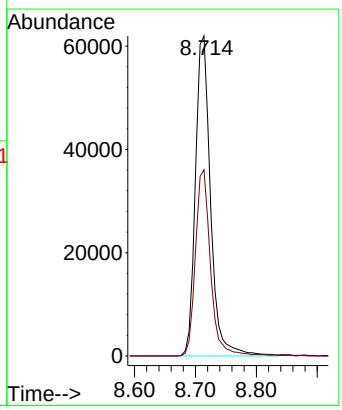
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

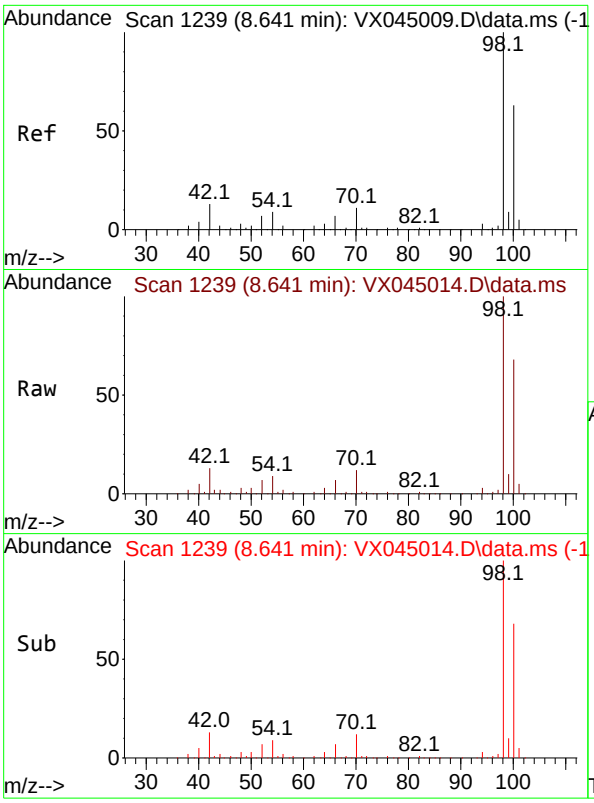


#62
Toluene
Concen: 17.876 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion: 91 Resp: 107324

Ion	Ratio	Lower	Upper
91	100		
92	57.4	46.9	70.3





#63
Toluene-d8
Concen: 29.620 ug/l
RT: 8.641 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion: 98 Resp: 14851

Ion	Ratio	Lower	Upper
98	100		
100	63.8	51.7	77.5

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022125

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/24/2025
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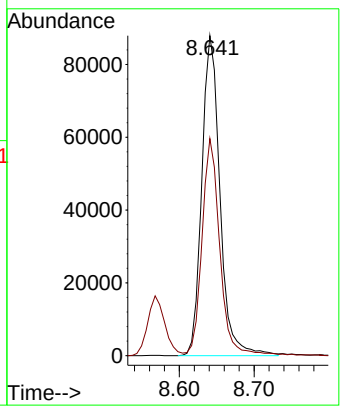
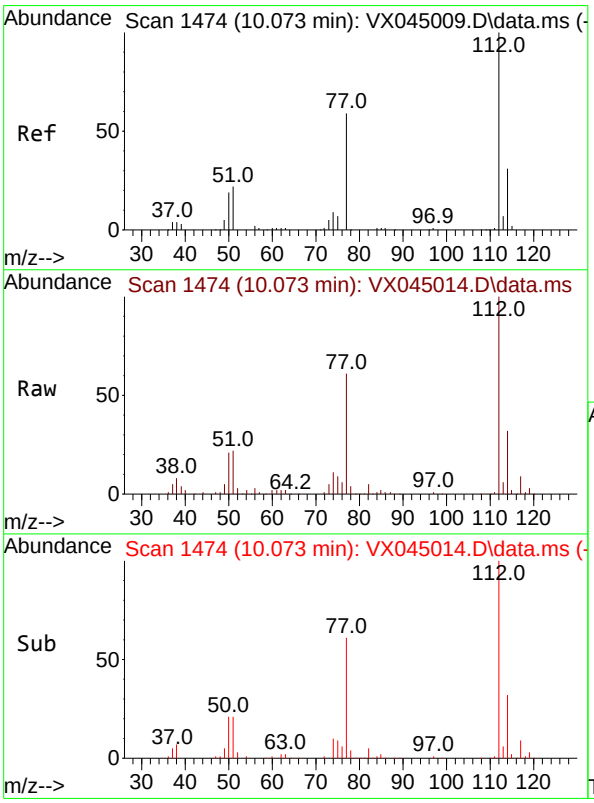
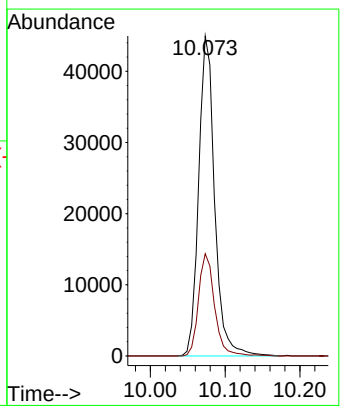


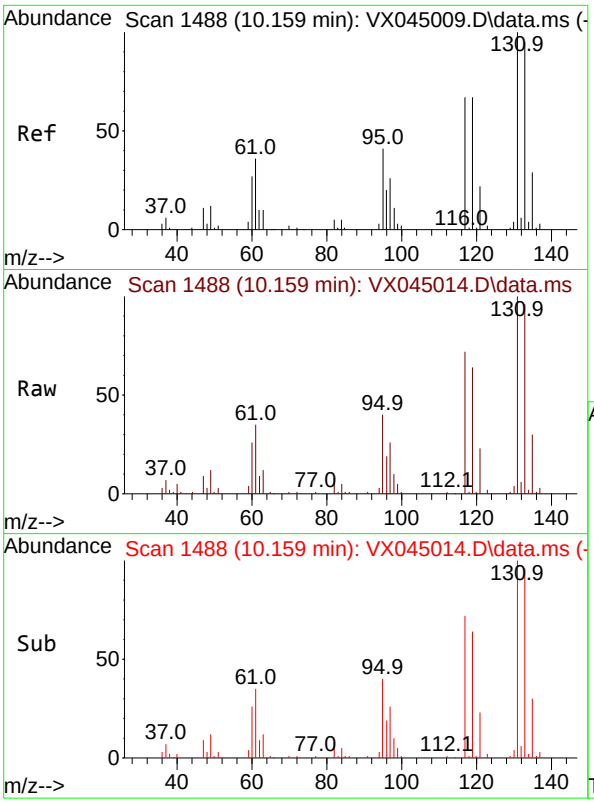


#64
Chlorobenzene
Concen: 17.942 ug/l
RT: 10.073 min Scan# 1474
Delta R.T. -0.000 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion:112 Resp: 66754

Ion	Ratio	Lower	Upper
112	100		
114	32.0	24.7	37.1





#65
1,1,1,2-Tetrachloroethane
Concen: 17.362 ug/l
RT: 10.159 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion:131 Resp: 2131

Ion	Ratio	Lower	Upper
131	100		
133	96.5	0.0	187.8
119	65.3	0.0	133.0

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022125

Manual Integrations
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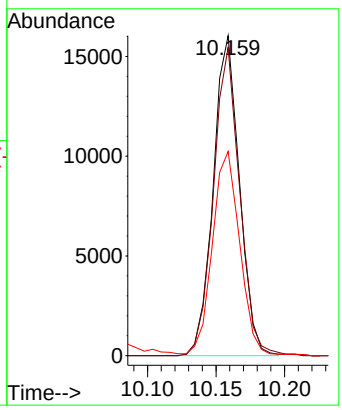
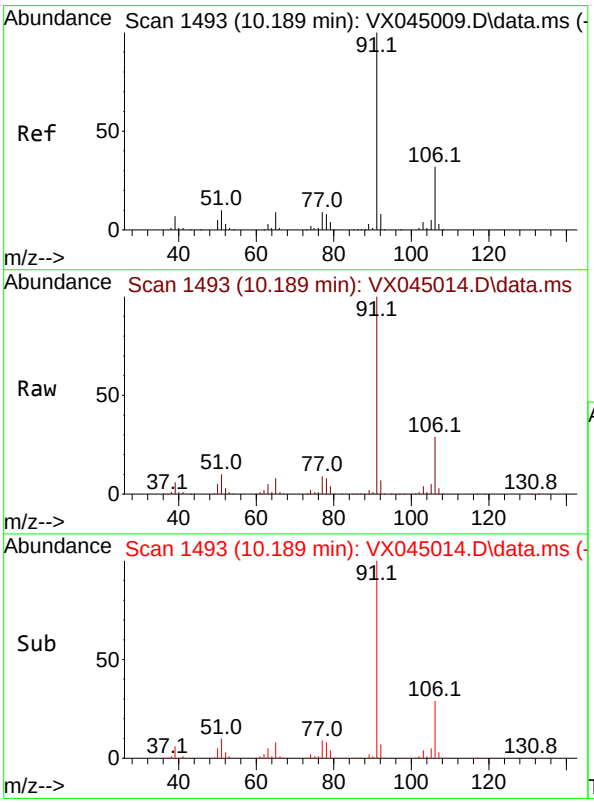
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

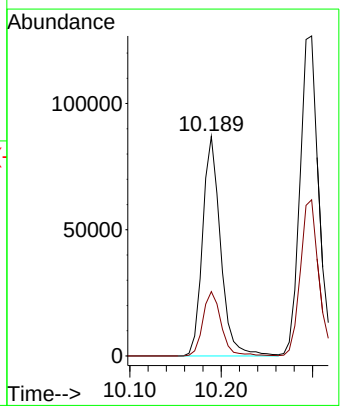


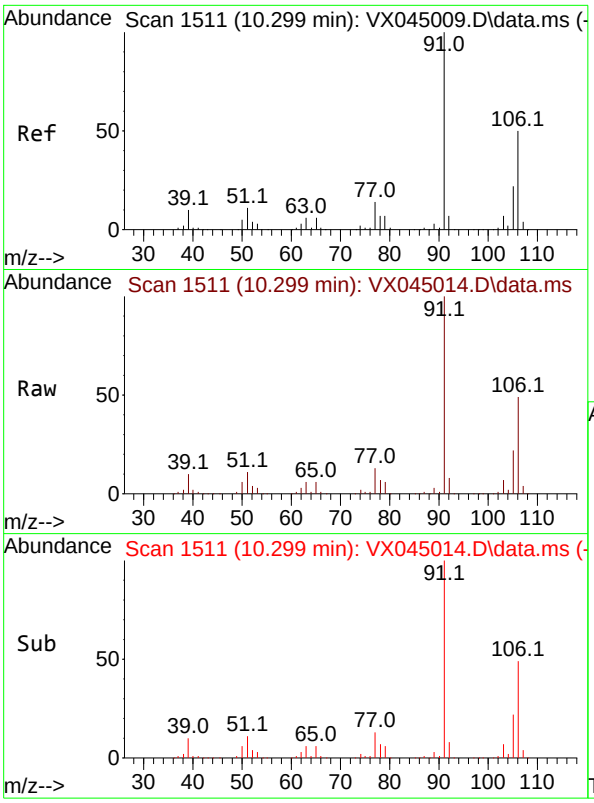


#66
Ethyl Benzene
Concen: 18.117 ug/l
RT: 10.189 min Scan# 1493
Delta R.T. -0.000 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion: 91 Resp: 119085

Ion	Ratio	Lower	Upper
91	100		
106	29.3	25.4	38.2

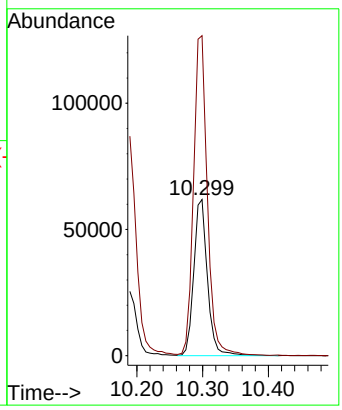




#67
m/p-Xylenes
Concen: 36.205 ug/l
RT: 10.299 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion:106 Resp: 8866

Ion	Ratio	Lower	Upper
106	100		
91	207.8	163.7	245.5



Instrument :
MSVOA_X
ClientSampleId :
ICVVX022125

Manual Integrations
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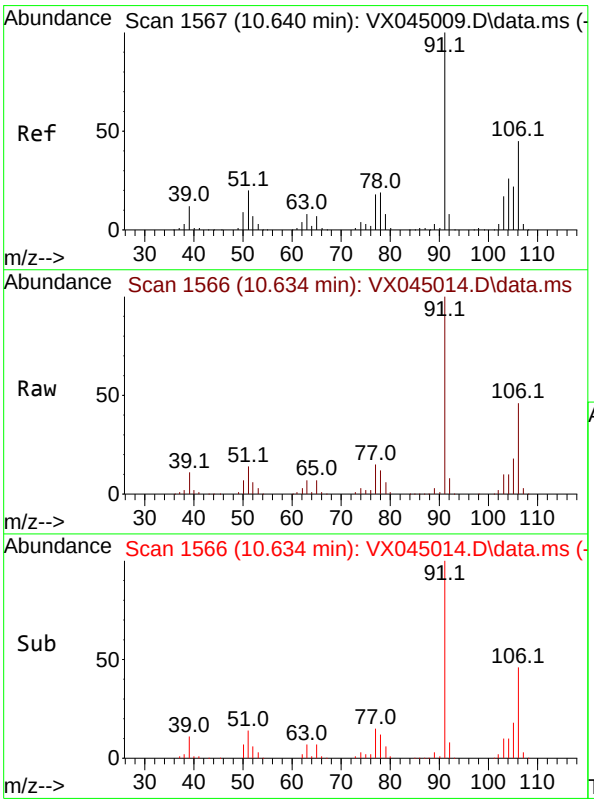
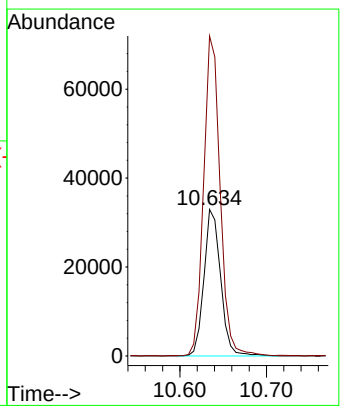
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

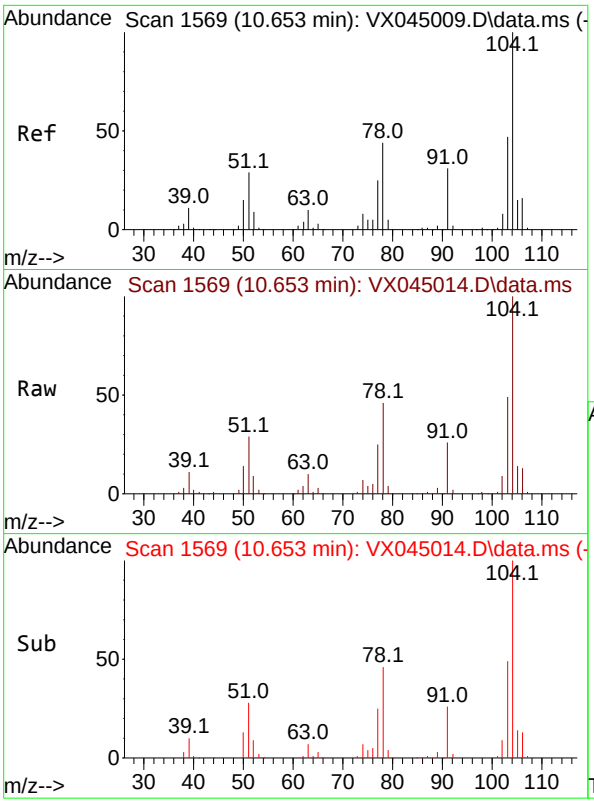


#68
o-Xylene
Concen: 18.340 ug/l
RT: 10.634 min Scan# 1566
Delta R.T. -0.006 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion:106 Resp: 44070

Ion	Ratio	Lower	Upper
106	100		
91	215.2	109.7	329.1

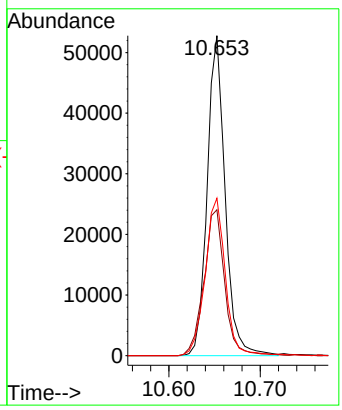




#69
Styrene
Concen: 17.886 ug/l
RT: 10.653 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion:104 Resp: 7178

Ion	Ratio	Lower	Upper
104	100		
78	52.9	41.4	62.0
103	55.2	43.0	64.4



Instrument :
MSVOA_X
ClientSampleId :
ICVVX022125

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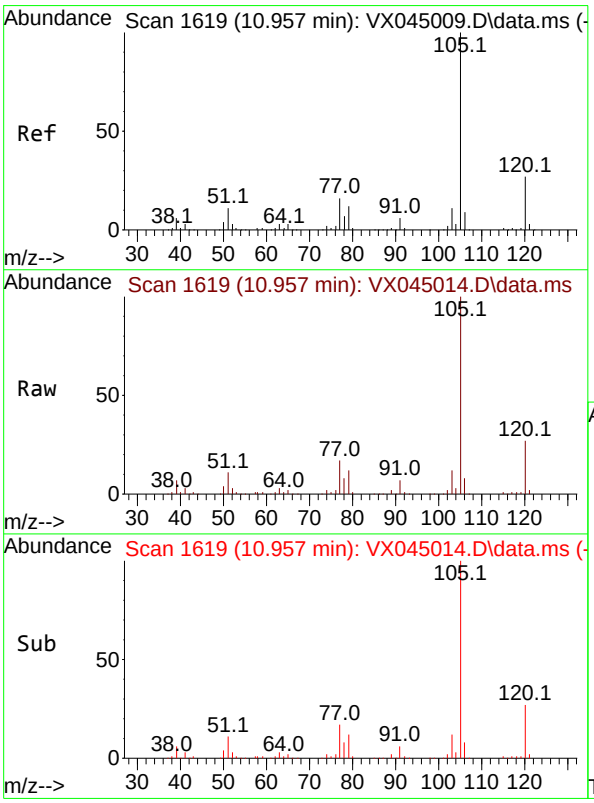
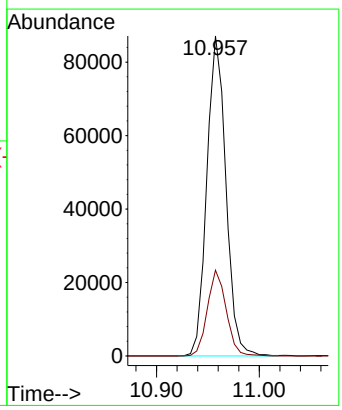
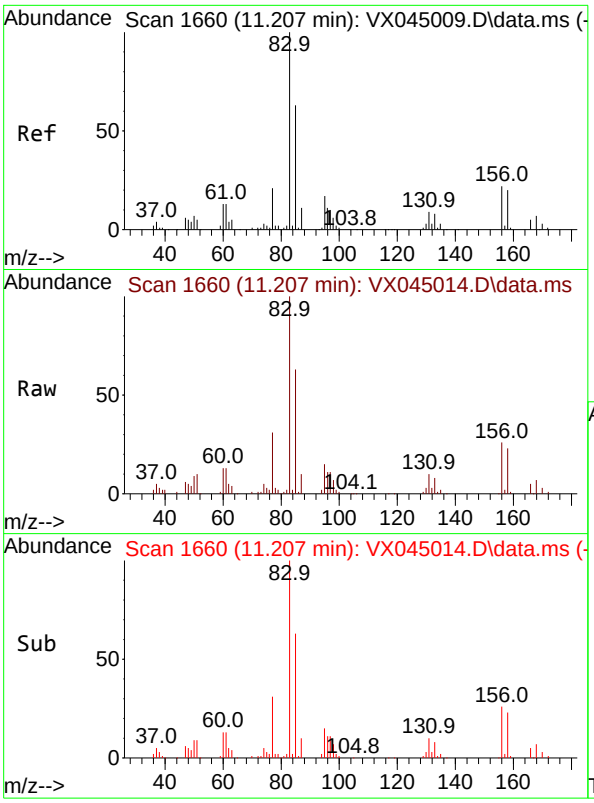


#70
Isopropylbenzene
Concen: 18.117 ug/l
RT: 10.957 min Scan# 1619
Delta R.T. -0.000 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion:105 Resp: 112344

Ion	Ratio	Lower	Upper
105	100		
120	26.4	18.4	34.2

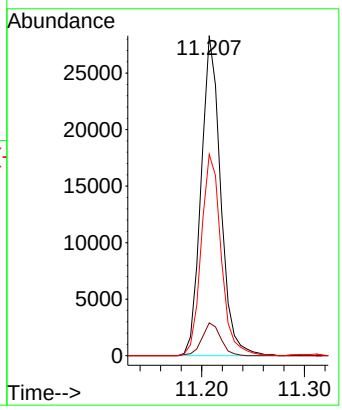




#71
1,1,2,2-Tetrachloroethane
Concen: 18.349 ug/l
RT: 11.207 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion: 83 Resp: 3741

Ion	Ratio	Lower	Upper
83	100		
131	9.8	4.8	14.3
85	64.2	32.3	96.8



Instrument :
MSVOA_X
ClientSampleId :
ICVVX022125

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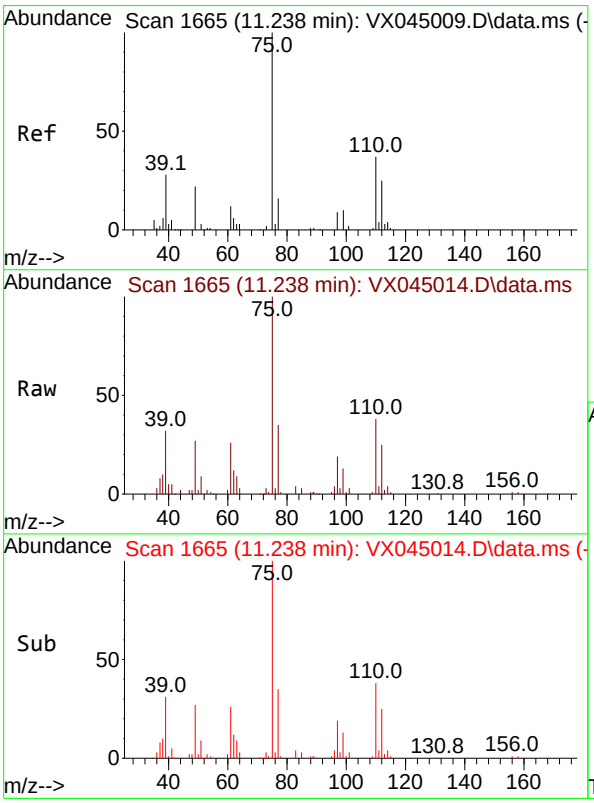
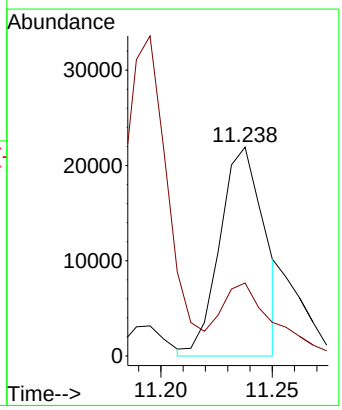
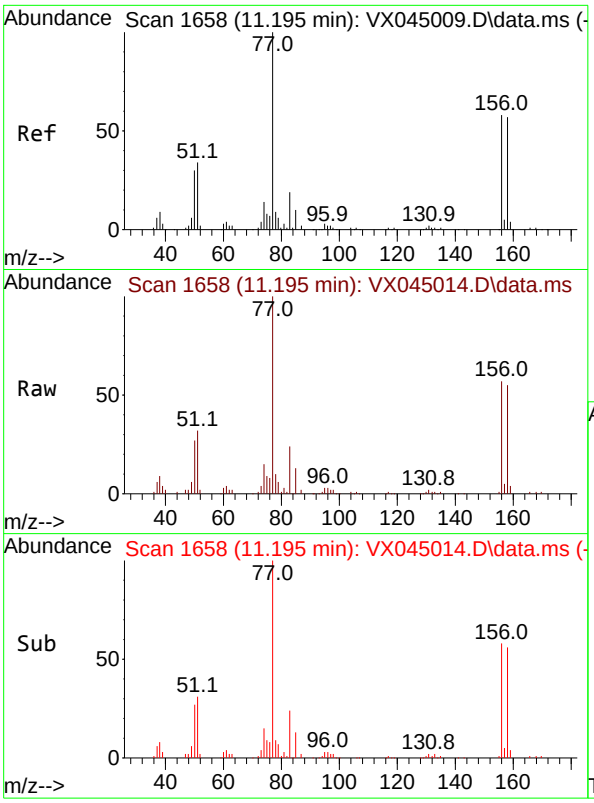


#72
1,2,3-Trichloropropane
Concen: 18.172 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion: 75 Resp: 30477

Ion	Ratio	Lower	Upper
75	100		
77	41.7	0.0	84.0

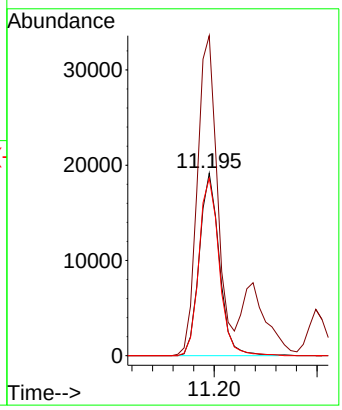




#73
Bromobenzene
Concen: 18.218 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion:156 Resp: 2600

Ion	Ratio	Lower	Upper
156	100		
77	175.6	0.0	347.2
158	98.5	0.0	197.6



Instrument :
MSVOA_X
ClientSampleId :
ICVVX022125

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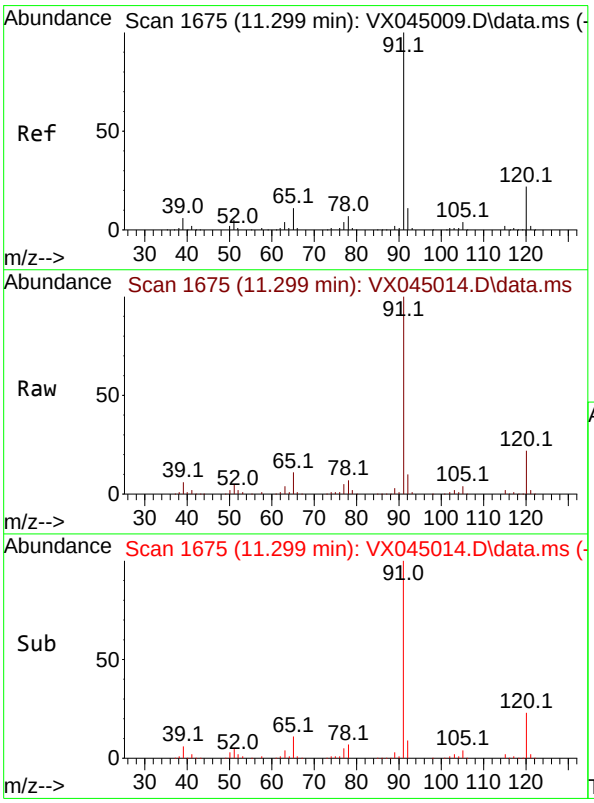
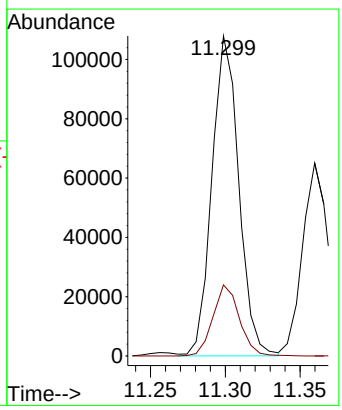
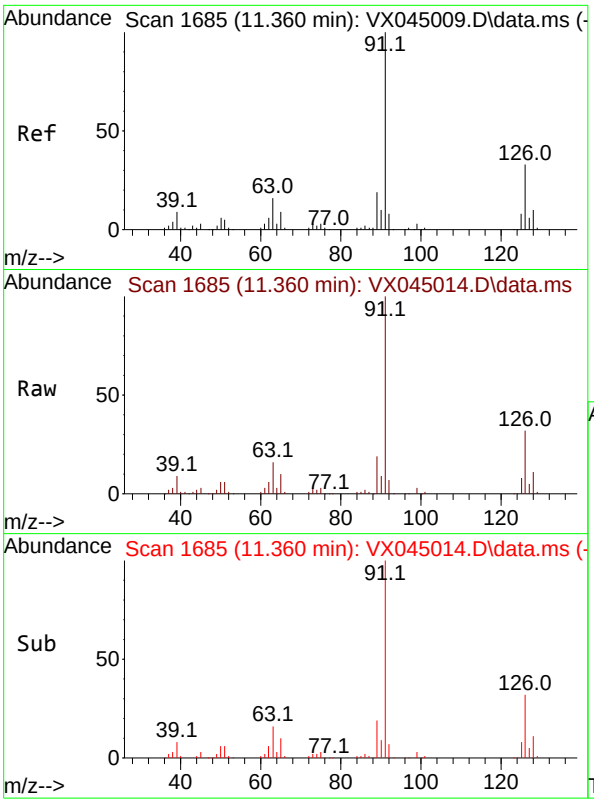


#74
n-propylbenzene
Concen: 18.269 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. -0.000 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion: 91 Resp: 134814

Ion	Ratio	Lower	Upper
91	100		
120	21.9	0.0	44.2





#75
2-Chlorotoluene
Concen: 18.145 ug/l
RT: 11.360 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion: 91 Resp: 8094

Ion	Ratio	Lower	Upper
91	100		
126	32.9	0.0	65.4

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022125

Manual Integrations
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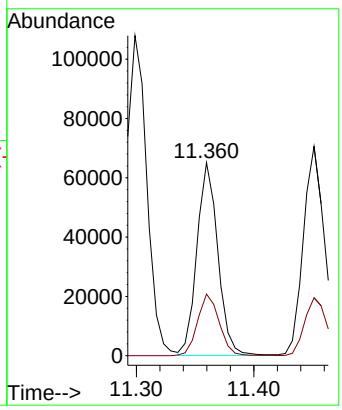
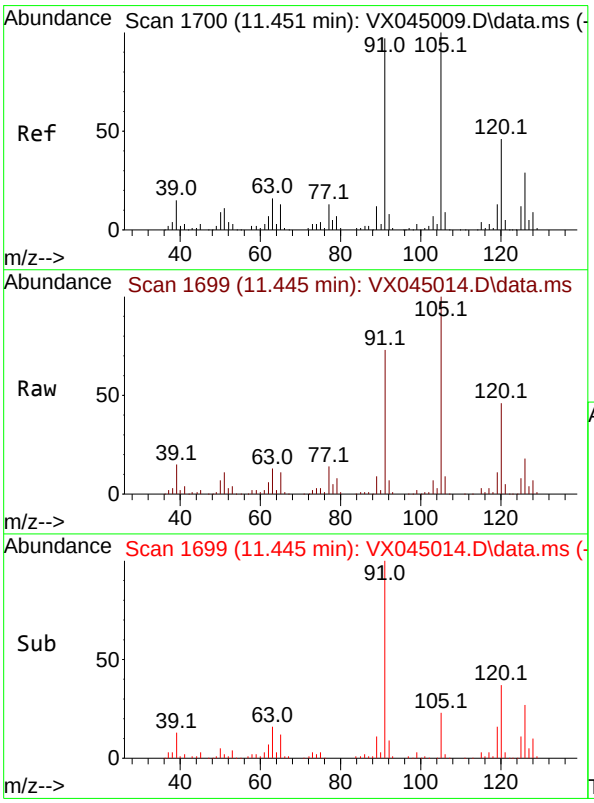
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

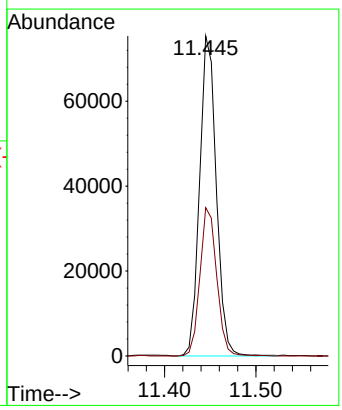


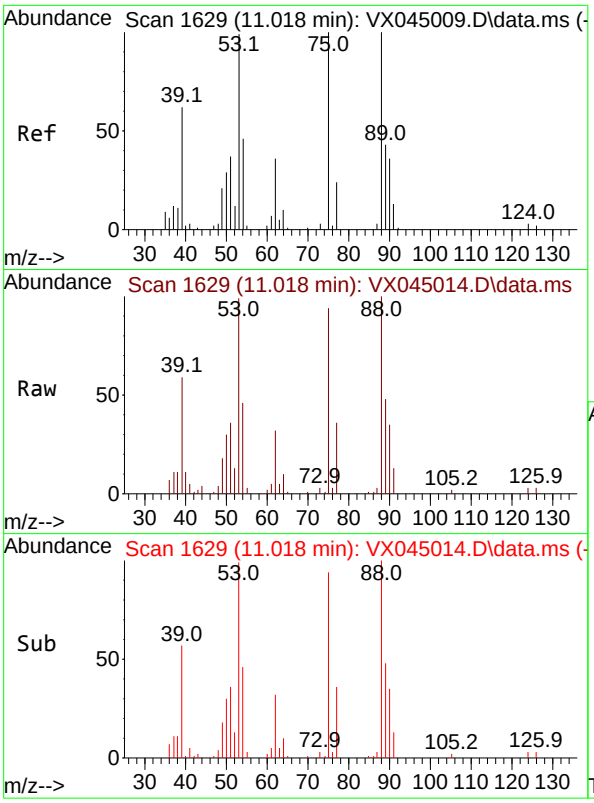


#76
1,3,5-Trimethylbenzene
Concen: 18.633 ug/l
RT: 11.445 min Scan# 1699
Delta R.T. -0.006 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion:105 Resp: 95320

Ion	Ratio	Lower	Upper
105	100		
120	46.6	0.0	94.4

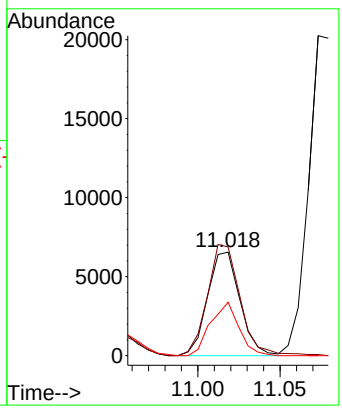




#77
t-1,4-Dichloro-2-butene
Concen: 15.964 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion: 75 Resp: 900

Ion	Ratio	Lower	Upper
75	100		
53	105.0	49.8	149.4
89	51.6	21.4	64.2



Instrument :
MSVOA_X
ClientSampleId :
ICVVX022125

Manual Integrations
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Reviewed By :John Carlone 02/24/2025
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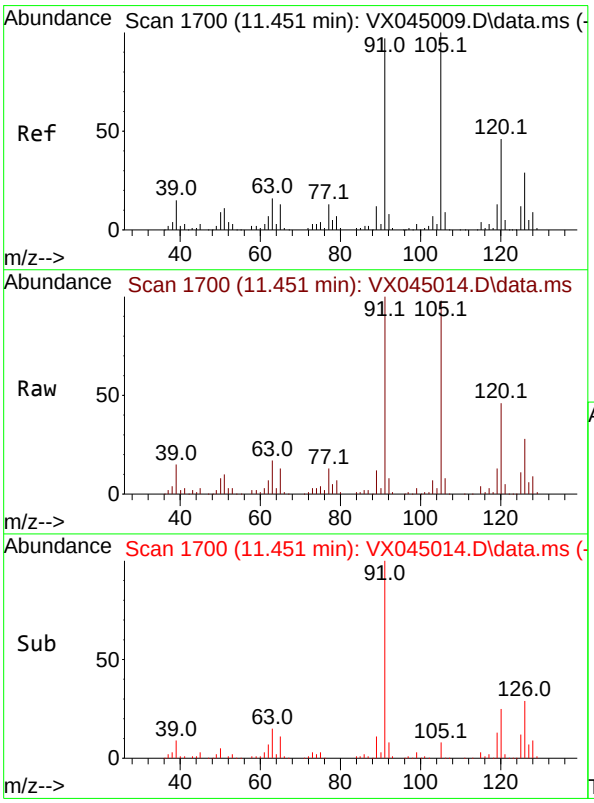
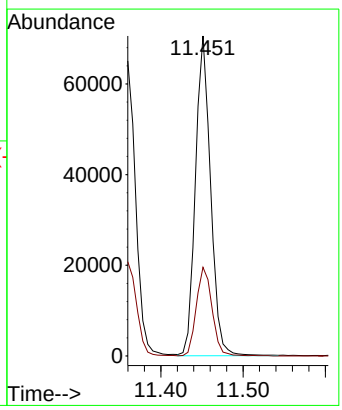
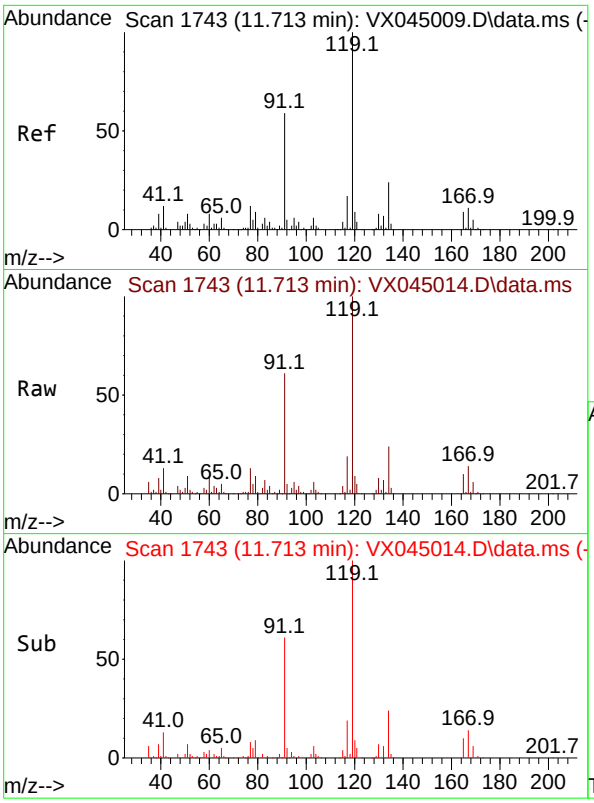


#78
4-Chlorotoluene
Concen: 18.131 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion: 91 Resp: 90166

Ion	Ratio	Lower	Upper
91	100		
126	28.7	0.0	58.0

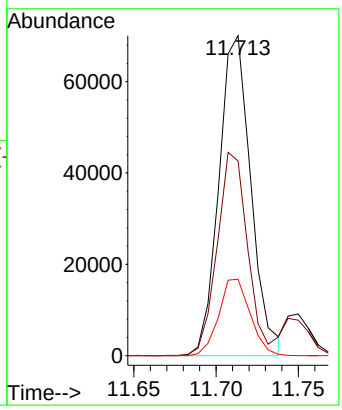




#79
tert-butylbenzene
Concen: 18.420 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion:119 Resp: 9494

Ion	Ratio	Lower	Upper
119	100		
91	60.2	0.0	120.6
134	23.6	0.0	48.2



Instrument :
MSVOA_X
ClientSampleId :
ICVVX022125

Manual Integrations
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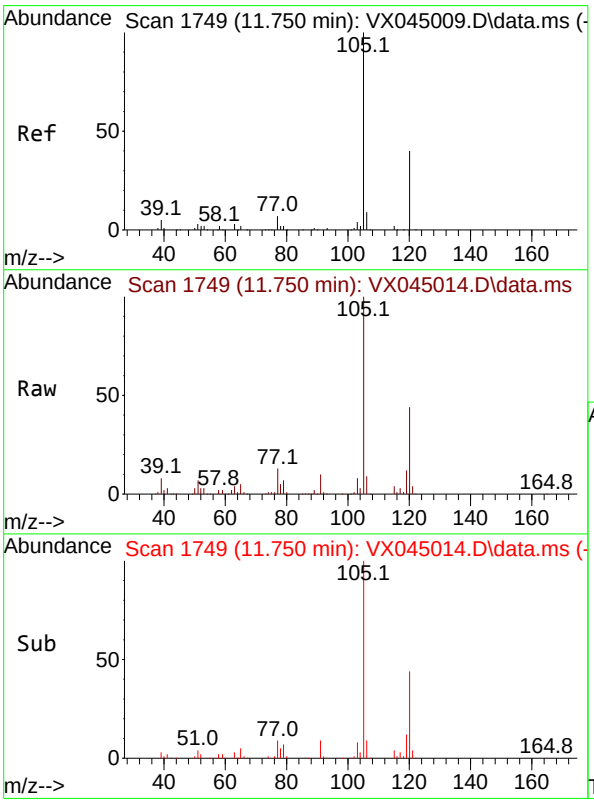
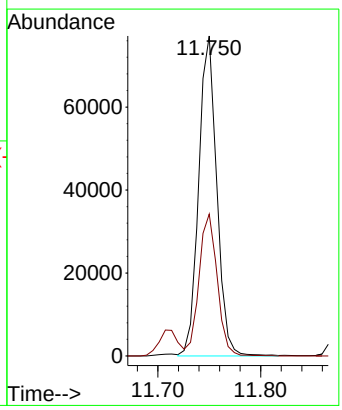
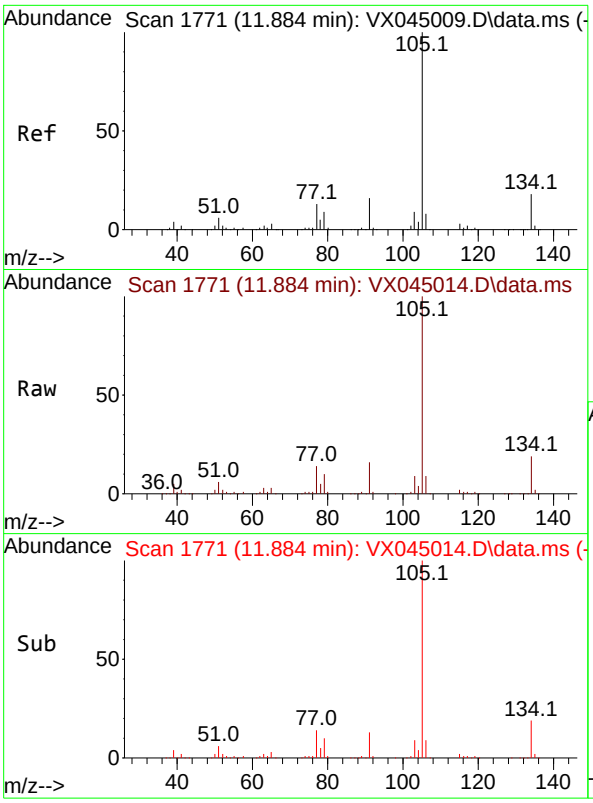


#80
1,2,4-Trimethylbenzene
Concen: 18.423 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion:105 Resp: 94408

Ion	Ratio	Lower	Upper
105	100		
120	44.7	0.0	88.4

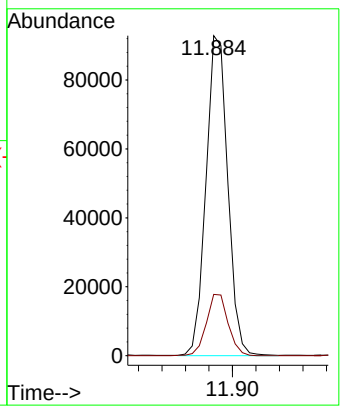




#81
sec-Butylbenzene
Concen: 18.461 ug/l
RT: 11.884 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion:105 Resp: 11942

Ion	Ratio	Lower	Upper
105	100		
134	19.2	0.0	39.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX022125

Manual Integrations
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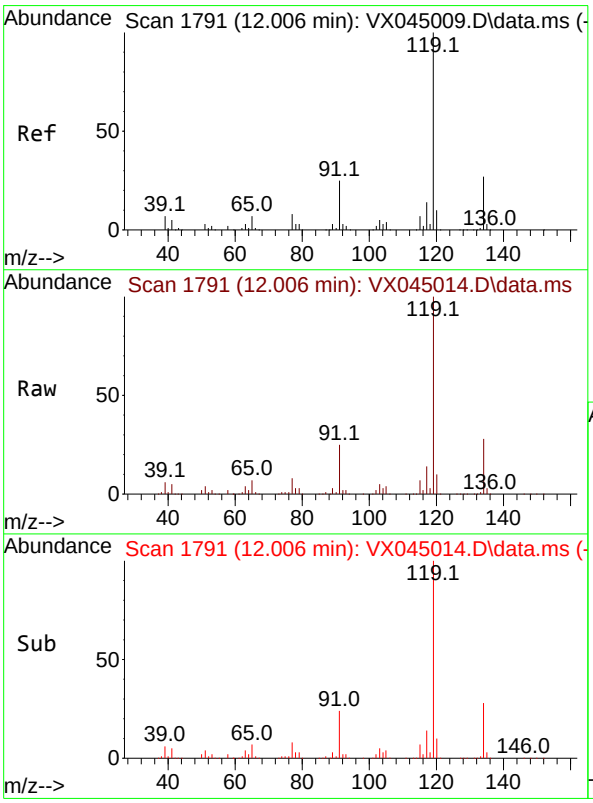
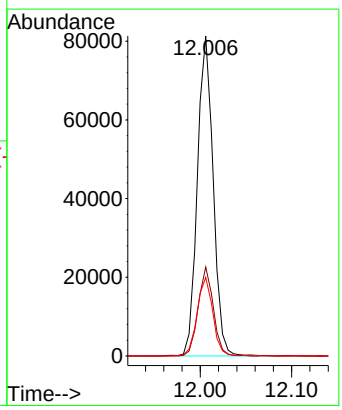
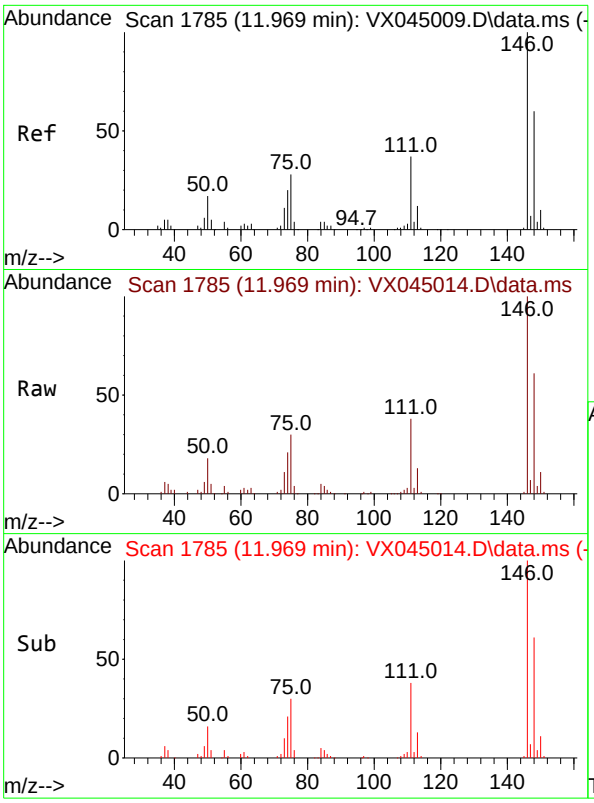


#82
p-Isopropyltoluene
Concen: 18.616 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion:119 Resp: 97575

Ion	Ratio	Lower	Upper
119	100		
134	26.5	0.0	52.6
91	24.4	0.0	51.0

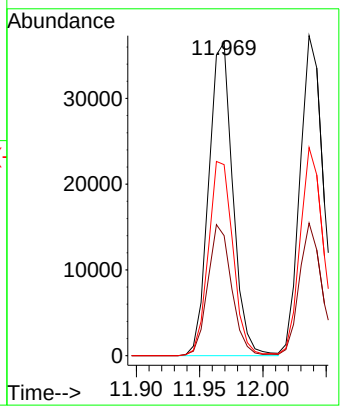




#83
1,3-Dichlorobenzene
Concen: 18.234 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion:146 Resp: 4843

Ion	Ratio	Lower	Upper
146	100		
111	41.5	20.2	60.5
148	63.3	31.2	93.6



Instrument :
MSVOA_X
ClientSampleId :
ICVVX022125

Manual Integrations
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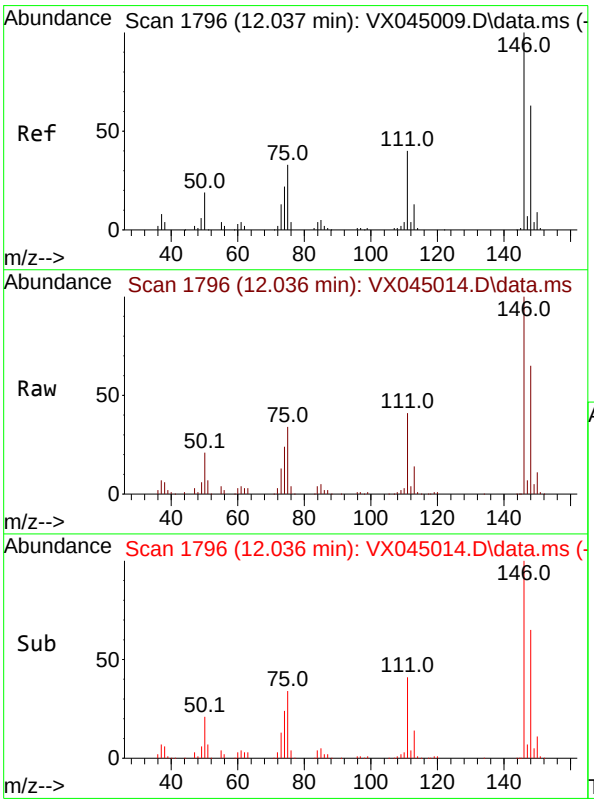
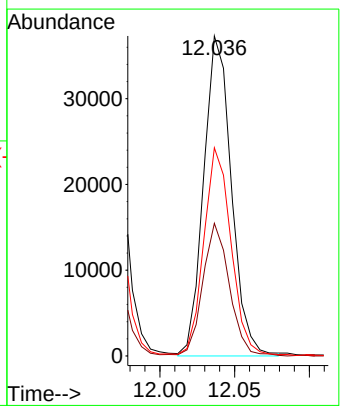
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

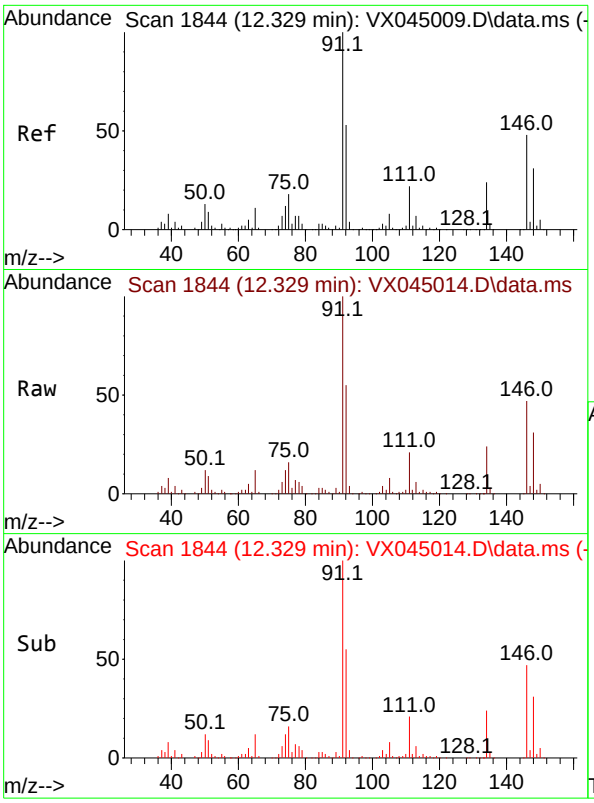


#84
1,4-Dichlorobenzene
Concen: 18.390 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. -0.000 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion:146 Resp: 48160

Ion	Ratio	Lower	Upper
146	100		
111	39.6	20.4	61.2
148	64.2	31.8	95.4

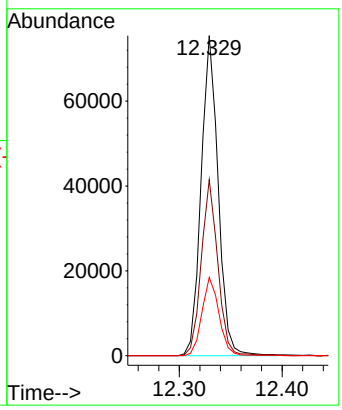




#85
n-Butylbenzene
Concen: 18.213 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion: 91 Resp: 8717

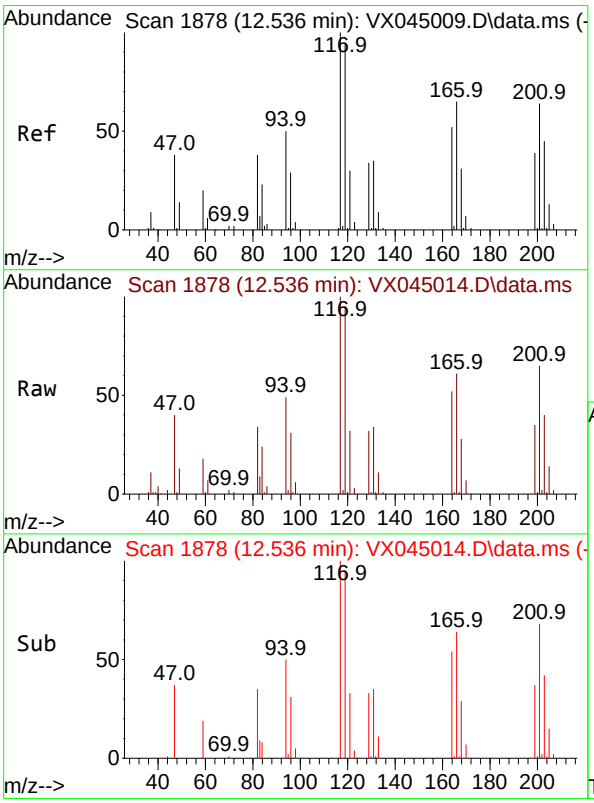
Ion	Ratio	Lower	Upper
91	100		
92	53.3	0.0	105.2
134	24.4	0.0	49.4



Instrument :
MSVOA_X
ClientSampleId :
ICVVX022125

Manual Integrations
APPROVED

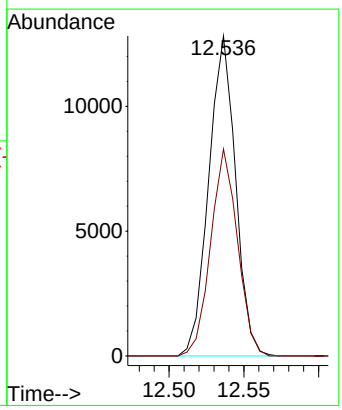
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

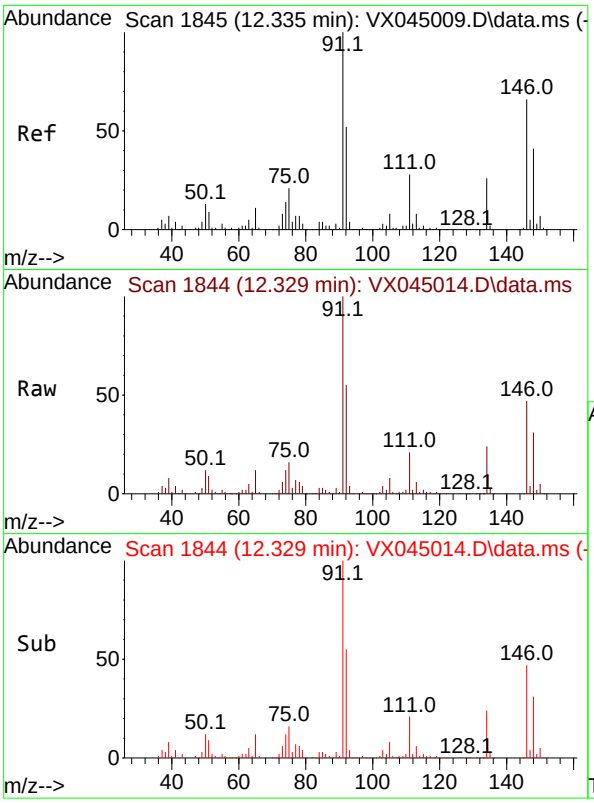


#86
Hexachloroethane
Concen: 17.309 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion:117 Resp: 16000

Ion	Ratio	Lower	Upper
117	100		
201	64.8	32.6	97.7

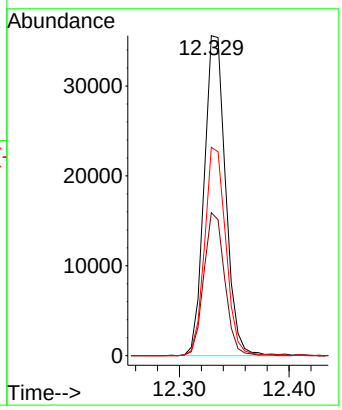




#87
1,2-Dichlorobenzene
Concen: 18.513 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion:146 Resp: 4824

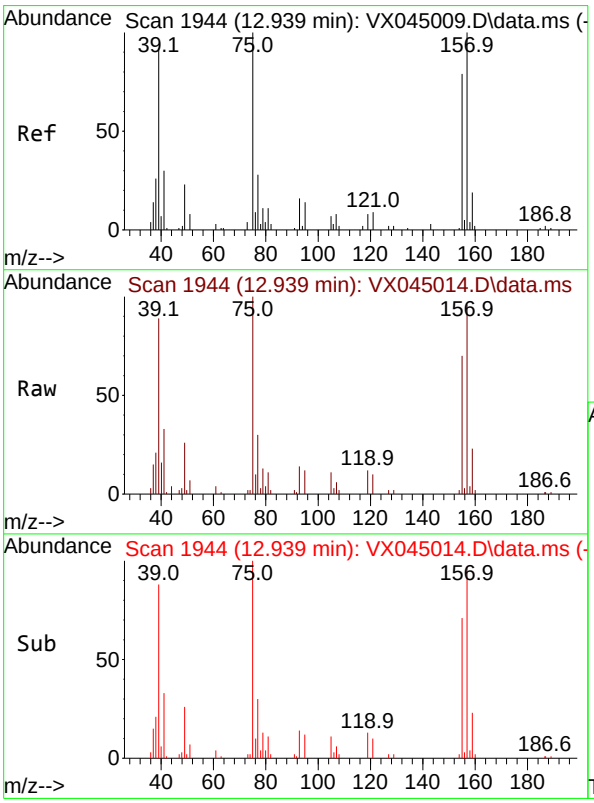
Ion	Ratio	Lower	Upper
146	100		
111	43.6	21.7	65.1
148	64.6	31.8	95.4



Instrument :
MSVOA_X
ClientSampleId :
ICVVX022125

Manual Integrations
APPROVED

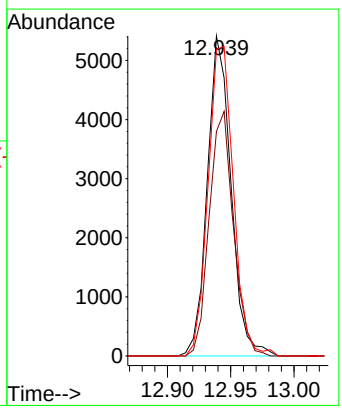
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

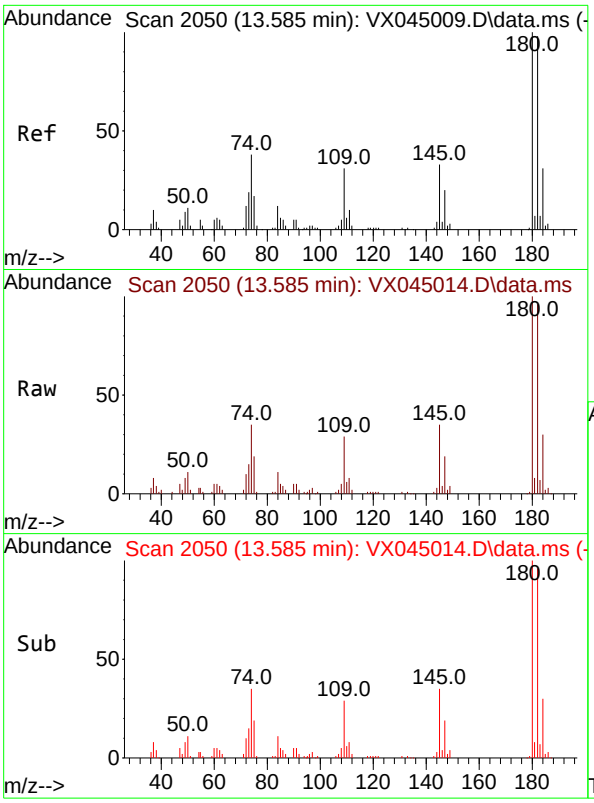


#88
1,2-Dibromo-3-Chloropropane
Concen: 17.893 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.000 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion: 75 Resp: 7064

Ion	Ratio	Lower	Upper
75	100		
155	78.1	66.2	99.4
157	102.8	81.4	122.2

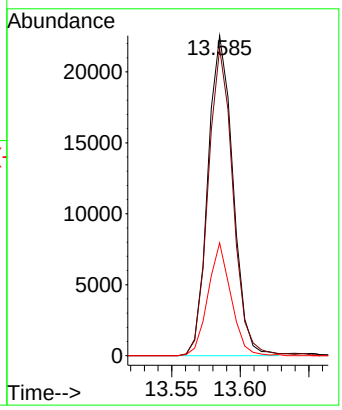




#89
1,2,4-Trichlorobenzene
Concen: 18.126 ug/l
RT: 13.585 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion:180 Resp: 2863

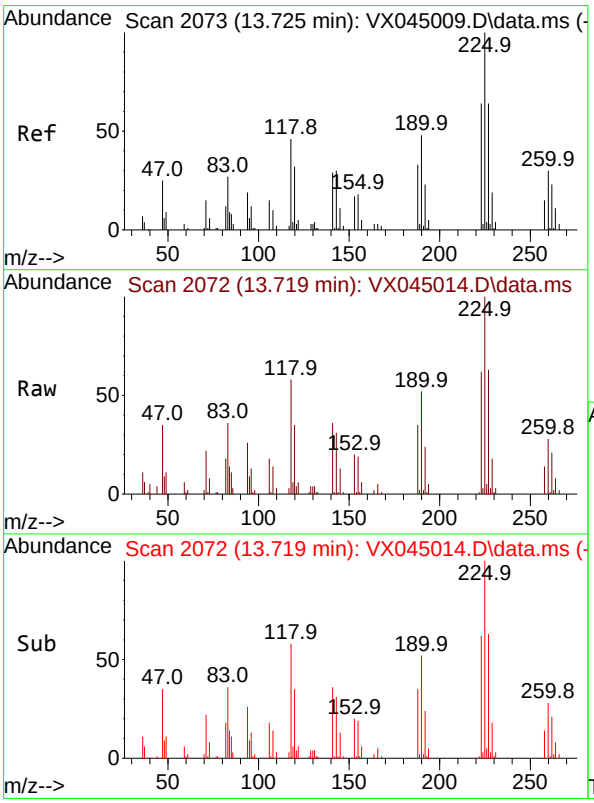
Ion	Ratio	Lower	Upper
180	100		
182	95.0	77.7	116.5
145	32.4	25.8	38.6



Instrument :
MSVOA_X
ClientSampleId :
ICVVX022125

Manual Integrations
APPROVED

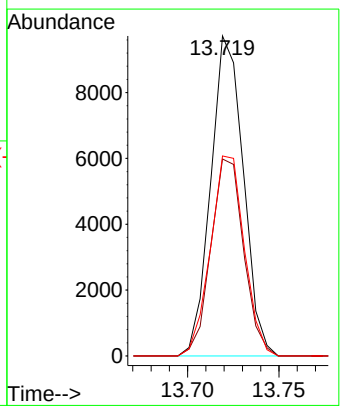
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025

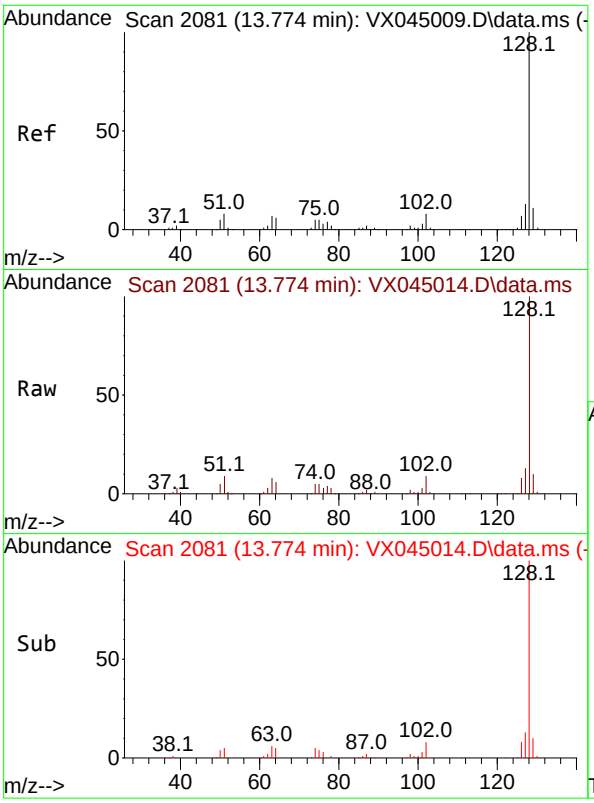


#90
Hexachlorobutadiene
Concen: 18.726 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. -0.006 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion:225 Resp: 12062

Ion	Ratio	Lower	Upper
225	100		
223	62.1	0.0	123.4
227	64.9	0.0	127.4

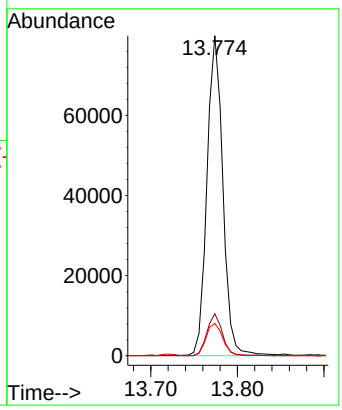




#91
Naphthalene
Concen: 18.271 ug/l
RT: 13.774 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion:128 Resp: 10175

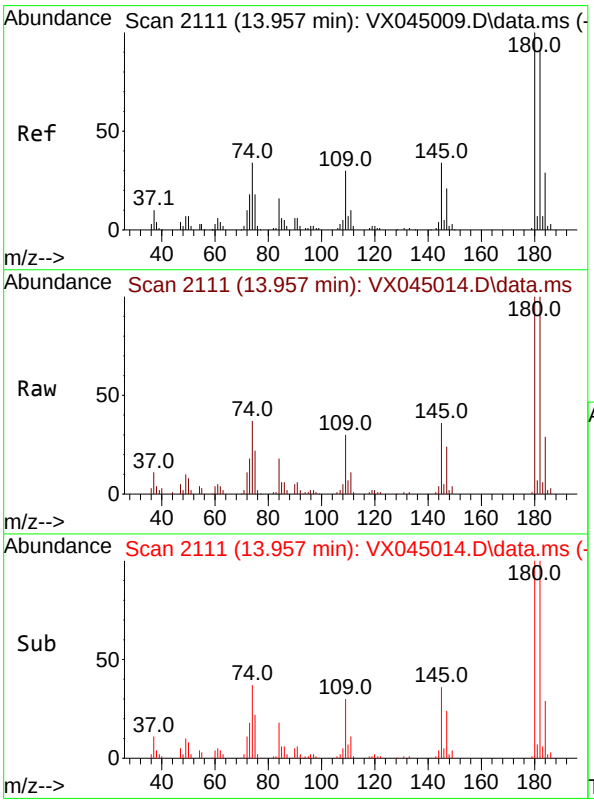
Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.5	15.7
129	10.5	8.7	13.1



Instrument :
MSVOA_X
ClientSampleId :
ICVVX022125

Manual Integrations
APPROVED

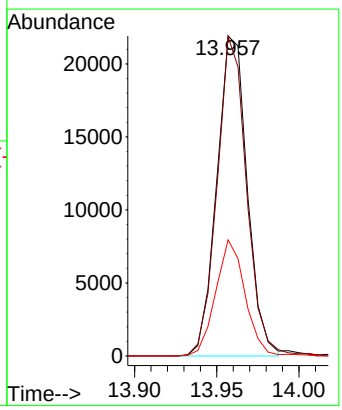
Reviewed By :John Carlone 02/24/2025
Supervised By :Mahesh Dadoda 02/24/2025



#92
1,2,3-Trichlorobenzene
Concen: 17.312 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VX045014.D
Acq: 21 Feb 2025 13:09

Tgt Ion:180 Resp: 28151

Ion	Ratio	Lower	Upper
180	100		
182	97.1	0.0	186.6
145	34.9	0.0	68.4



Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022125\
Data File : VX045014.D
Acq On : 21 Feb 2025 13:09
Operator : JC/MD
Sample : VSTDICV020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022125

Quant Time: Feb 22 01:12:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X022125W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Feb 22 01:06:36 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	Bromochloromethane	1.000	1.000	0.0	97	0.00
2	M	Dichlorodifluoromethane	2.529	2.305	8.9	90	0.00
3	M	Chloromethane	3.029	2.707	10.6	88	0.00
4	M	Vinyl Chloride	2.923	2.543	13.0	87	0.00
5	M	Bromomethane	1.017	0.992	2.5	98	0.00
6	M	Chloroethane	1.583	1.635	-3.3	95	0.00
7	M	Trichlorofluoromethane	3.928	3.495	11.0	91	0.00
8	T	Diethyl Ether	1.486	1.279	13.9	86	0.00
9		1,1,2-Trichlorotrifluoroeth	2.333	2.106	9.7	93	0.00
10	M	1,1-Dichloroethene	2.279	2.061	9.6	93	0.00
11		Methyl Iodide	2.579	2.041	20.9	91	0.00
12		Methyl Acetate	2.646	2.405	9.1	94	0.00
13	M	Acrolein	0.530	0.505	4.7	103	0.00
14	M	Acrylonitrile	1.293	1.160	10.3	90	0.00
15	M	Acetone	0.355	0.386	-8.7	106	0.00
16	M	Carbon Disulfide	6.464	5.784	10.5	93	0.00
17		Allyl chloride	4.262	3.796	10.9	93	0.00
18	M	Methylene Chloride	2.563	2.258	11.9	88	0.00
19	M	trans-1,2-Dichloroethene	2.306	2.055	10.9	91	0.00
20	T	Diisopropyl ether	8.191	7.311	10.7	91	0.00
21	M	1,1-Dichloroethane	4.555	4.030	11.5	90	0.00
22	M	cis-1,2-Dichloroethene	2.763	2.445	11.5	90	-0.01
23	M	tert-Butyl Alcohol	0.451	0.416	7.8	95	-0.02
24	M	Methyl tert-Butyl Ether	7.438	6.579	11.5	91	0.00
25	M	Chloroform	4.400	3.947	10.3	90	-0.01
26		Cyclohexane	4.205	3.761	10.6	90	0.00
27	s	1,2-Dichloroethane-d4	2.914	2.888	0.9	97	0.00
28	I	1,4-Difluorobenzene	1.000	1.000	0.0	98	0.00
29		1,1-Dichloropropene	0.552	0.496	10.1	90	-0.01
30	M	2-Butanone	0.319	0.307	3.8	97	0.00
31		2,2-Dichloropropane	0.624	0.565	9.5	94	0.00
32	M	1,1,1-Trichloroethane	0.669	0.600	10.3	91	0.00
33	M	Carbon Tetrachloride	0.564	0.510	9.6	91	0.00
34	M	Benzene	1.731	1.559	9.9	90	0.00
35		Methacrylonitrile	0.341	0.313	8.2	92	0.00
36	M	1,2-Dichloroethane	0.592	0.543	8.3	91	0.00
37	M	Trichloroethene	0.405	0.363	10.4	89	0.00
38		Methylcyclohexane	0.741	0.681	8.1	95	0.00
39	M	1,2-Dichloropropane	0.430	0.374	13.0	86	0.00
40		Dibromomethane	0.309	0.278	10.0	90	0.00
41	M	Bromodichloromethane	0.614	0.541	11.9	89	0.00
42	M	Vinyl Acetate	1.237	1.113	10.0	91	0.00
43		Ethyl Acetate	0.598	0.510	14.7	86	0.00
44		Isopropyl Acetate	0.984	0.885	10.1	94	0.00
45	T	1,4-Dioxane	0.010	0.010	0.0	90	0.00
46		Methyl methacrylate	0.482	0.442	8.3	95	0.00
47		n-amyl Acetate	0.854	0.765	10.4	93	0.00
48	M	t-1,3-Dichloropropene	0.591	0.502	15.1	93	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022125\
Data File : VX045014.D
Acq On : 21 Feb 2025 13:09
Operator : JC/MD
Sample : VSTDICV020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022125

Quant Time: Feb 22 01:12:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X022125W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Feb 22 01:06:36 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	cis-1,3-Dichloropropene	0.670	0.586	12.5	90	0.00
50	M	1,1,2-Trichloroethane	0.403	0.372	7.7	90	0.00
51		Ethyl methacrylate	0.633	0.566	10.6	95	0.00
52		1,3-Dichloropropane	0.706	0.627	11.2	87	0.00
53	M	Dibromochloromethane	0.445	0.392	11.9	88	0.00
54	M	1,2-Dibromoethane	0.409	0.360	12.0	88	0.00
55	M	2-Chloroethyl vinyl ether	0.325	0.279	14.2	87	0.00
56	M	Bromoform	0.279	0.243	12.9	92	0.00
57	I	Chlorobenzene-d5	1.000	1.000	0.0	99	0.00
58	M	4-Methyl-2-Pentanone	0.682	0.636	6.7	92	0.00
59	M	2-Hexanone	0.493	0.471	4.5	95	0.00
60	S	4-Bromofluorobenzene	0.561	0.563	-0.4	99	0.00
61	M	Tetrachloroethene	0.369	0.331	10.3	89	0.00
62	M	Toluene	1.987	1.776	10.6	90	0.00
63	S	Toluene-d8	1.660	1.639	1.3	97	0.00
64	M	Chlorobenzene	1.231	1.105	10.2	90	0.00
65		1,1,1,2-Tetrachloroethane	0.406	0.353	13.1	88	0.00
66	M	Ethyl Benzene	2.176	1.971	9.4	93	0.00
67	M	m/p-Xylenes	0.811	0.734	9.5	89	0.00
68	M	o-Xylene	0.795	0.729	8.3	90	0.00
69	M	Styrene	1.328	1.188	10.5	89	0.00
70		Isopropylbenzene	2.053	1.859	9.4	90	0.00
71	M	1,1,2,2-Tetrachloroethane	0.675	0.619	8.3	92	0.00
72		1,2,3-Trichloropropane	0.555	0.504	9.2	92	0.00
73		Bromobenzene	0.473	0.430	9.1	91	0.00
74		n-propylbenzene	2.443	2.231	8.7	92	0.00
75		2-Chlorotoluene	1.477	1.340	9.3	90	0.00
76		1,3,5-Trimethylbenzene	1.693	1.578	6.8	92	0.00
77		t-1,4-Dichloro-2-butene	0.187	0.149	20.3	92	0.00
78		4-Chlorotoluene	1.646	1.492	9.4	91	0.00
79		tert-butylbenzene	1.706	1.571	7.9	91	0.00
80		1,2,4-Trimethylbenzene	1.696	1.562	7.9	90	0.00
81		sec-Butylbenzene	2.141	1.977	7.7	92	0.00
82		p-Isopropyltoluene	1.735	1.615	6.9	93	0.00
83	M	1,3-Dichlorobenzene	0.879	0.802	8.8	91	0.00
84	M	1,4-Dichlorobenzene	0.867	0.797	8.1	92	0.00
85		n-Butylbenzene	1.584	1.443	8.9	94	0.00
86	T	Hexachloroethane	0.306	0.265	13.4	93	0.00
87	M	1,2-Dichlorobenzene	0.863	0.798	7.5	91	0.00
88		1,2-Dibromo-3-Chloropropane	0.131	0.117	10.7	96	0.00
89		1,2,4-Trichlorobenzene	0.523	0.474	9.4	95	0.00
90		Hexachlorobutadiene	0.213	0.200	6.1	94	0.00
91	M	Naphthalene	1.843	1.684	8.6	93	0.00
92		1,2,3-Trichlorobenzene	0.538	0.466	13.4	88	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022125\
Data File : VX045014.D
Acq On : 21 Feb 2025 13:09
Operator : JC/MD
Sample : VSTDICV020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022125

Quant Time: Feb 22 01:12:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X022125W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Feb 22 01:06:36 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	Bromochloromethane	30.000	30.000	0.0	97	0.00
2	M	Dichlorodifluoromethane	20.000	18.226	8.9	90	0.00
3	M	Chloromethane	20.000	17.873	10.6	88	0.00
4	M	Vinyl Chloride	20.000	17.401	13.0	87	0.00
5	M	Bromomethane	20.000	19.506	2.5	98	0.00
6	M	Chloroethane	20.000	20.662	-3.3	95	0.00
7	M	Trichlorofluoromethane	20.000	17.793	11.0	91	0.00
8	T	Diethyl Ether	20.000	17.214	13.9	86	0.00
9		1,1,2-Trichlorotrifluoroeth	20.000	18.055	9.7	93	0.00
10	M	1,1-Dichloroethene	20.000	18.088	9.6	93	0.00
11		Methyl Iodide	20.000	15.827	20.9	91	0.00
12		Methyl Acetate	20.000	18.176	9.1	94	0.00
13	M	Acrolein	100.000	95.190	4.8	103	0.00
14	M	Acrylonitrile	100.000	89.730	10.3	90	0.00
15	M	Acetone	100.000	108.932	-8.9	106	0.00
16	M	Carbon Disulfide	20.000	17.896	10.5	93	0.00
17		Allyl chloride	20.000	17.812	10.9	93	0.00
18	M	Methylene Chloride	20.000	17.621	11.9	88	0.00
19	M	trans-1,2-Dichloroethene	20.000	17.825	10.9	91	0.00
20	T	Diisopropyl ether	20.000	17.850	10.7	91	0.00
21	M	1,1-Dichloroethane	20.000	17.693	11.5	90	0.00
22	M	cis-1,2-Dichloroethene	20.000	17.695	11.5	90	-0.01
23	M	tert-Butyl Alcohol	100.000	92.286	7.7	95	-0.02
24	M	Methyl tert-Butyl Ether	20.000	17.690	11.5	91	0.00
25	M	Chloroform	20.000	17.943	10.3	90	-0.01
26		Cyclohexane	20.000	17.890	10.5	90	0.00
27	s	1,2-Dichloroethane-d4	30.000	29.736	0.9	97	0.00
28	I	1,4-Difluorobenzene	30.000	30.000	0.0	98	0.00
29		1,1-Dichloropropene	20.000	17.969	10.2	90	-0.01
30	M	2-Butanone	100.000	96.206	3.8	97	0.00
31		2,2-Dichloropropane	20.000	18.104	9.5	94	0.00
32	M	1,1,1-Trichloroethane	20.000	17.945	10.3	91	0.00
33	M	Carbon Tetrachloride	20.000	18.080	9.6	91	0.00
34	M	Benzene	20.000	18.013	9.9	90	0.00
35		Methacrylonitrile	20.000	18.343	8.3	92	0.00
36	M	1,2-Dichloroethane	20.000	18.316	8.4	91	0.00
37	M	Trichloroethene	20.000	17.933	10.3	89	0.00
38		Methylcyclohexane	20.000	18.370	8.1	95	0.00
39	M	1,2-Dichloropropane	20.000	17.406	13.0	86	0.00
40		Dibromomethane	20.000	18.010	9.9	90	0.00
41	M	Bromodichloromethane	20.000	17.645	11.8	89	0.00
42	M	Vinyl Acetate	100.000	89.973	10.0	91	0.00
43		Ethyl Acetate	20.000	17.072	14.6	86	0.00
44		Isopropyl Acetate	20.000	17.994	10.0	94	0.00
45	T	1,4-Dioxane	400.000	376.282	5.9	90	0.00
46		Methyl methacrylate	20.000	18.320	8.4	95	0.00
47		n-amyl Acetate	20.000	17.920	10.4	93	0.00
48	M	t-1,3-Dichloropropene	20.000	16.972	15.1	93	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022125\
Data File : VX045014.D
Acq On : 21 Feb 2025 13:09
Operator : JC/MD
Sample : VSTDICV020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022125

Quant Time: Feb 22 01:12:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X022125W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Feb 22 01:06:36 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	cis-1,3-Dichloropropene	20.000	17.491	12.5	90	0.00
50	M	1,1,2-Trichloroethane	20.000	18.451	7.7	90	0.00
51		Ethyl methacrylate	20.000	17.882	10.6	95	0.00
52		1,3-Dichloropropane	20.000	17.765	11.2	87	0.00
53	M	Dibromochloromethane	20.000	17.620	11.9	88	0.00
54	M	1,2-Dibromoethane	20.000	17.616	11.9	88	0.00
55	M	2-Chloroethyl vinyl ether	100.000	85.929	14.1	87	0.00
56	M	Bromoform	20.000	17.412	12.9	92	0.00
57	I	Chlorobenzene-d5	30.000	30.000	0.0	99	0.00
58	M	4-Methyl-2-Pentanone	100.000	93.175	6.8	92	0.00
59	M	2-Hexanone	100.000	95.501	4.5	95	0.00
60	S	4-Bromofluorobenzene	30.000	30.094	-0.3	99	0.00
61	M	Tetrachloroethene	20.000	17.908	10.5	89	0.00
62	M	Toluene	20.000	17.876	10.6	90	0.00
63	S	Toluene-d8	30.000	29.620	1.3	97	0.00
64	M	Chlorobenzene	20.000	17.942	10.3	90	0.00
65		1,1,1,2-Tetrachloroethane	20.000	17.362	13.2	88	0.00
66	M	Ethyl Benzene	20.000	18.117	9.4	93	0.00
67	M	m/p-Xylenes	40.000	36.205	9.5	89	0.00
68	M	o-Xylene	20.000	18.340	8.3	90	0.00
69	M	Styrene	20.000	17.886	10.6	89	0.00
70		Isopropylbenzene	20.000	18.117	9.4	90	0.00
71	M	1,1,2,2-Tetrachloroethane	20.000	18.349	8.3	92	0.00
72		1,2,3-Trichloropropane	20.000	18.172	9.1	92	0.00
73		Bromobenzene	20.000	18.218	8.9	91	0.00
74		n-propylbenzene	20.000	18.269	8.7	92	0.00
75		2-Chlorotoluene	20.000	18.145	9.3	90	0.00
76		1,3,5-Trimethylbenzene	20.000	18.633	6.8	92	0.00
77		t-1,4-Dichloro-2-butene	20.000	15.964	20.2	92	0.00
78		4-Chlorotoluene	20.000	18.131	9.3	91	0.00
79		tert-butylbenzene	20.000	18.420	7.9	91	0.00
80		1,2,4-Trimethylbenzene	20.000	18.423	7.9	90	0.00
81		sec-Butylbenzene	20.000	18.461	7.7	92	0.00
82		p-Isopropyltoluene	20.000	18.616	6.9	93	0.00
83	M	1,3-Dichlorobenzene	20.000	18.234	8.8	91	0.00
84	M	1,4-Dichlorobenzene	20.000	18.390	8.0	92	0.00
85		n-Butylbenzene	20.000	18.213	8.9	94	0.00
86	T	Hexachloroethane	20.000	17.309	13.5	93	0.00
87	M	1,2-Dichlorobenzene	20.000	18.513	7.4	91	0.00
88		1,2-Dibromo-3-Chloropropane	20.000	17.893	10.5	96	0.00
89		1,2,4-Trichlorobenzene	20.000	18.126	9.4	95	0.00
90		Hexachlorobutadiene	20.000	18.726	6.4	94	0.00
91	M	Naphthalene	20.000	18.271	8.6	93	0.00
92		1,2,3-Trichlorobenzene	20.000	17.312	13.4	88	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Raw Data: **VX045340.D**

Alliance TECHNICAL GROUP

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: ALLI03

Lab Code: CHEM Case No.: Q1502 SAS No.: Q1502 SDG No.: Q1502

Instrument ID: MSVOA_X Calibration Date/Time: 03/19/2025 10:41

Lab File ID: VX045340.D Init. Calib. Date(s): 02/21/2025 02/21/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 09:58 11:29

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

COMPOUND	RRF	RRF020	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	2.529	2.632		4.07	
Chloromethane	3.029	2.718		-10.27	
Vinyl Chloride	2.923	2.544	0.1	-12.97	
Ethyl Acetate	0.598	0.716		19.73	
Bromomethane	1.017	1.128	0.1	10.91	
Chloroethane	1.583	1.341		-15.29	
Trichlorofluoromethane	3.928	3.690		-6.06	
1,1,2-Trichlorotrifluoroethane	2.333	2.471		5.91	
1,1-Dichloroethene	2.279	2.299	0.1	0.88	
Acrolein	0.530	0.631		19.06	
Acrylonitrile	1.293	1.467		13.46	
Acetone	0.355	0.395		11.27	
Carbon Disulfide	6.464	5.226		-19.15	
Methyl tert-Butyl Ether	7.438	7.562		1.67	
Methylene Chloride	2.563	2.580		0.66	
trans-1,2-Dichloroethene	2.306	2.205		-4.38	
Vinyl Acetate	1.237	1.256		1.54	
1,1-Dichloroethane	4.555	4.617	0.2	1.36	
2-Butanone	0.319	0.396		24.14	
Carbon Tetrachloride	0.564	0.602	0.1	6.74	
2,2-Dichloropropane	0.624	0.597		-4.33	
cis-1,2-Dichloroethene	2.763	2.788		0.9	
Chloroform	4.400	4.726	0.2	7.41	
1,1,1-Trichloroethane	0.669	0.727	0.1	8.67	
1,1-Dichloropropene	0.552	0.569		3.08	
Benzene	1.731	1.833	0.5	5.89	
1,2-Dichloroethane	0.592	0.694	0.1	17.23	
Trichloroethene	0.405	0.424	0.3	4.69	
1,2-Dichloropropane	0.430	0.448		4.19	
Dibromomethane	0.309	0.346		11.97	
Bromodichloromethane	0.614	0.683	0.2	11.24	
4-Methyl-2-Pentanone	0.682	0.832		21.99	
Toluene	1.987	2.063	0.4	3.83	
t-1,3-Dichloropropene	0.591	0.563	0.1	-4.74	
cis-1,3-Dichloropropene	0.670	0.674	0.2	0.6	
1,1,2-Trichloroethane	0.403	0.444	0.1	10.17	
1,3-Dichloropropane	0.706	0.796		12.75	
2-Chloroethyl vinyl ether	0.325	0.336		3.38	

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Raw Data: **VX045340.D**

Alliance TECHNICAL GROUP

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: ALLI03

Lab Code: CHEM Case No.: Q1502 SAS No.: Q1502 SDG No.: Q1502

Instrument ID: MSVOA_X Calibration Date/Time: 03/19/2025 10:41

Lab File ID: VX045340.D Init. Calib. Date(s): 02/21/2025 02/21/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 09:58 11:29

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

COMPOUND	RRF	RRF020	MIN RRF	%D	MAX%D
2-Hexanone	0.493	0.608		23.33	
Dibromochloromethane	0.445	0.483	0.1	8.54	
1,2-Dibromoethane	0.409	0.450		10.02	
Tetrachloroethene	0.369	0.402	0.2	8.94	
Chlorobenzene	1.231	1.280	0.5	3.98	
1,1,1,2-Tetrachloroethane	0.406	0.428		5.42	
Ethyl Benzene	2.176	2.264	0.1	4.04	
m/p-Xylenes	0.811	0.854	0.3	5.3	
o-Xylene	0.795	0.811	0.3	2.01	
Styrene	1.328	1.394	0.3	4.97	
Bromoform	0.279	0.296	0.1	6.09	
Isopropylbenzene	2.053	2.224		8.33	
1,1,2,2-Tetrachloroethane	0.675	0.777	0.3	15.11	
1,2,3-Trichloropropane	0.555	0.644		16.04	
Bromobenzene	0.473	0.488		3.17	
n-propylbenzene	2.443	2.564		4.95	
2-Chlorotoluene	1.477	1.596		8.06	
1,3,5-Trimethylbenzene	1.693	1.806		6.68	
4-Chlorotoluene	1.646	1.755		6.62	
1,2,4-Trimethylbenzene	1.696	1.802		6.25	
sec-Butylbenzene	2.141	2.320		8.36	
p-Isopropyltoluene	1.735	1.845		6.34	
1,3-Dichlorobenzene	0.879	0.891	0.2	1.37	
1,4-Dichlorobenzene	0.867	0.904	0.2	4.27	
n-Butylbenzene	1.584	1.603		1.2	
1,2-Dichlorobenzene	0.863	0.898	0.2	4.06	
1,2-Dibromo-3-Chloropropane	0.131	0.150		14.5	
1,2,4-Trichlorobenzene	0.523	0.502	0.2	-4.01	
Hexachlorobutadiene	0.213	0.218		2.35	
Naphthalene	1.843	1.848		0.27	
1,2,3-Trichlorobenzene	0.538	0.529		-1.67	
1,2-Dichloroethane-d4	2.914	3.187	0.01	9.37	
Toluene-d8	1.660	1.665	0.01	0.3	
4-Bromofluorobenzene	0.561	0.584	0.2	4.1	

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX031925\
Data File : VX045340.D
Acq On : 19 Mar 2025 10:41
Operator : JC/MD
Sample : VSTDCCC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 20 01:30:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X022125W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Feb 22 01:06:36 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC020

Manual Integrations APPROVED

Reviewed By :John Carlone 03/20/2025
Supervised By :Mahesh Dadoda 03/20/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	4.897	128	16449	30.000	ug/l	0.01
28) 1,4-Difluorobenzene	6.757	114	86152	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.049	117	80895	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.946	65	52421	32.812	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 109.367%			
60) 4-Bromofluorobenzene	11.079	95	47245	31.246	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 104.167%			
63) Toluene-d8	8.647	98	134720	30.103	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.333%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	28861	20.814	ug/l	95
3) Chloromethane	1.307	50	29803	17.945	ug/l	99
4) Vinyl Chloride	1.374	62	27895	17.406	ug/l	93
5) Bromomethane	1.593	94	12365	22.166	ug/l	99
6) Chloroethane	1.666	64	14707	16.944	ug/l	95
7) Trichlorofluoromethane	1.874	101	40466	18.787	ug/l	98
8) Diethyl Ether	2.130	74	13892	17.046	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.319	101	27092	21.178	ug/l	98
10) 1,1-Dichloroethene	2.313	96	25210	20.176	ug/l	93
11) Methyl Iodide	2.441	142	29634	20.954	ug/l	97
12) Methyl Acetate	2.703	43	48377	33.340	ug/l	96
13) Acrolein	2.233	56	34607	118.988	ug/l	99
14) Acrylonitrile	3.062	53	80413	113.456	ug/l	97
15) Acetone	2.380	58	21649	111.373	ug/l	93
16) Carbon Disulfide	2.502	76	57310	16.170	ug/l	100
17) Allyl chloride	2.654	41	45792	19.594	ug/l	96
18) Methylene Chloride	2.782	84	28292	20.130	ug/l	94
19) trans-1,2-Dichloroethene	3.081	96	24177	19.124	ug/l	90
20) Diisopropyl ether	3.757	45	89800	19.995	ug/l	91
21) 1,1-Dichloroethane	3.605	63	50635	20.273	ug/l	98
22) cis-1,2-Dichloroethene	4.477	96	30571	20.180	ug/l	100
23) tert-Butyl Alcohol	2.977	59	23432	94.701	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	82928	20.334	ug/l	94
25) Chloroform	5.080	83	51829	21.483	ug/l	99
26) Cyclohexane	5.458	56	44003	19.086	ug/l #	99
29) 1,1-Dichloropropene	5.684	75	32662	20.610	ug/l	99
30) 2-Butanone	4.556	43	113838	124.364	ug/l	98
31) 2,2-Dichloropropane	4.465	77	34312	19.147	ug/l	99
32) 1,1,1-Trichloroethane	5.373	97	41753	21.744	ug/l	97
33) Carbon Tetrachloride	5.666	117	34574	21.335	ug/l	96
34) Benzene	6.031	78	105267	21.181	ug/l	98
35) Methacrylonitrile	4.916	41	23610	24.103	ug/l	97
36) 1,2-Dichloroethane	6.080	62	39838	23.413	ug/l	97
37) Trichloroethene	7.123	130	24342	20.936	ug/l	99
38) Methylcyclohexane	7.373	83	42471	19.959	ug/l	99
39) 1,2-Dichloropropane	7.428	63	25728	20.823	ug/l	98
40) Dibromomethane	7.580	93	19891	22.434	ug/l	95
41) Bromodichloromethane	7.818	83	39228	22.261	ug/l	99
42) Vinyl Acetate	3.715	43	360651	101.532	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX031925\
Data File : VX045340.D
Acq On : 19 Mar 2025 10:41
Operator : JC/MD
Sample : VSTDCCC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 20 01:30:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X022125W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Feb 22 01:06:36 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC020

Manual Integrations APPROVED

Reviewed By :John Carlone 03/20/2025
Supervised By :Mahesh Dadoda 03/20/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.708	43	41125	23.957	ug/l	97
44) Isopropyl Acetate	6.342	43	62292	22.048	ug/l	98
45) 1,4-Dioxane	7.659	88	11574	394.071	ug/l	99
46) Methyl methacrylate	7.690	41	33143	23.923	ug/l	91
47) n-amyl Acetate	10.842	43	50805	20.723	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	32357	19.050	ug/l	98
49) cis-1,3-Dichloropropene	8.360	75	38687	20.120	ug/l	94
50) 1,1,2-Trichloroethane	9.147	97	25507	22.055	ug/l	96
51) Ethyl methacrylate	9.116	69	38805	21.334	ug/l	95
52) 1,3-Dichloropropane	9.305	76	45730	22.567	ug/l	98
53) Dibromochloromethane	9.519	129	27768	21.709	ug/l	96
54) 1,2-Dibromoethane	9.610	107	25822	21.988	ug/l	98
55) 2-Chloroethyl vinyl ether	8.238	63	96601	103.422	ug/l	99
56) Bromoform	10.799	173	16989	21.196	ug/l	99
58) 4-Methyl-2-Pentanone	8.568	43	224283	121.880	ug/l	100
59) 2-Hexanone	9.427	43	163850	123.186	ug/l	98
61) Tetrachloroethene	9.269	164	21660	21.744	ug/l	95
62) Toluene	8.714	91	111284	20.767	ug/l	99
64) Chlorobenzene	10.079	112	69016	20.784	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.159	131	23101	21.083	ug/l	99
66) Ethyl Benzene	10.189	91	122105	20.813	ug/l	98
67) m/p-Xylenes	10.299	106	92122	42.144	ug/l	97
68) o-Xylene	10.640	106	43730	20.390	ug/l	93
69) Styrene	10.653	104	75199	20.993	ug/l	98
70) Isopropylbenzene	10.957	105	119932	21.669	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.207	83	41882	23.012	ug/l	98
72) 1,2,3-Trichloropropane	11.238	75	34753m	23.216	ug/l	
73) Bromobenzene	11.195	156	26330	20.665	ug/l	97
74) n-propylbenzene	11.299	91	138300	20.998	ug/l	98
75) 2-Chlorotoluene	11.360	91	86063	21.614	ug/l	98
76) 1,3,5-Trimethylbenzene	11.451	105	97415	21.335	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	9701	19.262	ug/l	81
78) 4-Chlorotoluene	11.451	91	94621	21.317	ug/l	97
79) tert-butylbenzene	11.713	119	96957	21.075	ug/l	97
80) 1,2,4-Trimethylbenzene	11.750	105	97205	21.253	ug/l	99
81) sec-Butylbenzene	11.890	105	125123	21.671	ug/l	99
82) p-Isopropyltoluene	12.006	119	99482	21.265	ug/l	98
83) 1,3-Dichlorobenzene	11.969	146	48062	20.274	ug/l	98
84) 1,4-Dichlorobenzene	12.036	146	48764	20.863	ug/l	99
85) n-Butylbenzene	12.329	91	86472	20.241	ug/l	99
86) Hexachloroethane	12.536	117	16565	20.077	ug/l	98
87) 1,2-Dichlorobenzene	12.335	146	48429	20.821	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.939	75	8082	22.936	ug/l	95
89) 1,2,4-Trichlorobenzene	13.585	180	27076	19.206	ug/l	97
90) Hexachlorobutadiene	13.725	225	11744	20.427	ug/l	94
91) Naphthalene	13.774	128	99680	20.053	ug/l	99
92) 1,2,3-Trichlorobenzene	13.957	180	28538	19.663	ug/l	98

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

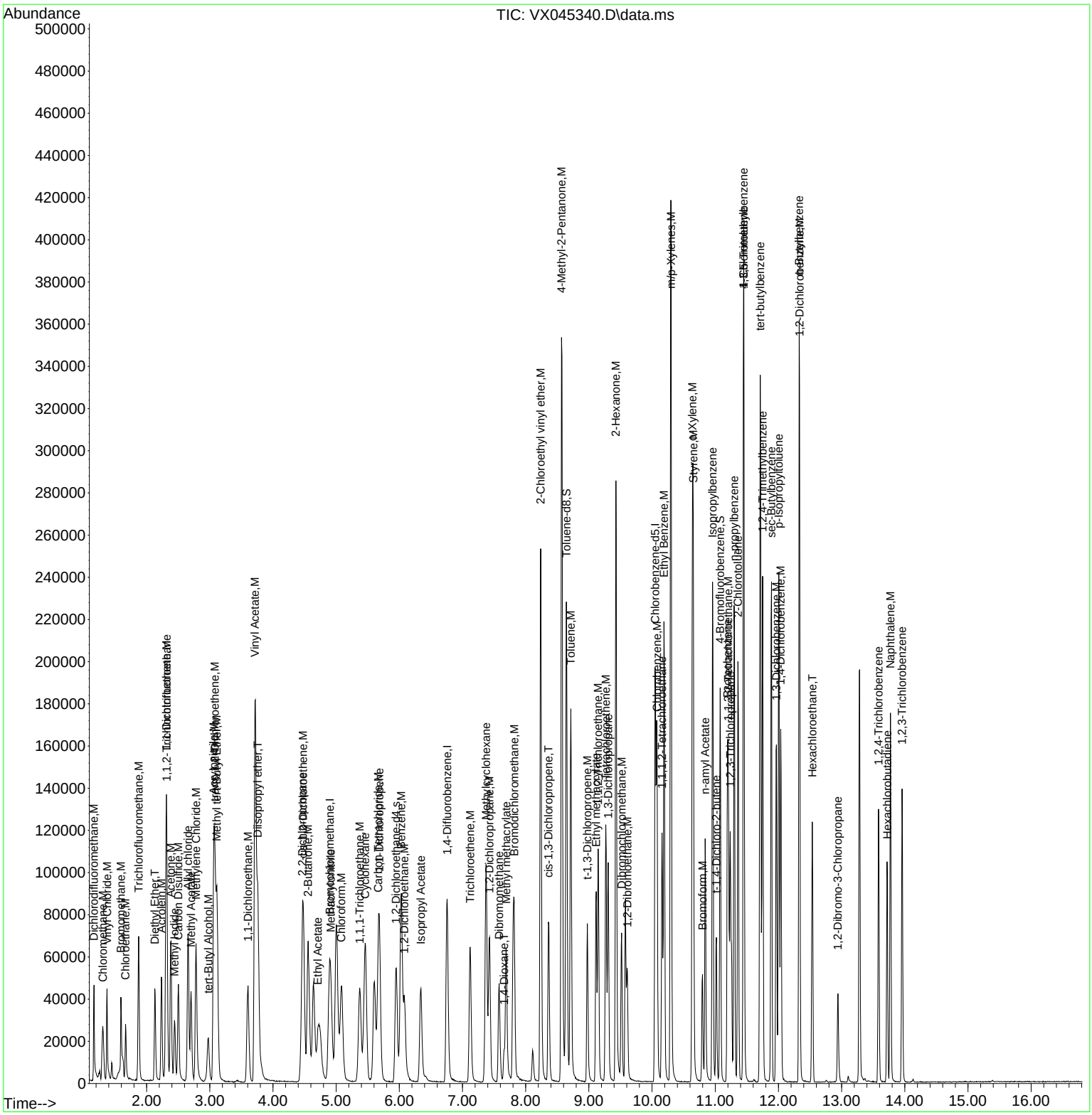
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX031925\
Data File : VX045340.D
Acq On : 19 Mar 2025 10:41
Operator : JC/MD
Sample : VSTDCCC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

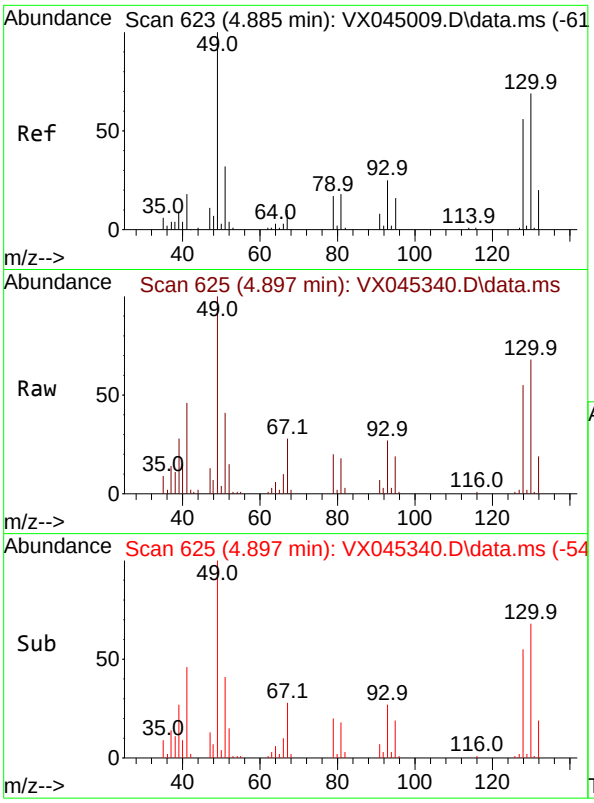
Quant Time: Mar 20 01:30:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X022125W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Feb 22 01:06:36 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC020

Manual Integrations APPROVED

Reviewed By :John Carlone 03/20/2025
Supervised By :Mahesh Dadoda 03/20/2025

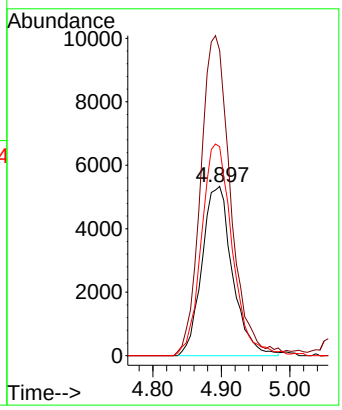




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.897 min Scan# 6
Delta R.T. 0.012 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion:128 Resp: 1644

Ion	Ratio	Lower	Upper
128	100		
49	184.3	0.0	449.7
130	126.2	0.0	312.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC020

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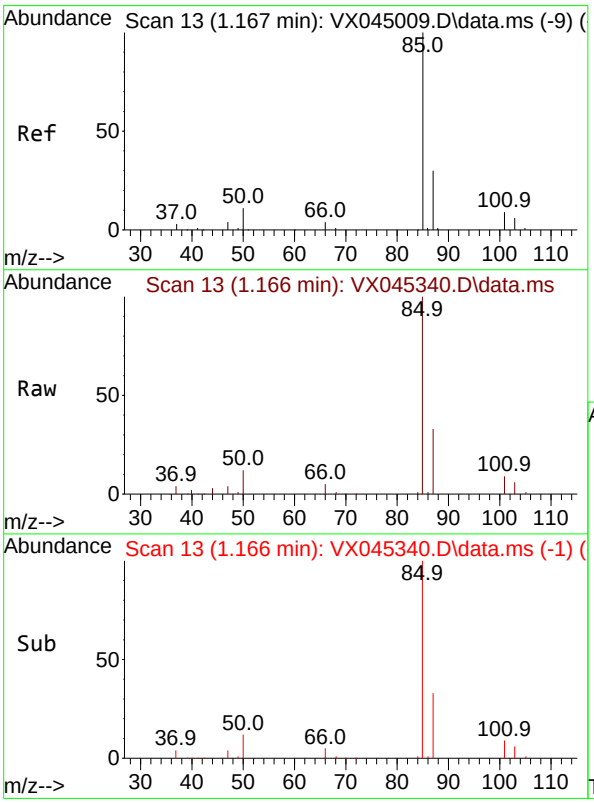
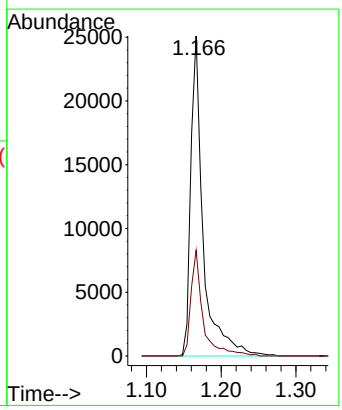
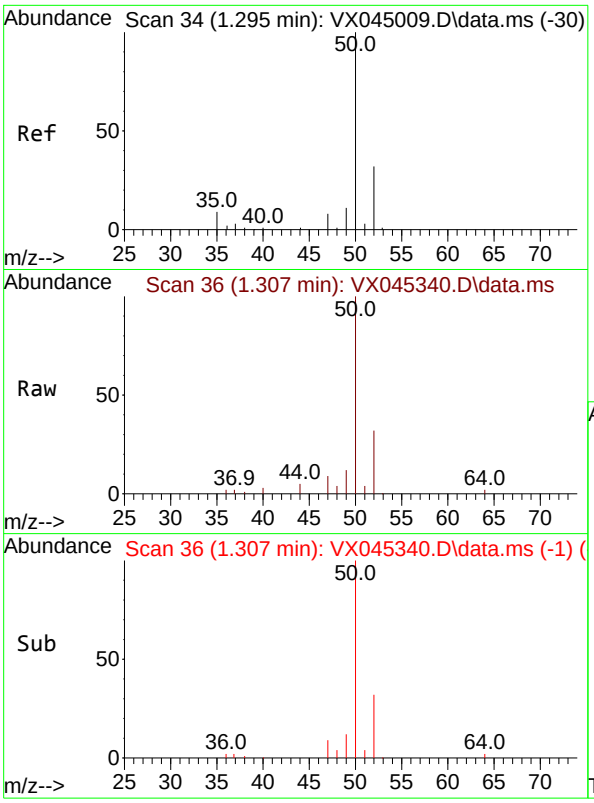


#2
Dichlorodifluoromethane
Concen: 20.814 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion: 85 Resp: 28861

Ion	Ratio	Lower	Upper
85	100		
87	33.0	15.1	45.3

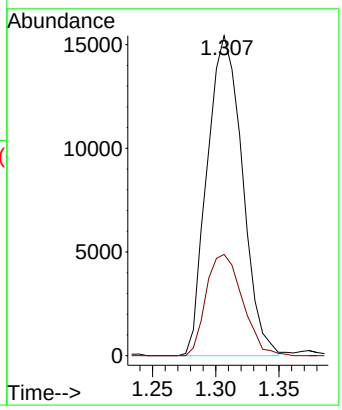




#3
Chloromethane
Concen: 17.945 ug/l
RT: 1.307 min Scan# 3
Delta R.T. 0.012 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion: 50 Resp: 2980

Ion	Ratio	Lower	Upper
50	100		
52	31.7	25.7	38.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC020

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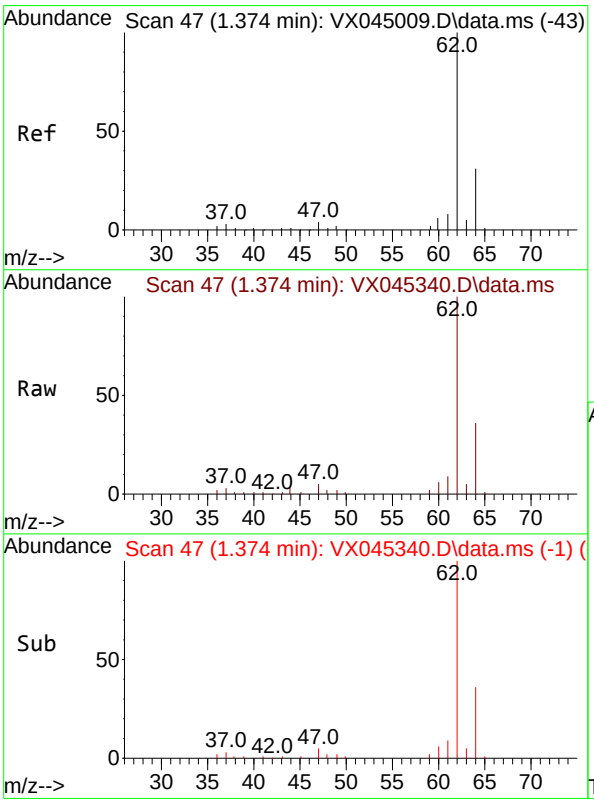
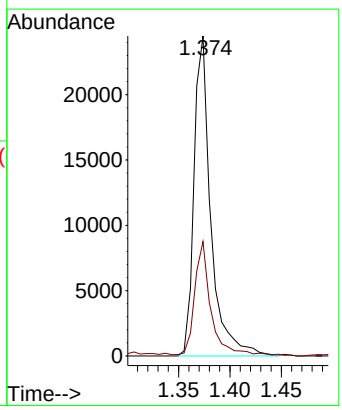
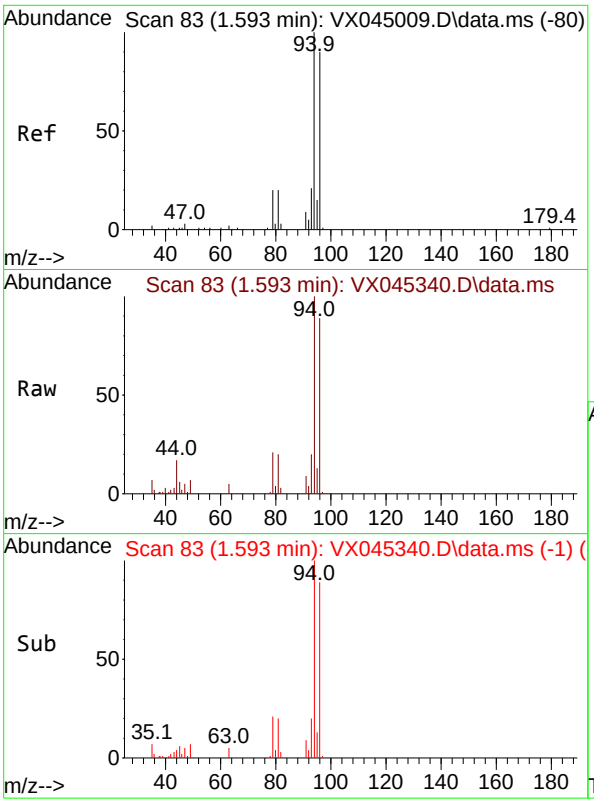


#4
Vinyl Chloride
Concen: 17.406 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion: 62 Resp: 27895

Ion	Ratio	Lower	Upper
62	100		
64	35.3	25.1	37.7

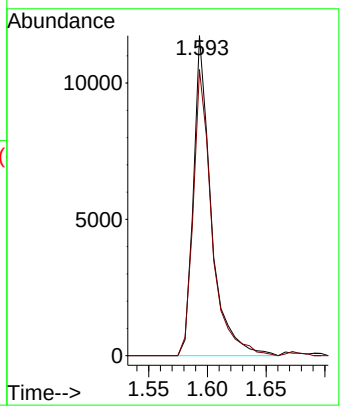




#5
Bromomethane
Concen: 22.166 ug/l
RT: 1.593 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion: 94 Resp: 1236

Ion	Ratio	Lower	Upper
94	100		
96	89.4	72.2	108.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC020

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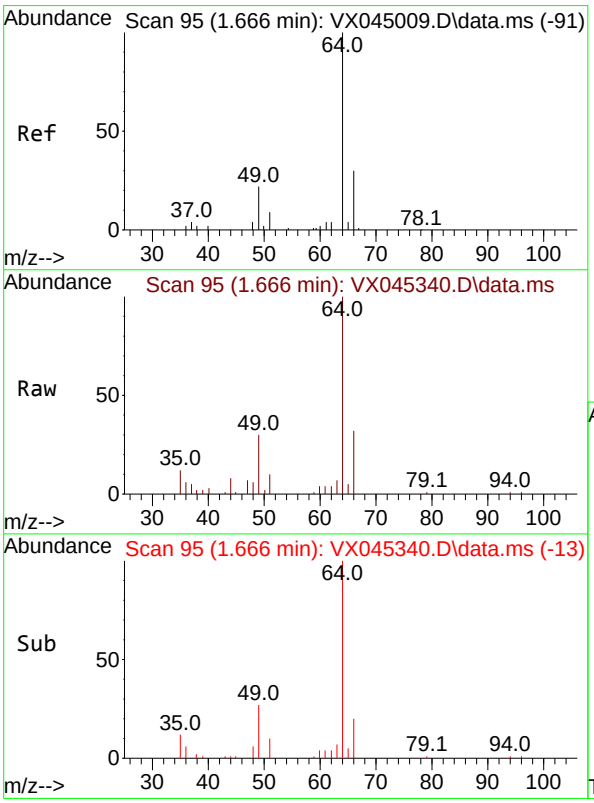
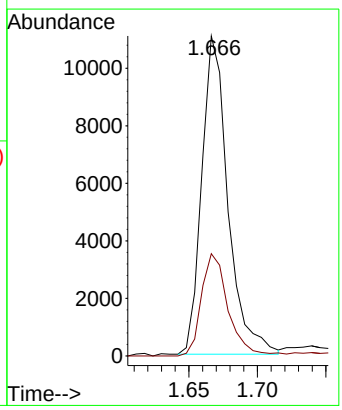
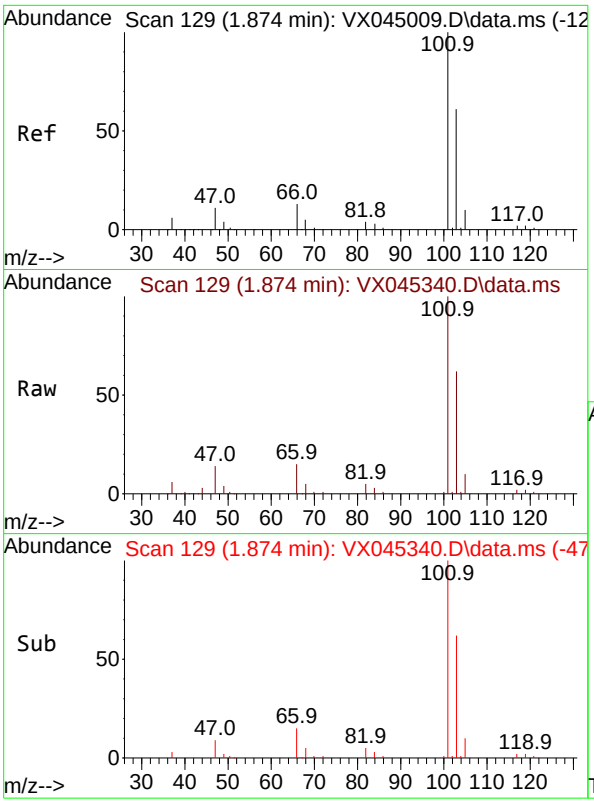


#6
Chloroethane
Concen: 16.944 ug/l
RT: 1.666 min Scan# 95
Delta R.T. -0.000 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion: 64 Resp: 14707

Ion	Ratio	Lower	Upper
64	100		
66	32.2	23.7	35.5





#7
Trichlorofluoromethane
Concen: 18.787 ug/l
RT: 1.874 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion:101 Resp: 4046

Ion	Ratio	Lower	Upper
101	100		
103	62.4	48.8	73.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC020

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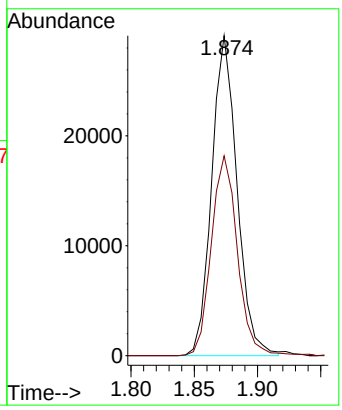
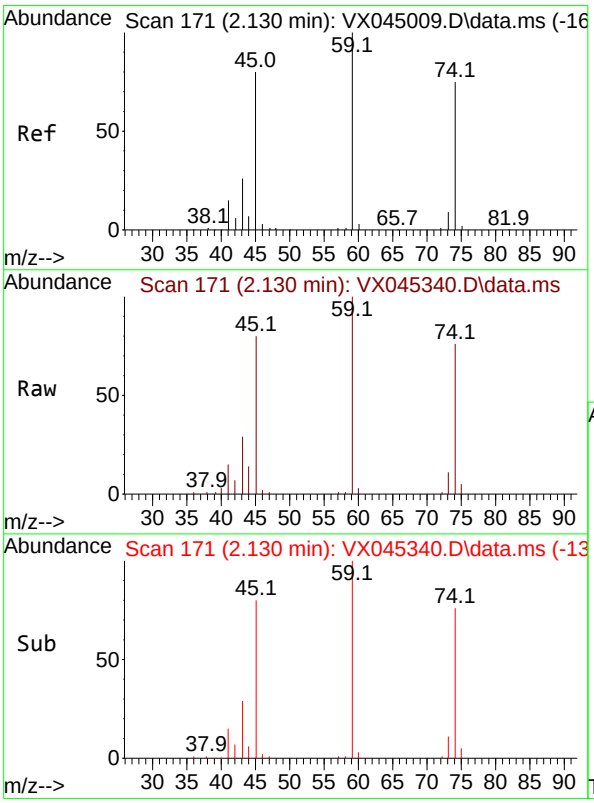
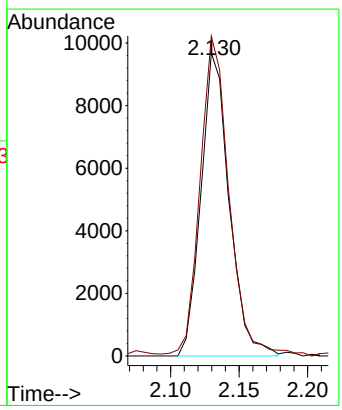


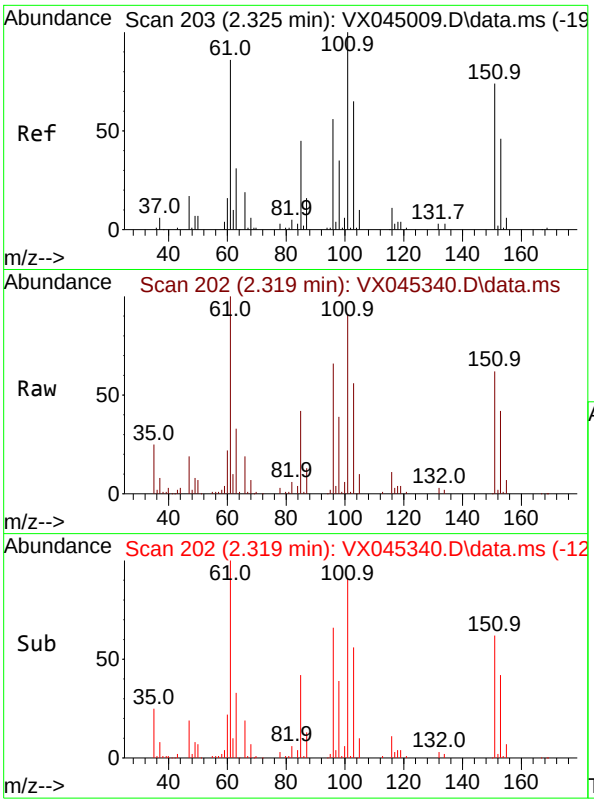


#8
Diethyl Ether
Concen: 17.046 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.000 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion: 74 Resp: 13892

Ion	Ratio	Lower	Upper
74	100		
45	106.3	20.8	186.8





#9
1,1,2-Trichlorotrifluoroethane
Concen: 21.178 ug/l
RT: 2.319 min Scan# 2(
Delta R.T. -0.006 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion:101 Resp: 2709

Ion	Ratio	Lower	Upper
101	100		
85	45.1	0.0	90.6
151	71.1	0.0	147.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC020

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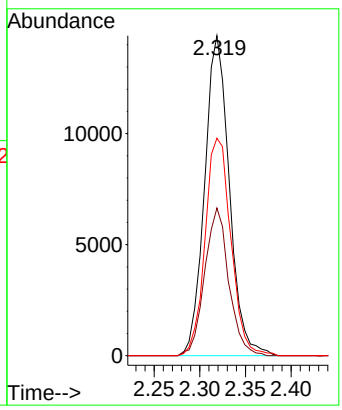
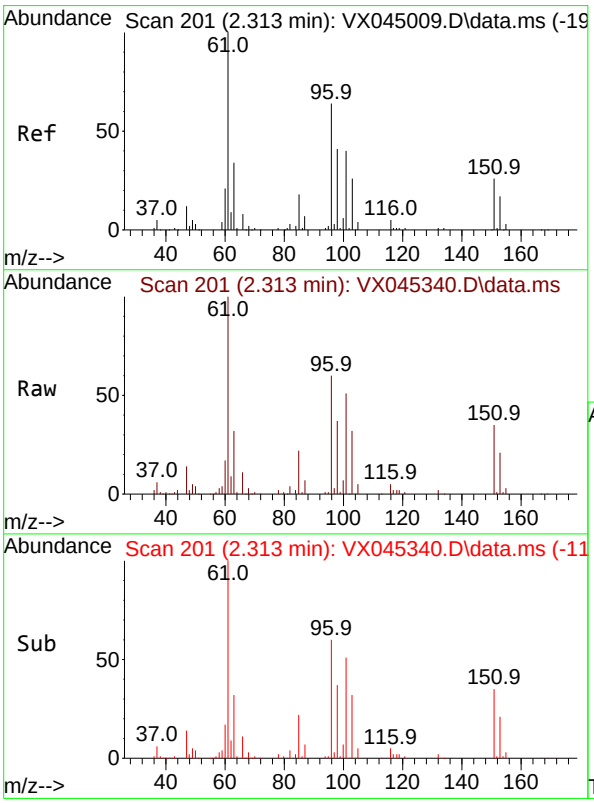
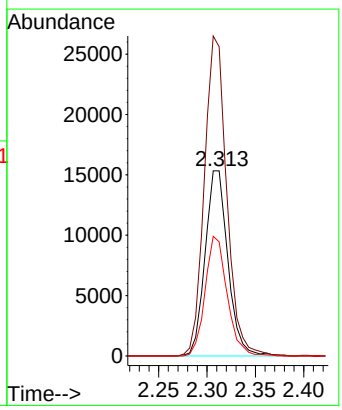


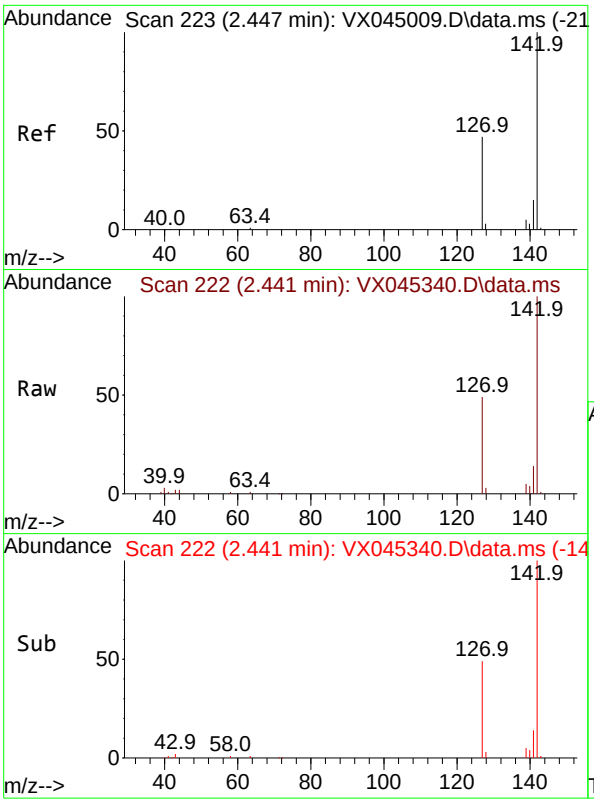


#10
1,1-Dichloroethene
Concen: 20.176 ug/l
RT: 2.313 min Scan# 201
Delta R.T. -0.000 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion: 96 Resp: 25210

Ion	Ratio	Lower	Upper
96	100		
61	167.0	124.2	186.2
98	61.7	51.1	76.7

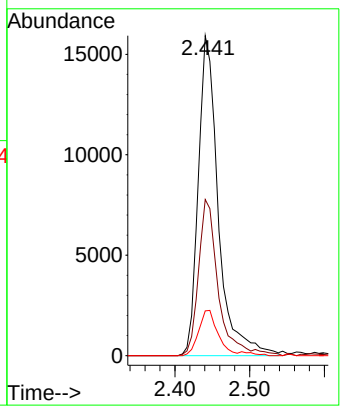




#11
Methyl Iodide
Concen: 20.954 ug/l
RT: 2.441 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion:142 Resp: 2963

Ion	Ratio	Lower	Upper
142	100		
127	48.7	23.3	69.9
141	14.0	7.5	22.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC020

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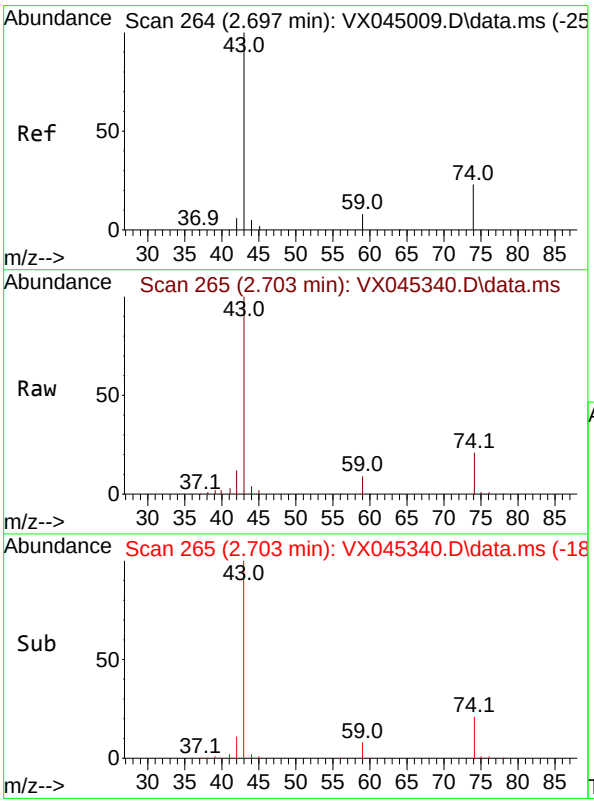
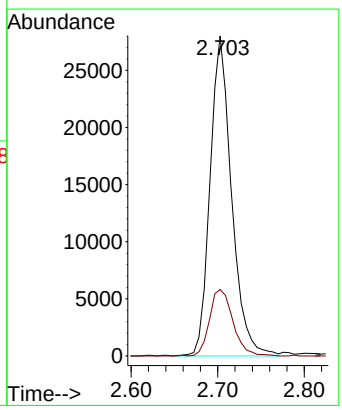
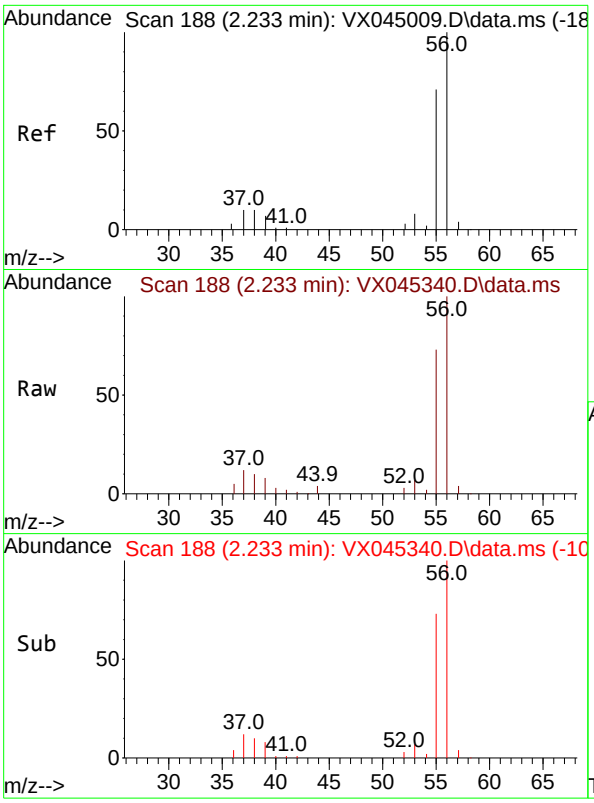


#12
Methyl Acetate
Concen: 33.340 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.006 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion: 43 Resp: 48377

Ion	Ratio	Lower	Upper
43	100		
74	20.7	17.9	26.9

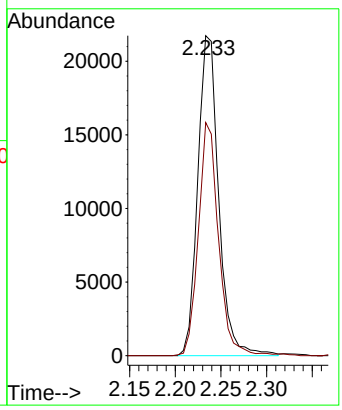




#13
Acrolein
Concen: 118.988 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion: 56 Resp: 3460

Ion	Ratio	Lower	Upper
56	100		
55	68.9	55.4	83.2



Instrument :
MSVOA_X
ClientSampleId :
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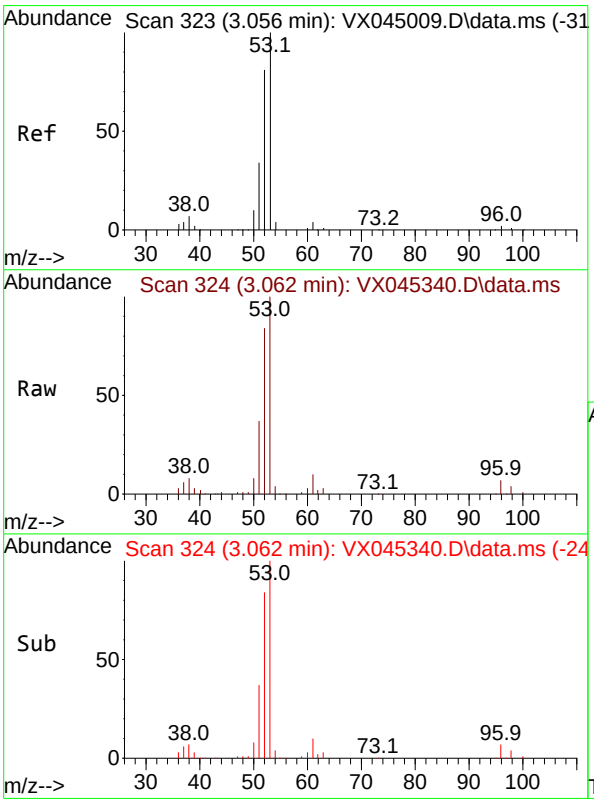
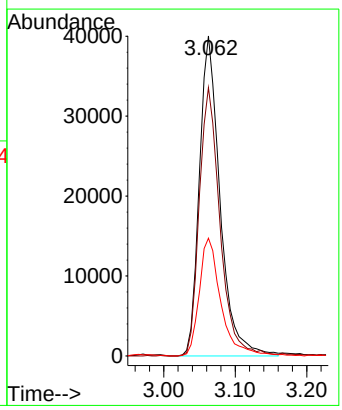
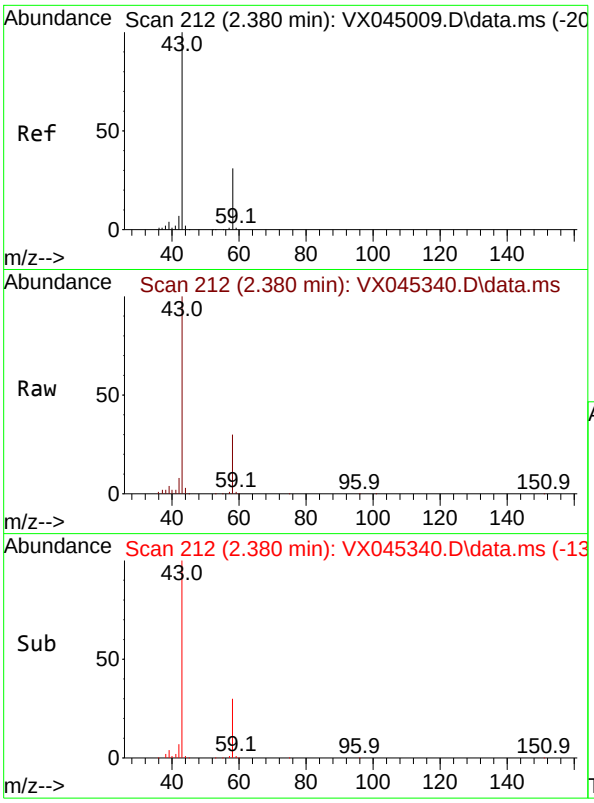


#14
Acrylonitrile
Concen: 113.456 ug/l
RT: 3.062 min Scan# 324
Delta R.T. 0.006 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion: 53 Resp: 80413

Ion	Ratio	Lower	Upper
53	100		
52	84.1	40.9	122.8
51	38.4	18.0	54.0





#15
Acetone
Concen: 111.373 ug/l
RT: 2.380 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion: 58 Resp: 2164

Ion	Ratio	Lower	Upper
58	100		
43	337.7	258.6	388.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC020

Manual Integrations
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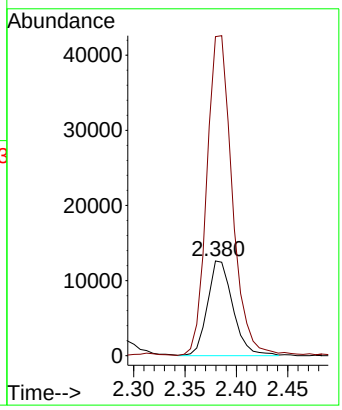
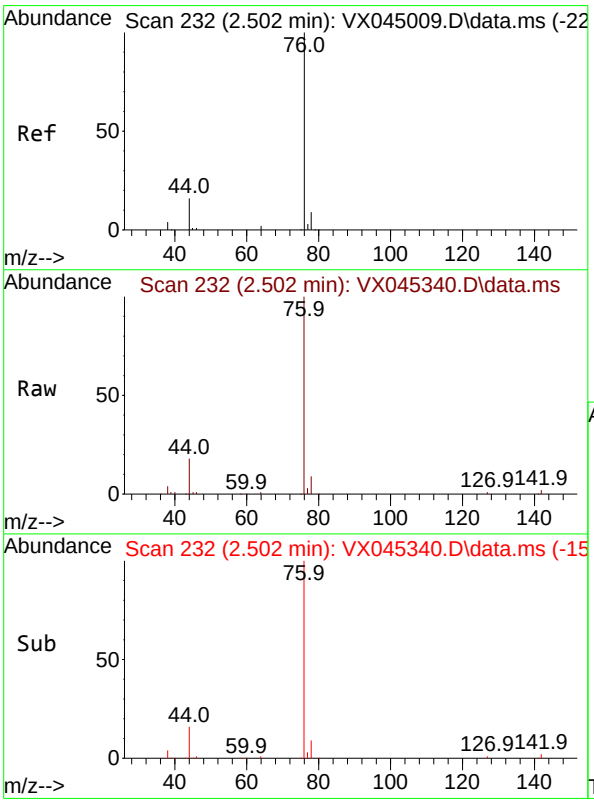
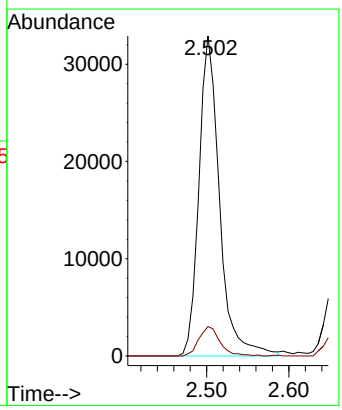


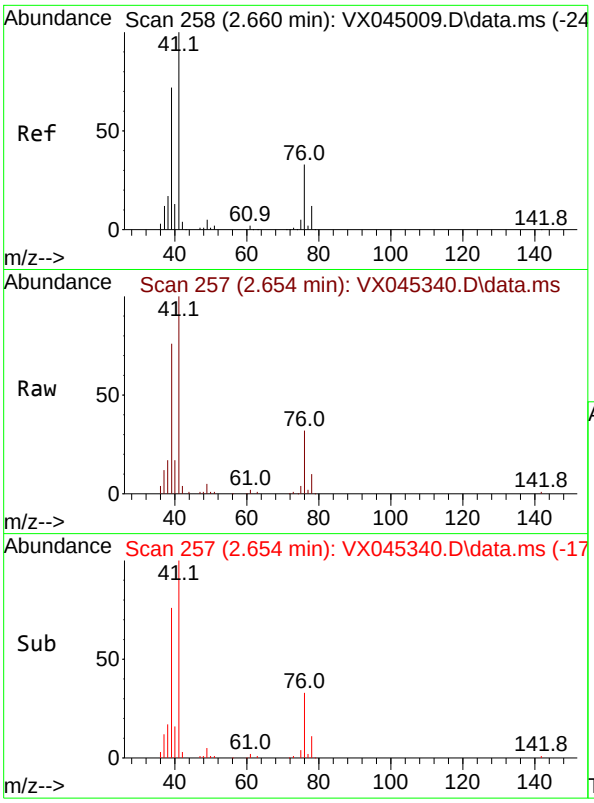


#16
Carbon Disulfide
Concen: 16.170 ug/l
RT: 2.502 min Scan# 232
Delta R.T. -0.000 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion: 76 Resp: 57310

Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.3	10.9

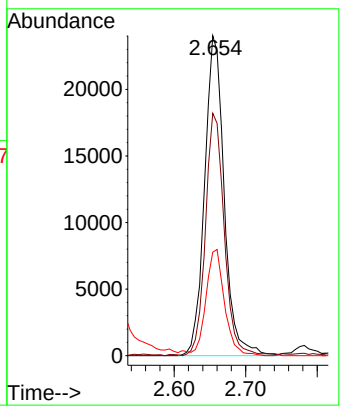




#17
Allyl chloride
Concen: 19.594 ug/l
RT: 2.654 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion: 41 Resp: 4579

Ion	Ratio	Lower	Upper
41	100		
39	75.5	36.2	108.6
76	32.1	17.2	51.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC020

Manual Integrations
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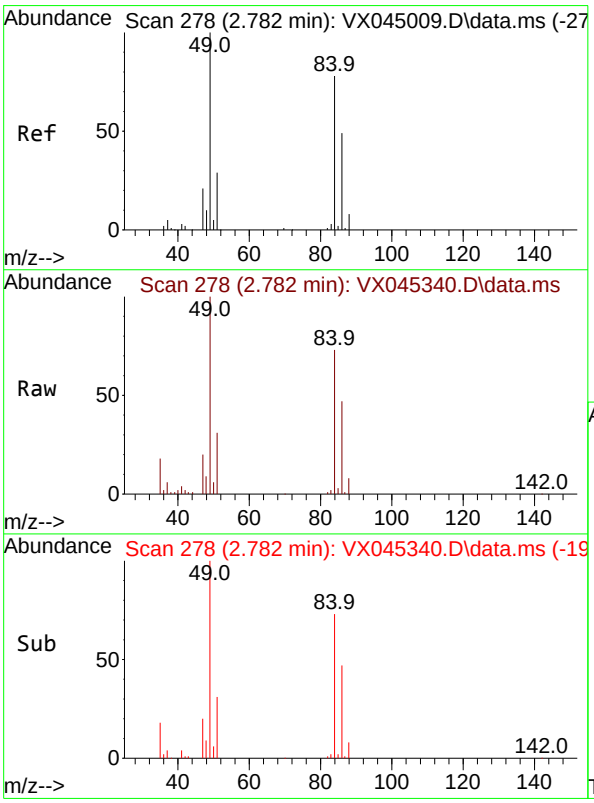
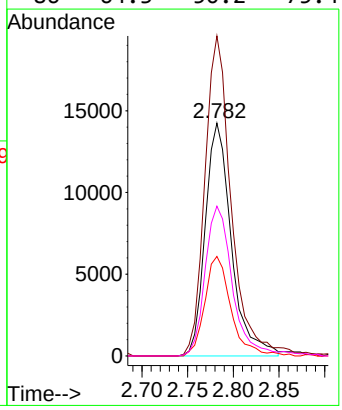
Supervised By :Mahesh Dadoda 03/20/2025

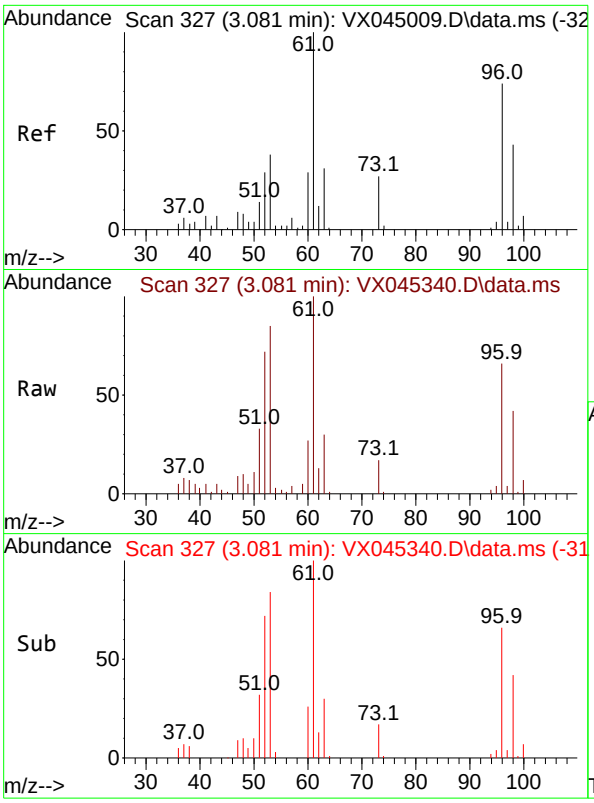


#18
Methylene Chloride
Concen: 20.130 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion: 84 Resp: 28292

Ion	Ratio	Lower	Upper
84	100		
49	137.5	102.8	154.2
51	42.8	30.1	45.1
86	64.3	50.2	75.4

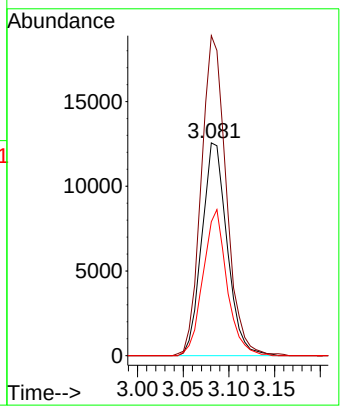




#19
trans-1,2-Dichloroethene
Concen: 19.124 ug/l
RT: 3.081 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion: 96 Resp: 2417

Ion	Ratio	Lower	Upper
96	100		
61	149.5	108.6	163.0
98	63.0	46.5	69.7



Instrument :
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ClientSampleId :
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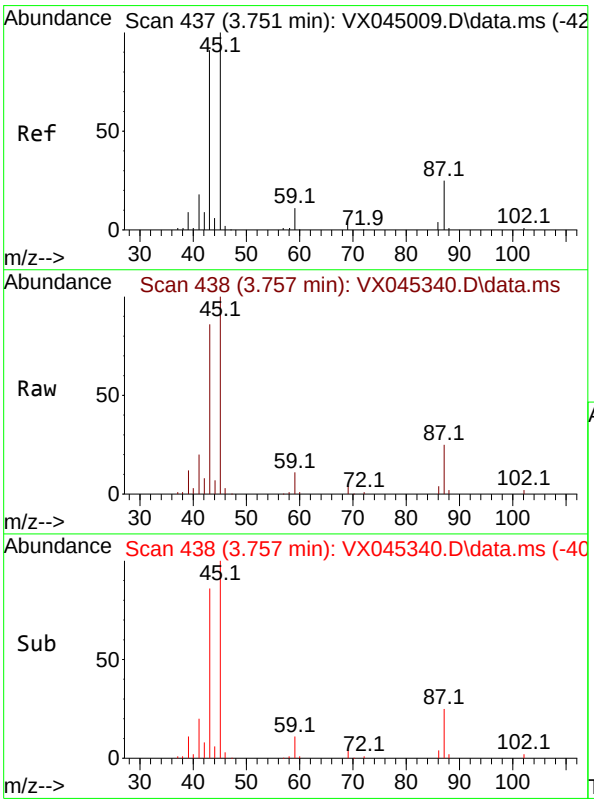
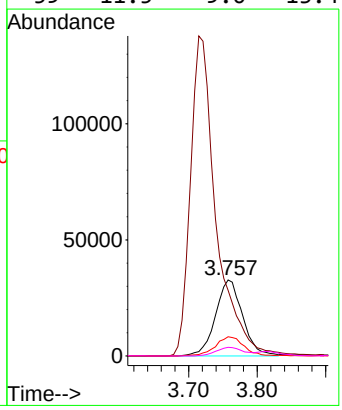
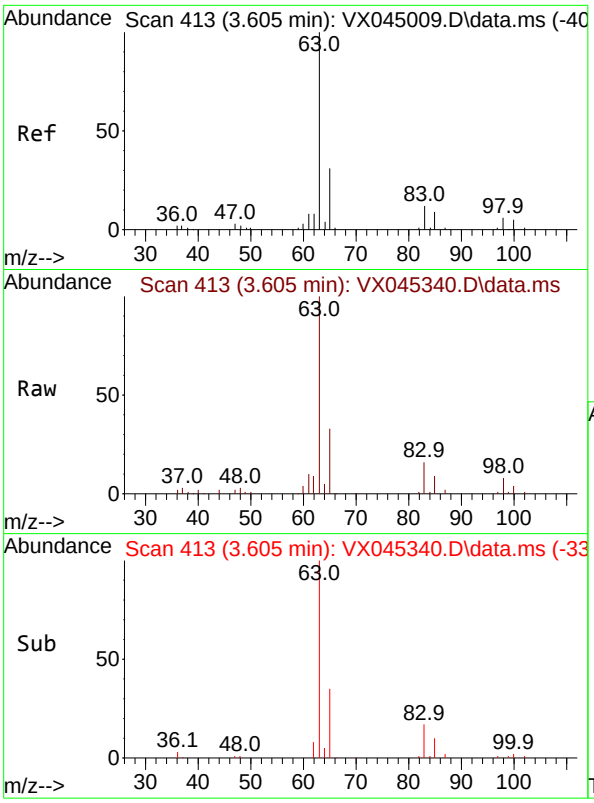


#20
Diisopropyl ether
Concen: 19.995 ug/l
RT: 3.757 min Scan# 438
Delta R.T. 0.006 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion: 45 Resp: 89800

Ion	Ratio	Lower	Upper
45	100		
43	81.6	74.4	111.6
87	25.2	19.8	29.8
59	11.5	9.0	13.4

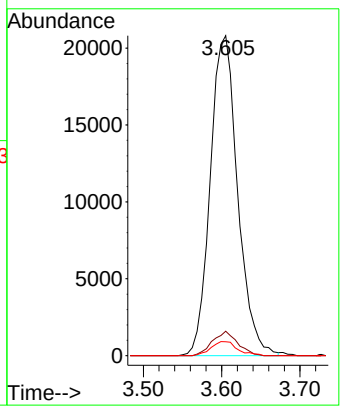




#21
1,1-Dichloroethane
Concen: 20.273 ug/l
RT: 3.605 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion: 63 Resp: 5063

Ion	Ratio	Lower	Upper
63	100		
98	7.6	3.3	9.8
100	4.3	2.4	7.1



Instrument :
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ClientSampleId :
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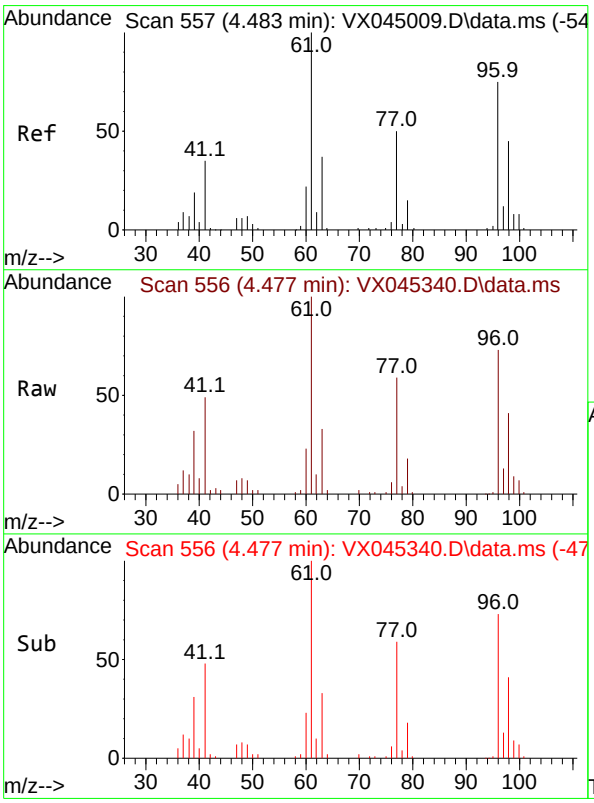
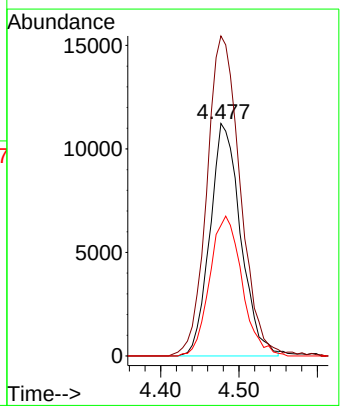
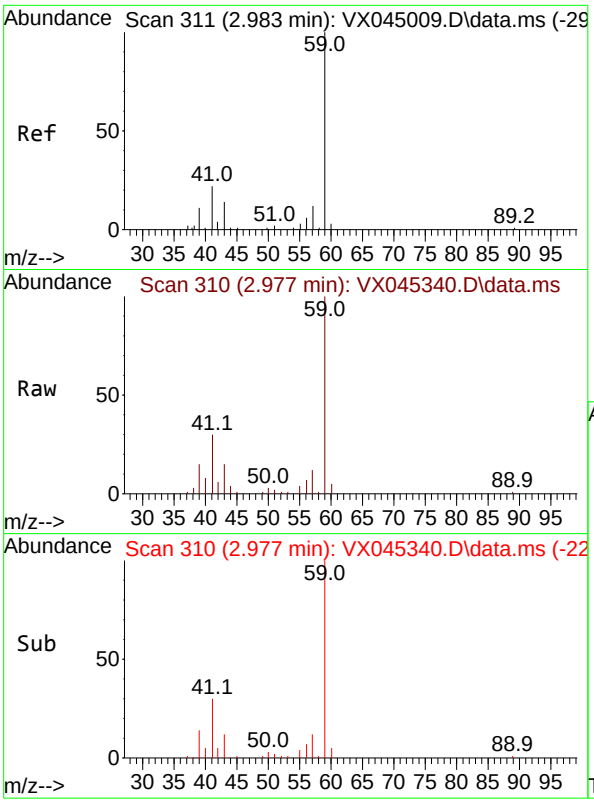


#22
cis-1,2-Dichloroethene
Concen: 20.180 ug/l
RT: 4.477 min Scan# 556
Delta R.T. -0.006 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion: 96 Resp: 30571

Ion	Ratio	Lower	Upper
96	100		
61	148.9	118.9	178.3
98	63.2	50.7	76.1





#23
tert-Butyl Alcohol
Concen: 94.701 ug/l
RT: 2.977 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion: 59 Resp: 2343

Ion	Ratio	Lower	Upper
59	100		
52	0.0	0.0	0.0

Instrument :
MSVOA_X
ClientSampleId :
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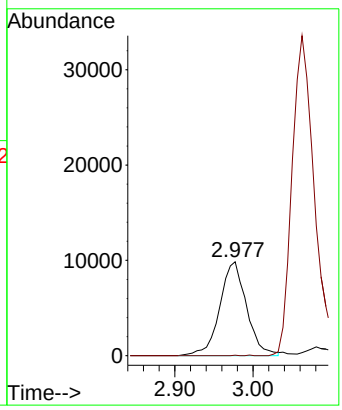
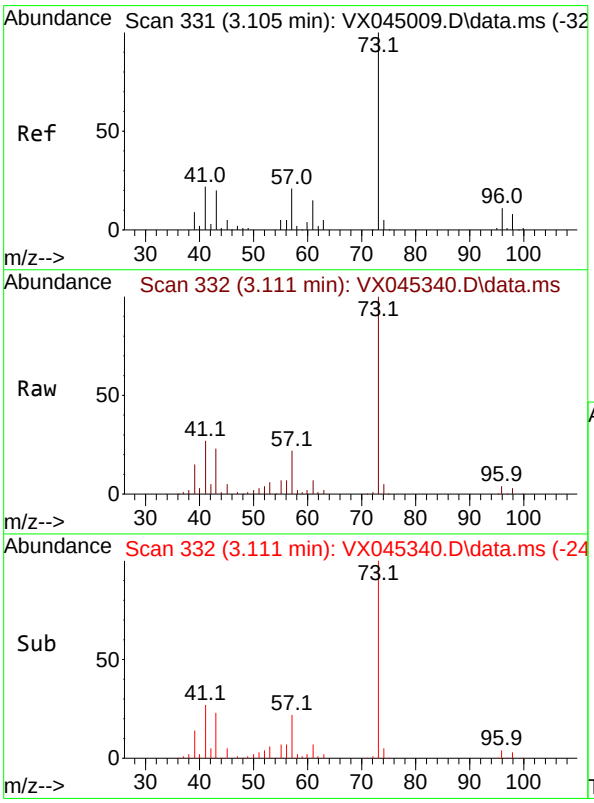
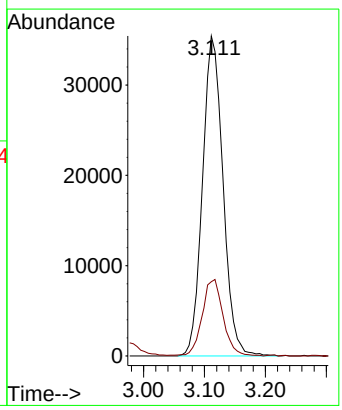


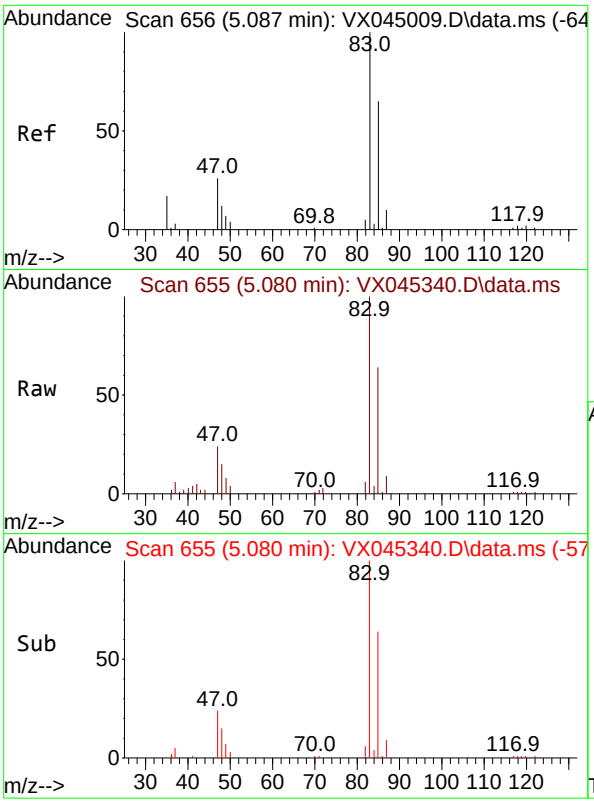


#24
Methyl tert-Butyl Ether
Concen: 20.334 ug/l
RT: 3.111 min Scan# 332
Delta R.T. 0.006 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion: 73 Resp: 82928

Ion	Ratio	Lower	Upper
73	100		
43	24.4	17.4	26.0

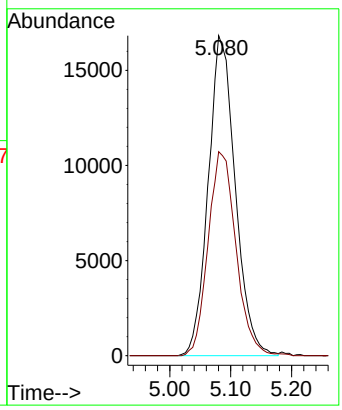




#25
Chloroform
Concen: 21.483 ug/l
RT: 5.080 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion: 83 Resp: 5182

Ion	Ratio	Lower	Upper
83	100		
85	63.8	51.7	77.5



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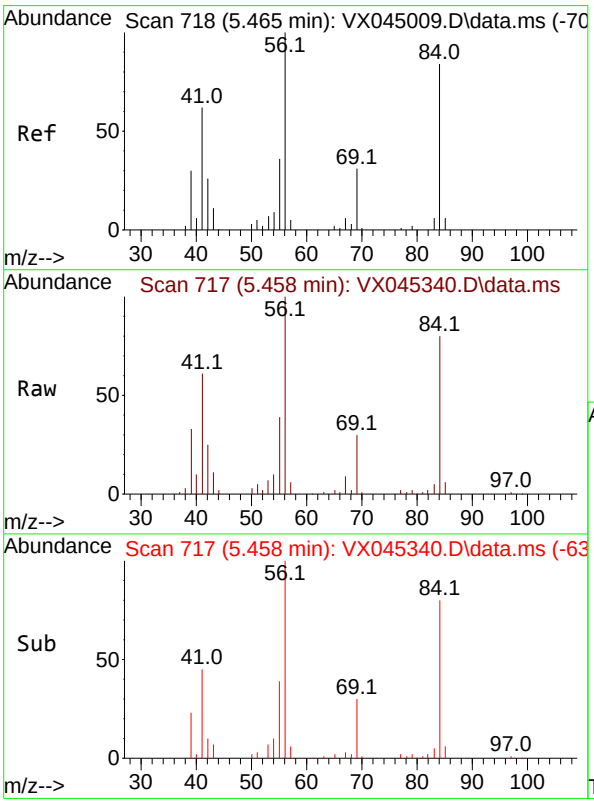
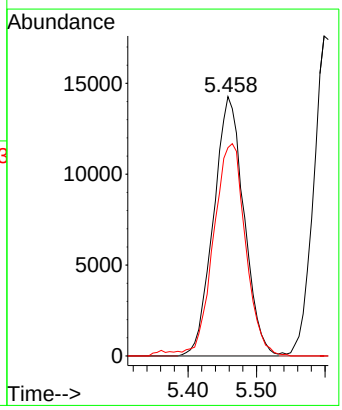
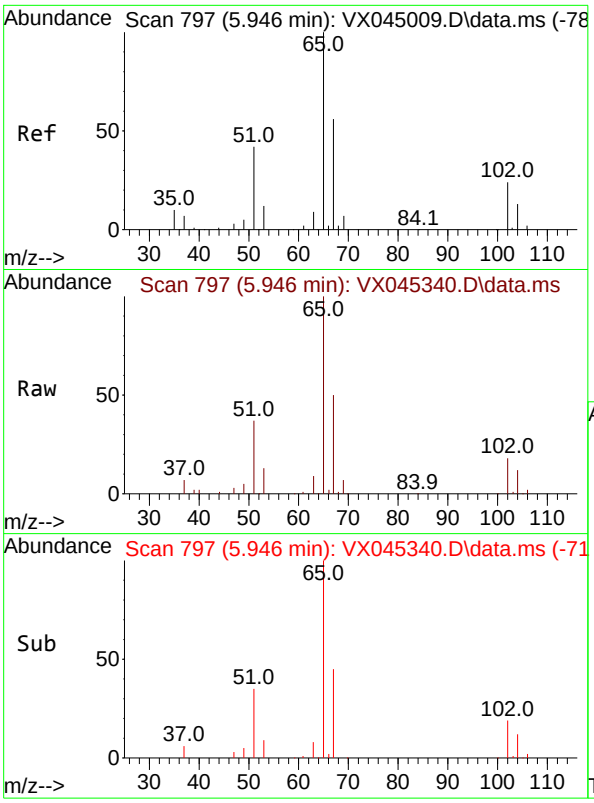


#26
Cyclohexane
Concen: 19.086 ug/l
RT: 5.458 min Scan# 717
Delta R.T. -0.006 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion: 56 Resp: 44003

Ion	Ratio	Lower	Upper
56	100		
89	0.0	0.0	0.0
84	84.7	67.1	100.7





#27
1,2-Dichloroethane-d4
Concen: 32.812 ug/l
RT: 5.946 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion: 65 Resp: 5242

Ion	Ratio	Lower	Upper
65	100		
67	52.0	42.6	64.0

Instrument :
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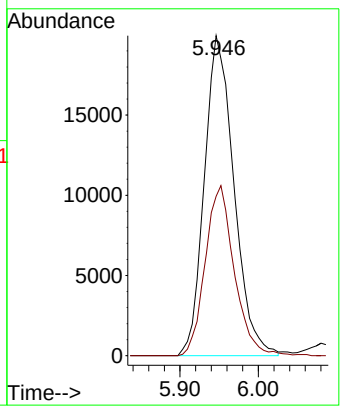
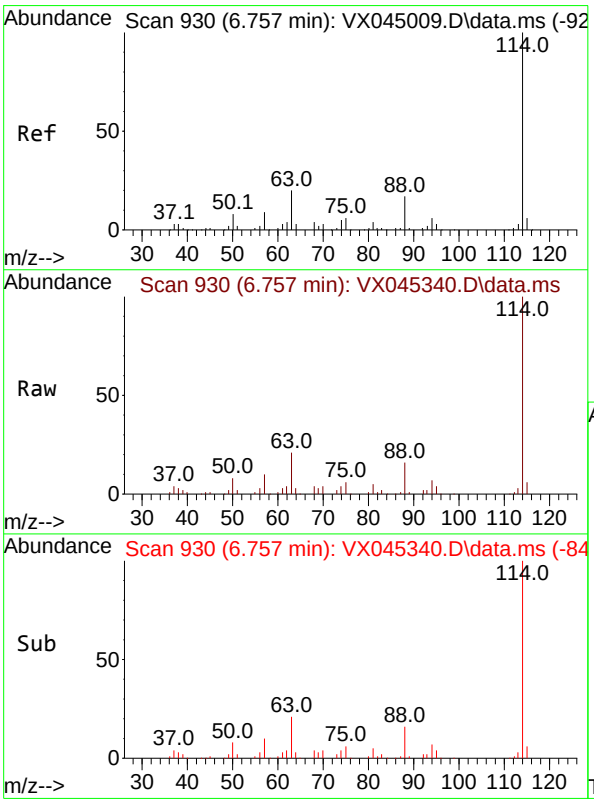
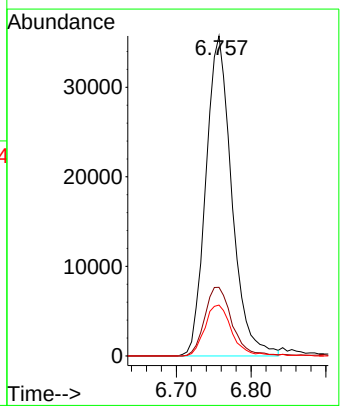


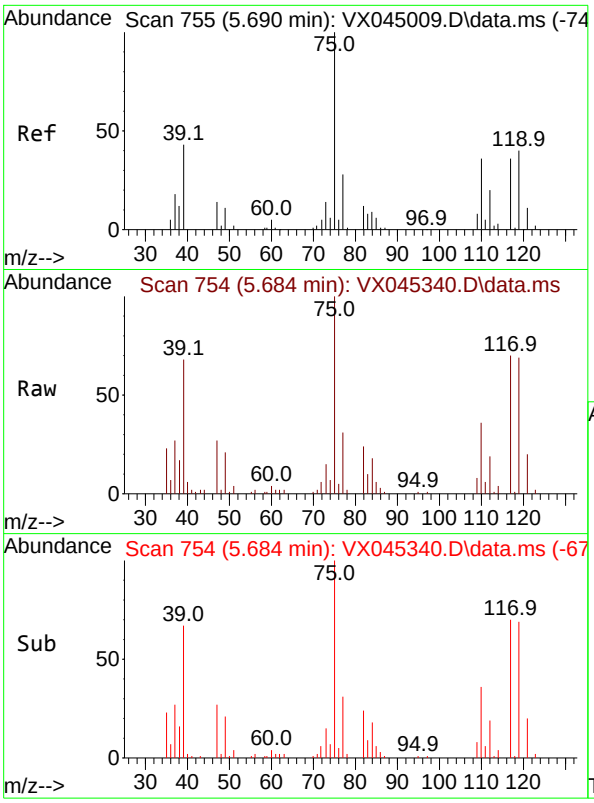


#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion:114 Resp: 86152

Ion	Ratio	Lower	Upper
114	100		
63	22.5	16.8	25.2
88	16.1	12.7	19.1

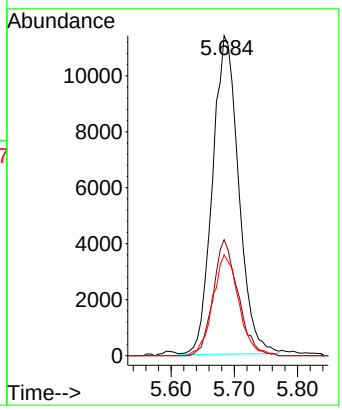




#29
1,1-Dichloropropene
Concen: 20.610 ug/l
RT: 5.684 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion: 75 Resp: 3266

Ion	Ratio	Lower	Upper
75	100		
110	34.4	0.0	69.2
77	31.5	0.0	61.0



Instrument :
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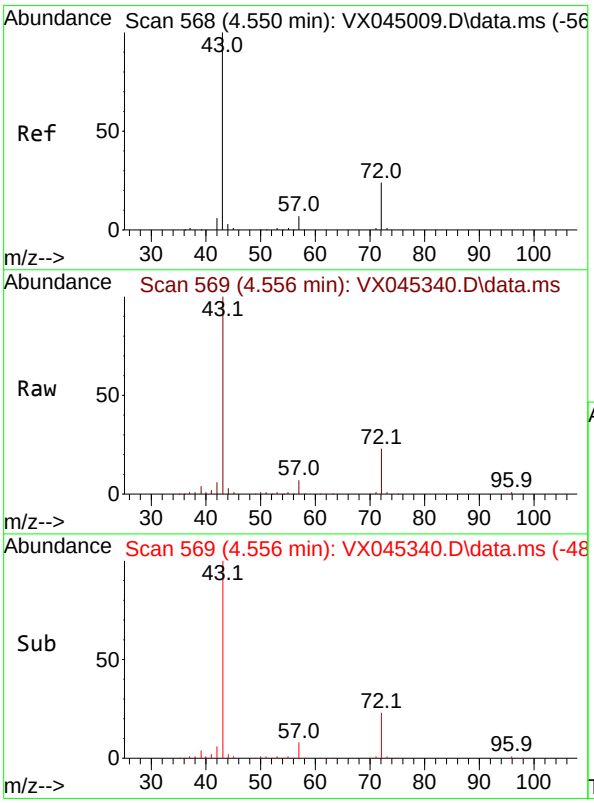
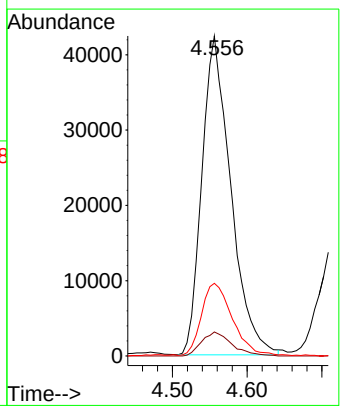
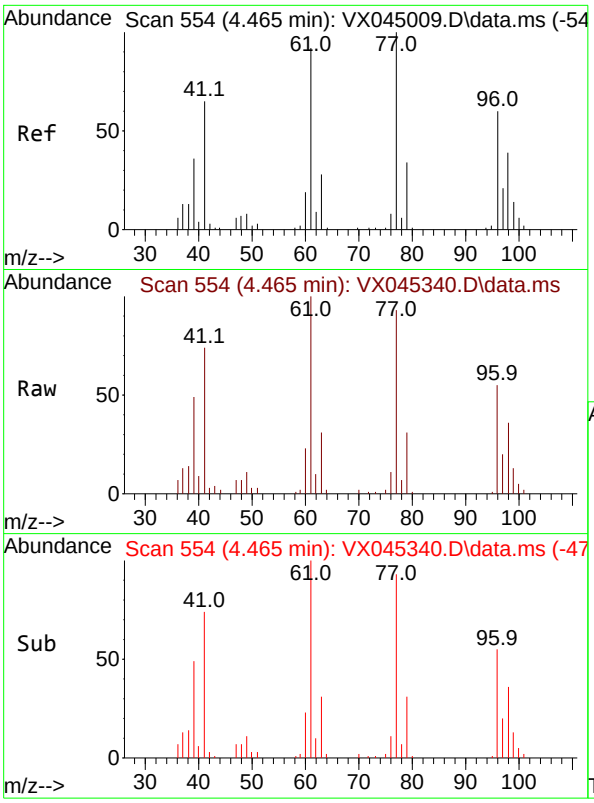


#30
2-Butanone
Concen: 124.364 ug/l
RT: 4.556 min Scan# 569
Delta R.T. 0.006 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion: 43 Resp: 113838

Ion	Ratio	Lower	Upper
43	100		
57	7.9	6.2	9.2
72	24.2	20.2	30.2





#31
2,2-Dichloropropane
Concen: 19.147 ug/l
RT: 4.465 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion: 77 Resp: 3431

Ion	Ratio	Lower	Upper
77	100		
97	23.0	18.0	27.0

Instrument :
MSVOA_X
ClientSampleId :
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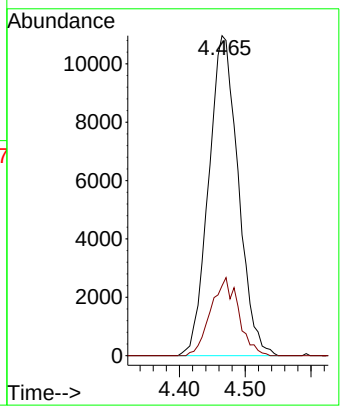
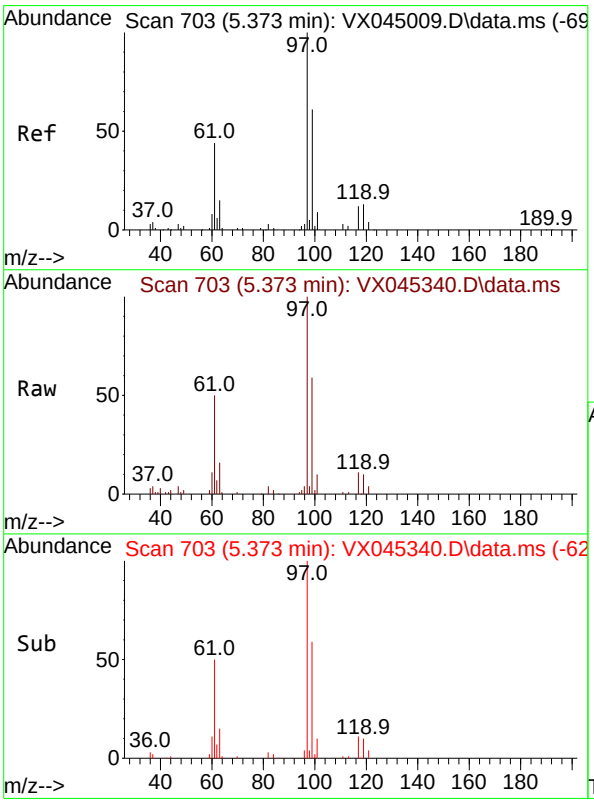
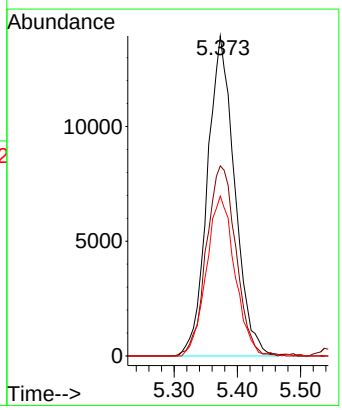


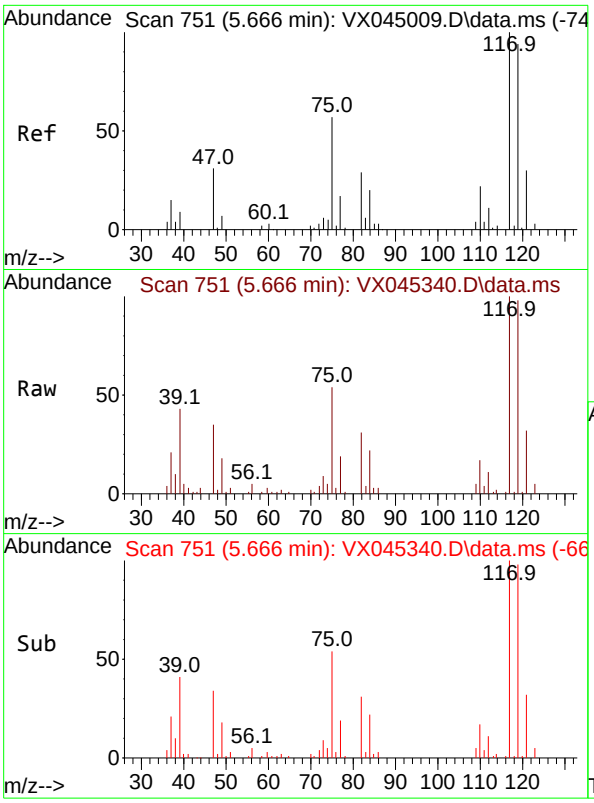


#32
1,1,1-Trichloroethane
Concen: 21.744 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion: 97 Resp: 41753

Ion	Ratio	Lower	Upper
97	100		
99	64.0	52.2	78.2
61	52.0	38.5	57.7

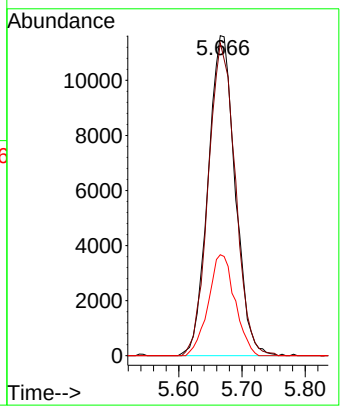




#33
Carbon Tetrachloride
Concen: 21.335 ug/l
RT: 5.666 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion:117 Resp: 3457

Ion	Ratio	Lower	Upper
117	100		
119	97.7	75.1	112.7
121	31.5	23.9	35.9



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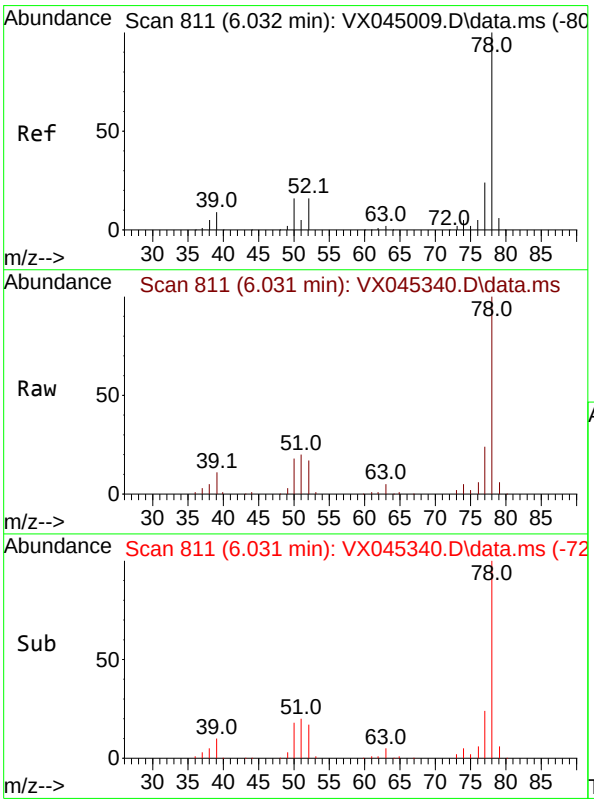
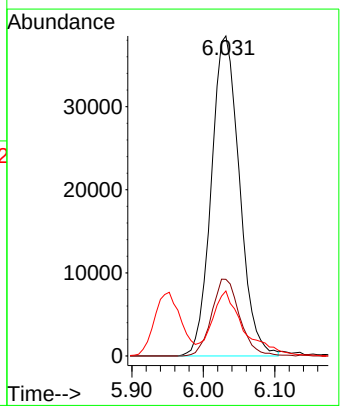
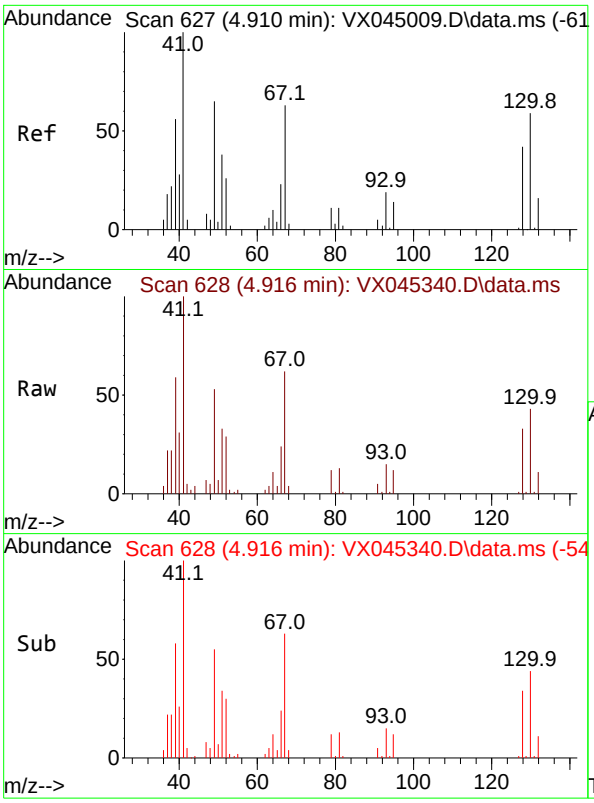


#34
Benzene
Concen: 21.181 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion: 78 Resp: 105267

Ion	Ratio	Lower	Upper
78	100		
77	24.0	19.6	29.4
51	18.5	13.8	20.6

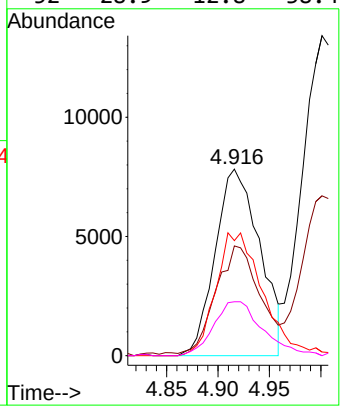




#35
Methacrylonitrile
Concen: 24.103 ug/l
RT: 4.916 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion: 41 Resp: 2361

Ion	Ratio	Lower	Upper
41	100		
39	57.6	27.8	83.4
67	61.6	31.5	94.5
52	28.9	12.8	38.4



Instrument :
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ClientSampleId :
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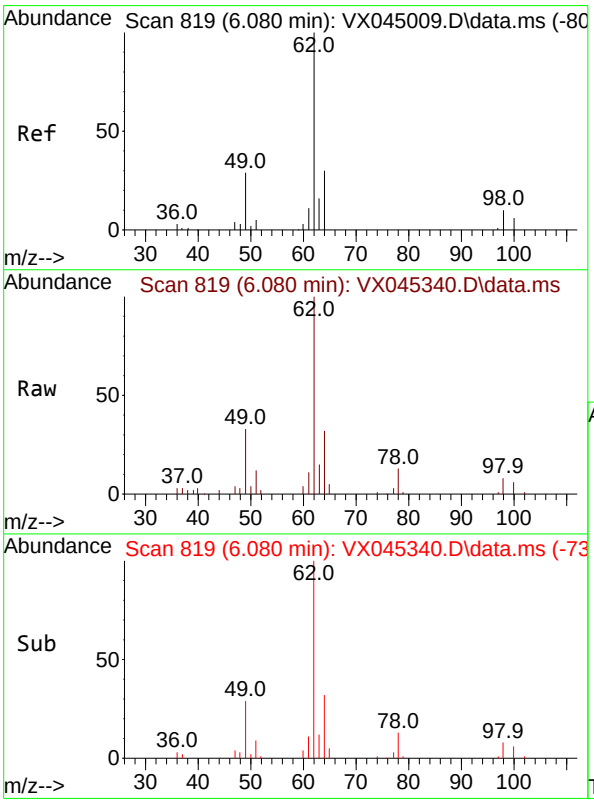
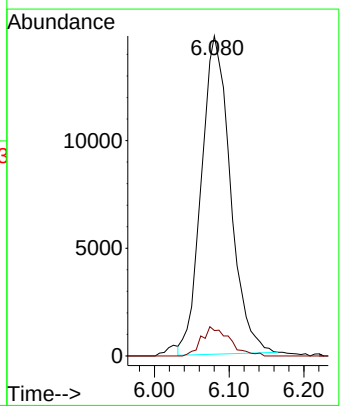
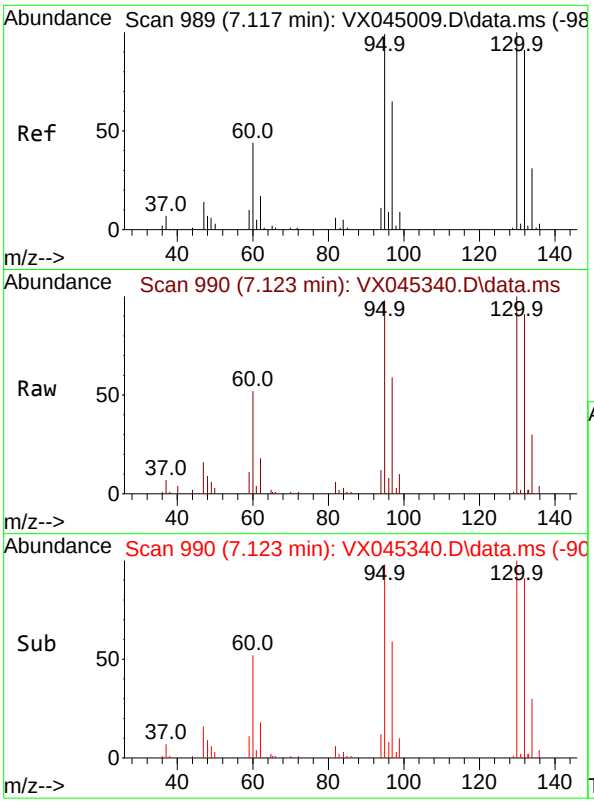


#36
1,2-Dichloroethane
Concen: 23.413 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.000 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion: 62 Resp: 39838

Ion	Ratio	Lower	Upper
62	100		
98	8.8	7.9	11.9





#37
Trichloroethene
Concen: 20.936 ug/l
RT: 7.123 min Scan# 9
Delta R.T. 0.006 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion:130 Resp: 2434

Ion	Ratio	Lower	Upper
130	100		
95	97.6	79.0	118.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC020

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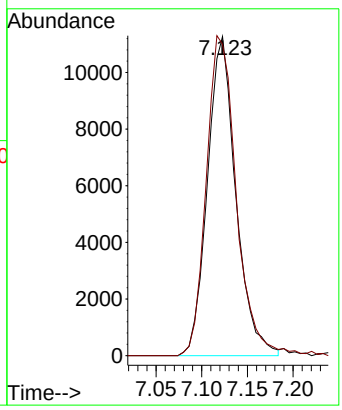
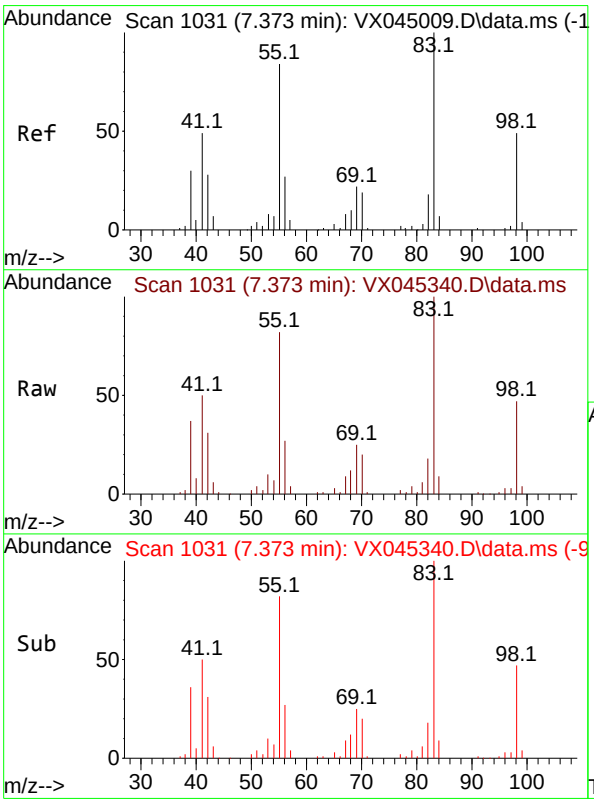
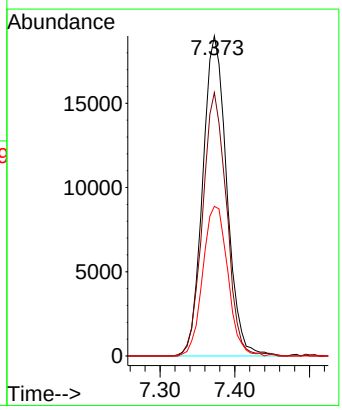


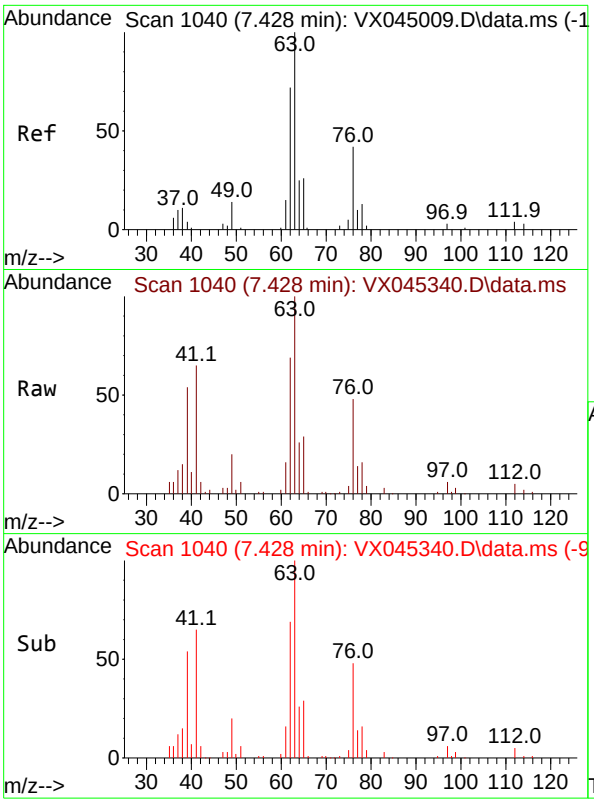


#38
Methylcyclohexane
Concen: 19.959 ug/l
RT: 7.373 min Scan# 1031
Delta R.T. -0.000 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion: 83 Resp: 42471

Ion	Ratio	Lower	Upper
83	100		
55	81.6	40.6	122.0
98	48.5	24.9	74.6

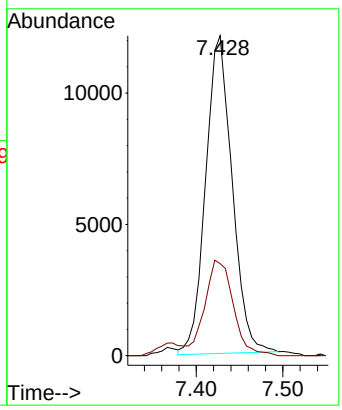




#39
1,2-Dichloropropane
Concen: 20.823 ug/l
RT: 7.428 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion: 63 Resp: 2572

Ion	Ratio	Lower	Upper
63	100		
65	29.1	24.3	36.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC020

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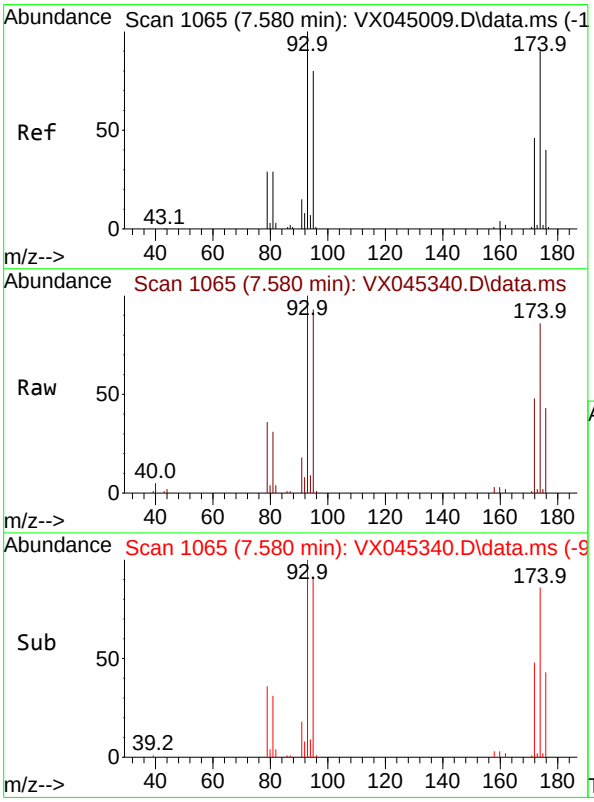
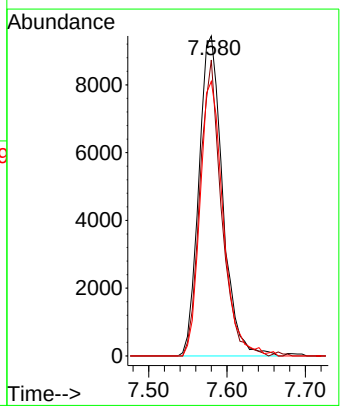
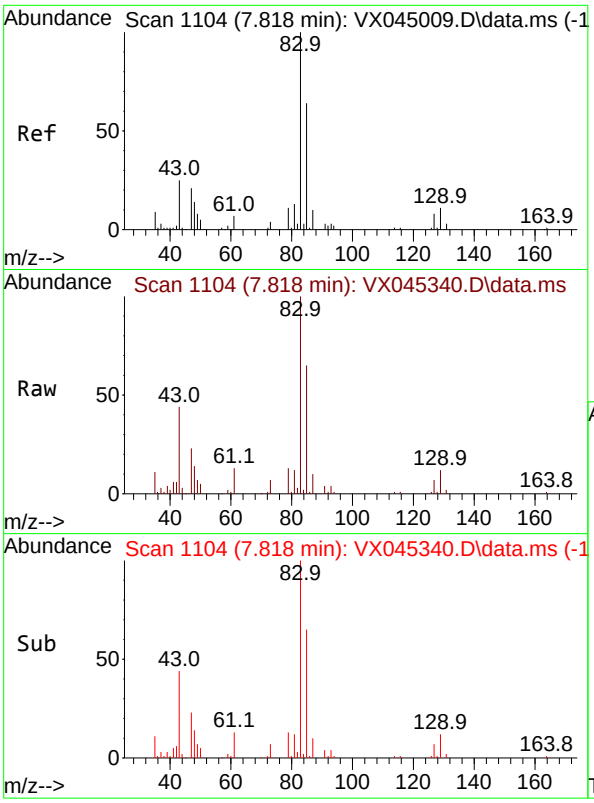


#40
Dibromomethane
Concen: 22.434 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion: 93 Resp: 19891

Ion	Ratio	Lower	Upper
93	100		
95	83.8	0.0	162.6
174	82.9	0.0	178.8

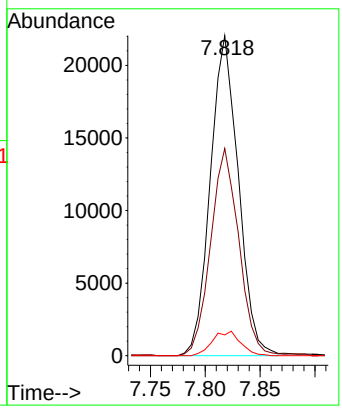




#41
Bromodichloromethane
Concen: 22.261 ug/l
RT: 7.818 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion: 83 Resp: 3922

Ion	Ratio	Lower	Upper
83	100		
85	64.7	51.0	76.6
127	6.5	6.1	9.1



Instrument :
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ClientSampleId :
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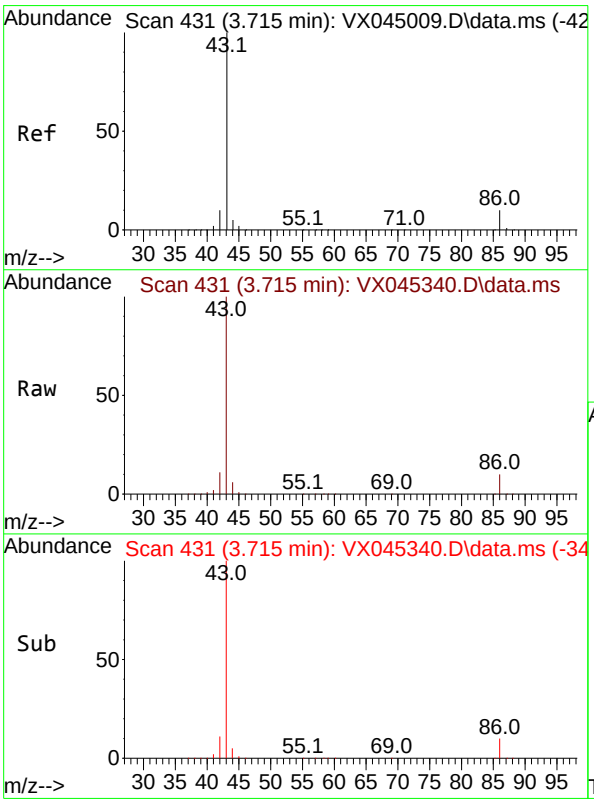
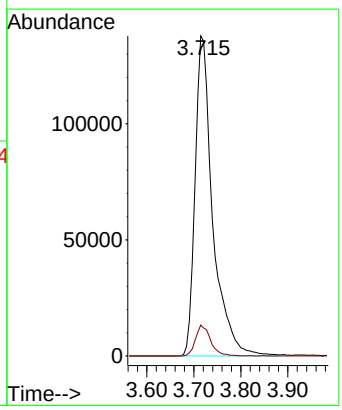
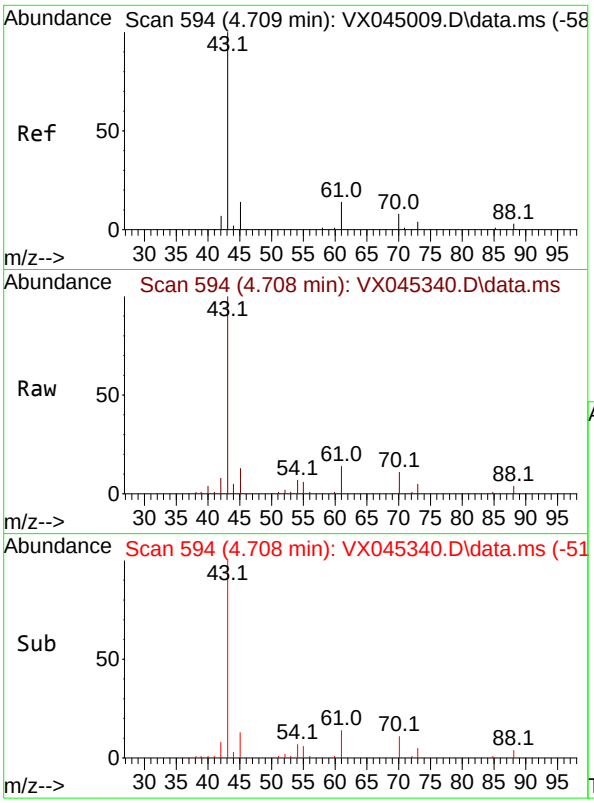


#42
Vinyl Acetate
Concen: 101.532 ug/l
RT: 3.715 min Scan# 431
Delta R.T. -0.000 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion: 43 Resp: 360651

Ion	Ratio	Lower	Upper
43	100		
86	8.2	7.0	10.4





#43
Ethyl Acetate
Concen: 23.957 ug/l
RT: 4.708 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion: 43 Resp: 4112

Ion	Ratio	Lower	Upper
43	100		
45	14.8	12.7	19.1

Instrument :
MSVOA_X
ClientSampleId :
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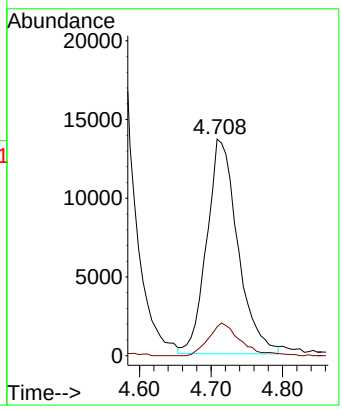
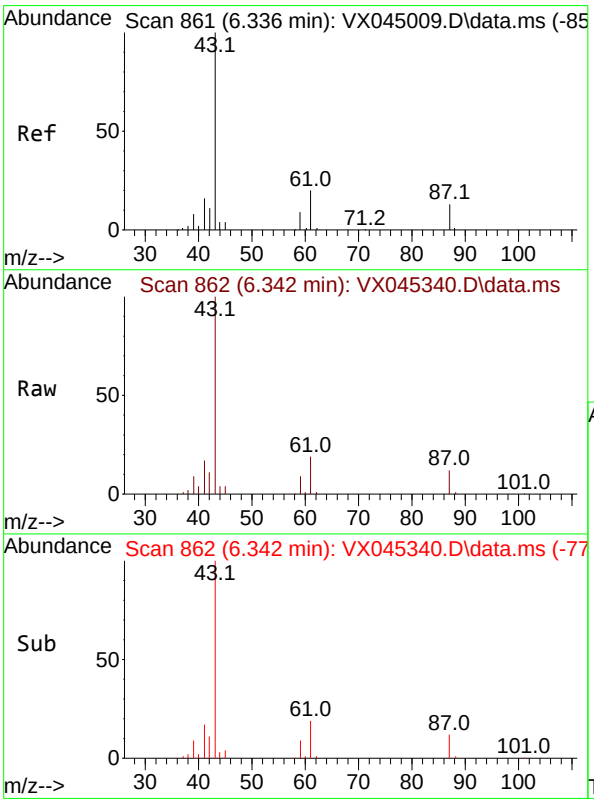
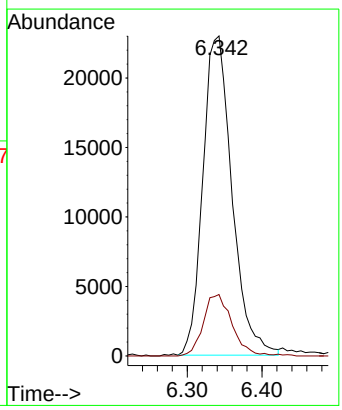


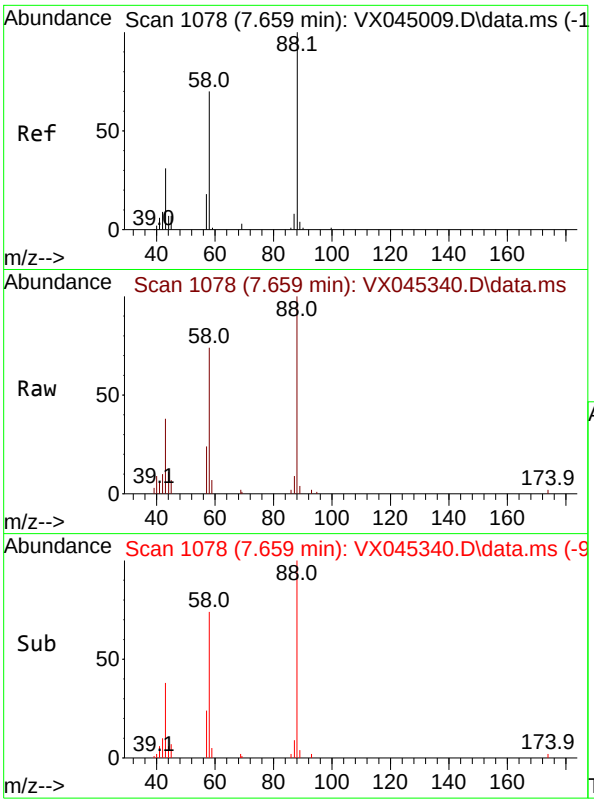


#44
Isopropyl Acetate
Concen: 22.048 ug/l
RT: 6.342 min Scan# 862
Delta R.T. 0.006 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion: 43 Resp: 62292

Ion	Ratio	Lower	Upper
43	100		
61	18.7	15.5	23.3





#45
1,4-Dioxane
Concen: 394.071 ug/l
RT: 7.659 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion: 88 Resp: 1157

Ion	Ratio	Lower	Upper
88	100		
43	36.6	29.6	44.4
58	71.3	56.2	84.4

Instrument :
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ClientSampleId :
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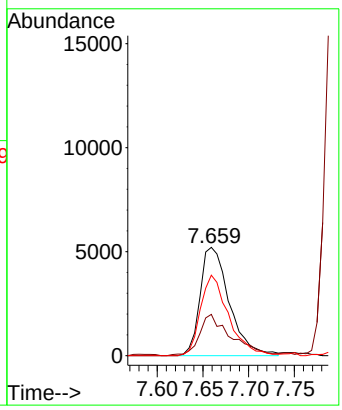
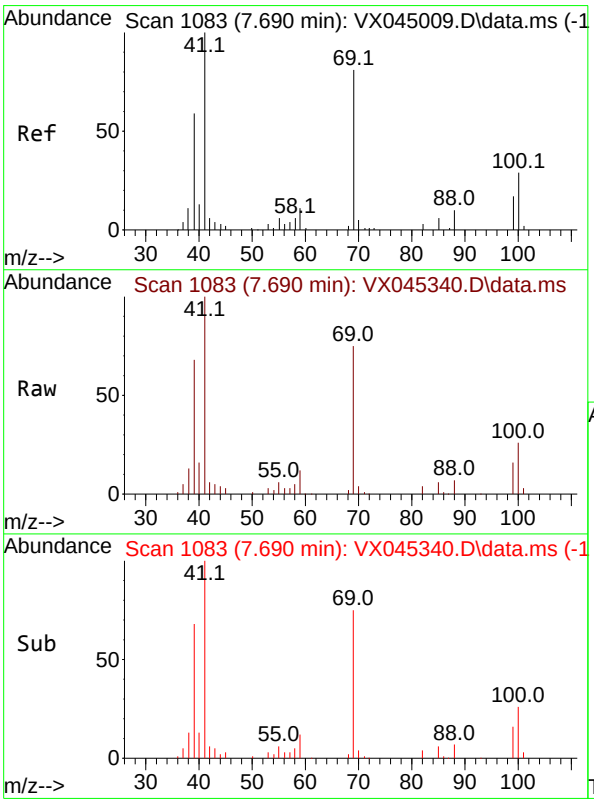
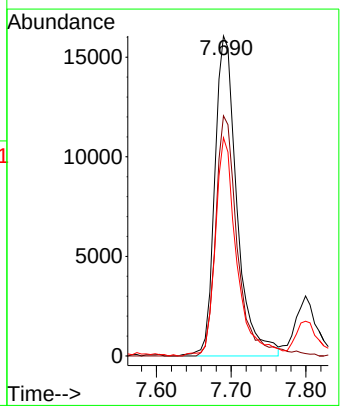


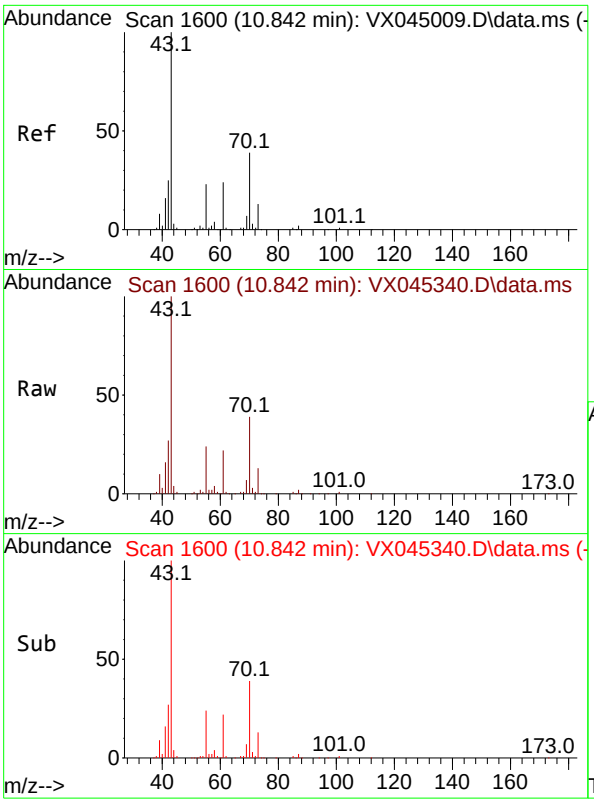


#46
Methyl methacrylate
Concen: 23.923 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. -0.000 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion: 41 Resp: 33143

Ion	Ratio	Lower	Upper
41	100		
69	75.0	40.7	122.1
39	68.2	29.5	88.5





#47
n-amyl Acetate
Concen: 20.723 ug/l
RT: 10.842 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion: 43 Resp: 5080

Ion	Ratio	Lower	Upper
43	100		
55	23.9	18.6	27.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC020

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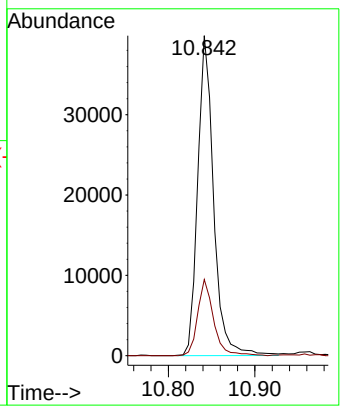
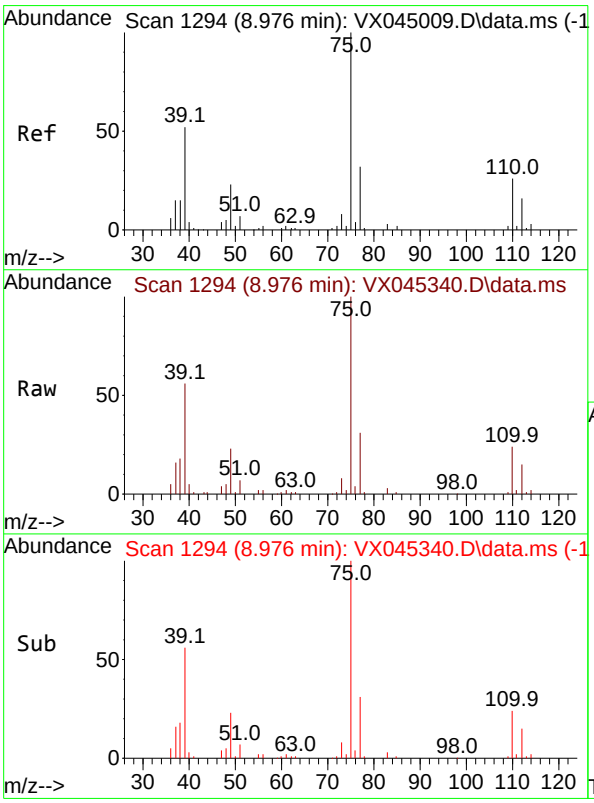
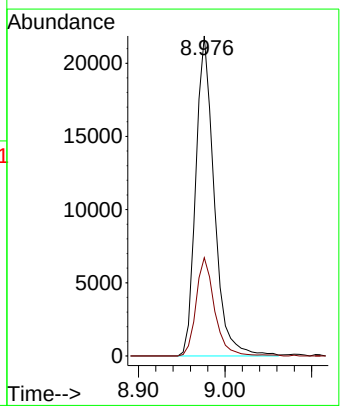


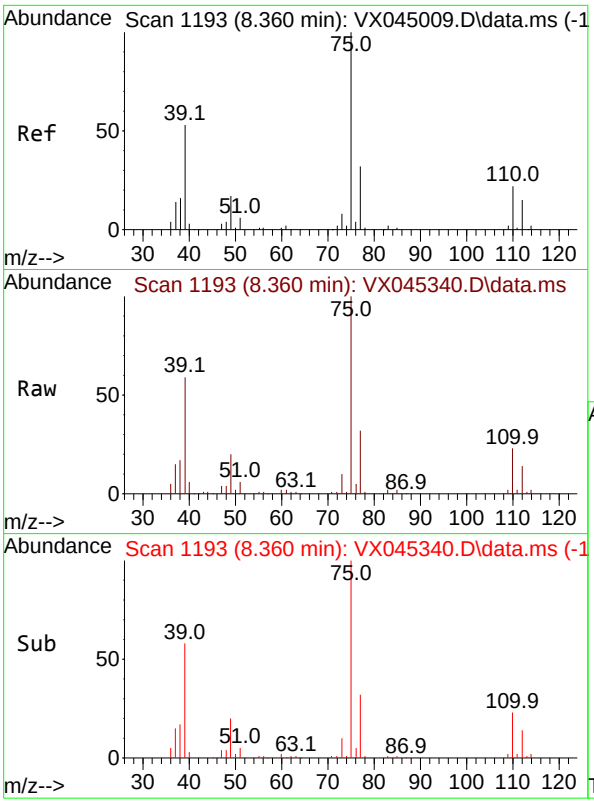


#48
t-1,3-Dichloropropene
Concen: 19.050 ug/l
RT: 8.976 min Scan# 1294
Delta R.T. -0.000 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion: 75 Resp: 32357

Ion	Ratio	Lower	Upper
75	100		
77	30.7	25.7	38.5

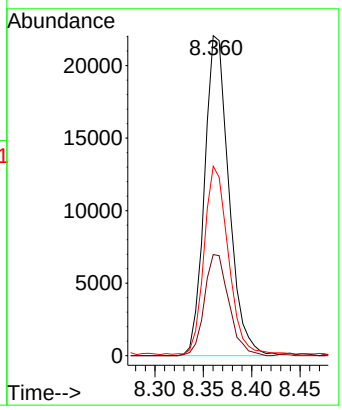




#49
cis-1,3-Dichloropropene
Concen: 20.120 ug/l
RT: 8.360 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion: 75 Resp: 3868

Ion	Ratio	Lower	Upper
75	100		
77	31.6	25.9	38.9
39	58.6	42.3	63.5



Instrument :
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ClientSampleId :
VSTDCCC020

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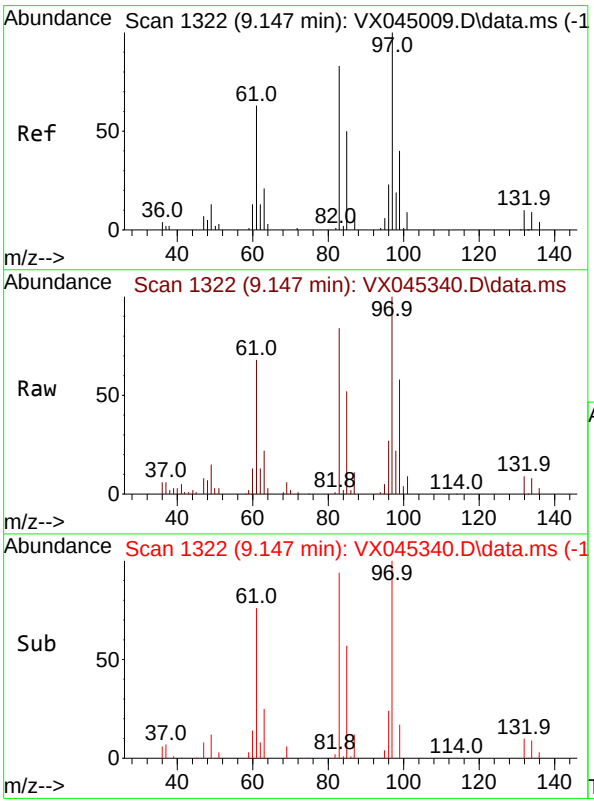
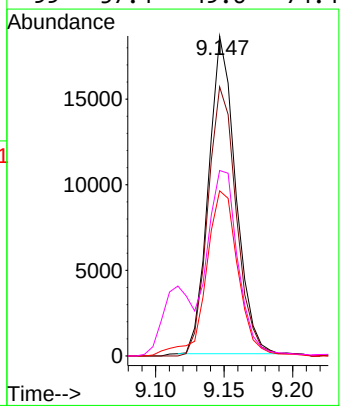
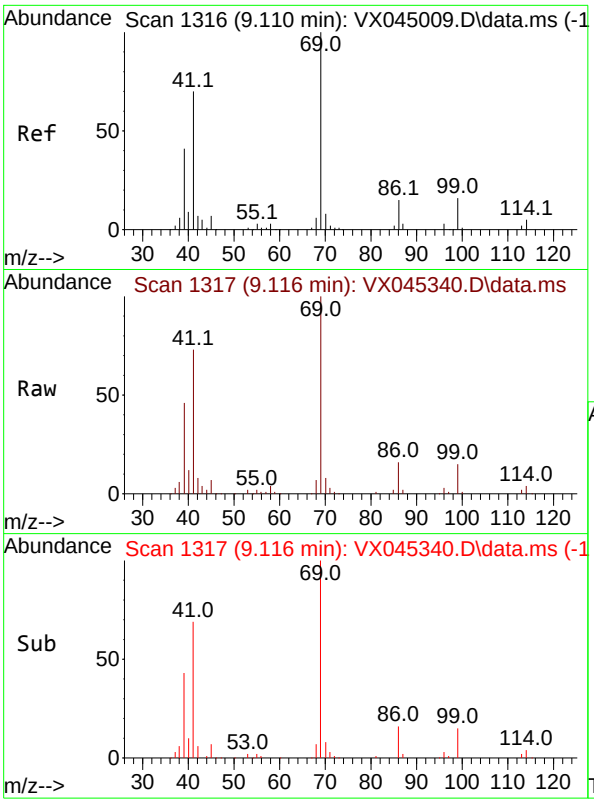


#50
1,1,2-Trichloroethane
Concen: 22.055 ug/l
RT: 9.147 min Scan# 1322
Delta R.T. -0.000 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion: 97 Resp: 25507

Ion	Ratio	Lower	Upper
97	100		
83	84.7	66.0	99.0
85	51.3	42.5	63.7
99	57.4	49.6	74.4





#51
Ethyl methacrylate
Concen: 21.334 ug/l
RT: 9.116 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion: 69 Resp: 3880

Ion	Ratio	Lower	Upper
69	100		
41	72.7	35.1	105.3
39	46.0	20.5	61.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC020

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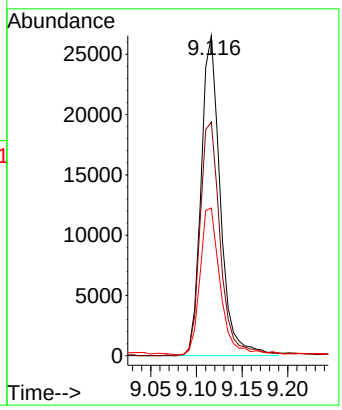
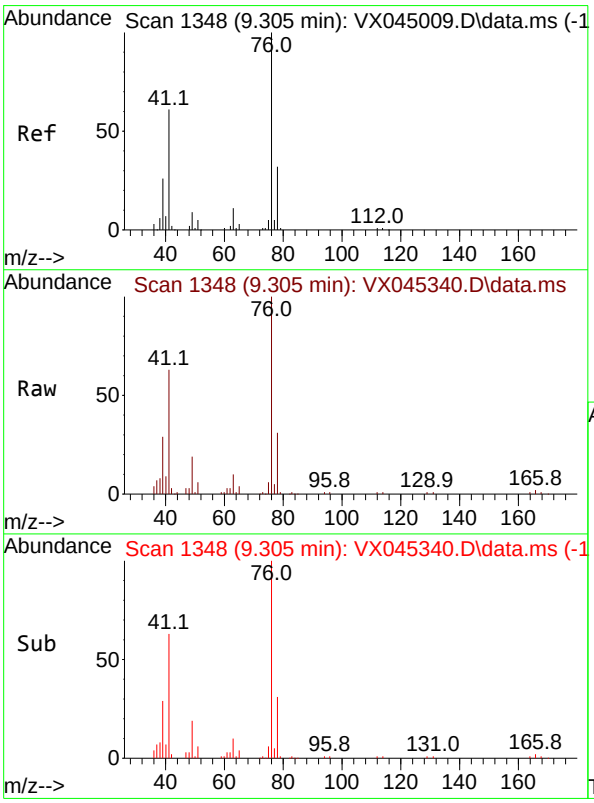
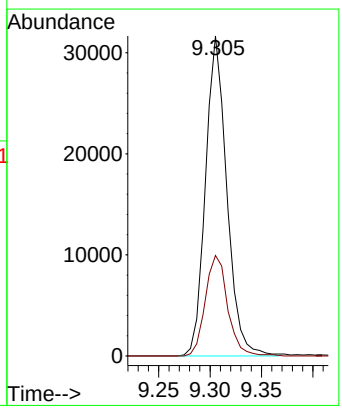


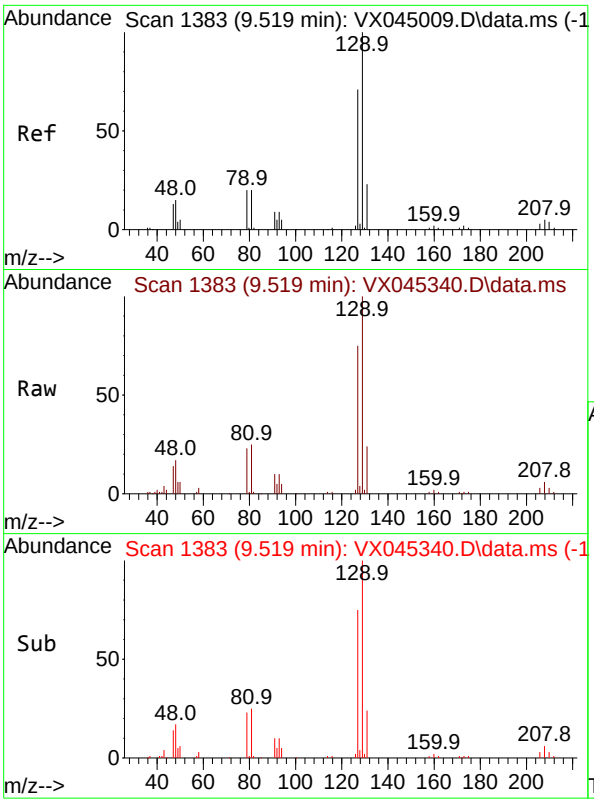


#52
1,3-Dichloropropane
Concen: 22.567 ug/l
RT: 9.305 min Scan# 1348
Delta R.T. -0.000 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion: 76 Resp: 45730

Ion	Ratio	Lower	Upper
76	100		
78	32.7	0.0	63.6

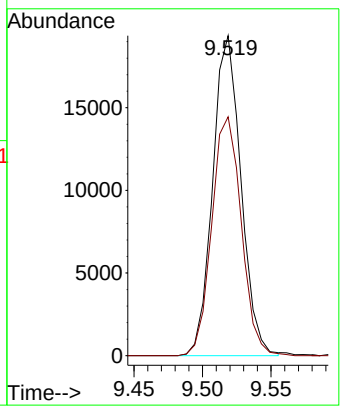




#53
Dibromochloromethane
Concen: 21.709 ug/l
RT: 9.519 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion:129 Resp: 2776

Ion	Ratio	Lower	Upper
129	100		
127	77.9	37.3	111.9



Instrument :
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ClientSampleId :
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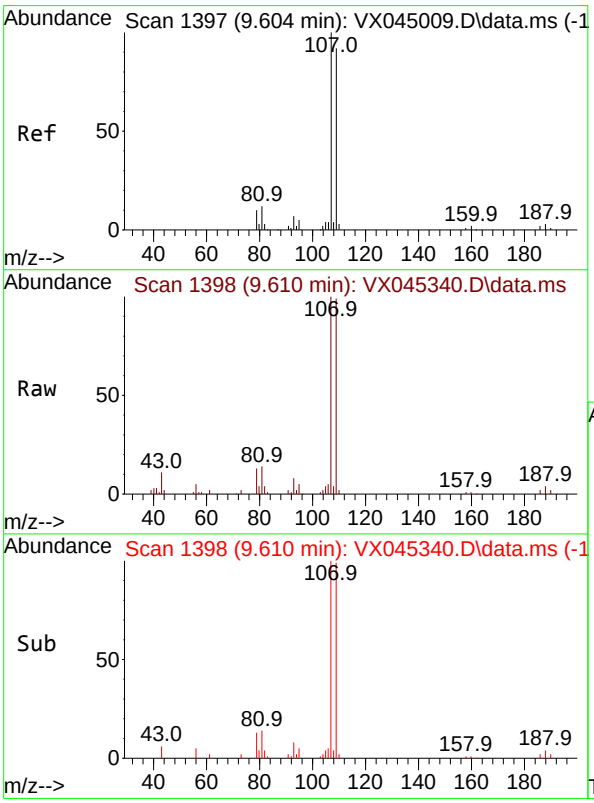
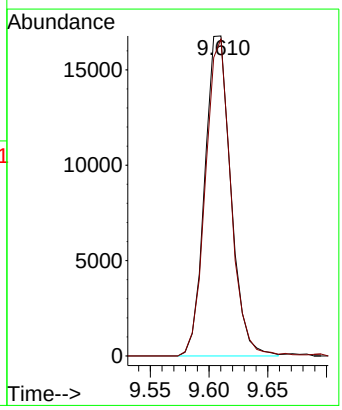
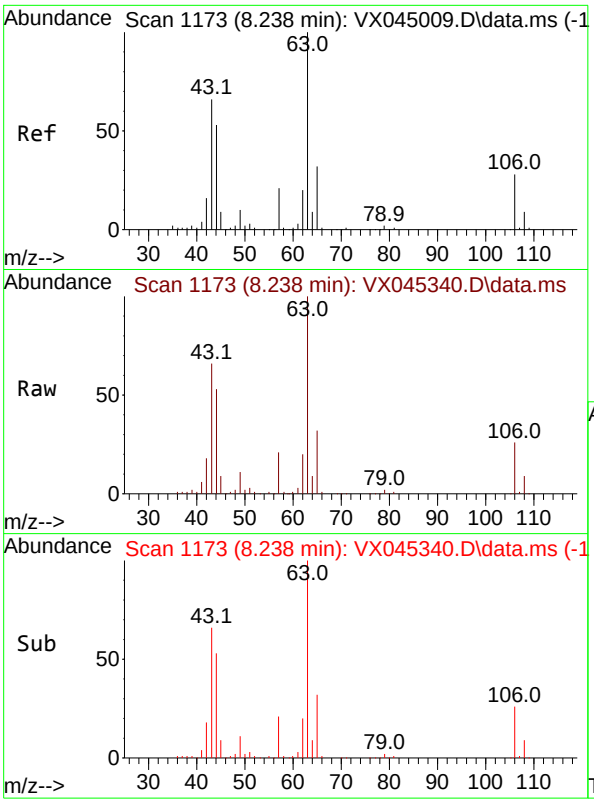


#54
1,2-Dibromoethane
Concen: 21.988 ug/l
RT: 9.610 min Scan# 1398
Delta R.T. 0.006 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion:107 Resp: 25822

Ion	Ratio	Lower	Upper
107	100		
109	96.9	75.8	113.8





#55
2-Chloroethyl vinyl ether
Concen: 103.422 ug/l
RT: 8.238 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion: 63 Resp: 9660

Ion	Ratio	Lower	Upper
63	100		
65	32.2	26.2	39.2
106	25.5	21.2	31.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC020

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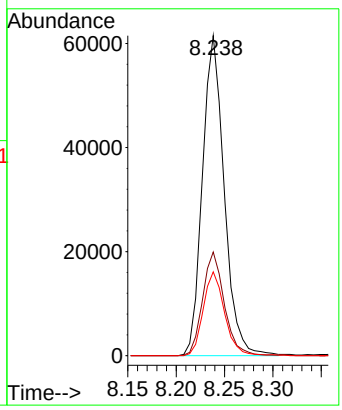
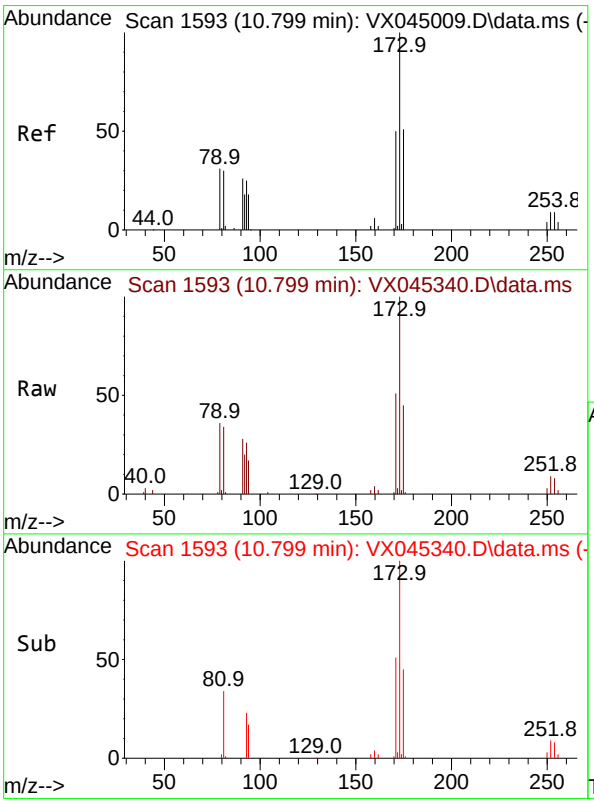
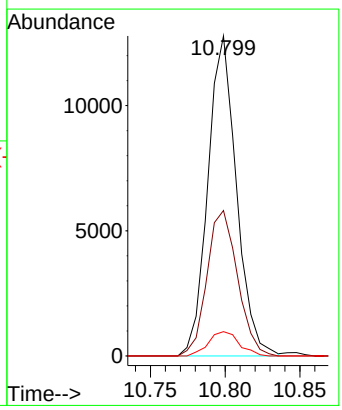


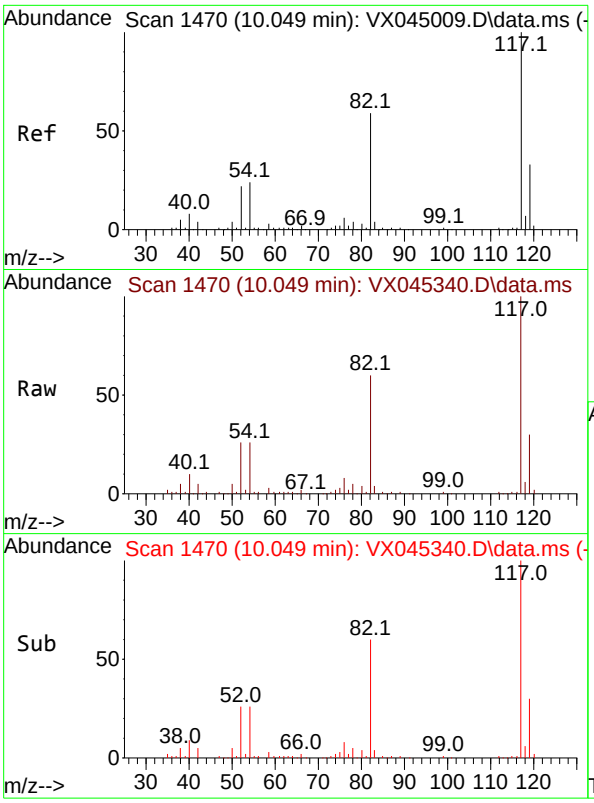


#56
Bromoform
Concen: 21.196 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. -0.000 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion:173 Resp: 16989

Ion	Ratio	Lower	Upper
173	100		
175	48.6	39.6	59.4
254	8.2	6.3	9.5





#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion:117 Resp: 8089

Ion	Ratio	Lower	Upper
117	100		
82	58.9	45.8	68.8
119	31.6	25.5	38.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC020

Manual Integrations
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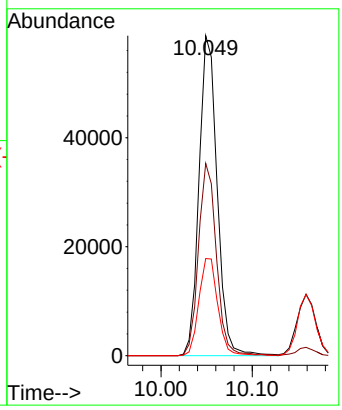
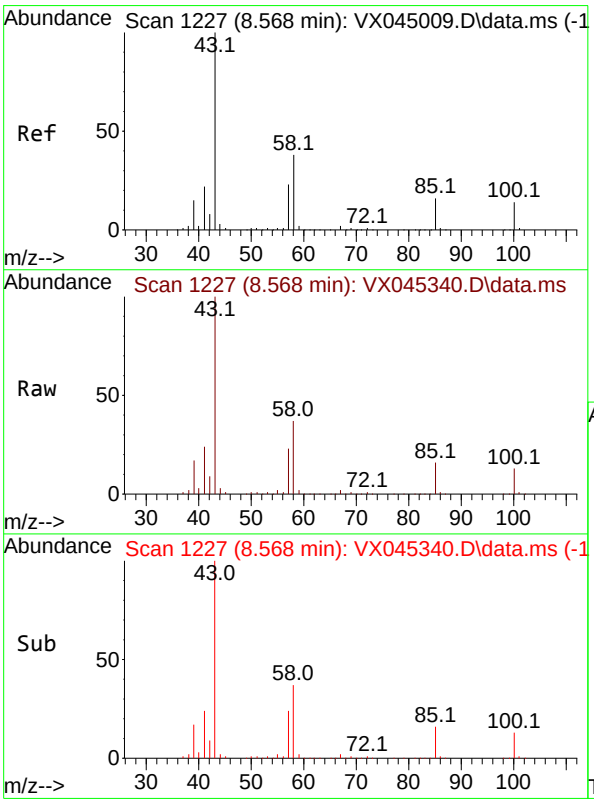
Reviewed By :John Carlone 03/20/2025
Supervised By :Mahesh Dadoda 03/20/2025

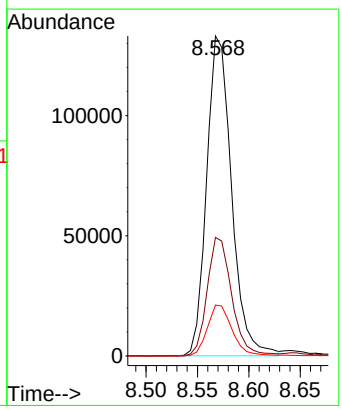


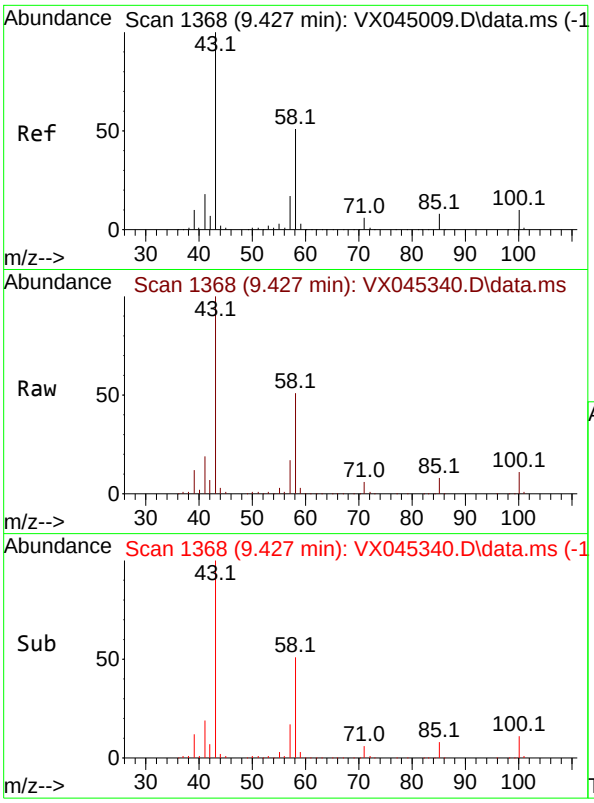


#58
4-Methyl-2-Pentanone
Concen: 121.880 ug/l
RT: 8.568 min Scan# 1227
Delta R.T. -0.000 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion: 43 Resp: 224283

Ion	Ratio	Lower	Upper
43	100		
58	36.6	29.5	44.3
85	16.0	12.9	19.3





#59
2-Hexanone
Concen: 123.186 ug/l
RT: 9.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion: 43 Resp: 16385

Ion	Ratio	Lower	Upper
43	100		
58	50.4	41.6	62.4
57	17.3	13.8	20.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC020

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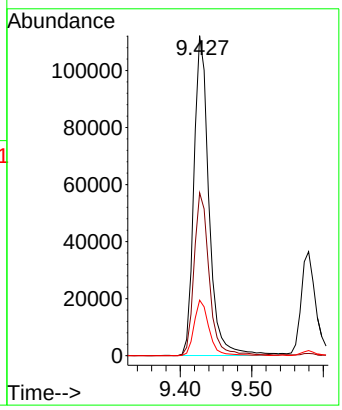
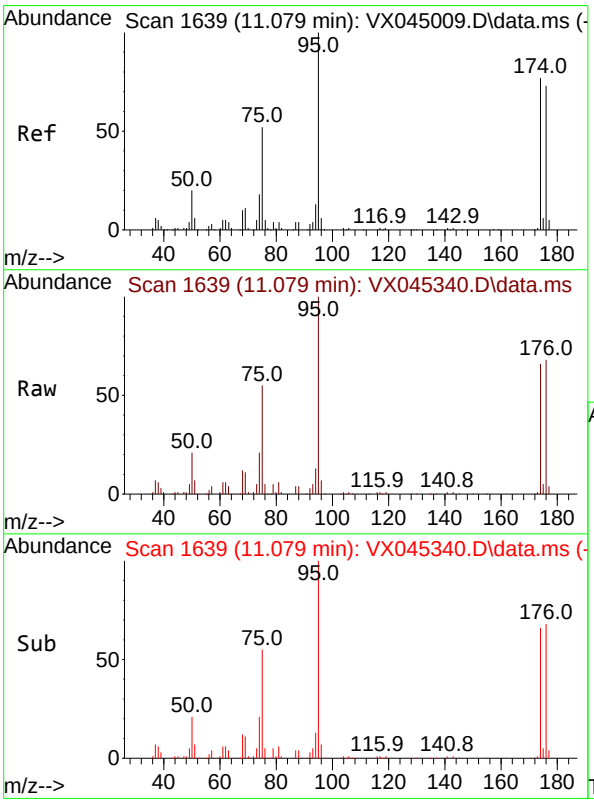
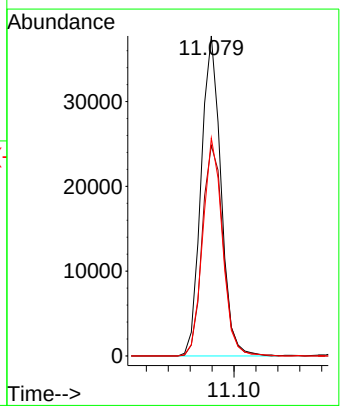


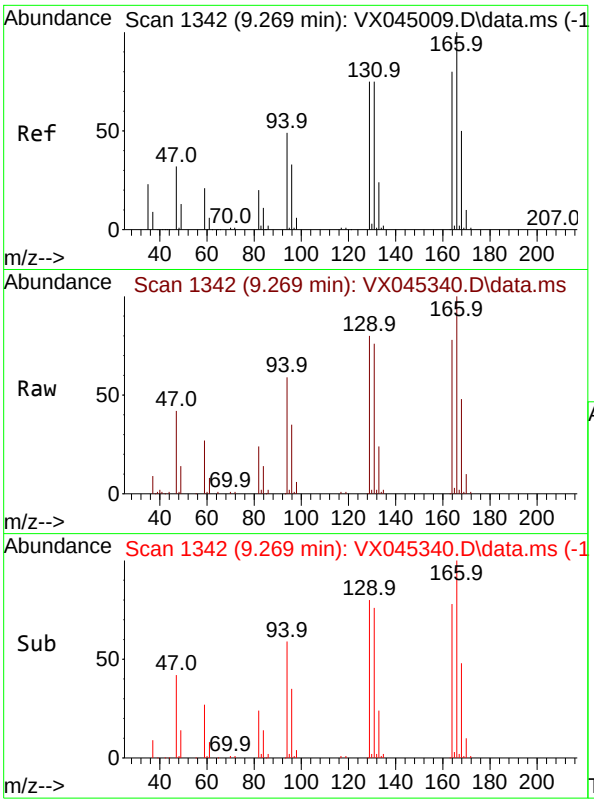


#60
4-Bromofluorobenzene
Concen: 31.246 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion: 95 Resp: 47245

Ion	Ratio	Lower	Upper
95	100		
174	69.4	59.5	89.3
176	67.6	55.5	83.3

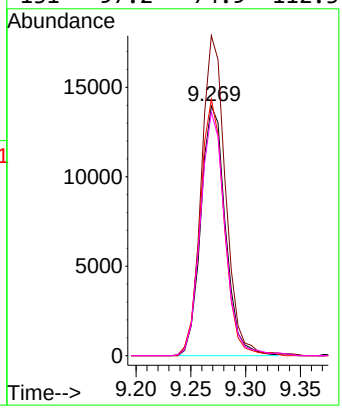




#61
Tetrachloroethene
Concen: 21.744 ug/l
RT: 9.269 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion:164 Resp: 2166

Ion	Ratio	Lower	Upper
164	100		
166	127.8	100.3	150.5
129	102.7	75.5	113.3
131	97.2	74.9	112.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC020

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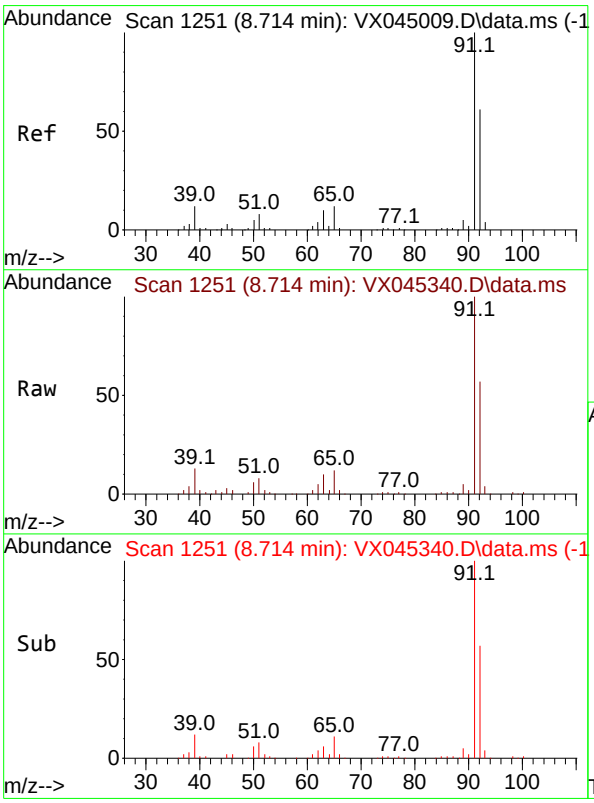
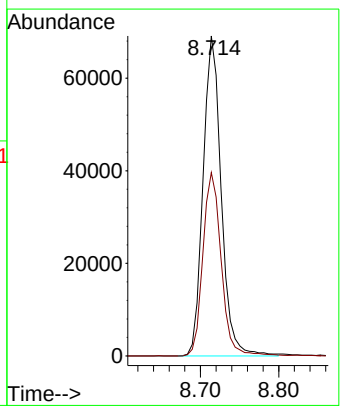
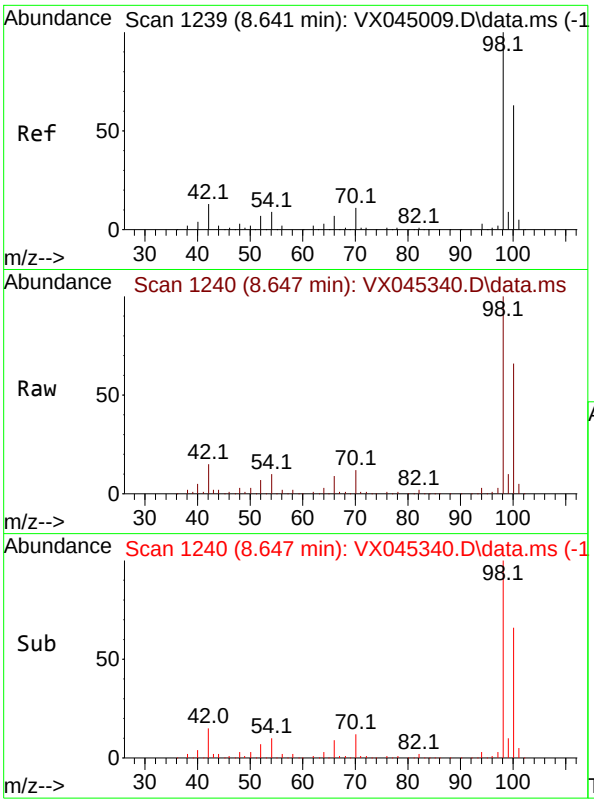


#62
Toluene
Concen: 20.767 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion: 91 Resp: 111284

Ion	Ratio	Lower	Upper
91	100		
92	57.7	46.9	70.3





#63
Toluene-d8
Concen: 30.103 ug/l
RT: 8.647 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion: 98 Resp: 13472

Ion	Ratio	Lower	Upper
98	100		
100	65.8	51.7	77.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC020

Manual Integrations
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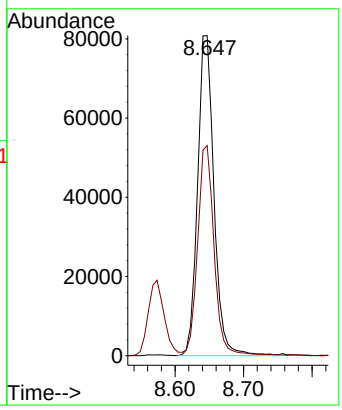
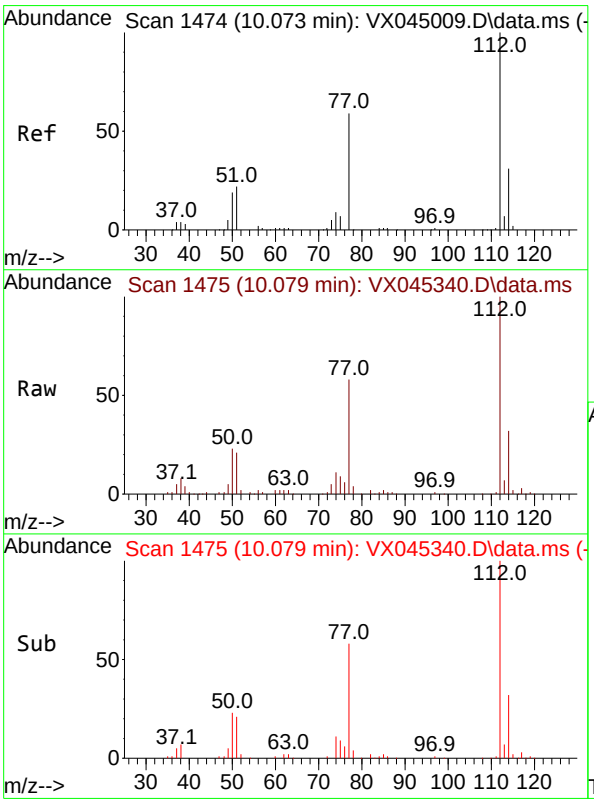
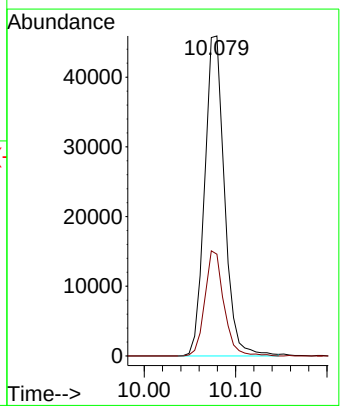


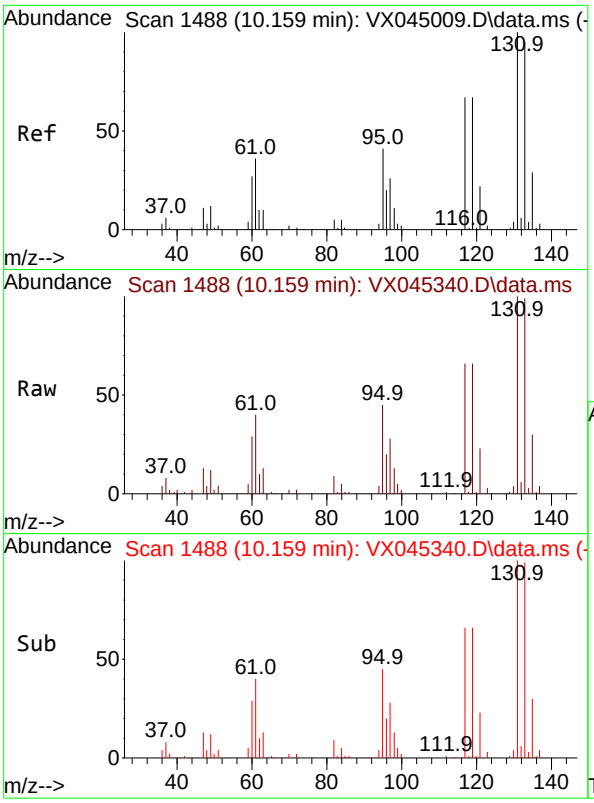


#64
Chlorobenzene
Concen: 20.784 ug/l
RT: 10.079 min Scan# 1475
Delta R.T. 0.006 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion:112 Resp: 69016

Ion	Ratio	Lower	Upper
112	100		
114	31.8	24.7	37.1





#65
1,1,1,2-Tetrachloroethane
Concen: 21.083 ug/l
RT: 10.159 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion:131 Resp: 2310

Ion	Ratio	Lower	Upper
131	100		
133	94.5	0.0	187.8
119	67.1	0.0	133.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC020

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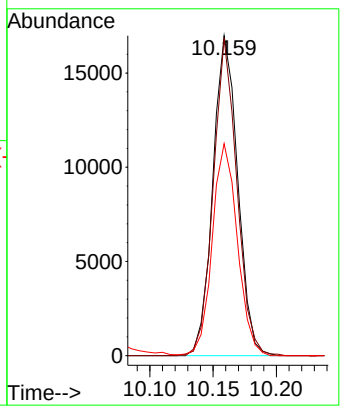
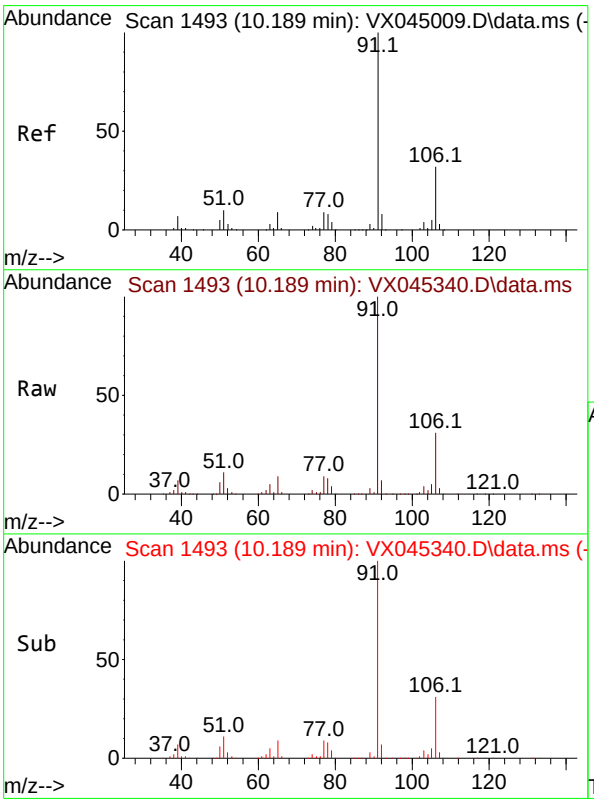
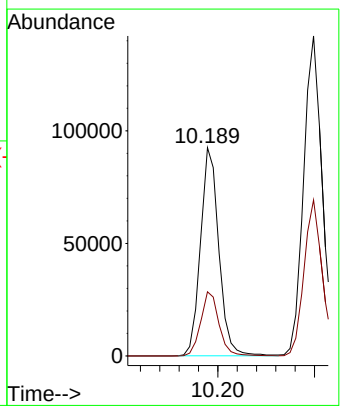


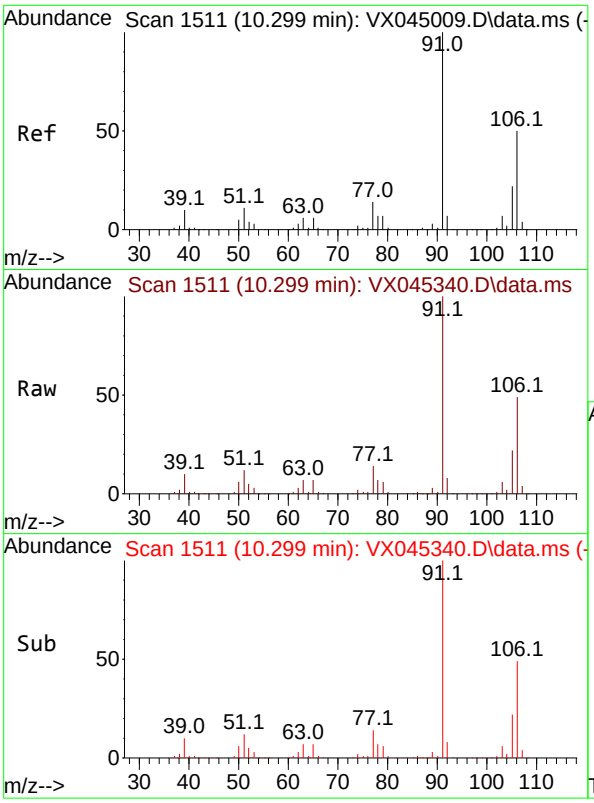


#66
Ethyl Benzene
Concen: 20.813 ug/l
RT: 10.189 min Scan# 1493
Delta R.T. -0.000 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion: 91 Resp: 122105

Ion	Ratio	Lower	Upper
91	100		
106	30.8	25.4	38.2





#67
m/p-Xylenes
Concen: 42.144 ug/l
RT: 10.299 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion:106 Resp: 9212

Ion	Ratio	Lower	Upper
106	100		
91	209.3	163.7	245.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC020

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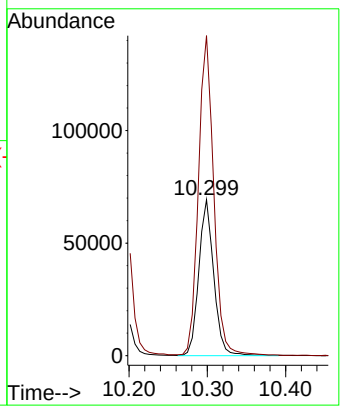
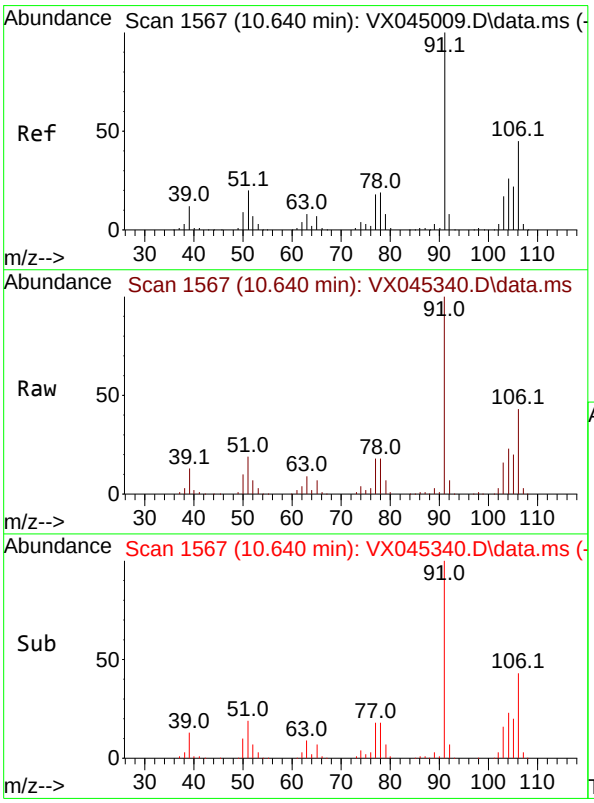
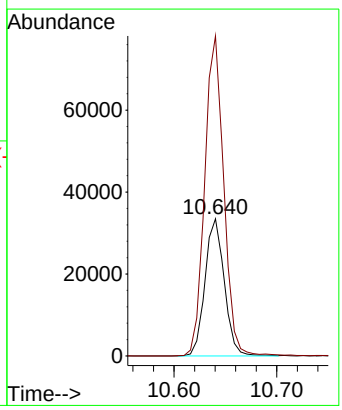


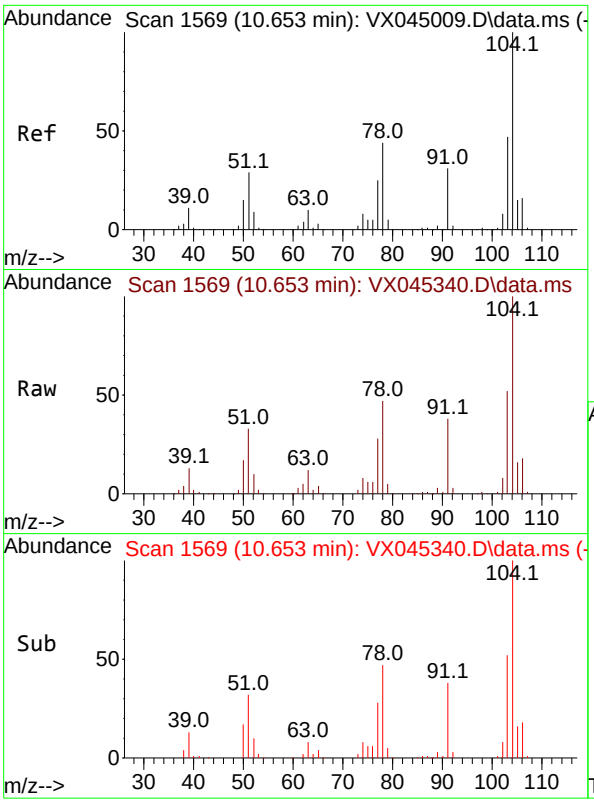


#68
o-Xylene
Concen: 20.390 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion:106 Resp: 43730

Ion	Ratio	Lower	Upper
106	100		
91	229.9	109.7	329.1





#69
Styrene
Concen: 20.993 ug/l
RT: 10.653 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion:104 Resp: 7519

Ion	Ratio	Lower	Upper
104	100		
78	53.3	41.4	62.0
103	55.5	43.0	64.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC020

Manual Integrations
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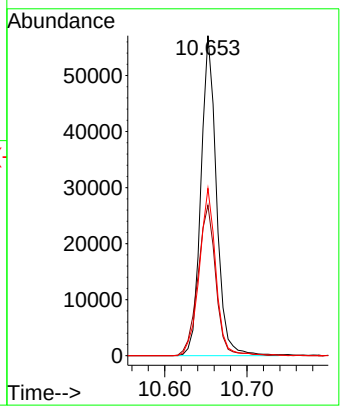
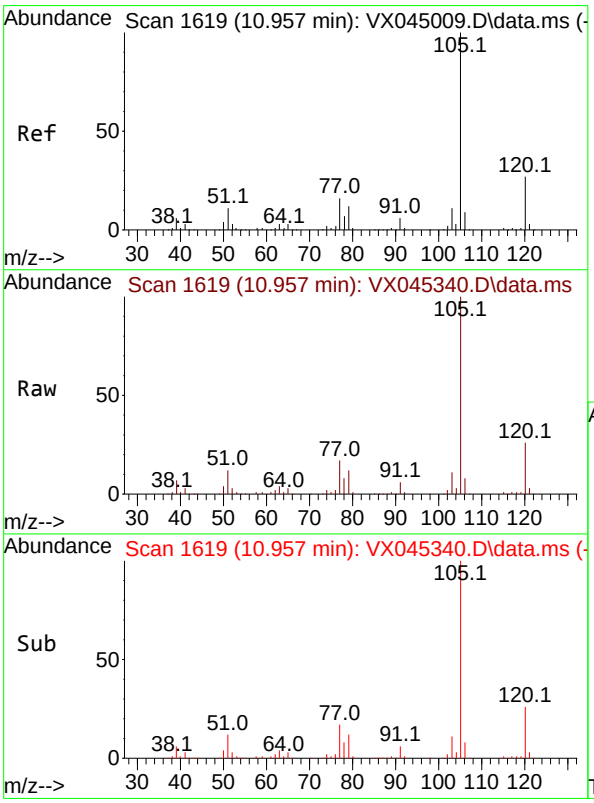
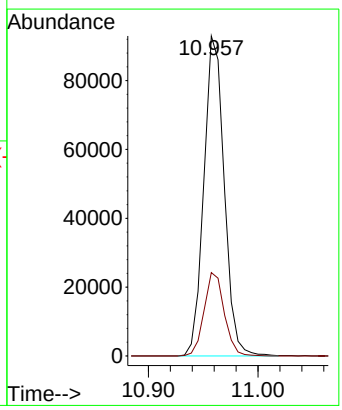


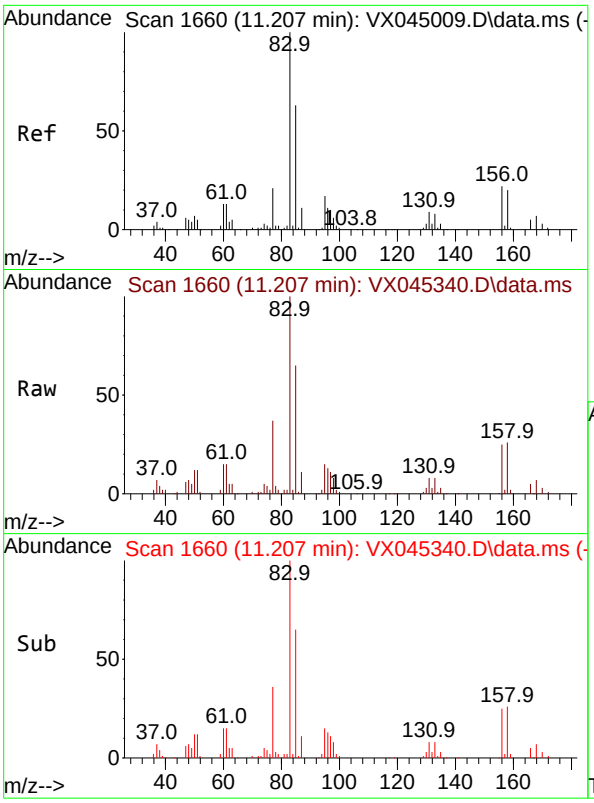


#70
Isopropylbenzene
Concen: 21.669 ug/l
RT: 10.957 min Scan# 1619
Delta R.T. -0.000 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion:105 Resp: 119932

Ion	Ratio	Lower	Upper
105	100		
120	25.8	18.4	34.2





#71
1,1,2,2-Tetrachloroethane
Concen: 23.012 ug/l
RT: 11.207 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion: 83 Resp: 4188

Ion	Ratio	Lower	Upper
83	100		
131	8.5	4.8	14.3
85	62.9	32.3	96.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC020

Manual Integrations
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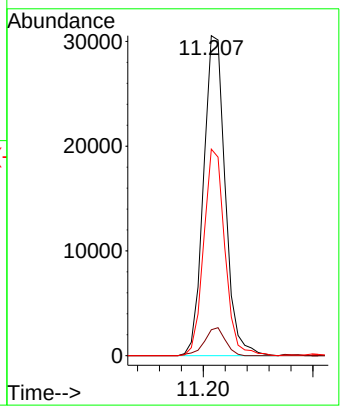
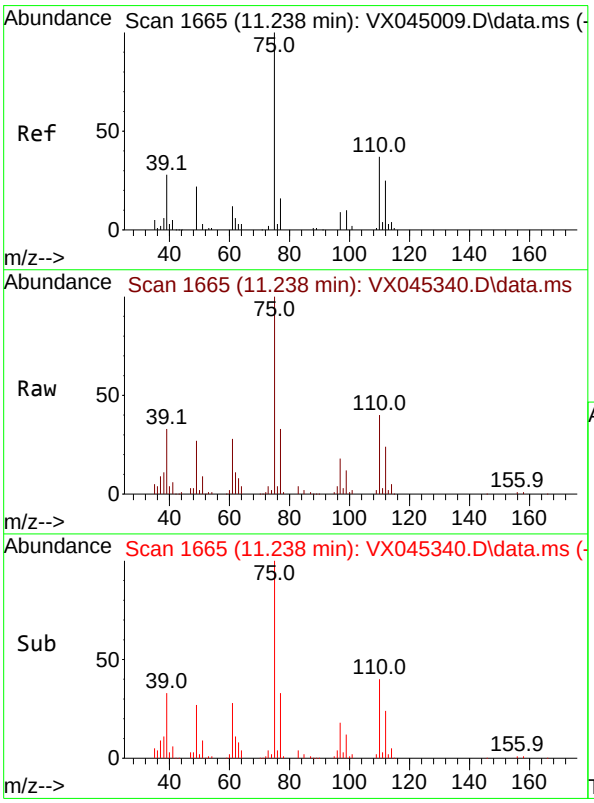
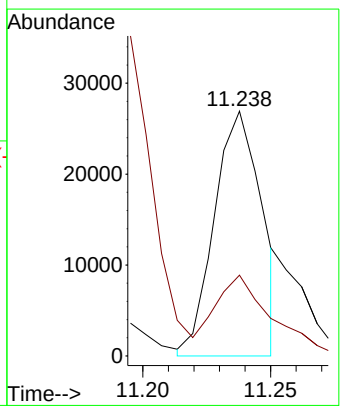


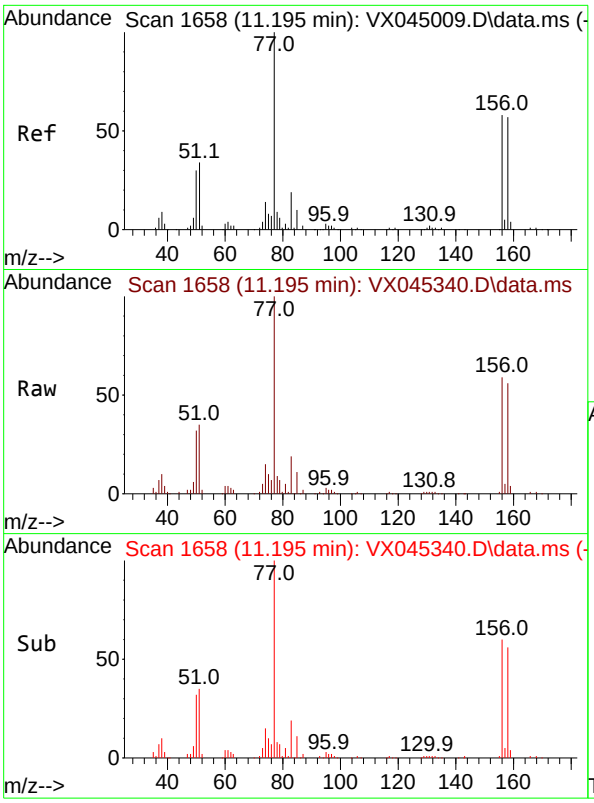


#72
1,2,3-Trichloropropane
Concen: 23.216 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion: 75 Resp: 34753

Ion	Ratio	Lower	Upper
75	100		
77	39.1	0.0	84.0





#73
Bromobenzene
Concen: 20.665 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion:156 Resp: 2633

Ion	Ratio	Lower	Upper
156	100		
77	178.4	0.0	347.2
158	96.4	0.0	197.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC020

Manual Integrations
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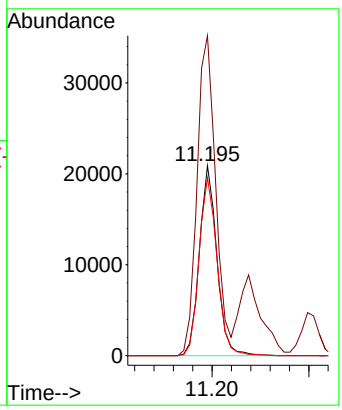
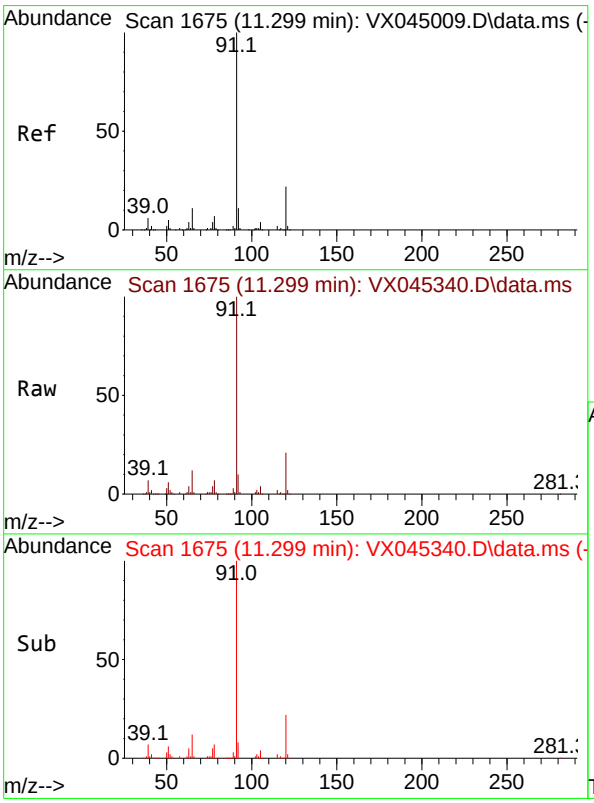
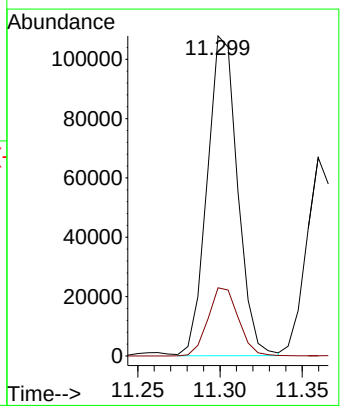


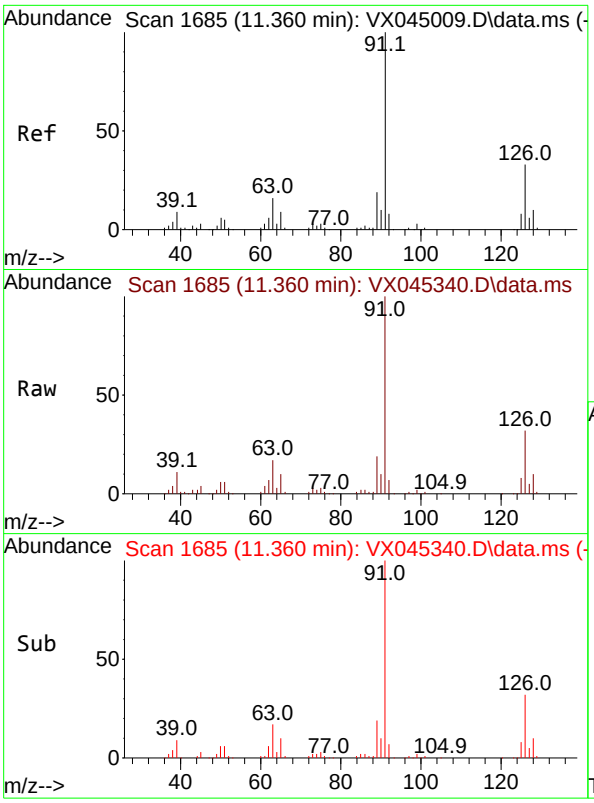


#74
n-propylbenzene
Concen: 20.998 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. -0.000 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion: 91 Resp: 138300

Ion	Ratio	Lower	Upper
91	100		
120	21.2	0.0	44.2





#75
2-Chlorotoluene
Concen: 21.614 ug/l
RT: 11.360 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion: 91 Resp: 8606

Ion	Ratio	Lower	Upper
91	100		
126	31.5	0.0	65.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC020

Manual Integrations
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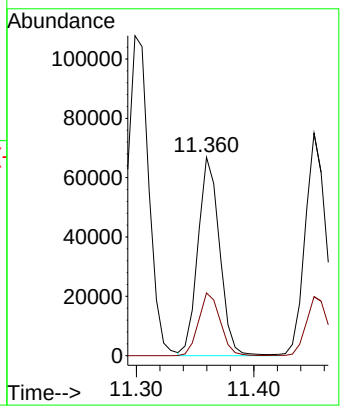
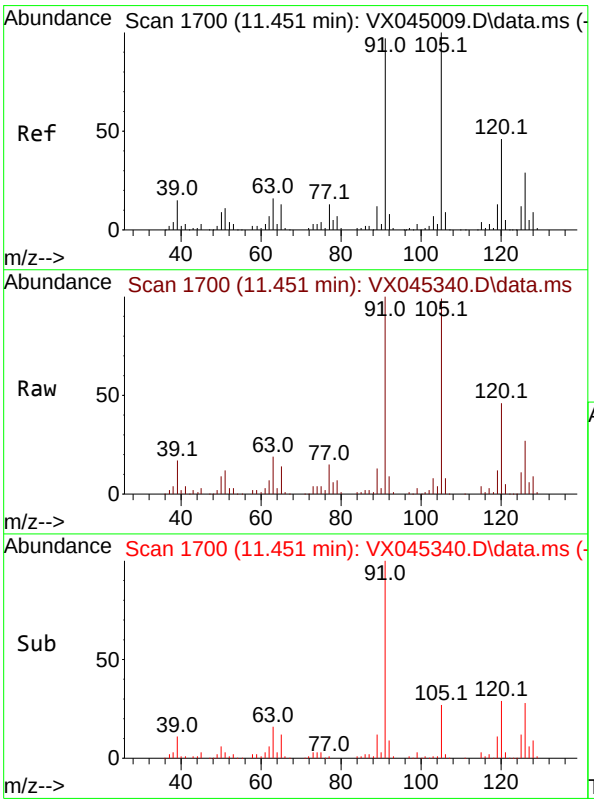
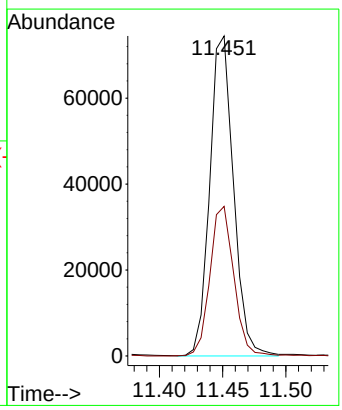


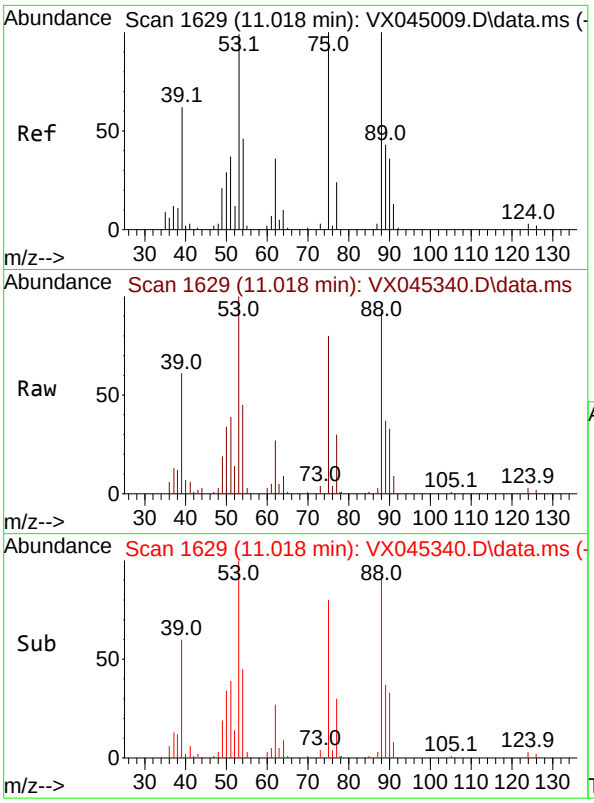


#76
1,3,5-Trimethylbenzene
Concen: 21.335 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion:105 Resp: 97415

Ion	Ratio	Lower	Upper
105	100		
120	47.0	0.0	94.4

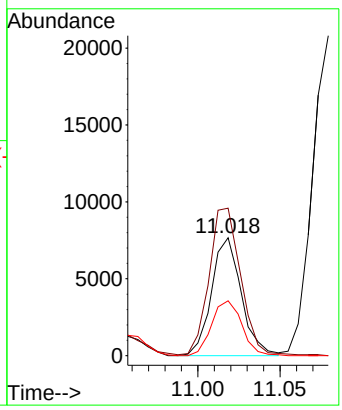




#77
t-1,4-Dichloro-2-butene
Concen: 19.262 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion: 75 Resp: 970

Ion	Ratio	Lower	Upper
75	100		
53	124.2	49.8	149.4
89	46.5	21.4	64.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC020

Manual Integrations
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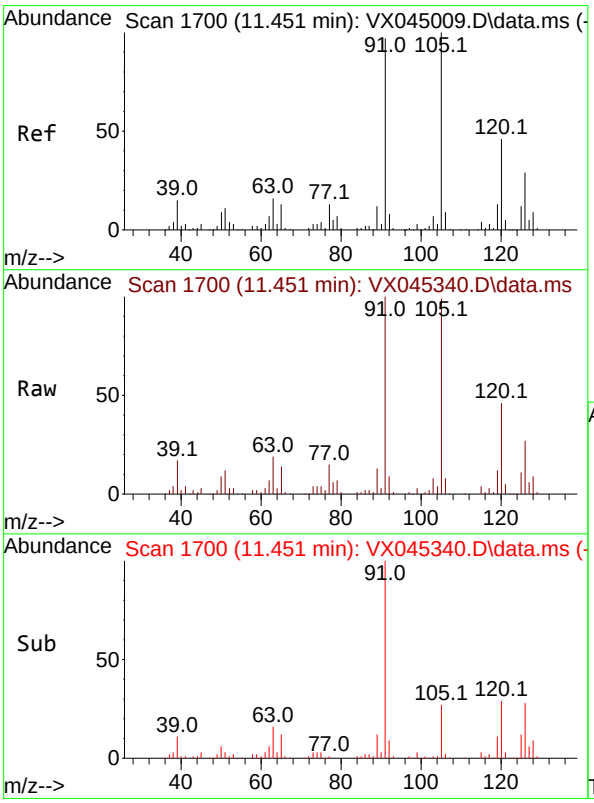
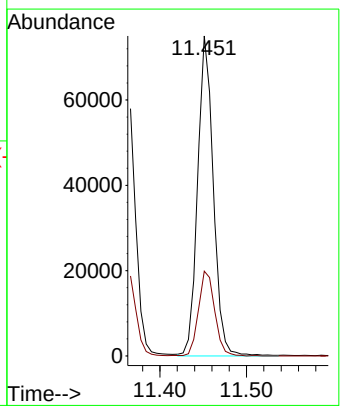
Reviewed By :John Carlone 03/20/2025
Supervised By :Mahesh Dadoda 03/20/2025

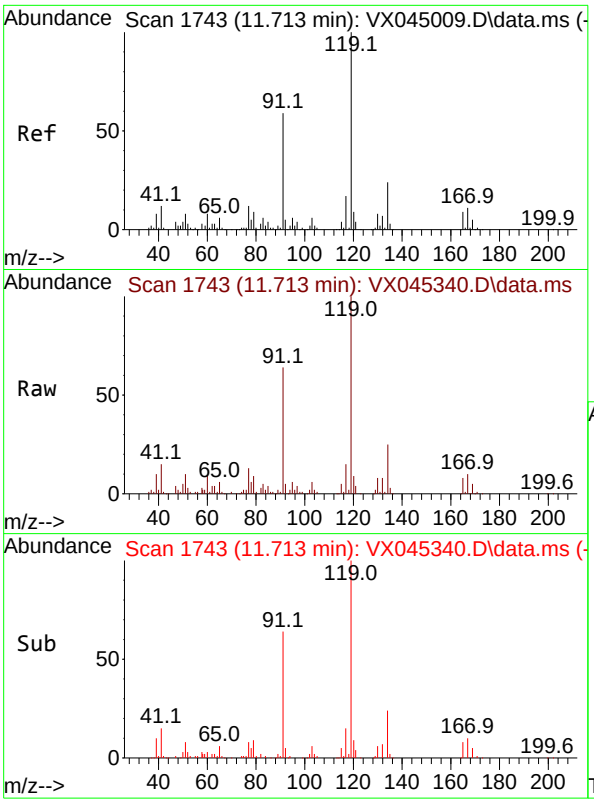


#78
4-Chlorotoluene
Concen: 21.317 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion: 91 Resp: 94621

Ion	Ratio	Lower	Upper
91	100		
126	27.2	0.0	58.0

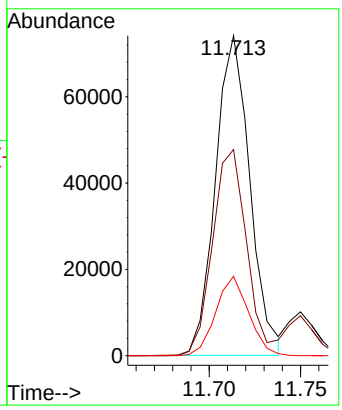




#79
tert-butylbenzene
Concen: 21.075 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion:119 Resp: 9695

Ion	Ratio	Lower	Upper
119	100		
91	63.0	0.0	120.6
134	23.8	0.0	48.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC020

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Reviewed By :John Carlone 03/20/2025
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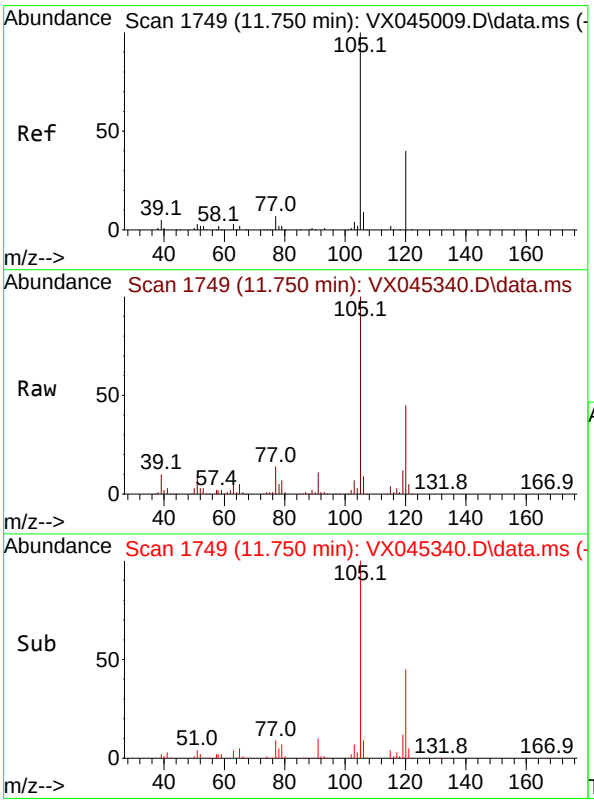
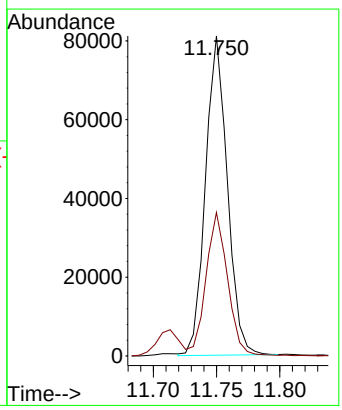
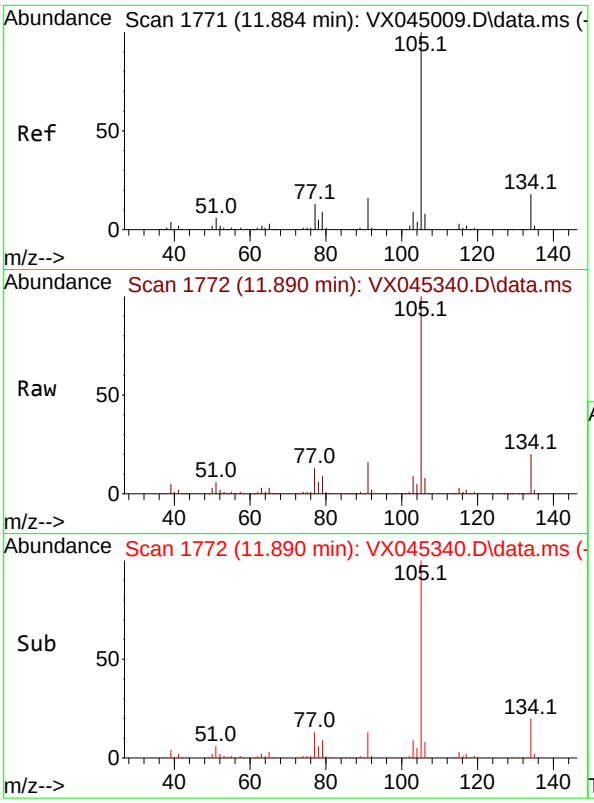


#80
1,2,4-Trimethylbenzene
Concen: 21.253 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion:105 Resp: 97205

Ion	Ratio	Lower	Upper
105	100		
120	44.7	0.0	88.4

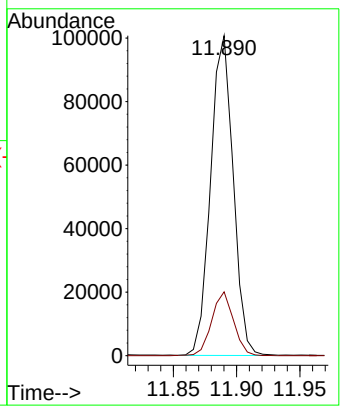




#81
sec-Butylbenzene
Concen: 21.671 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion:105 Resp: 12512

Ion	Ratio	Lower	Upper
105	100		
134	19.2	0.0	39.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC020

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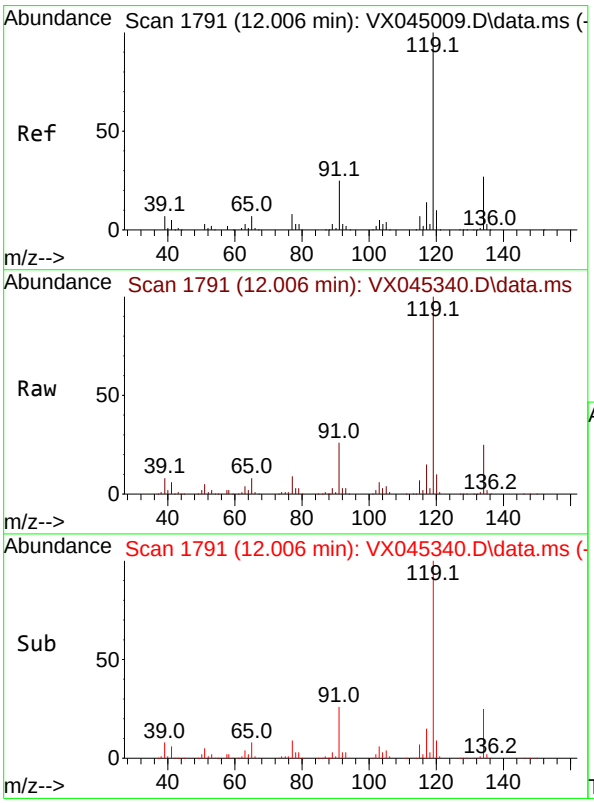
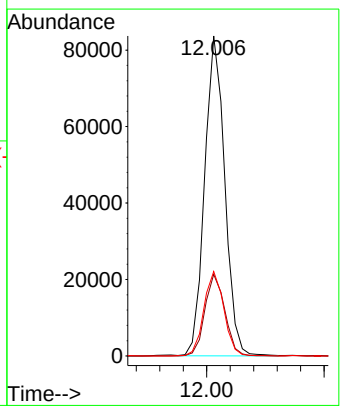
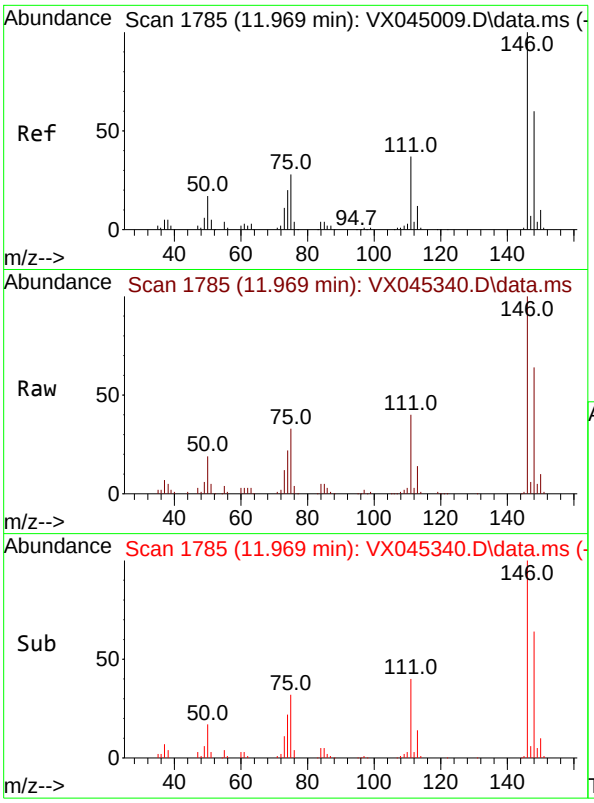


#82
p-Isopropyltoluene
Concen: 21.265 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion:119 Resp: 99482

Ion	Ratio	Lower	Upper
119	100		
134	25.2	0.0	52.6
91	26.2	0.0	51.0





#83
1,3-Dichlorobenzene
Concen: 20.274 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion:146 Resp: 4806

Ion	Ratio	Lower	Upper
146	100		
111	42.4	20.2	60.5
148	63.7	31.2	93.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC020

Manual Integrations
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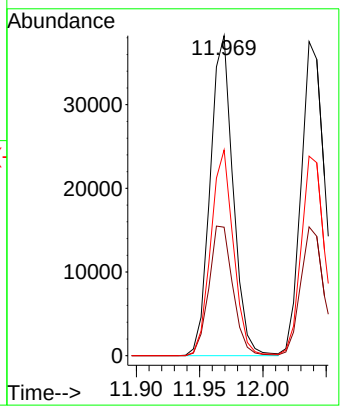
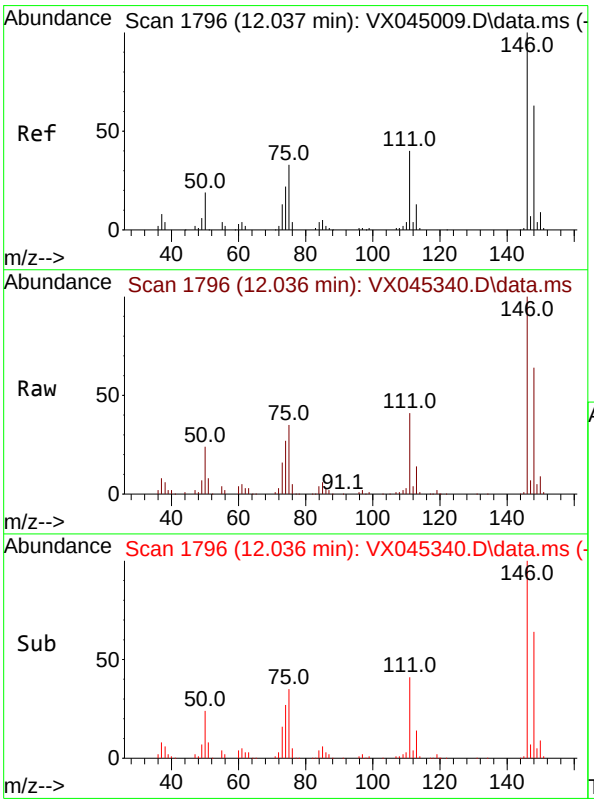
Reviewed By :John Carlone 03/20/2025
Supervised By :Mahesh Dadoda 03/20/2025

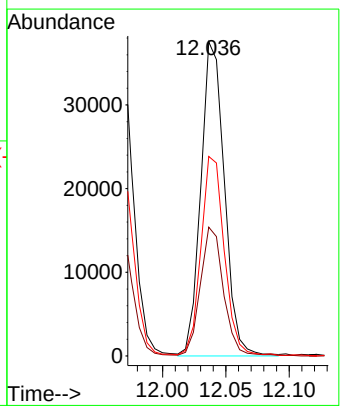


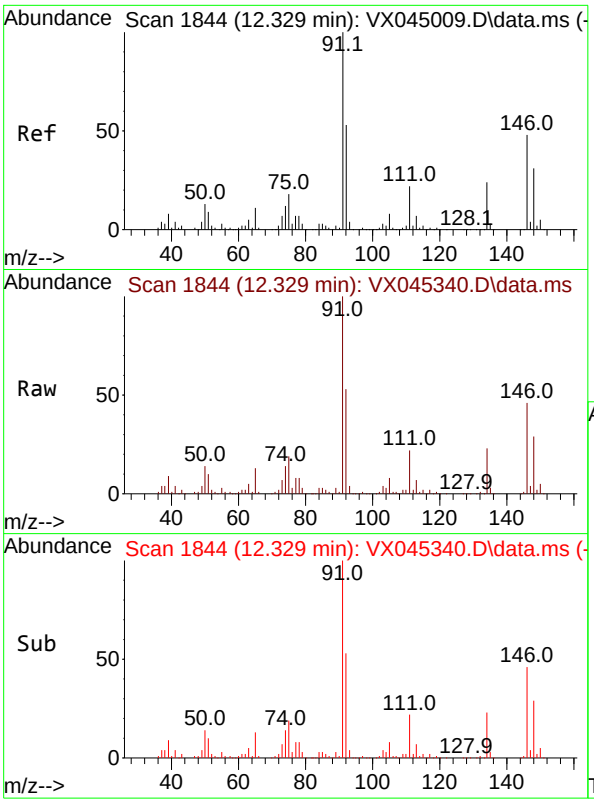


#84
1,4-Dichlorobenzene
Concen: 20.863 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. -0.000 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion:146 Resp: 48764

Ion	Ratio	Lower	Upper
146	100		
111	39.9	20.4	61.2
148	63.3	31.8	95.4

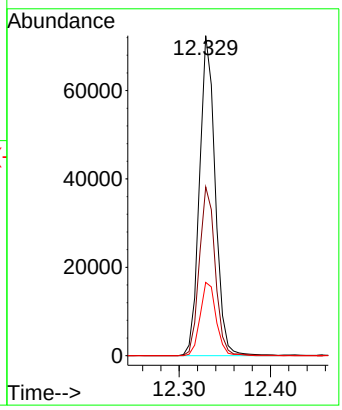




#85
n-Butylbenzene
Concen: 20.241 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion: 91 Resp: 8647

Ion	Ratio	Lower	Upper
91	100		
92	52.3	0.0	105.2
134	23.1	0.0	49.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC020

Manual Integrations
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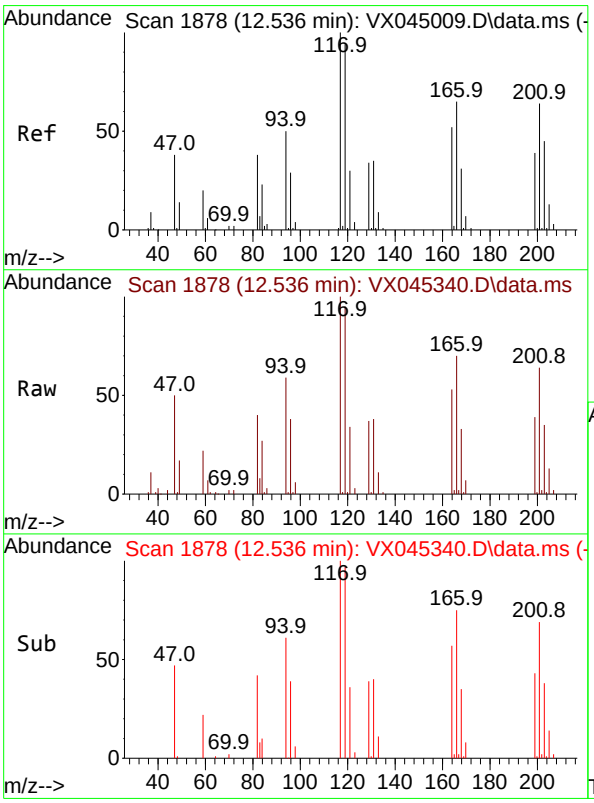
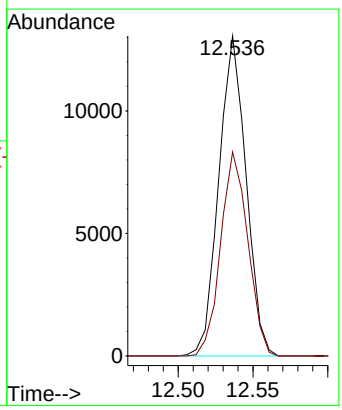
Reviewed By :John Carlone 03/20/2025
Supervised By :Mahesh Dadoda 03/20/2025

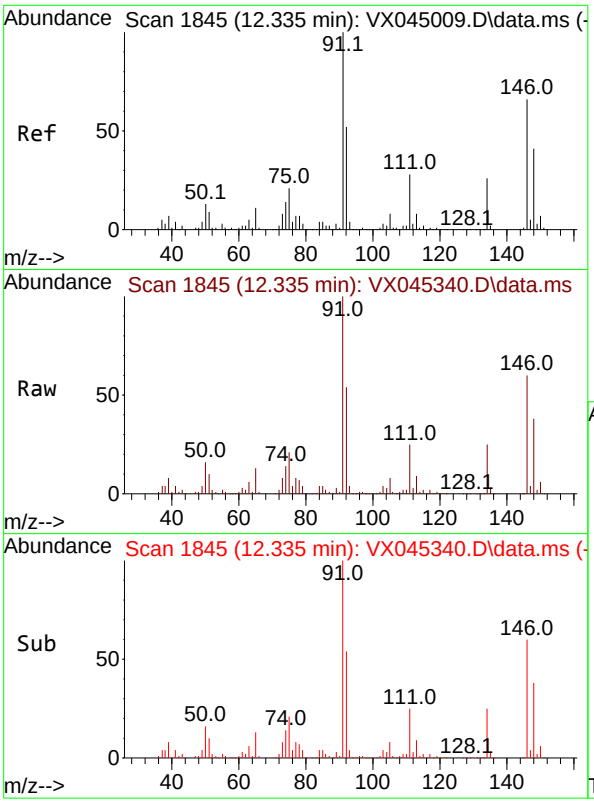


#86
Hexachloroethane
Concen: 20.077 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion:117 Resp: 16565

Ion	Ratio	Lower	Upper
117	100		
201	63.6	32.6	97.7

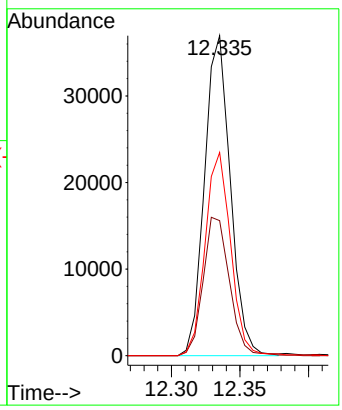




#87
1,2-Dichlorobenzene
Concen: 20.821 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion:146 Resp: 4842

Ion	Ratio	Lower	Upper
146	100		
111	44.1	21.7	65.1
148	62.9	31.8	95.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC020

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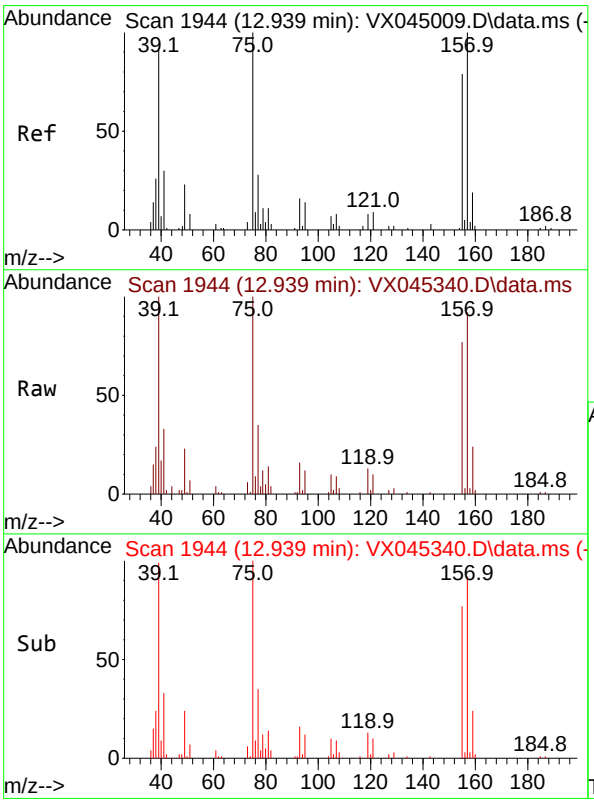
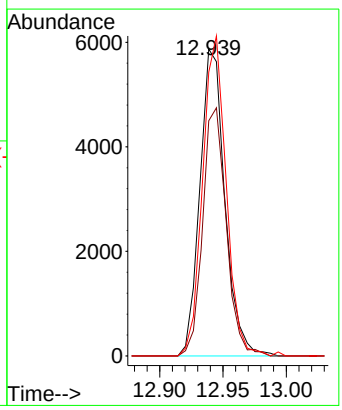
Reviewed By :John Carlone 03/20/2025
Supervised By :Mahesh Dadoda 03/20/2025

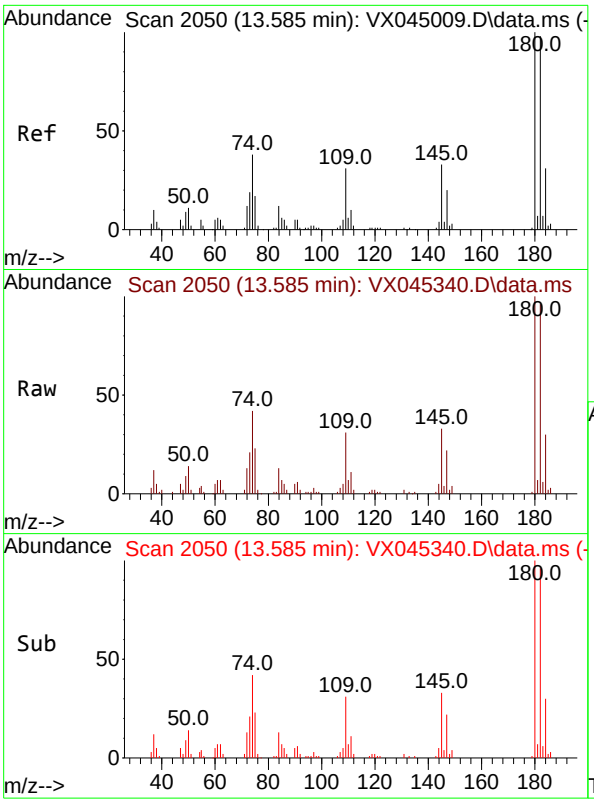


#88
1,2-Dibromo-3-Chloropropane
Concen: 22.936 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.000 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion: 75 Resp: 8082

Ion	Ratio	Lower	Upper
75	100		
155	76.1	66.2	99.4
157	98.1	81.4	122.2

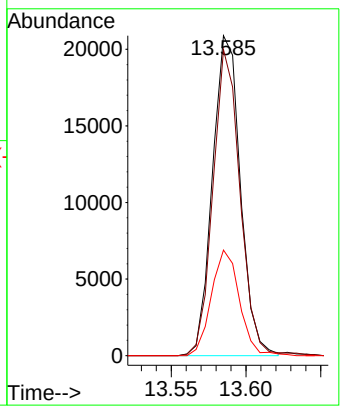




#89
1,2,4-Trichlorobenzene
Concen: 19.206 ug/l
RT: 13.585 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion:180 Resp: 2707

Ion	Ratio	Lower	Upper
180	100		
182	92.9	77.7	116.5
145	32.7	25.8	38.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC020

Manual Integrations
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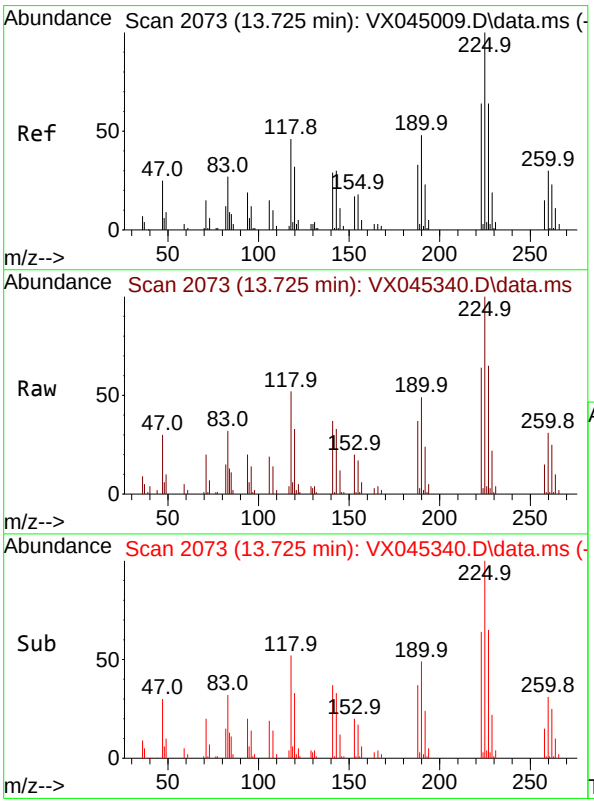
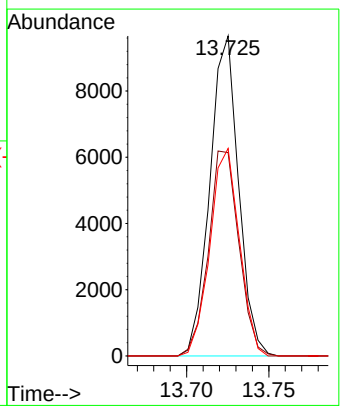
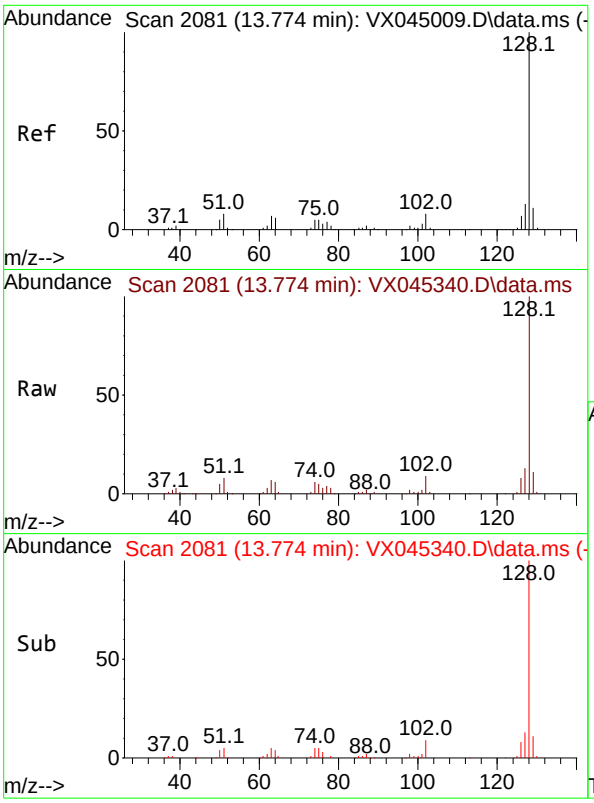


#90
Hexachlorobutadiene
Concen: 20.427 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion:225 Resp: 11744

Ion	Ratio	Lower	Upper
225	100		
223	67.9	0.0	123.4
227	66.3	0.0	127.4

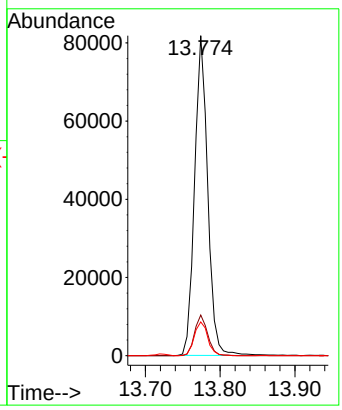




#91
Naphthalene
Concen: 20.053 ug/l
RT: 13.774 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion:128 Resp: 9968

Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.5	15.7
129	10.9	8.7	13.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC020

Manual Integrations
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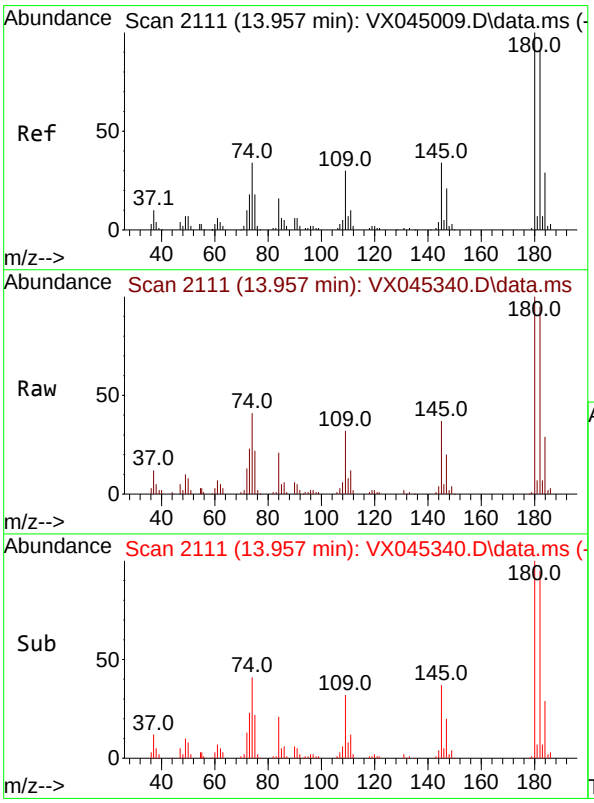
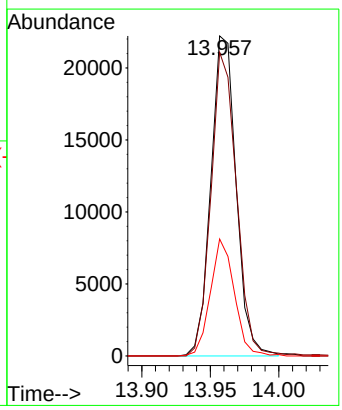


#92
1,2,3-Trichlorobenzene
Concen: 19.663 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VX045340.D
Acq: 19 Mar 2025 10:41

Tgt Ion:180 Resp: 28538

Ion	Ratio	Lower	Upper
180	100		
182	95.3	0.0	186.6
145	34.7	0.0	68.4



Evaluate Continuing Calibration Report

Sample Results: **VX045340.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX031925\
Data File : VX045340.D
Acq On : 19 Mar 2025 10:41
Operator : JC/MD
Sample : VSTDCCC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC020

Quant Time: Mar 20 01:30:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X022125W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Feb 22 01:06:36 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	Bromochloromethane	1.000	1.000	0.0	89	0.01
2	M	Dichlorodifluoromethane	2.529	2.632	-4.1	95	0.00
3	M	Chloromethane	3.029	2.718	10.3	81	0.01
4	M	Vinyl Chloride	2.923	2.544	13.0	80	0.00
5	M	Bromomethane	1.017	1.128	-10.9	103	0.00
6	M	Chloroethane	1.583	1.341	15.3	72	0.00
7	M	Trichlorofluoromethane	3.928	3.690	6.1	89	0.00
8	T	Diethyl Ether	1.486	1.267	14.7	79	0.00
9		1,1,2-Trichlorotrifluoroeth	2.333	2.471	-5.9	100	0.00
10	M	1,1-Dichloroethene	2.279	2.299	-0.9	96	0.00
11		Methyl Iodide	2.579	2.702	-4.8	111	0.00
12		Methyl Acetate	2.646	4.412	-66.7#	159#	0.00
13	M	Acrolein	0.530	0.631	-19.1	119	0.00
14	M	Acrylonitrile	1.293	1.467	-13.5	105	0.00
15	M	Acetone	0.355	0.395	-11.3	100	0.00
16	M	Carbon Disulfide	6.464	5.226	19.2	78	0.00
17		Allyl chloride	4.262	4.176	2.0	94	0.00
18	M	Methylene Chloride	2.563	2.580	-0.7	93	0.00
19	M	trans-1,2-Dichloroethene	2.306	2.205	4.4	90	0.00
20	T	Diisopropyl ether	8.191	8.189	0.0	94	0.00
21	M	1,1-Dichloroethane	4.555	4.617	-1.4	95	0.00
22	M	cis-1,2-Dichloroethene	2.763	2.788	-0.9	94	0.00
23	M	tert-Butyl Alcohol	0.451	0.427	5.3	90	0.00
24	M	Methyl tert-Butyl Ether	7.438	7.562	-1.7	96	0.00
25	M	Chloroform	4.400	4.726	-7.4	99	0.00
26		Cyclohexane	4.205	4.013	4.6	89	0.00
27	s	1,2-Dichloroethane-d4	2.914	3.187	-9.4	99	0.00
28	I	1,4-Difluorobenzene	1.000	1.000	0.0	85	0.00
29		1,1-Dichloropropene	0.552	0.569	-3.1	90	0.00
30	M	2-Butanone	0.319	0.396	-24.1	109	0.00
31		2,2-Dichloropropane	0.624	0.597	4.3	87	0.00
32	M	1,1,1-Trichloroethane	0.669	0.727	-8.7	96	0.00
33	M	Carbon Tetrachloride	0.564	0.602	-6.7	94	0.00
34	M	Benzene	1.731	1.833	-5.9	92	0.00
35		Methacrylonitrile	0.341	0.411	-20.5	106	0.00
36	M	1,2-Dichloroethane	0.592	0.694	-17.2	102	0.00
37	M	Trichloroethene	0.405	0.424	-4.7	91	0.00
38		Methylcyclohexane	0.741	0.739	0.3	90	0.00
39	M	1,2-Dichloropropane	0.430	0.448	-4.2	90	0.00
40		Dibromomethane	0.309	0.346	-12.0	98	0.00
41	M	Bromodichloromethane	0.614	0.683	-11.2	98	0.00
42	M	Vinyl Acetate	1.237	1.256	-1.5	90	0.00
43		Ethyl Acetate	0.598	0.716	-19.7	106	0.00
44		Isopropyl Acetate	0.984	1.085	-10.3	101	0.00
45	T	1,4-Dioxane	0.010	0.010	0.0	83	0.00
46		Methyl methacrylate	0.482	0.577	-19.7	108	0.00
47		n-amyl Acetate	0.854	0.885	-3.6	94	0.00
48	M	t-1,3-Dichloropropene	0.591	0.563	4.7	91	0.00

Sample Results: **VX045340.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX031925\
Data File : VX045340.D
Acq On : 19 Mar 2025 10:41
Operator : JC/MD
Sample : VSTDCCC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC020

Quant Time: Mar 20 01:30:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X022125W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Feb 22 01:06:36 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	cis-1,3-Dichloropropene	0.670	0.674	-0.6	91	0.00
50	M	1,1,2-Trichloroethane	0.403	0.444	-10.2	94	0.00
51		Ethyl methacrylate	0.633	0.676	-6.8	99	0.00
52		1,3-Dichloropropane	0.706	0.796	-12.7	97	0.00
53	M	Dibromochloromethane	0.445	0.483	-8.5	95	0.00
54	M	1,2-Dibromoethane	0.409	0.450	-10.0	96	0.00
55	M	2-Chloroethyl vinyl ether	0.325	0.336	-3.4	91	0.00
56	M	Bromoform	0.279	0.296	-6.1	98	0.00
57	I	Chlorobenzene-d5	1.000	1.000	0.0	88	0.00
58	M	4-Methyl-2-Pentanone	0.682	0.832	-22.0	108	0.00
59	M	2-Hexanone	0.493	0.608	-23.3	110	0.00
60	S	4-Bromofluorobenzene	0.561	0.584	-4.1	92	0.00
61	M	Tetrachloroethene	0.369	0.402	-8.9	96	0.00
62	M	Toluene	1.987	2.063	-3.8	93	0.00
63	S	Toluene-d8	1.660	1.665	-0.3	88	0.00
64	M	Chlorobenzene	1.231	1.280	-4.0	93	0.00
65		1,1,1,2-Tetrachloroethane	0.406	0.428	-5.4	96	0.00
66	M	Ethyl Benzene	2.176	2.264	-4.0	95	0.00
67	M	m/p-Xylenes	0.811	0.854	-5.3	92	0.00
68	M	o-Xylene	0.795	0.811	-2.0	90	0.00
69	M	Styrene	1.328	1.394	-5.0	93	0.00
70		Isopropylbenzene	2.053	2.224	-8.3	96	0.00
71	M	1,1,2,2-Tetrachloroethane	0.675	0.777	-15.1	103	0.00
72		1,2,3-Trichloropropane	0.555	0.644	-16.0	105	0.00
73		Bromobenzene	0.473	0.488	-3.2	92	0.00
74		n-propylbenzene	2.443	2.564	-5.0	95	0.00
75		2-Chlorotoluene	1.477	1.596	-8.1	96	0.00
76		1,3,5-Trimethylbenzene	1.693	1.806	-6.7	94	0.00
77		t-1,4-Dichloro-2-butene	0.187	0.180	3.7	99	0.00
78		4-Chlorotoluene	1.646	1.755	-6.6	96	0.00
79		tert-butylbenzene	1.706	1.798	-5.4	93	0.00
80		1,2,4-Trimethylbenzene	1.696	1.802	-6.3	93	0.00
81		sec-Butylbenzene	2.141	2.320	-8.4	97	0.00
82		p-Isopropyltoluene	1.735	1.845	-6.3	95	0.00
83	M	1,3-Dichlorobenzene	0.879	0.891	-1.4	90	0.00
84	M	1,4-Dichlorobenzene	0.867	0.904	-4.3	93	0.00
85		n-Butylbenzene	1.584	1.603	-1.2	93	0.00
86	T	Hexachloroethane	0.306	0.307	-0.3	96	0.00
87	M	1,2-Dichlorobenzene	0.863	0.898	-4.1	91	0.00
88		1,2-Dibromo-3-Chloropropane	0.131	0.150	-14.5	109	0.00
89		1,2,4-Trichlorobenzene	0.523	0.502	4.0	90	0.00
90		Hexachlorobutadiene	0.213	0.218	-2.3	92	0.00
91	M	Naphthalene	1.843	1.848	-0.3	92	0.00
92		1,2,3-Trichlorobenzene	0.538	0.529	1.7	89	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Sample Results: **VX045340.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX031925\
Data File : VX045340.D
Acq On : 19 Mar 2025 10:41
Operator : JC/MD
Sample : VSTDCCC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC020

Quant Time: Mar 20 01:30:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X022125W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Feb 22 01:06:36 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	Bromochloromethane	30.000	30.000	0.0	89	0.01
2	M	Dichlorodifluoromethane	20.000	20.814	-4.1	95	0.00
3	M	Chloromethane	20.000	17.945	10.3	81	0.01
4	M	Vinyl Chloride	20.000	17.406	13.0	80	0.00
5	M	Bromomethane	20.000	22.166	-10.8	103	0.00
6	M	Chloroethane	20.000	16.944	15.3	72	0.00
7	M	Trichlorofluoromethane	20.000	18.787	6.1	89	0.00
8	T	Diethyl Ether	20.000	17.046	14.8	79	0.00
9		1,1,2-Trichlorotrifluoroeth	20.000	21.178	-5.9	100	0.00
10	M	1,1-Dichloroethene	20.000	20.176	-0.9	96	0.00
11		Methyl Iodide	20.000	20.954	-4.8	111	0.00
12		Methyl Acetate	20.000	33.340	-66.7#	159	0.00
13	M	Acrolein	100.000	118.988	-19.0	119	0.00
14	M	Acrylonitrile	100.000	113.456	-13.5	105	0.00
15	M	Acetone	100.000	111.373	-11.4	100	0.00
16	M	Carbon Disulfide	20.000	16.170	19.1	78	0.00
17		Allyl chloride	20.000	19.594	2.0	94	0.00
18	M	Methylene Chloride	20.000	20.130	-0.6	93	0.00
19	M	trans-1,2-Dichloroethene	20.000	19.124	4.4	90	0.00
20	T	Diisopropyl ether	20.000	19.995	0.0	94	0.00
21	M	1,1-Dichloroethane	20.000	20.273	-1.4	95	0.00
22	M	cis-1,2-Dichloroethene	20.000	20.180	-0.9	94	0.00
23	M	tert-Butyl Alcohol	100.000	94.701	5.3	90	0.00
24	M	Methyl tert-Butyl Ether	20.000	20.334	-1.7	96	0.00
25	M	Chloroform	20.000	21.483	-7.4	99	0.00
26		Cyclohexane	20.000	19.086	4.6	89	0.00
27	s	1,2-Dichloroethane-d4	30.000	32.812	-9.4	99	0.00
28	I	1,4-Difluorobenzene	30.000	30.000	0.0	85	0.00
29		1,1-Dichloropropene	20.000	20.610	-3.0	90	0.00
30	M	2-Butanone	100.000	124.364	-24.4	109	0.00
31		2,2-Dichloropropane	20.000	19.147	4.3	87	0.00
32	M	1,1,1-Trichloroethane	20.000	21.744	-8.7	96	0.00
33	M	Carbon Tetrachloride	20.000	21.335	-6.7	94	0.00
34	M	Benzene	20.000	21.181	-5.9	92	0.00
35		Methacrylonitrile	20.000	24.103	-20.5	106	0.00
36	M	1,2-Dichloroethane	20.000	23.413	-17.1	102	0.00
37	M	Trichloroethene	20.000	20.936	-4.7	91	0.00
38		Methylcyclohexane	20.000	19.959	0.2	90	0.00
39	M	1,2-Dichloropropane	20.000	20.823	-4.1	90	0.00
40		Dibromomethane	20.000	22.434	-12.2	98	0.00
41	M	Bromodichloromethane	20.000	22.261	-11.3	98	0.00
42	M	Vinyl Acetate	100.000	101.532	-1.5	90	0.00
43		Ethyl Acetate	20.000	23.957	-19.8	106	0.00
44		Isopropyl Acetate	20.000	22.048	-10.2	101	0.00
45	T	1,4-Dioxane	400.000	394.071	1.5	83	0.00
46		Methyl methacrylate	20.000	23.923	-19.6	108	0.00
47		n-amyl Acetate	20.000	20.723	-3.6	94	0.00
48	M	t-1,3-Dichloropropene	20.000	19.050	4.7	91	0.00

Sample Results: **VX045340.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX031925\
Data File : VX045340.D
Acq On : 19 Mar 2025 10:41
Operator : JC/MD
Sample : VSTDCCC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC020

Quant Time: Mar 20 01:30:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X022125W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Feb 22 01:06:36 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	cis-1,3-Dichloropropene	20.000	20.120	-0.6	91	0.00
50	M	1,1,2-Trichloroethane	20.000	22.055	-10.3	94	0.00
51		Ethyl methacrylate	20.000	21.334	-6.7	99	0.00
52		1,3-Dichloropropane	20.000	22.567	-12.8	97	0.00
53	M	Dibromochloromethane	20.000	21.709	-8.5	95	0.00
54	M	1,2-Dibromoethane	20.000	21.988	-9.9	96	0.00
55	M	2-Chloroethyl vinyl ether	100.000	103.422	-3.4	91	0.00
56	M	Bromoform	20.000	21.196	-6.0	98	0.00
57	I	Chlorobenzene-d5	30.000	30.000	0.0	88	0.00
58	M	4-Methyl-2-Pentanone	100.000	121.880	-21.9	108	0.00
59	M	2-Hexanone	100.000	123.186	-23.2	110	0.00
60	S	4-Bromofluorobenzene	30.000	31.246	-4.2	92	0.00
61	M	Tetrachloroethene	20.000	21.744	-8.7	96	0.00
62	M	Toluene	20.000	20.767	-3.8	93	0.00
63	S	Toluene-d8	30.000	30.103	-0.3	88	0.00
64	M	Chlorobenzene	20.000	20.784	-3.9	93	0.00
65		1,1,1,2-Tetrachloroethane	20.000	21.083	-5.4	96	0.00
66	M	Ethyl Benzene	20.000	20.813	-4.1	95	0.00
67	M	m/p-Xylenes	40.000	42.144	-5.4	92	0.00
68	M	o-Xylene	20.000	20.390	-2.0	90	0.00
69	M	Styrene	20.000	20.993	-5.0	93	0.00
70		Isopropylbenzene	20.000	21.669	-8.3	96	0.00
71	M	1,1,2,2-Tetrachloroethane	20.000	23.012	-15.1	103	0.00
72		1,2,3-Trichloropropane	20.000	23.216	-16.1	105	0.00
73		Bromobenzene	20.000	20.665	-3.3	92	0.00
74		n-propylbenzene	20.000	20.998	-5.0	95	0.00
75		2-Chlorotoluene	20.000	21.614	-8.1	96	0.00
76		1,3,5-Trimethylbenzene	20.000	21.335	-6.7	94	0.00
77		t-1,4-Dichloro-2-butene	20.000	19.262	3.7	99	0.00
78		4-Chlorotoluene	20.000	21.317	-6.6	96	0.00
79		tert-butylbenzene	20.000	21.075	-5.4	93	0.00
80		1,2,4-Trimethylbenzene	20.000	21.253	-6.3	93	0.00
81		sec-Butylbenzene	20.000	21.671	-8.4	97	0.00
82		p-Isopropyltoluene	20.000	21.265	-6.3	95	0.00
83	M	1,3-Dichlorobenzene	20.000	20.274	-1.4	90	0.00
84	M	1,4-Dichlorobenzene	20.000	20.863	-4.3	93	0.00
85		n-Butylbenzene	20.000	20.241	-1.2	93	0.00
86	T	Hexachloroethane	20.000	20.077	-0.4	96	0.00
87	M	1,2-Dichlorobenzene	20.000	20.821	-4.1	91	0.00
88		1,2-Dibromo-3-Chloropropane	20.000	22.936	-14.7	109	0.00
89		1,2,4-Trichlorobenzene	20.000	19.206	4.0	90	0.00
90		Hexachlorobutadiene	20.000	20.427	-2.1	92	0.00
91	M	Naphthalene	20.000	20.053	-0.3	92	0.00
92		1,2,3-Trichlorobenzene	20.000	19.663	1.7	89	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

QC SAMPLE DATA

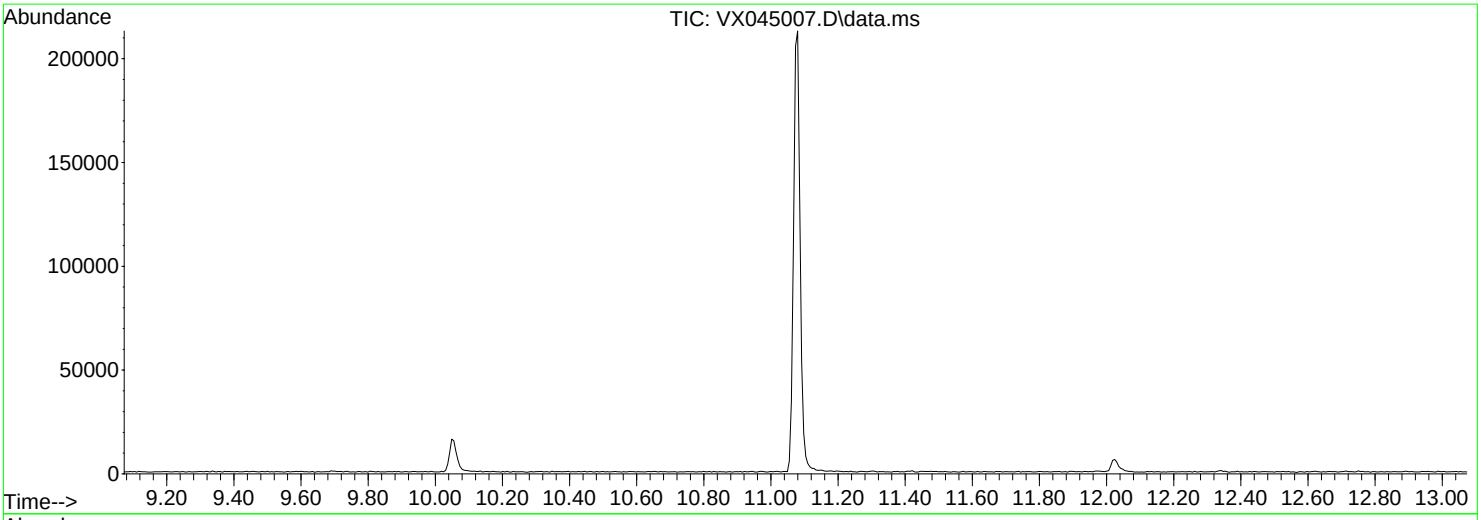
Sample Results: **VX045007.D**

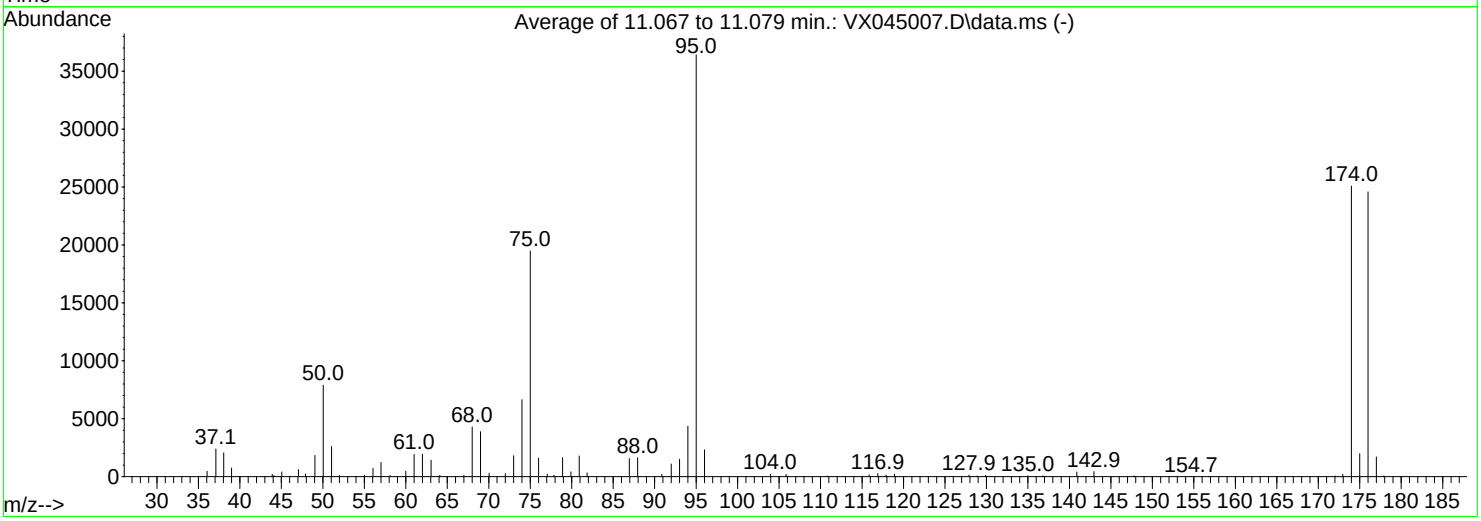
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022125\
Data File : VX045007.D
Acq On : 21 Feb 2025 09:31
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BFB

Integration File: RTEINT3.P

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X022125W.M
Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
Last Update : Sat Feb 22 01:06:36 2025





AutoFind: Scans 1637, 1638, 1639; Background Corrected with Scan 1632

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.7	7903	PASS
75	95	30	60	53.5	19493	PASS
95	95	100	100	100.0	36408	PASS
96	95	5	9	6.4	2318	PASS
173	174	0.00	2	0.8	213	PASS
174	95	50	100	68.9	25081	PASS
175	174	5	9	7.9	1979	PASS
176	174	95	101	98.0	24589	PASS
177	176	5	9	6.9	1695	PASS

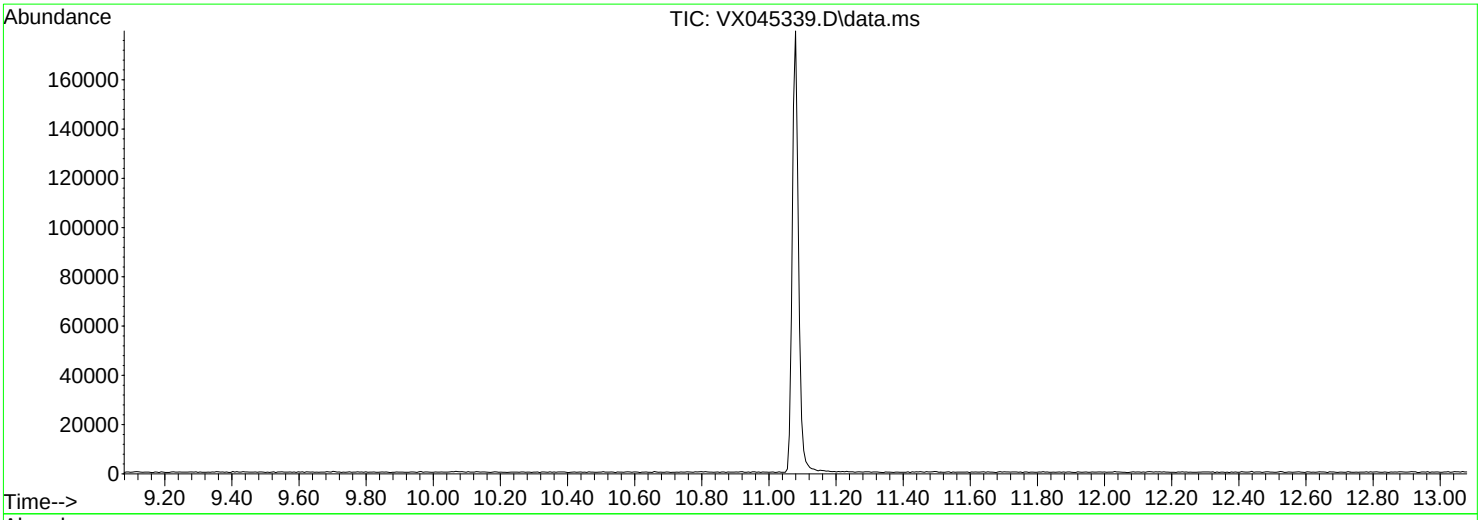
Sample Results: **VX045339.D**

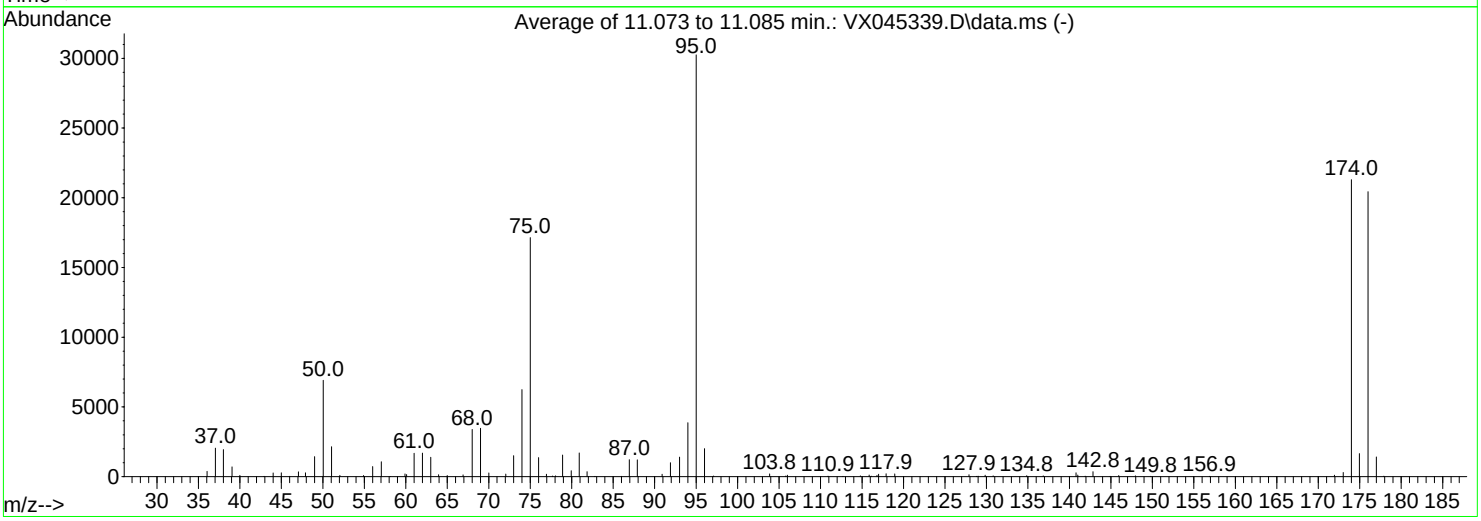
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX031925\
Data File : VX045339.D
Acq On : 19 Mar 2025 10:11
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BFB

Integration File: RTEINT3.P

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X022125W.M
Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
Last Update : Sat Feb 22 01:06:36 2025





AutoFind: Scans 1638, 1639, 1640; Background Corrected with Scan 1633

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.8	6907	PASS
75	95	30	60	56.7	17149	PASS
95	95	100	100	100.0	30251	PASS
96	95	5	9	6.6	2004	PASS
173	174	0.00	2	1.4	297	PASS
174	95	50	100	70.4	21304	PASS
175	174	5	9	7.8	1655	PASS
176	174	95	101	95.9	20440	PASS
177	176	5	9	6.9	1413	PASS

Raw Data: **VX045343.D**

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:	VX0319WBL01	SDG No.:	Q1502
Lab Sample ID:	VX0319WBL01	Matrix:	Water
Analytical Method:	E624.1	% 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:	Prep Date	Date Analyzed	Prep Batch ID
VX045343.D	1		03/19/25 12:50	VX031925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.77	U	0.77	5.00	ug/L
74-87-3	Chloromethane	0.64	U	0.64	5.00	ug/L
75-01-4	Vinyl Chloride	0.83	U	0.83	5.00	ug/L
74-83-9	Bromomethane	0.80	U	0.80	5.00	ug/L
75-00-3	Chloroethane	2.30	U	2.30	5.00	ug/L
75-69-4	Trichlorofluoromethane	0.80	U	0.80	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.76	U	0.76	5.00	ug/L
107-02-8	Acrolein	6.60	U	6.60	25.0	ug/L
107-13-1	Acrylonitrile	2.80	U	2.80	25.0	ug/L
67-64-1	Acetone	4.60	U	4.60	25.0	ug/L
75-15-0	Carbon Disulfide	0.82	U	0.82	5.00	ug/L
1634-04-4	Methyl tert-Butyl Ether	0.77	U	0.77	5.00	ug/L
75-09-2	Methylene Chloride	0.86	U	0.86	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.82	U	0.82	5.00	ug/L
108-05-4	Vinyl Acetate	3.20	U	3.20	25.0	ug/L
75-34-3	1,1-Dichloroethane	0.68	U	0.68	5.00	ug/L
78-93-3	2-Butanone	2.00	U	2.00	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.74	U	0.74	5.00	ug/L
594-20-7	2,2-Dichloropropane	0.66	U	0.66	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.80	U	0.80	5.00	ug/L
67-66-3	Chloroform	0.55	U	0.55	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.63	U	0.63	5.00	ug/L
563-58-6	1,1-Dichloropropene	0.63	U	0.63	5.00	ug/L
71-43-2	Benzene	0.45	U	0.45	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.50	5.00	ug/L
79-01-6	Trichloroethene	0.49	U	0.49	5.00	ug/L
78-87-5	1,2-Dichloropropane	0.46	U	0.46	5.00	ug/L
74-95-3	Dibromomethane	0.59	U	0.59	5.00	ug/L
75-27-4	Bromodichloromethane	0.64	U	0.64	5.00	ug/L
108-10-1	4-Methyl-2-Pentanone	3.00	U	3.00	25.0	ug/L

Raw Data: **VX045343.D**

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:	VX0319WBL01	SDG No.:	Q1502
Lab Sample ID:	VX0319WBL01	Matrix:	Water
Analytical Method:	E624.1	% 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:	Prep Date	Date Analyzed	Prep Batch ID
VX045343.D	1		03/19/25 12:50	VX031925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
108-88-3	Toluene	0.46	U	0.46	5.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.72	U	0.72	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.67	U	0.67	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.45	U	0.45	5.00	ug/L
142-28-9	1,3-Dichloropropane	0.44	U	0.44	5.00	ug/L
110-75-8	2-Chloroethyl vinyl ether	4.60	U	4.60	25.0	ug/L
591-78-6	2-Hexanone	3.20	U	3.20	25.0	ug/L
124-48-1	Dibromochloromethane	0.66	U	0.66	5.00	ug/L
106-93-4	1,2-Dibromoethane	0.56	U	0.56	5.00	ug/L
127-18-4	Tetrachloroethene	0.84	U	0.84	5.00	ug/L
108-90-7	Chlorobenzene	0.47	U	0.47	5.00	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	0.62	U	0.62	5.00	ug/L
67-72-1	Hexachloroethane	0.98	U	0.98	5.00	ug/L
100-41-4	Ethyl Benzene	0.56	U	0.56	5.00	ug/L
179601-23-1	m/p-Xylenes	1.30	U	1.30	10.0	ug/L
1330-20-7	Total Xylenes	1.97	U	1.97	15.0	ug/L
95-47-6	o-Xylene	0.67	U	0.67	5.00	ug/L
100-42-5	Styrene	0.72	U	0.72	5.00	ug/L
75-25-2	Bromoform	0.94	U	0.94	5.00	ug/L
98-82-8	Isopropylbenzene	0.78	U	0.78	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.44	U	0.44	5.00	ug/L
96-18-4	1,2,3-Trichloropropane	0.62	U	0.62	5.00	ug/L
108-86-1	Bromobenzene	0.59	U	0.59	5.00	ug/L
103-65-1	n-propylbenzene	0.67	U	0.67	5.00	ug/L
95-49-8	2-Chlorotoluene	0.64	U	0.64	5.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.59	U	0.59	5.00	ug/L
106-43-4	4-Chlorotoluene	0.62	U	0.62	5.00	ug/L
98-06-6	tert-butylbenzene	0.71	U	0.71	5.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	0.77	U	0.77	5.00	ug/L
135-98-8	sec-Butylbenzene	0.64	U	0.64	5.00	ug/L
99-87-6	p-Isopropyltoluene	0.70	U	0.70	5.00	ug/L

Raw Data: **VX045343.D**

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:	VX0319WBL01	SDG No.:	Q1502
Lab Sample ID:	VX0319WBL01	Matrix:	Water
Analytical Method:	E624.1	% 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:	Prep Date	Date Analyzed	Prep Batch ID
VX045343.D	1		03/19/25 12:50	VX031925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
541-73-1	1,3-Dichlorobenzene	0.67	U	0.67	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.81	U	0.81	5.00	ug/L
104-51-8	n-Butylbenzene	0.82	U	0.82	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.67	U	0.67	5.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.86	U	0.86	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.00	U	1.00	5.00	ug/L
87-68-3	Hexachlorobutadiene	0.68	U	0.68	5.00	ug/L
91-20-3	Naphthalene	1.00	U	1.00	5.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	1.10	U	1.10	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	31.2		91 - 110	104%	SPK: 30
2037-26-5	Toluene-d8	29.5		91 - 112	98%	SPK: 30
460-00-4	4-Bromofluorobenzene	28.4		63 - 112	95%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	17100	4.885			
540-36-3	1,4-Difluorobenzene	85700	6.757			
3114-55-4	Chlorobenzene-d5	77100	10.049			
74-97-5	Bromochloromethane	17100	4.885			

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\VX031925\
Data File : VX045343.D
Acq On : 19 Mar 2025 12:50
Operator : JC/MD
Sample : VX0319WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0319WBL01

Quant Time: Mar 20 01:34:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X022125W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Feb 22 01:06:36 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	4.885	128	17082	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	85703	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.049	117	77105	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	51831	31.240	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 104.133%			
60) 4-Bromofluorobenzene	11.079	95	40882	28.367	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 94.567%			
63) Toluene-d8	8.647	98	125682	29.464	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 98.200%			
Target Compounds						Qvalue

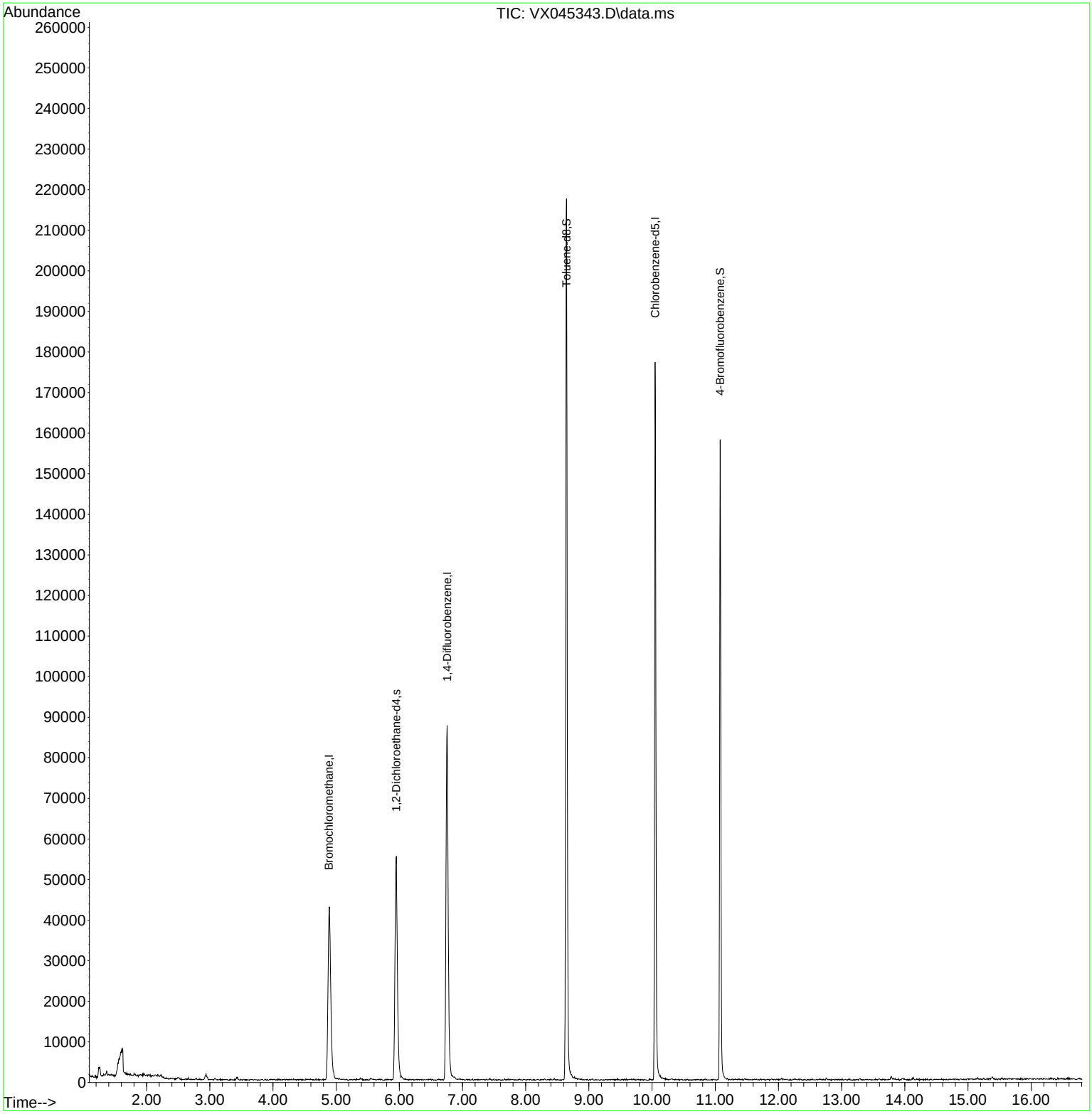
(#) = qualifier out of range (m) = manual integration (+) = signals summed

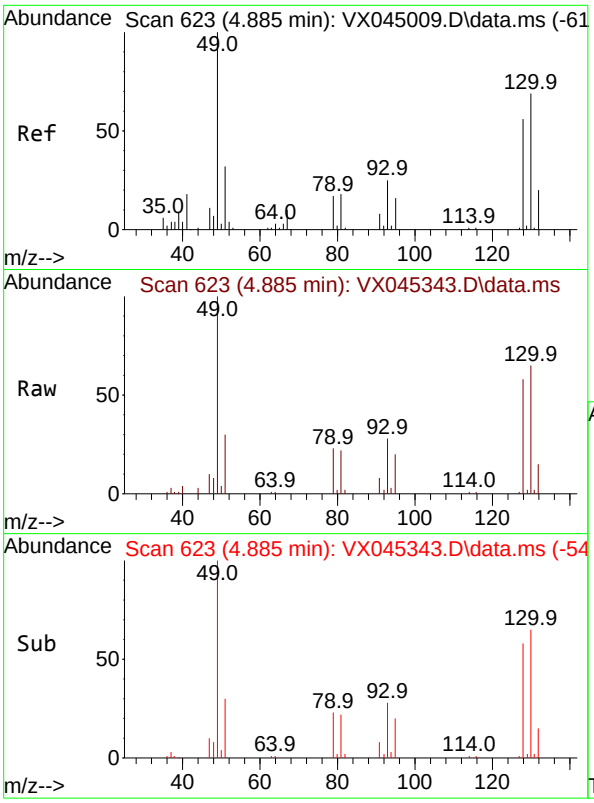
Sample Results: **VX045343.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX031925\
Data File : VX045343.D
Acq On : 19 Mar 2025 12:50
Operator : JC/MD
Sample : VX0319WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0319WBL01

Quant Time: Mar 20 01:34:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X022125W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Feb 22 01:06:36 2025
Response via : Initial Calibration



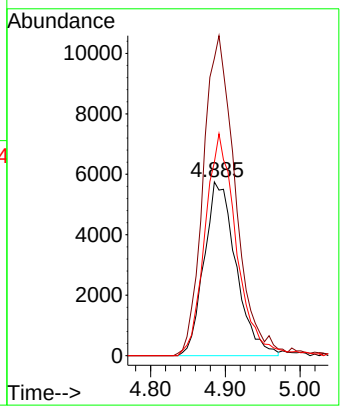


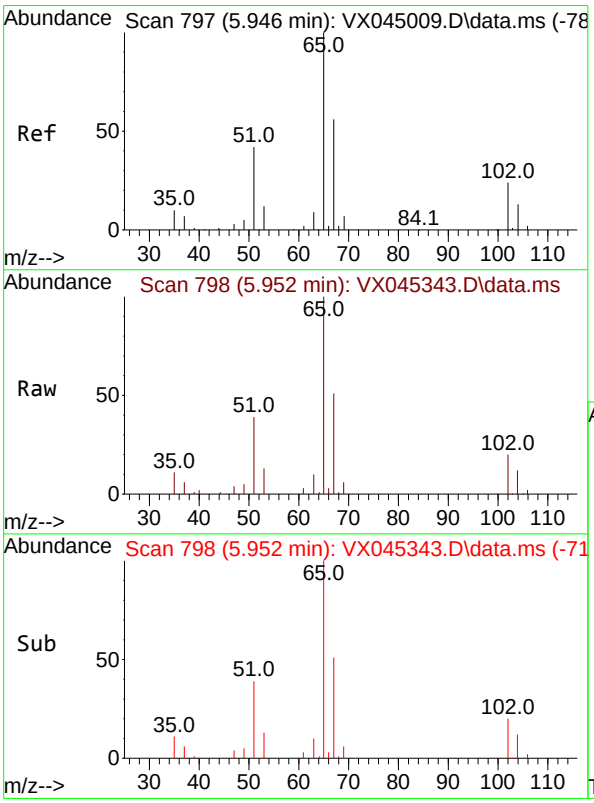
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.885 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX045343.D
Acq: 19 Mar 2025 12:50

Instrument :
MSVOA_X
ClientSampleId :
VX0319WBL01

Tgt Ion:128 Resp: 17082

Ion	Ratio	Lower	Upper
128	100		
49	184.8	0.0	449.7
130	124.8	0.0	312.7

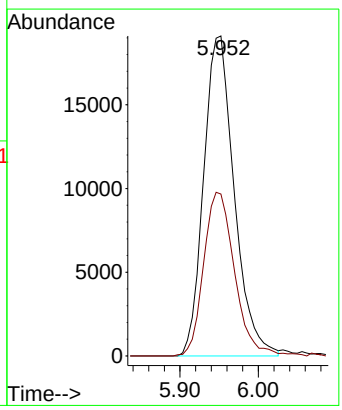


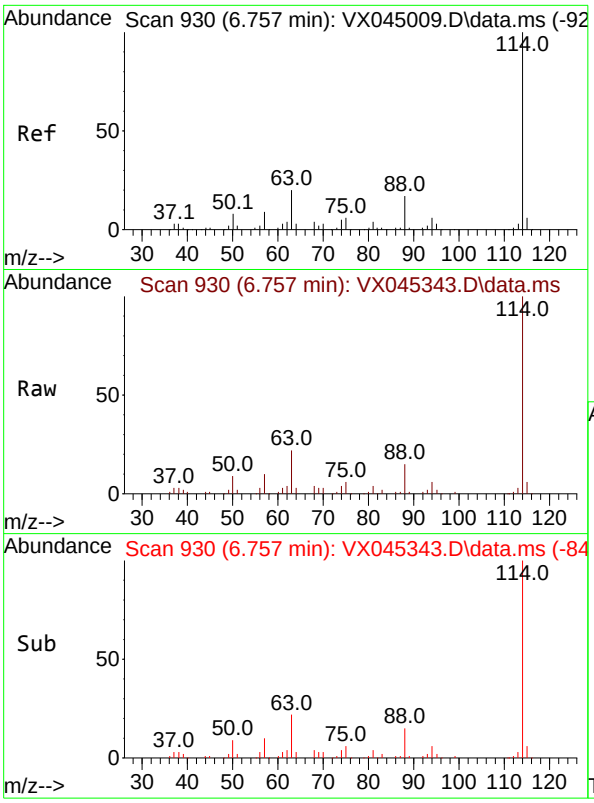


#27
1,2-Dichloroethane-d4
Concen: 31.240 ug/l
RT: 5.952 min Scan# 798
Delta R.T. 0.006 min
Lab File: VX045343.D
Acq: 19 Mar 2025 12:50

Tgt Ion: 65 Resp: 51831

Ion	Ratio	Lower	Upper
65	100		
67	50.7	42.6	64.0



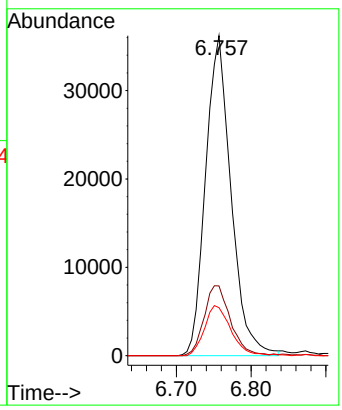


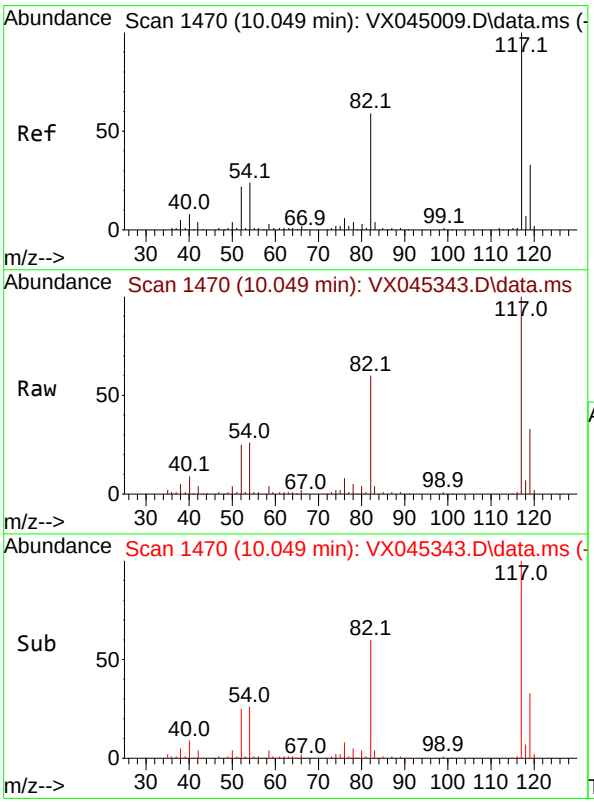
#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 6.757 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX045343.D
Acq: 19 Mar 2025 12:50

Instrument :
MSVOA_X
ClientSampleId :
VX0319WBL01

Tgt Ion:114 Resp: 85703

Ion	Ratio	Lower	Upper
114	100		
63	22.6	16.8	25.2
88	16.1	12.7	19.1

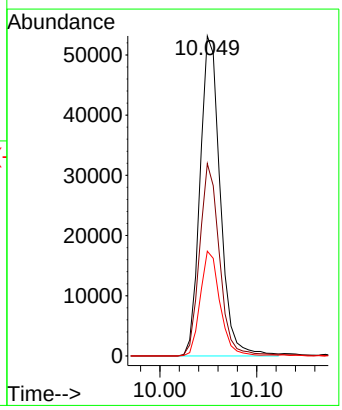


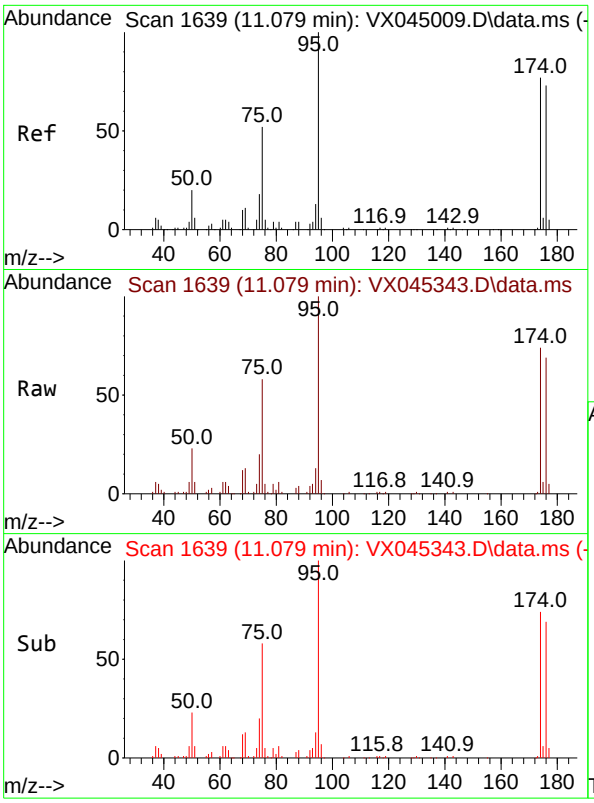


#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. -0.000 min
Lab File: VX045343.D
Acq: 19 Mar 2025 12:50

Tgt Ion:117 Resp: 77105

Ion	Ratio	Lower	Upper
117	100		
82	59.4	45.8	68.8
119	31.9	25.5	38.3



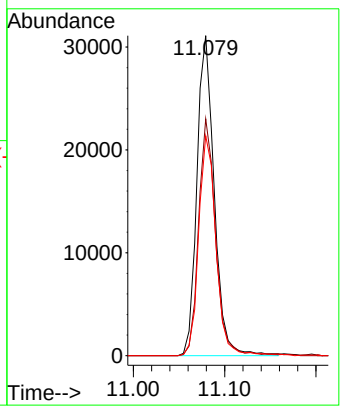


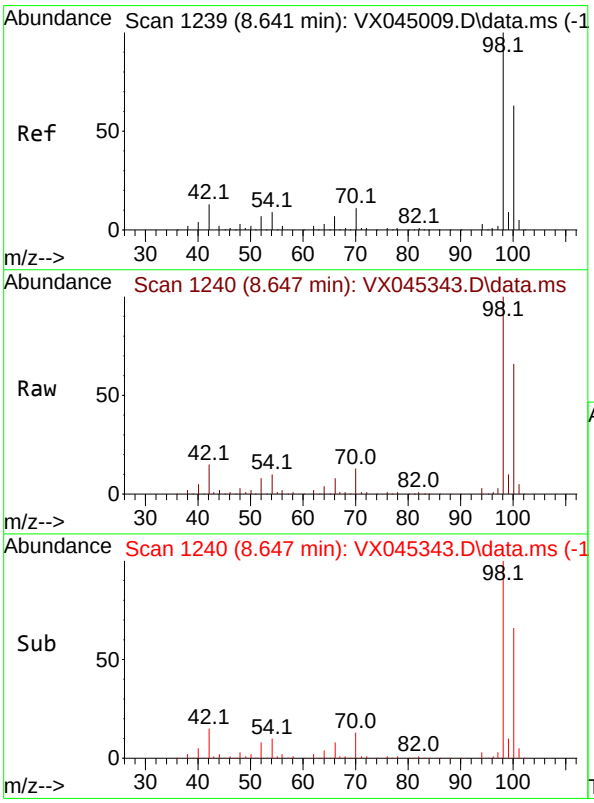
#60
4-Bromofluorobenzene
Concen: 28.367 ug/l
RT: 11.079 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045343.D
Acq: 19 Mar 2025 12:50

Instrument :
MSVOA_X
ClientSampleId :
VX0319WBL01

Tgt Ion: 95 Resp: 40882

Ion	Ratio	Lower	Upper
95	100		
174	71.4	59.5	89.3
176	67.7	55.5	83.3

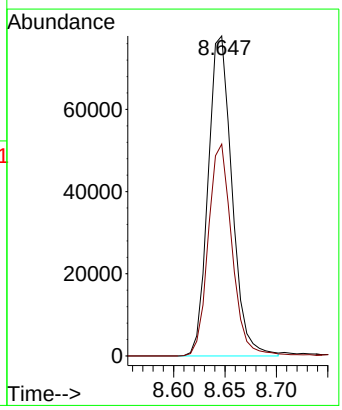




#63
Toluene-d8
Concen: 29.464 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.006 min
Lab File: VX045343.D
Acq: 19 Mar 2025 12:50

Tgt Ion: 98 Resp: 125682

Ion	Ratio	Lower	Upper
98	100		
100	66.0	51.7	77.5



Raw Data: **VX045341.D**

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:	VX0319WBS01	SDG No.:	Q1502
Lab Sample ID:	VX0319WBS01	Matrix:	Water
Analytical Method:	E624.1	% 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:	Prep Date	Date Analyzed	Prep Batch ID
VX045341.D	1		03/19/25 11:41	VX031925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	17.5		0.77	5.00	ug/L
74-87-3	Chloromethane	15.2		0.64	5.00	ug/L
75-01-4	Vinyl Chloride	15.7		0.83	5.00	ug/L
74-83-9	Bromomethane	20.1		0.80	5.00	ug/L
75-00-3	Chloroethane	16.5		2.30	5.00	ug/L
75-69-4	Trichlorofluoromethane	17.5		0.80	5.00	ug/L
75-35-4	1,1-Dichloroethene	17.9		0.76	5.00	ug/L
107-02-8	Acrolein	100		6.60	25.0	ug/L
107-13-1	Acrylonitrile	110		2.80	25.0	ug/L
67-64-1	Acetone	120		4.60	25.0	ug/L
75-15-0	Carbon Disulfide	14.6		0.82	5.00	ug/L
1634-04-4	Methyl tert-Butyl Ether	19.1		0.77	5.00	ug/L
75-09-2	Methylene Chloride	18.4		0.86	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	17.5		0.82	5.00	ug/L
108-05-4	Vinyl Acetate	96.0		3.20	25.0	ug/L
75-34-3	1,1-Dichloroethane	18.8		0.68	5.00	ug/L
78-93-3	2-Butanone	120		2.00	25.0	ug/L
56-23-5	Carbon Tetrachloride	20.4		0.74	5.00	ug/L
594-20-7	2,2-Dichloropropane	18.8		0.66	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	18.3		0.80	5.00	ug/L
67-66-3	Chloroform	19.6		0.55	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	20.8		0.63	5.00	ug/L
563-58-6	1,1-Dichloropropene	19.8		0.63	5.00	ug/L
71-43-2	Benzene	19.8		0.45	5.00	ug/L
107-06-2	1,2-Dichloroethane	22.5		0.50	5.00	ug/L
79-01-6	Trichloroethene	19.3		0.49	5.00	ug/L
78-87-5	1,2-Dichloropropane	19.3		0.46	5.00	ug/L
74-95-3	Dibromomethane	21.0		0.59	5.00	ug/L
75-27-4	Bromodichloromethane	20.8		0.64	5.00	ug/L
108-10-1	4-Methyl-2-Pentanone	120		3.00	25.0	ug/L

Raw Data: **VX045341.D**

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:	VX0319WBS01	SDG No.:	Q1502
Lab Sample ID:	VX0319WBS01	Matrix:	Water
Analytical Method:	E624.1	% 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:	Prep Date	Date Analyzed	Prep Batch ID
VX045341.D	1		03/19/25 11:41	VX031925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
108-88-3	Toluene	20.3		0.46	5.00	ug/L
10061-02-6	t-1,3-Dichloropropene	18.3		0.72	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	18.8		0.67	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	20.1		0.45	5.00	ug/L
142-28-9	1,3-Dichloropropane	20.7		0.44	5.00	ug/L
110-75-8	2-Chloroethyl vinyl ether	130		4.60	25.0	ug/L
591-78-6	2-Hexanone	120		3.20	25.0	ug/L
124-48-1	Dibromochloromethane	19.9		0.66	5.00	ug/L
106-93-4	1,2-Dibromoethane	20.9		0.56	5.00	ug/L
127-18-4	Tetrachloroethene	21.1		0.84	5.00	ug/L
108-90-7	Chlorobenzene	19.7		0.47	5.00	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	19.9		0.62	5.00	ug/L
67-72-1	Hexachloroethane	18.7		0.98	5.00	ug/L
100-41-4	Ethyl Benzene	20.3		0.56	5.00	ug/L
179601-23-1	m/p-Xylenes	40.4		1.30	10.0	ug/L
1330-20-7	Total Xylenes	60.6		1.97	15.0	ug/L
95-47-6	o-Xylene	20.2		0.67	5.00	ug/L
100-42-5	Styrene	19.5		0.72	5.00	ug/L
75-25-2	Bromoform	19.4		0.94	5.00	ug/L
98-82-8	Isopropylbenzene	20.5		0.78	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	21.3		0.44	5.00	ug/L
96-18-4	1,2,3-Trichloropropane	21.6		0.62	5.00	ug/L
108-86-1	Bromobenzene	19.0		0.59	5.00	ug/L
103-65-1	n-propylbenzene	20.3		0.67	5.00	ug/L
95-49-8	2-Chlorotoluene	20.3		0.64	5.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	20.5		0.59	5.00	ug/L
106-43-4	4-Chlorotoluene	19.8		0.62	5.00	ug/L
98-06-6	tert-butylbenzene	20.2		0.71	5.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	19.8		0.77	5.00	ug/L
135-98-8	sec-Butylbenzene	20.2		0.64	5.00	ug/L
99-87-6	p-Isopropyltoluene	20.0		0.70	5.00	ug/L

Raw Data: **VX045341.D**

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:	VX0319WBS01	SDG No.:	Q1502
Lab Sample ID:	VX0319WBS01	Matrix:	Water
Analytical Method:	E624.1	% 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:	Prep Date	Date Analyzed	Prep Batch ID
VX045341.D	1		03/19/25 11:41	VX031925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
541-73-1	1,3-Dichlorobenzene	19.4		0.67	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.0		0.81	5.00	ug/L
104-51-8	n-Butylbenzene	19.4		0.82	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	19.6		0.67	5.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	21.9		0.86	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	18.5		1.00	5.00	ug/L
87-68-3	Hexachlorobutadiene	19.9		0.68	5.00	ug/L
91-20-3	Naphthalene	19.3		1.00	5.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	18.6		1.10	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	32.0		91 - 110	107%	SPK: 30
2037-26-5	Toluene-d8	31.1		91 - 112	104%	SPK: 30
460-00-4	4-Bromofluorobenzene	31.1		63 - 112	104%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	18700	4.891			
540-36-3	1,4-Difluorobenzene	97300	6.757			
3114-55-4	Chlorobenzene-d5	87300	10.049			
74-97-5	Bromochloromethane	18700	4.891			

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\VX031925\
Data File : VX045341.D
Acq On : 19 Mar 2025 11:41
Operator : JC/MD
Sample : VX0319WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0319WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 03/20/2025
Supervised By :Mahesh Dadoda 03/20/2025

Quant Time: Mar 20 01:31:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X022125W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Feb 22 01:06:36 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	4.891	128	18710	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	97348	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.049	117	87335	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	58087	31.965	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 106.533%			
60) 4-Bromofluorobenzene	11.079	95	50712	31.066	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 103.567%			
63) Toluene-d8	8.647	98	150287	31.105	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 103.700%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	27543	17.463	ug/l	97
3) Chloromethane	1.306	50	28787	15.238	ug/l	98
4) Vinyl Chloride	1.373	62	28568	15.672	ug/l	99
5) Bromomethane	1.593	94	12784	20.147	ug/l	97
6) Chloroethane	1.666	64	16301	16.511	ug/l	94
7) Trichlorofluoromethane	1.873	101	42772	17.458	ug/l	99
8) Diethyl Ether	2.129	74	14742	15.903	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.318	101	27937	19.199	ug/l	99
10) 1,1-Dichloroethene	2.312	96	25457	17.911	ug/l	91
11) Methyl Iodide	2.446	142	31061	19.309	ug/l	99
12) Methyl Acetate	2.702	43	51249	31.051	ug/l	100
13) Acrolein	2.233	56	34448	104.128	ug/l	99
14) Acrylonitrile	3.062	53	85508	106.065	ug/l	99
15) Acetone	2.379	58	27200	123.020	ug/l	93
16) Carbon Disulfide	2.501	76	59047	14.646	ug/l	99
17) Allyl chloride	2.660	41	48978	18.424	ug/l	100
18) Methylene Chloride	2.782	84	29343	18.355	ug/l	93
19) trans-1,2-Dichloroethene	3.080	96	25174	17.507	ug/l	89
20) Diisopropyl ether	3.757	45	95879	18.769	ug/l	94
21) 1,1-Dichloroethane	3.605	63	53526	18.840	ug/l	99
22) cis-1,2-Dichloroethene	4.483	96	31543	18.305	ug/l	96
23) tert-Butyl Alcohol	2.971	59	24683	87.702	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	88622	19.104	ug/l	96
25) Chloroform	5.086	83	53809	19.609	ug/l	94
26) Cyclohexane	5.458	56	47478	18.105	ug/l #	96
29) 1,1-Dichloropropene	5.684	75	35508	19.829	ug/l	99
30) 2-Butanone	4.556	43	124731	120.592	ug/l #	96
31) 2,2-Dichloropropane	4.464	77	38109	18.821	ug/l	100
32) 1,1,1-Trichloroethane	5.379	97	45029	20.753	ug/l	96
33) Carbon Tetrachloride	5.671	117	37350	20.397	ug/l	98
34) Benzene	6.031	78	111274	19.815	ug/l	99
35) Methacrylonitrile	4.915	41	24698	22.314	ug/l	93
36) 1,2-Dichloroethane	6.080	62	43307	22.525	ug/l	96
37) Trichloroethene	7.116	130	25366	19.308	ug/l	99
38) Methylcyclohexane	7.372	83	46548	19.359	ug/l	99
39) 1,2-Dichloropropane	7.427	63	27000	19.339	ug/l	97
40) Dibromomethane	7.580	93	21007	20.968	ug/l	99
41) Bromodichloromethane	7.817	83	41380	20.781	ug/l	97
42) Vinyl Acetate	3.714	43	385398	96.020	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX031925\
Data File : VX045341.D
Acq On : 19 Mar 2025 11:41
Operator : JC/MD
Sample : VX0319WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 20 01:31:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X022125W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Feb 22 01:06:36 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0319WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 03/20/2025
Supervised By :Mahesh Dadoda 03/20/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.714	43	42770	22.050	ug/l	96
44) Isopropyl Acetate	6.336	43	68513	21.461	ug/l	96
45) 1,4-Dioxane	7.659	88	11324	341.216	ug/l	95
46) Methyl methacrylate	7.689	41	34428	21.993	ug/l	95
47) n-amyl Acetate	10.841	43	52245	18.859	ug/l	98
48) t-1,3-Dichloropropene	8.976	75	35099	18.287	ug/l	96
49) cis-1,3-Dichloropropene	8.366	75	40766	18.763	ug/l	96
50) 1,1,2-Trichloroethane	9.146	97	26276	20.107	ug/l	91
51) Ethyl methacrylate	9.116	69	40819	19.861	ug/l	97
52) 1,3-Dichloropropane	9.305	76	47347	20.677	ug/l	99
53) Dibromochloromethane	9.518	129	28807	19.931	ug/l	95
54) 1,2-Dibromoethane	9.610	107	27720	20.889	ug/l	98
55) 2-Chloroethyl vinyl ether	8.238	63	134939	127.852	ug/l	99
56) Bromoform	10.799	173	17591	19.423	ug/l	98
58) 4-Methyl-2-Pentanone	8.567	43	232649	117.104	ug/l	98
59) 2-Hexanone	9.427	43	168179	117.117	ug/l	98
61) Tetrachloroethene	9.268	164	22715	21.122	ug/l	92
62) Toluene	8.714	91	117162	20.251	ug/l	97
64) Chlorobenzene	10.079	112	70773	19.741	ug/l	96
65) 1,1,1,2-Tetrachloroethane	10.158	131	23503	19.868	ug/l	97
66) Ethyl Benzene	10.189	91	128869	20.346	ug/l	94
67) m/p-Xylenes	10.299	106	95456	40.449	ug/l	97
68) o-Xylene	10.640	106	46776	20.202	ug/l	99
69) Styrene	10.652	104	75588	19.546	ug/l	95
70) Isopropylbenzene	10.957	105	122673	20.530	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.207	83	41766	21.256	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	34845m	21.561	ug/l	
73) Bromobenzene	11.195	156	26203	19.049	ug/l	91
74) n-propylbenzene	11.298	91	144108	20.266	ug/l	98
75) 2-Chlorotoluene	11.359	91	87403	20.332	ug/l	98
76) 1,3,5-Trimethylbenzene	11.451	105	101121	20.514	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	10179	18.721	ug/l	80
78) 4-Chlorotoluene	11.451	91	94815	19.786	ug/l	98
79) tert-butylbenzene	11.713	119	100381	20.210	ug/l	97
80) 1,2,4-Trimethylbenzene	11.750	105	97734	19.793	ug/l	99
81) sec-Butylbenzene	11.890	105	125693	20.164	ug/l	99
82) p-Isopropyltoluene	12.006	119	100832	19.964	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	49719	19.427	ug/l	98
84) 1,4-Dichlorobenzene	12.042	146	48044	19.039	ug/l	99
85) n-Butylbenzene	12.329	91	89565	19.419	ug/l	99
86) Hexachloroethane	12.536	117	16666	18.710	ug/l	98
87) 1,2-Dichlorobenzene	12.335	146	49194	19.590	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.938	75	8326	21.886	ug/l	88
89) 1,2,4-Trichlorobenzene	13.585	180	28116	18.473	ug/l	98
90) Hexachlorobutadiene	13.725	225	12380	19.946	ug/l	99
91) Naphthalene	13.774	128	103348	19.257	ug/l	99
92) 1,2,3-Trichlorobenzene	13.957	180	29175	18.620	ug/l	99

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

Sample Results: **VX045341.D**

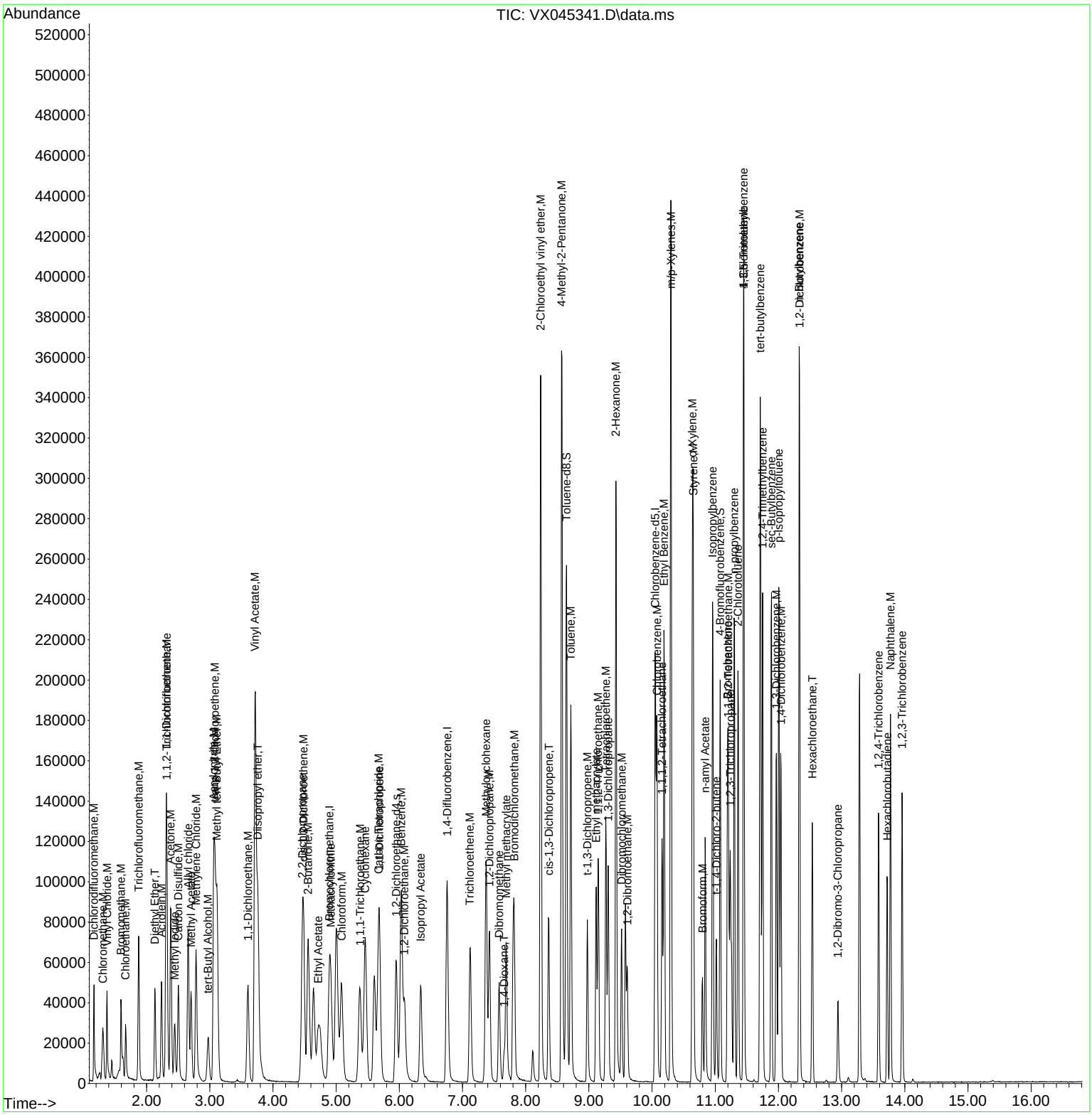
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX031925\
Data File : VX045341.D
Acq On : 19 Mar 2025 11:41
Operator : JC/MD
Sample : VX0319WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 3 Sample Multiplier: 1

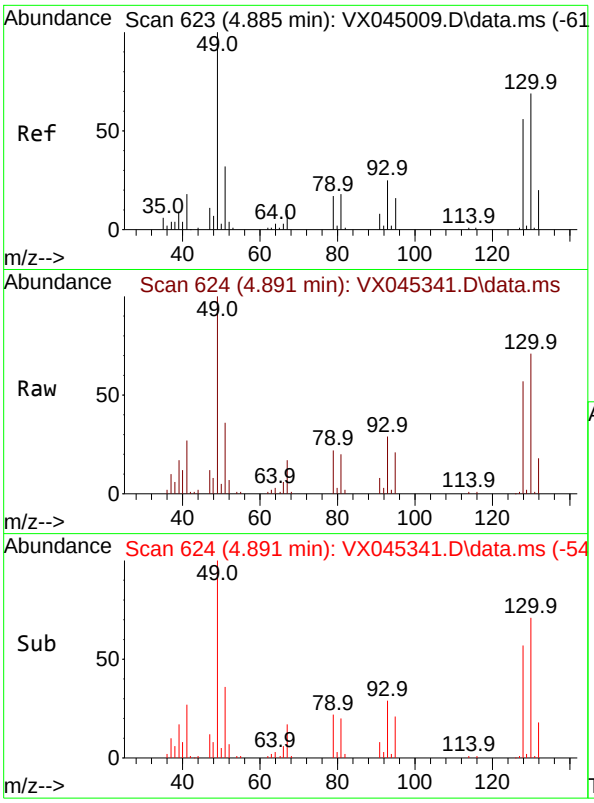
Quant Time: Mar 20 01:31:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X022125W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Feb 22 01:06:36 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0319WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 03/20/2025
Supervised By :Mahesh Dadoda 03/20/2025

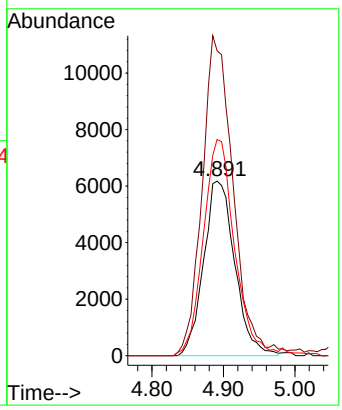




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.891 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion:128 Resp: 1871

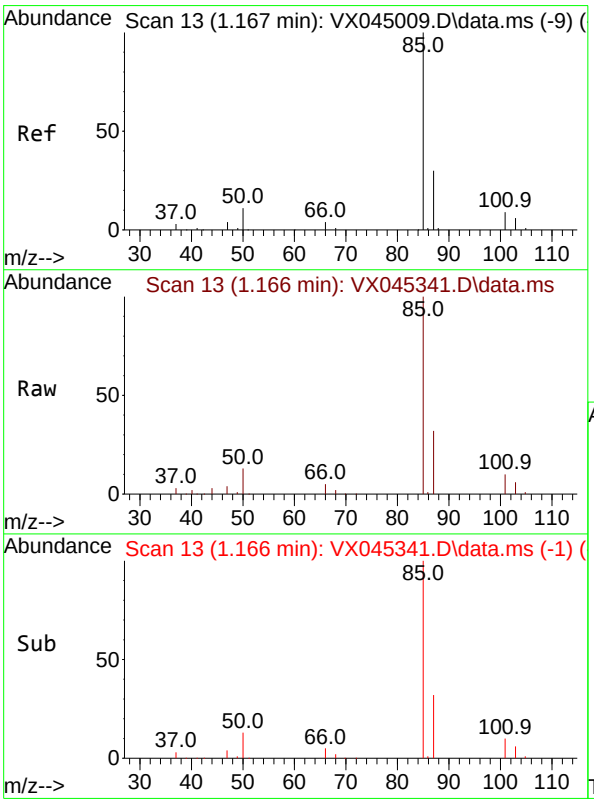
Ion	Ratio	Lower	Upper
128	100		
49	178.7	0.0	449.7
130	124.0	0.0	312.7



Instrument :
MSVOA_X
ClientSampleId :
VX0319WBS01

Manual Integrations
APPROVED

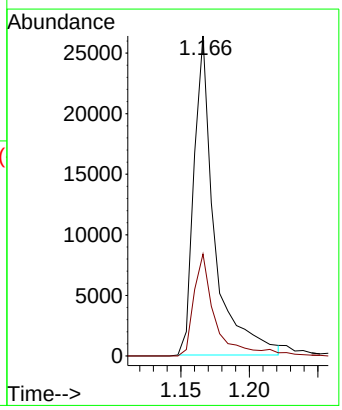
Reviewed By :John Carlone 03/20/2025
Supervised By :Mahesh Dadoda 03/20/2025

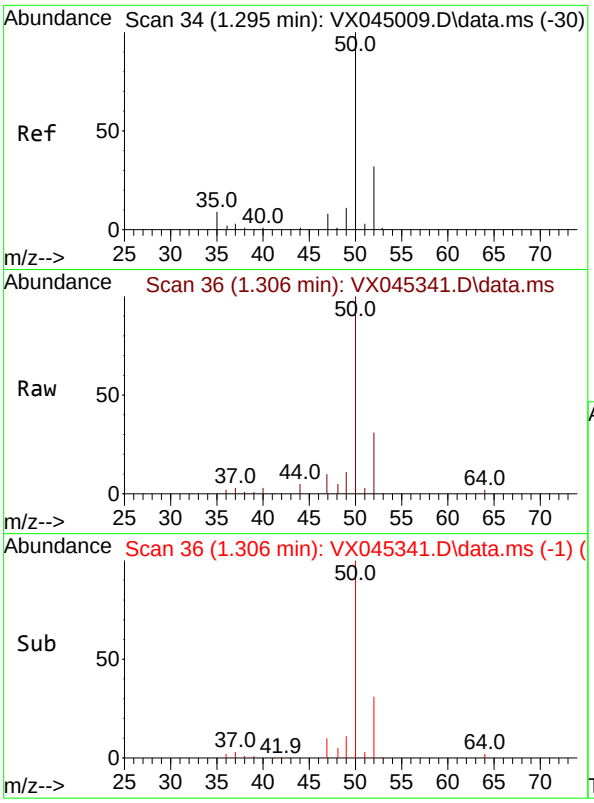


#2
Dichlorodifluoromethane
Concen: 17.463 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion: 85 Resp: 27543

Ion	Ratio	Lower	Upper
85	100		
87	32.0	15.1	45.3

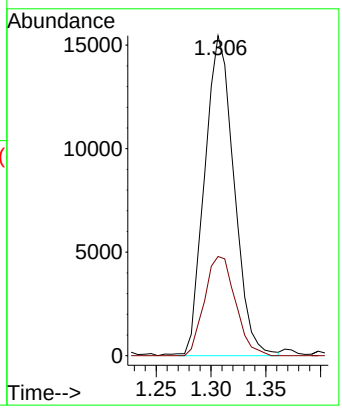




#3
Chloromethane
Concen: 15.238 ug/l
RT: 1.306 min Scan# 3
Delta R.T. 0.012 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion: 50 Resp: 2878

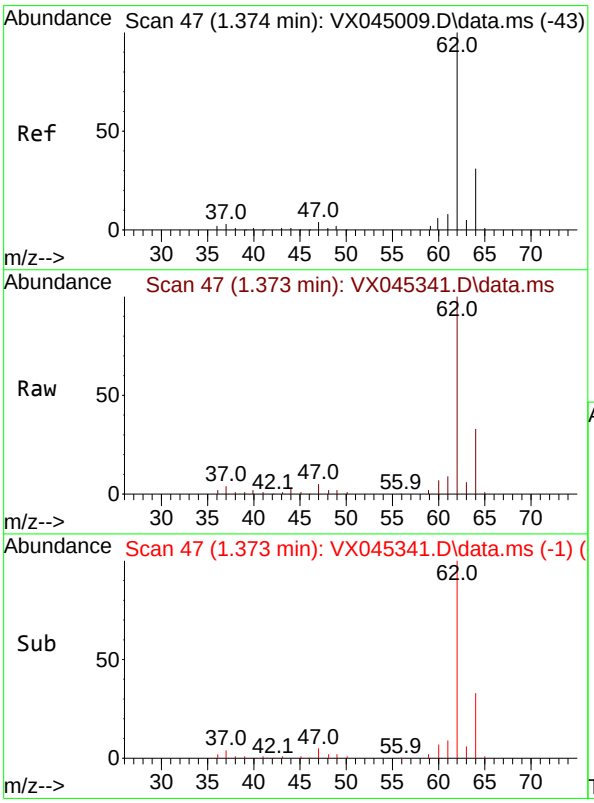
Ion	Ratio	Lower	Upper
50	100		
52	31.2	25.7	38.5



Instrument :
MSVOA_X
ClientSampleId :
VX0319WBS01

Manual Integrations
APPROVED

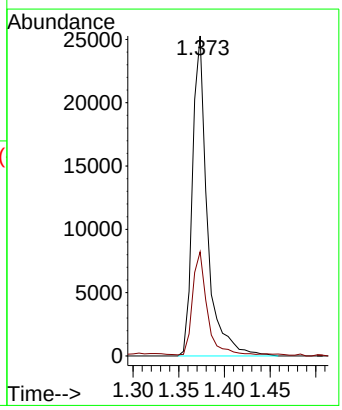
Reviewed By :John Carlone 03/20/2025
Supervised By :Mahesh Dadoda 03/20/2025

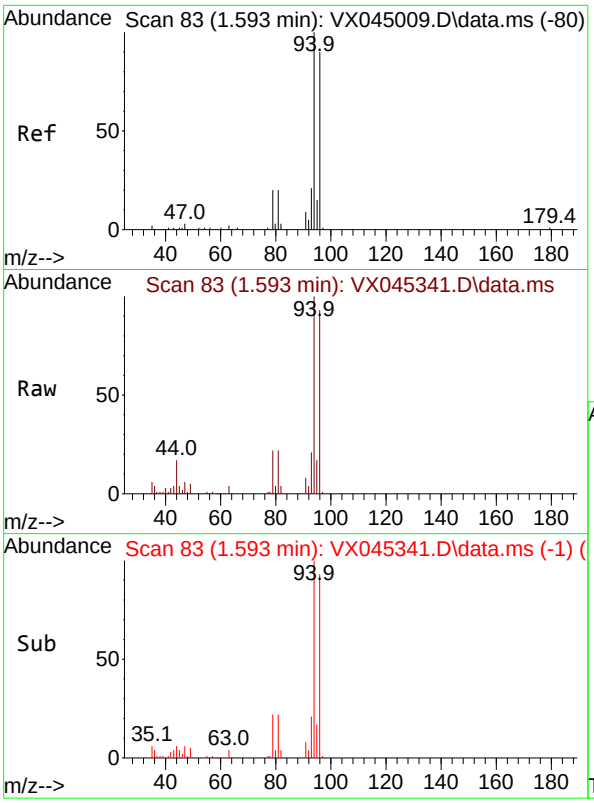


#4
Vinyl Chloride
Concen: 15.672 ug/l
RT: 1.373 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion: 62 Resp: 28568

Ion	Ratio	Lower	Upper
62	100		
64	32.2	25.1	37.7

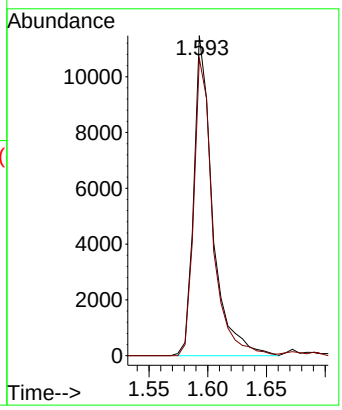




#5
Bromomethane
Concen: 20.147 ug/l
RT: 1.593 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion: 94 Resp: 1278

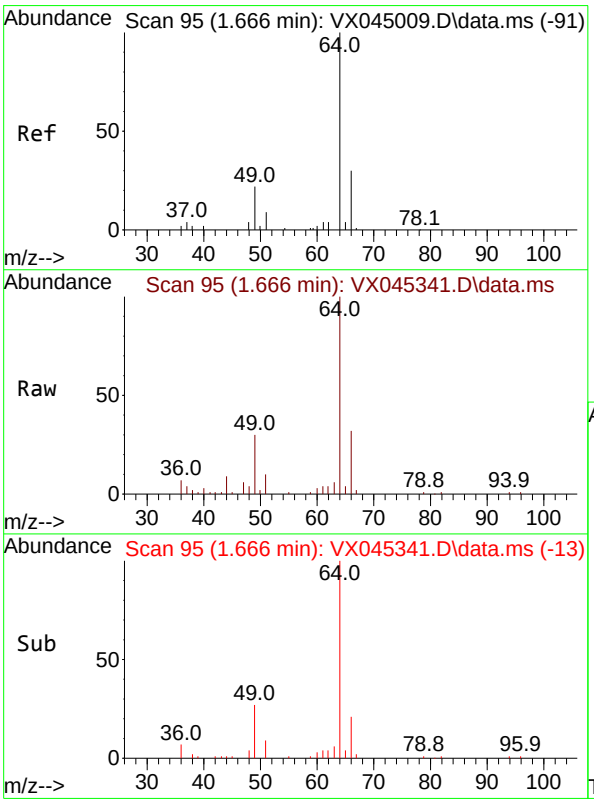
Ion	Ratio	Lower	Upper
94	100		
96	92.9	72.2	108.4



Instrument :
MSVOA_X
ClientSampleId :
VX0319WBS01

Manual Integrations
APPROVED

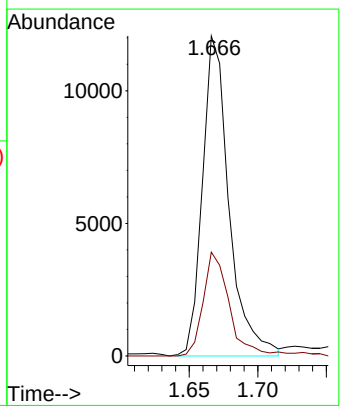
Reviewed By :John Carlone 03/20/2025
Supervised By :Mahesh Dadoda 03/20/2025

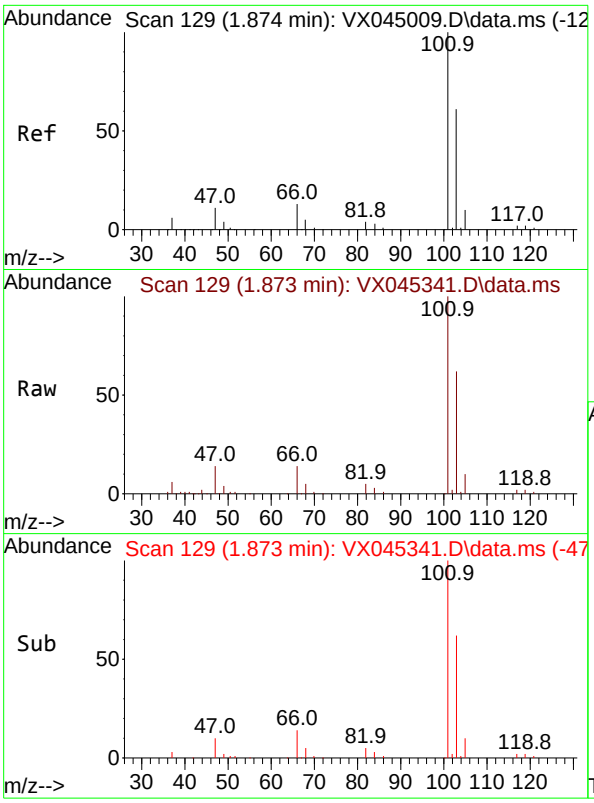


#6
Chloroethane
Concen: 16.511 ug/l
RT: 1.666 min Scan# 95
Delta R.T. -0.000 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion: 64 Resp: 16301

Ion	Ratio	Lower	Upper
64	100		
66	32.6	23.7	35.5

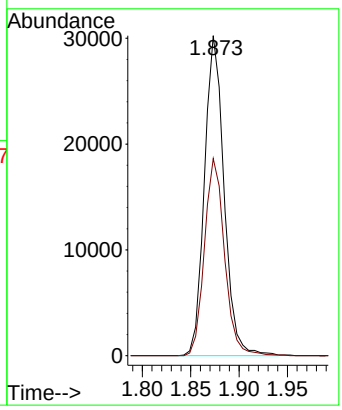




#7
Trichlorofluoromethane
Concen: 17.458 ug/l
RT: 1.873 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion:101 Resp: 4277

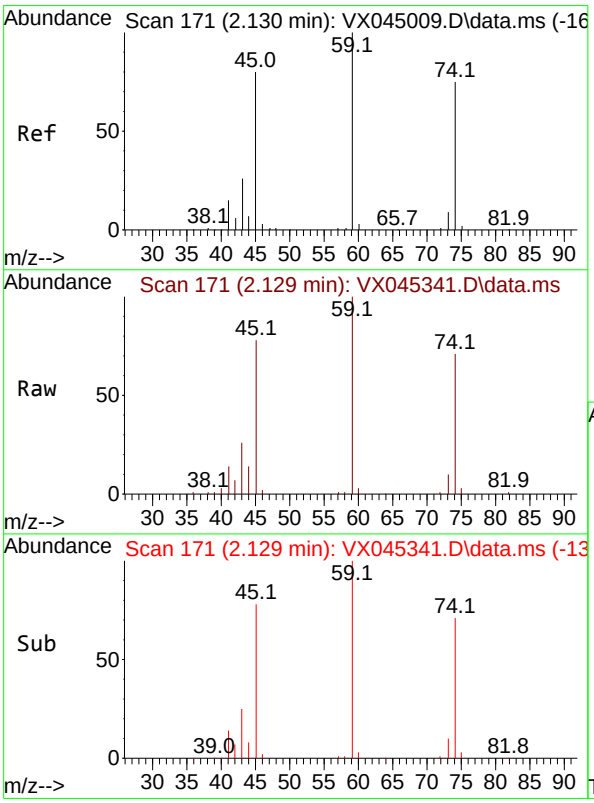
Ion	Ratio	Lower	Upper
101	100		
103	61.6	48.8	73.2



Instrument :
MSVOA_X
ClientSampleId :
VX0319WBS01

Manual Integrations
APPROVED

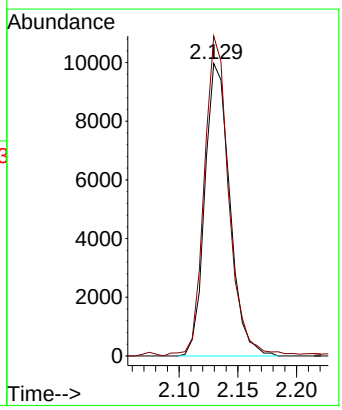
Reviewed By :John Carlone 03/20/2025
Supervised By :Mahesh Dadoda 03/20/2025

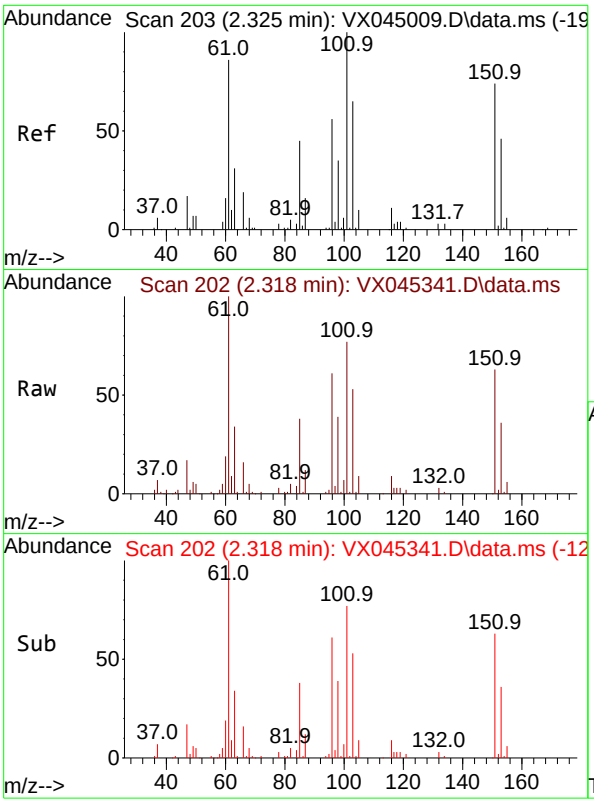


#8
Diethyl Ether
Concen: 15.903 ug/l
RT: 2.129 min Scan# 171
Delta R.T. -0.000 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion: 74 Resp: 14742

Ion	Ratio	Lower	Upper
74	100		
45	105.7	20.8	186.8





#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.199 ug/l
RT: 2.318 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion:101 Resp: 2793

Ion	Ratio	Lower	Upper
101	100		
85	47.3	0.0	90.6
151	73.5	0.0	147.6

Instrument :
MSVOA_X
ClientSampleId :
VX0319WBS01

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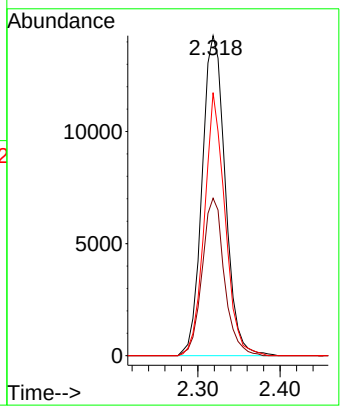
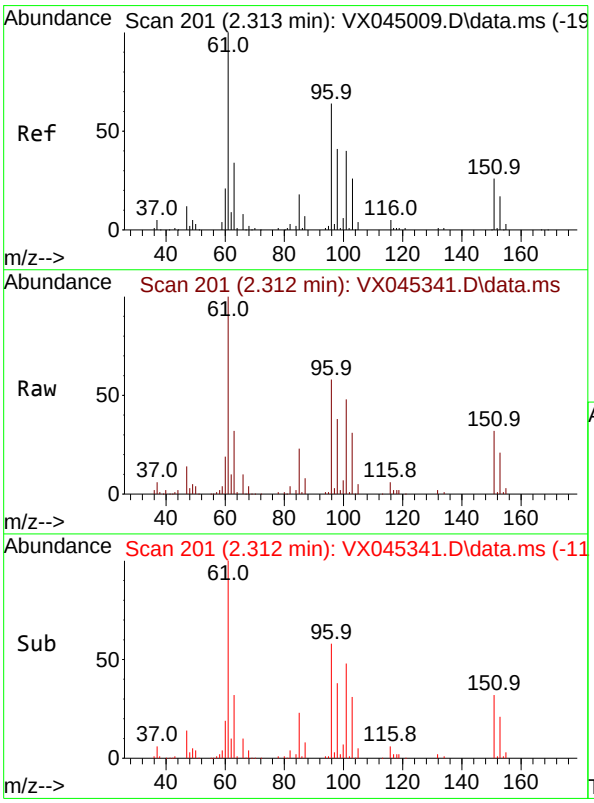
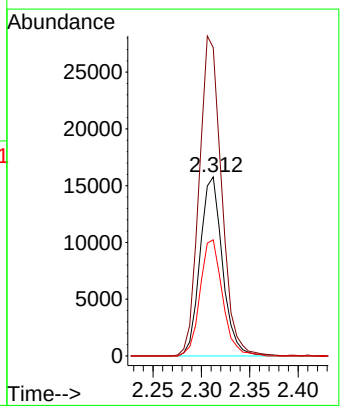


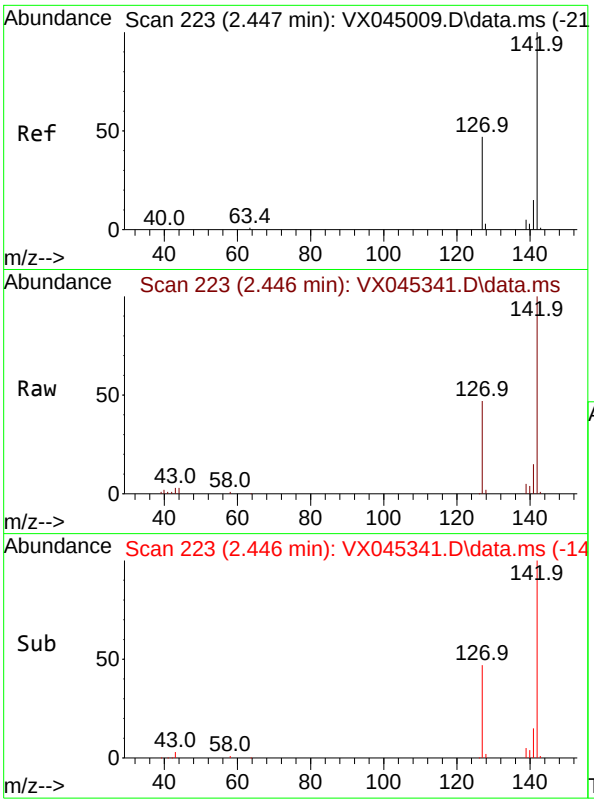


#10
1,1-Dichloroethene
Concen: 17.911 ug/l
RT: 2.312 min Scan# 201
Delta R.T. -0.000 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion: 96 Resp: 25457

Ion	Ratio	Lower	Upper
96	100		
61	171.8	124.2	186.2
98	64.9	51.1	76.7

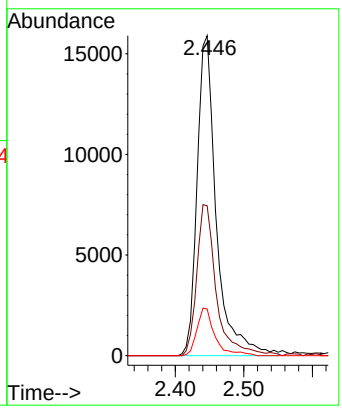




#11
Methyl Iodide
Concen: 19.309 ug/l
RT: 2.446 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion:142 Resp: 3106

Ion	Ratio	Lower	Upper
142	100		
127	46.8	23.3	69.9
141	14.7	7.5	22.6



Instrument :
MSVOA_X
ClientSampleId :
VX0319WBS01

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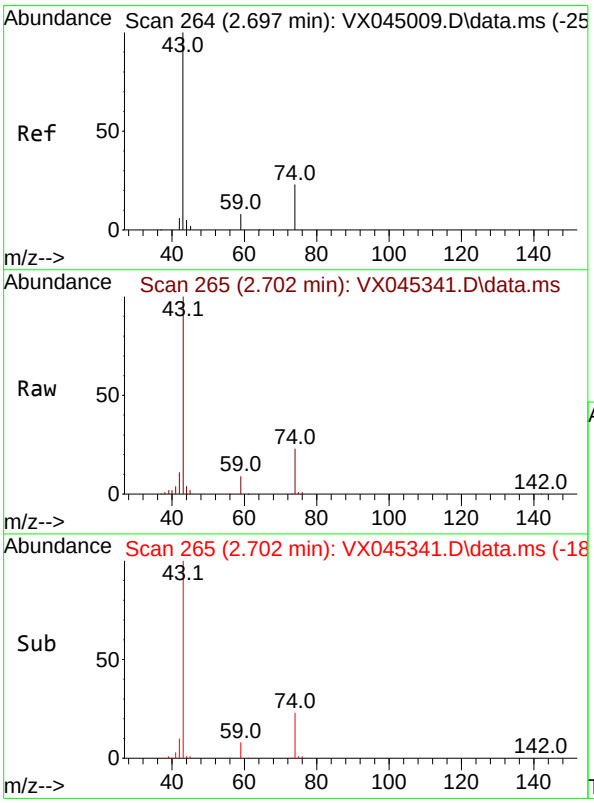
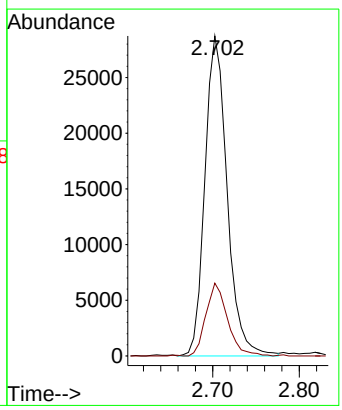
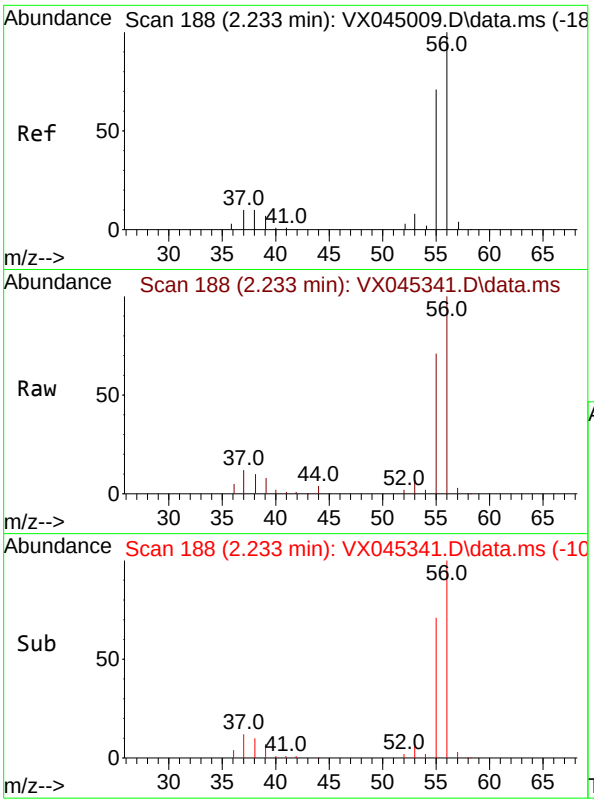


#12
Methyl Acetate
Concen: 31.051 ug/l
RT: 2.702 min Scan# 265
Delta R.T. 0.006 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion: 43 Resp: 51249

Ion	Ratio	Lower	Upper
43	100		
74	22.6	17.9	26.9

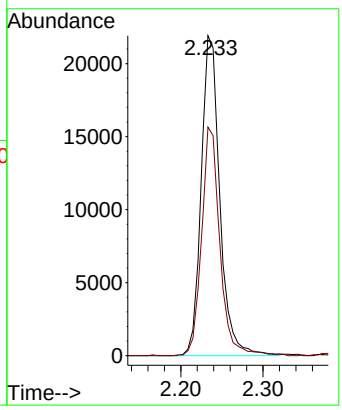




#13
Acrolein
Concen: 104.128 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion: 56 Resp: 3444

Ion	Ratio	Lower	Upper
56	100		
55	70.0	55.4	83.2



Instrument :
MSVOA_X
ClientSampleId :
VX0319WBS01

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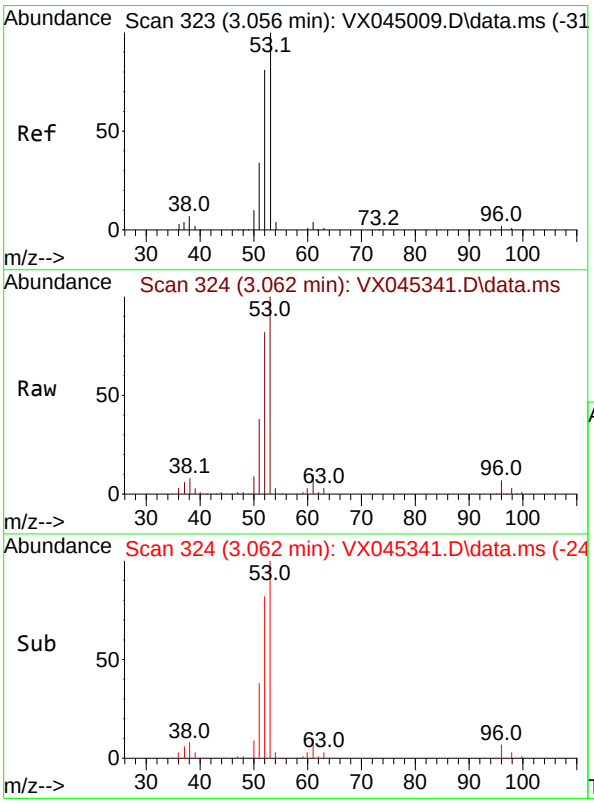
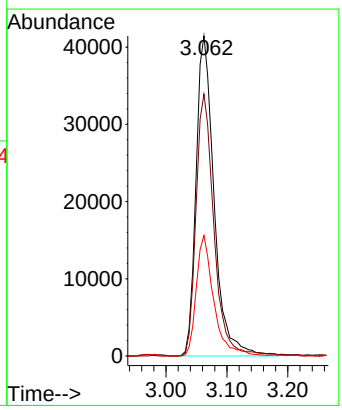
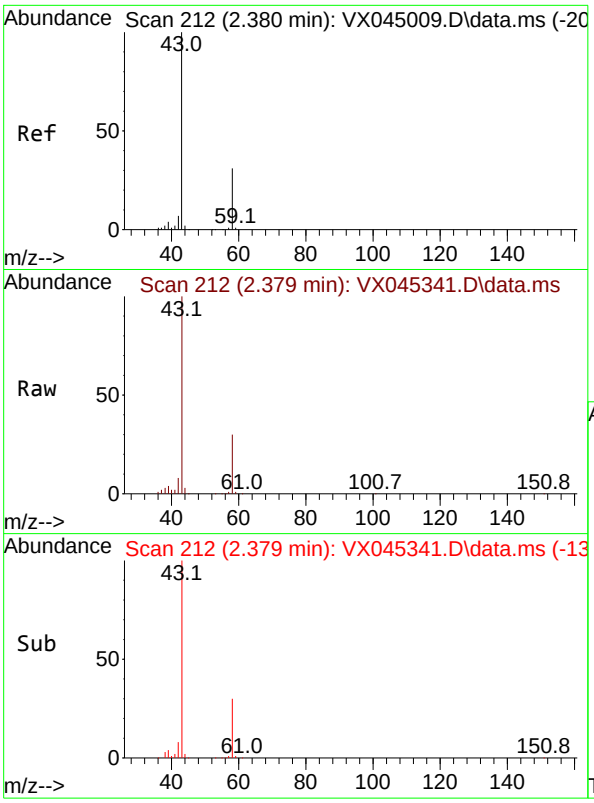


#14
Acrylonitrile
Concen: 106.065 ug/l
RT: 3.062 min Scan# 324
Delta R.T. 0.006 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion: 53 Resp: 85508

Ion	Ratio	Lower	Upper
53	100		
52	80.7	40.9	122.8
51	36.4	18.0	54.0





#15
Acetone
Concen: 123.020 ug/l
RT: 2.379 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion: 58 Resp: 2720

Ion	Ratio	Lower	Upper
58	100		
43	336.7	258.6	388.0

Instrument :
MSVOA_X
ClientSampleId :
VX0319WBS01

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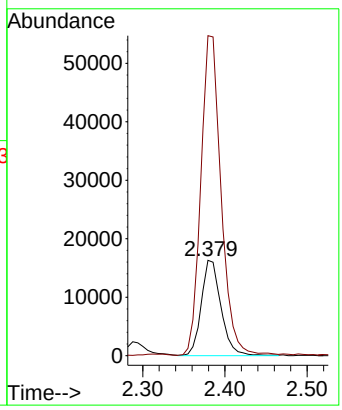
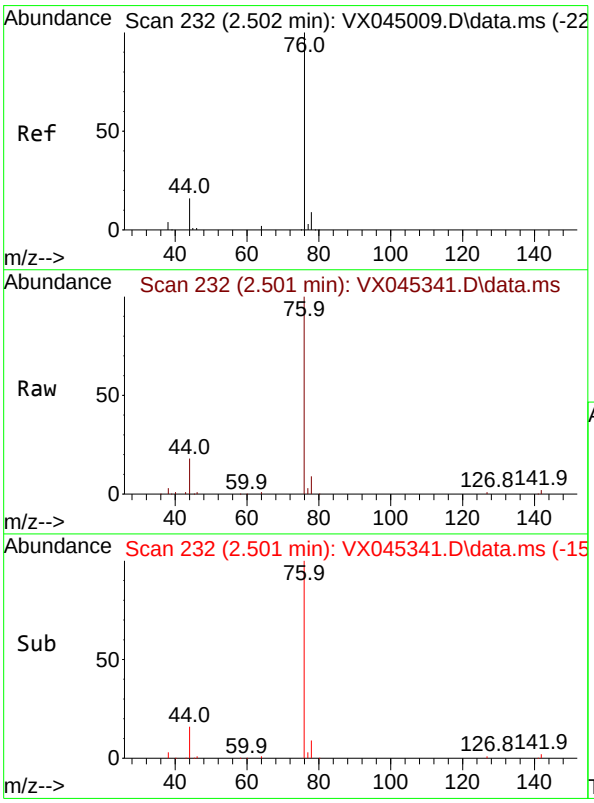
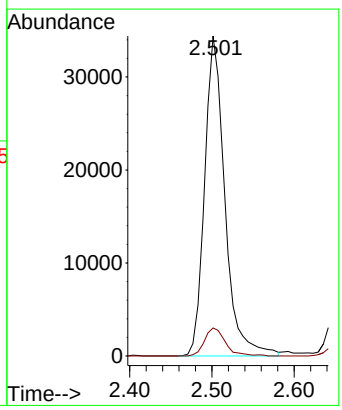


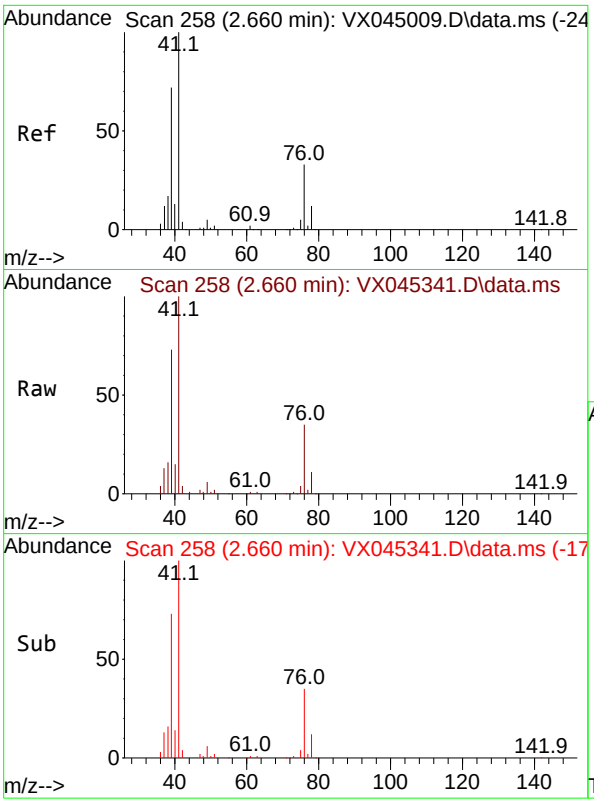


#16
Carbon Disulfide
Concen: 14.646 ug/l
RT: 2.501 min Scan# 232
Delta R.T. -0.000 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion: 76 Resp: 59047

Ion	Ratio	Lower	Upper
76	100		
78	8.8	7.3	10.9

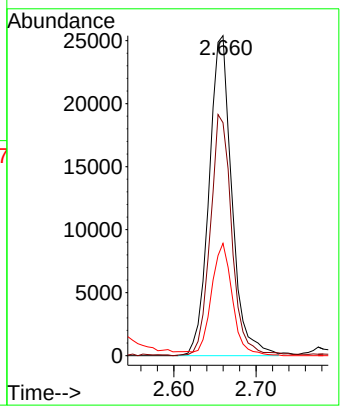




#17
Allyl chloride
Concen: 18.424 ug/l
RT: 2.660 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion: 41 Resp: 4897

Ion	Ratio	Lower	Upper
41	100		
39	72.6	36.2	108.6
76	34.8	17.2	51.5



Instrument :
MSVOA_X
ClientSampleId :
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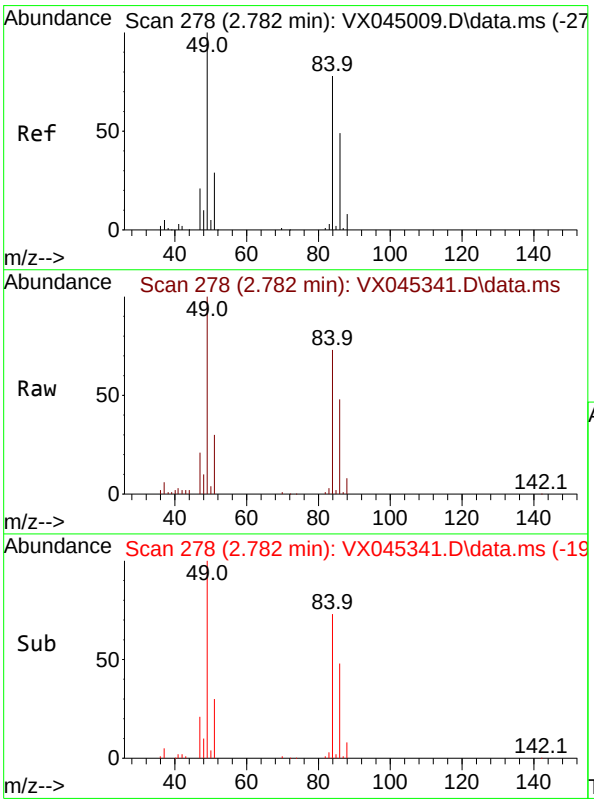
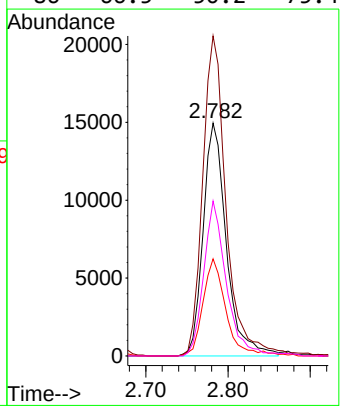
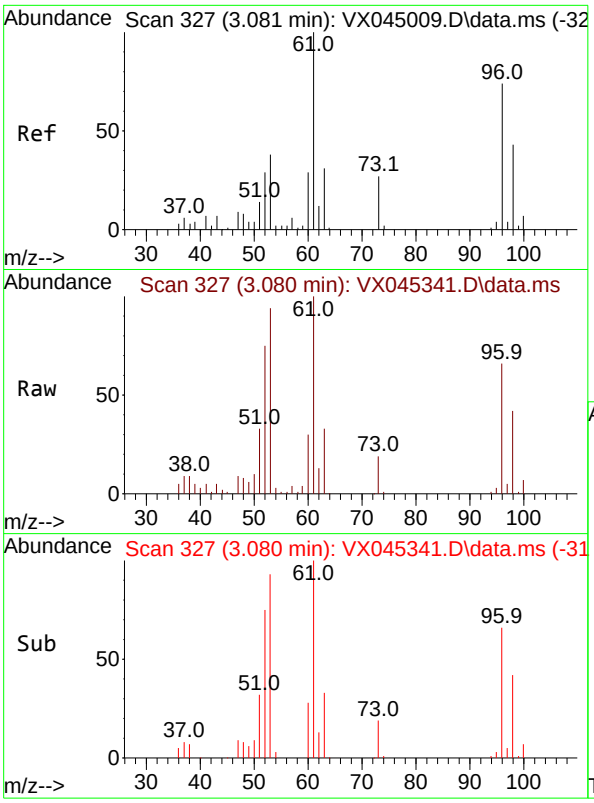


#18
Methylene Chloride
Concen: 18.355 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion: 84 Resp: 29343

Ion	Ratio	Lower	Upper
84	100		
49	137.4	102.8	154.2
51	41.7	30.1	45.1
86	66.5	50.2	75.4

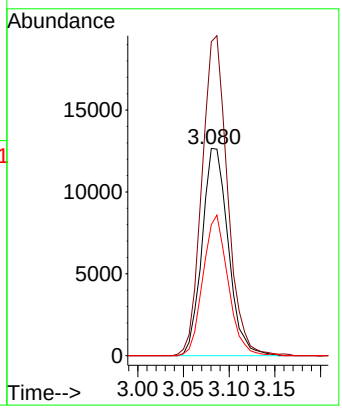




#19
trans-1,2-Dichloroethene
Concen: 17.507 ug/l
RT: 3.080 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion: 96 Resp: 2517

Ion	Ratio	Lower	Upper
96	100		
61	150.9	108.6	163.0
98	63.3	46.5	69.7



Instrument :
MSVOA_X
ClientSampleId :
VX0319WBS01

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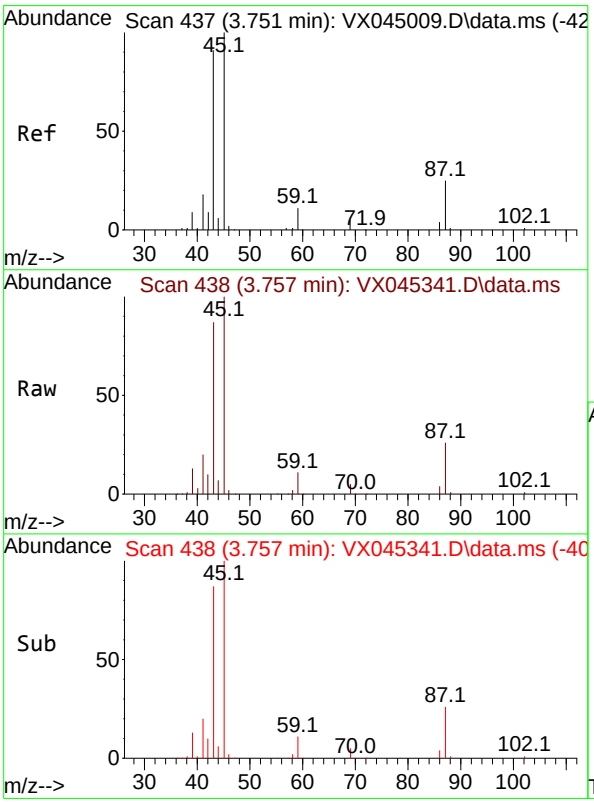
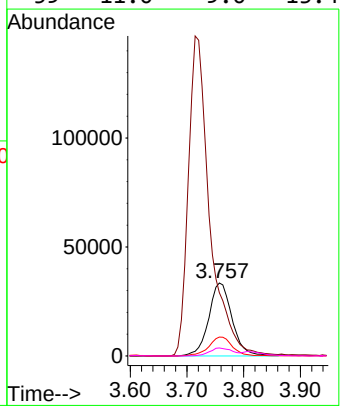
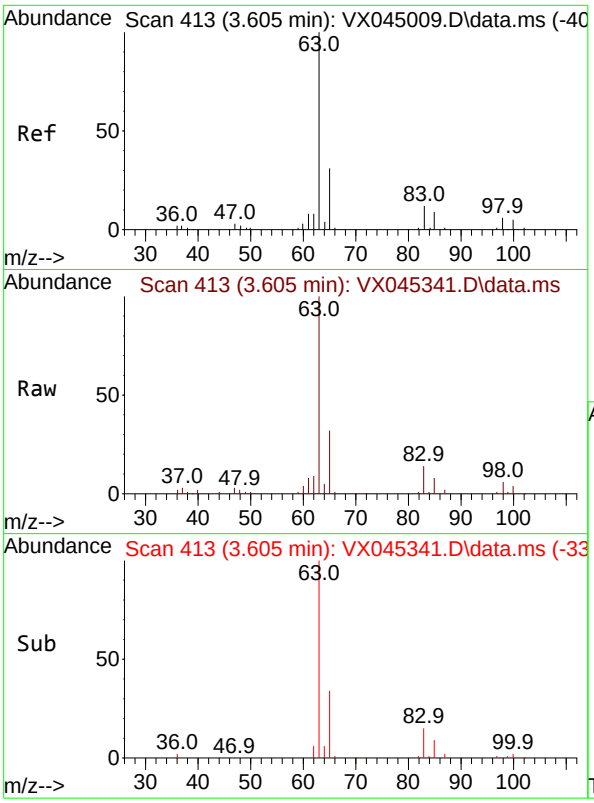


#20
Diisopropyl ether
Concen: 18.769 ug/l
RT: 3.757 min Scan# 438
Delta R.T. 0.006 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion: 45 Resp: 95879

Ion	Ratio	Lower	Upper
45	100		
43	85.1	74.4	111.6
87	25.8	19.8	29.8
59	11.0	9.0	13.4

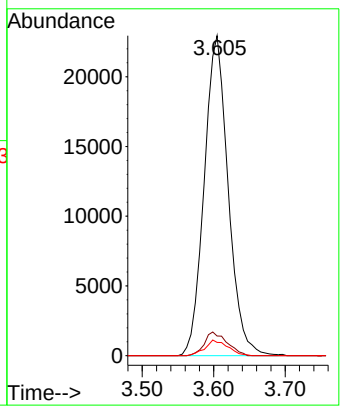




#21
1,1-Dichloroethane
Concen: 18.840 ug/l
RT: 3.605 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion: 63 Resp: 5352

Ion	Ratio	Lower	Upper
63	100		
98	6.2	3.3	9.8
100	4.2	2.4	7.1



Instrument :
MSVOA_X
ClientSampleId :
VX0319WBS01

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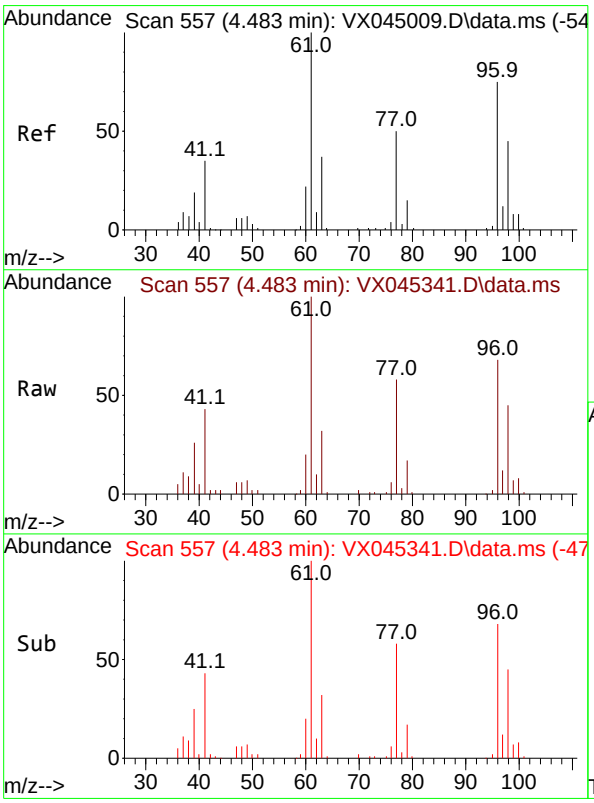
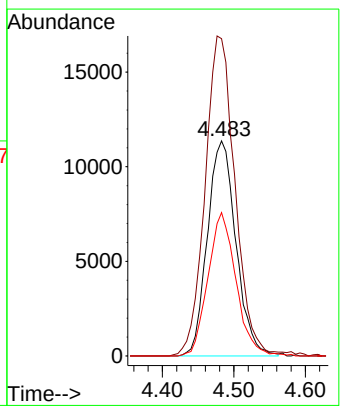
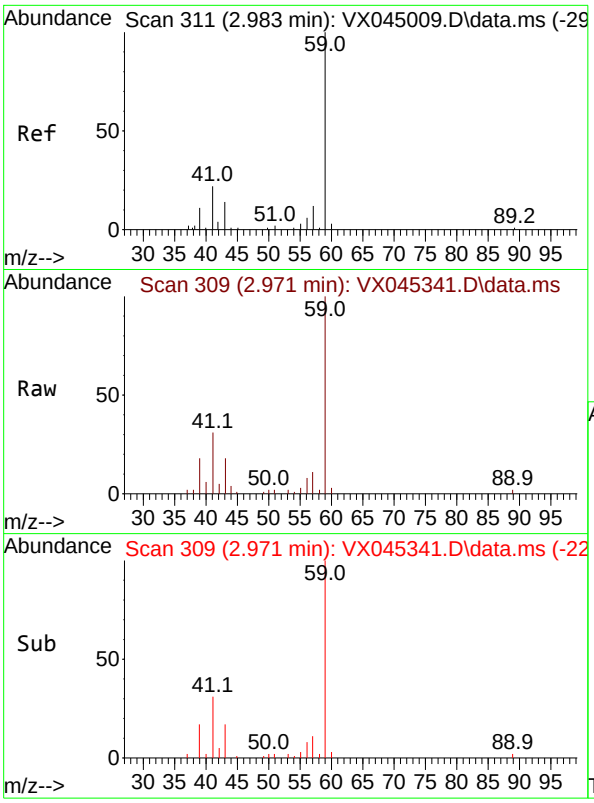


#22
cis-1,2-Dichloroethene
Concen: 18.305 ug/l
RT: 4.483 min Scan# 557
Delta R.T. -0.000 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion: 96 Resp: 31543

Ion	Ratio	Lower	Upper
96	100		
61	154.9	118.9	178.3
98	64.9	50.7	76.1





#23
tert-Butyl Alcohol
Concen: 87.702 ug/l
RT: 2.971 min Scan# 3
Delta R.T. -0.013 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion: 59 Resp: 2468

Ion	Ratio	Lower	Upper
59	100		
52	0.2	0.0	0.0

Instrument :
MSVOA_X
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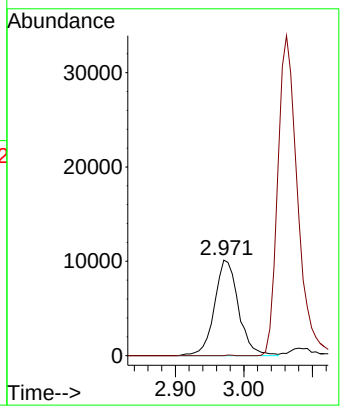
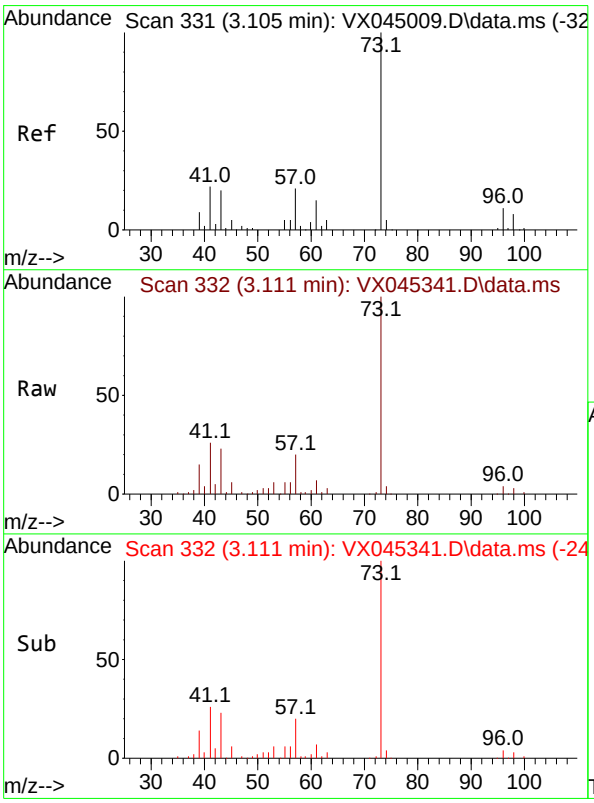
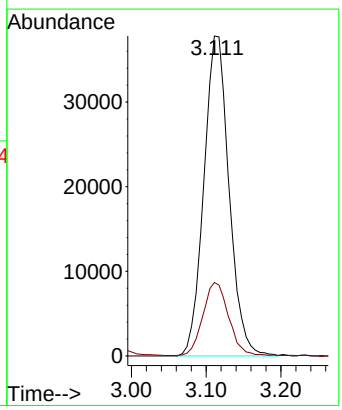


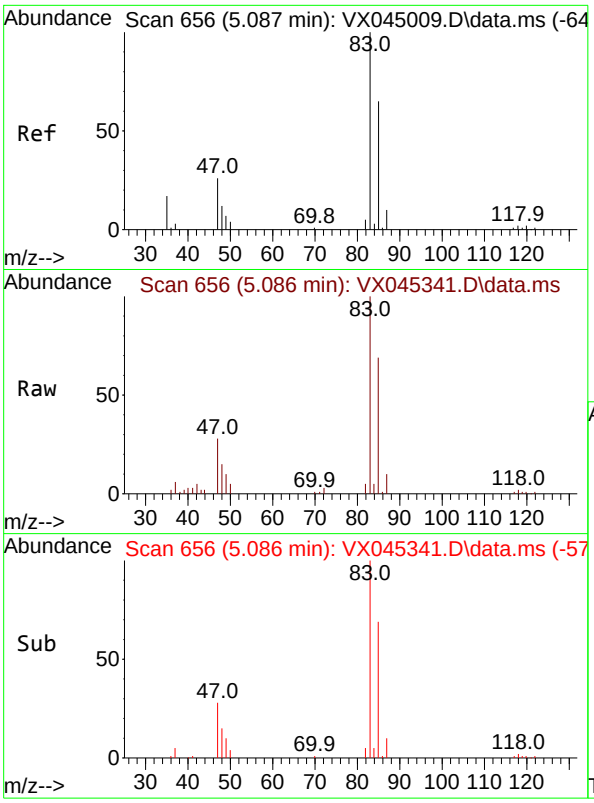


#24
Methyl tert-Butyl Ether
Concen: 19.104 ug/l
RT: 3.111 min Scan# 332
Delta R.T. 0.006 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion: 73 Resp: 88622

Ion	Ratio	Lower	Upper
73	100		
43	23.7	17.4	26.0

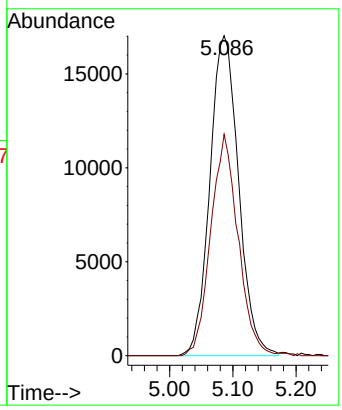




#25
Chloroform
Concen: 19.609 ug/l
RT: 5.086 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion: 83 Resp: 5380

Ion	Ratio	Lower	Upper
83	100		
85	69.1	51.7	77.5



Instrument :
MSVOA_X
ClientSampleId :
VX0319WBS01

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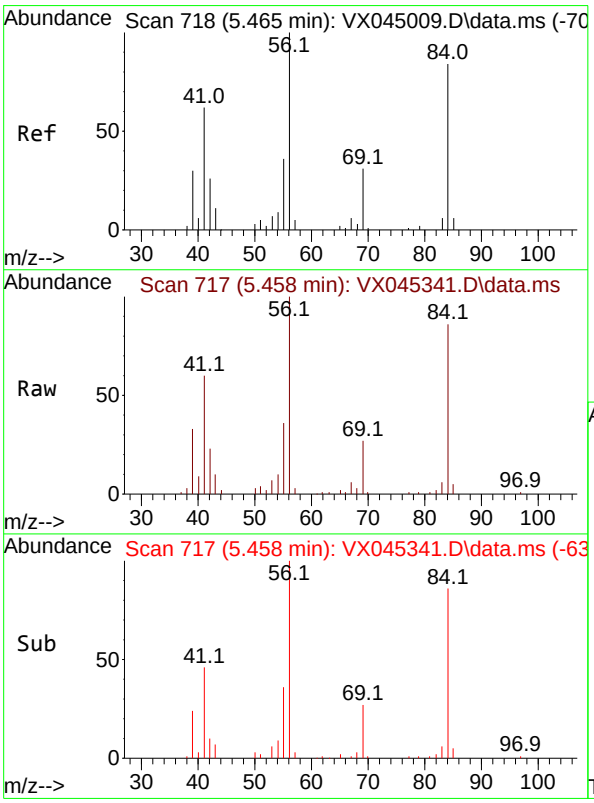
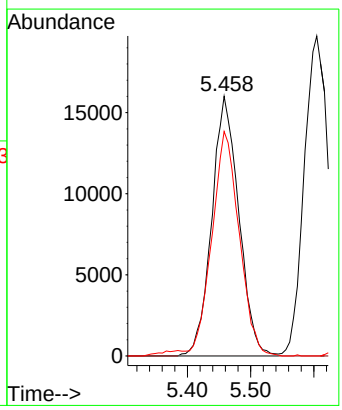
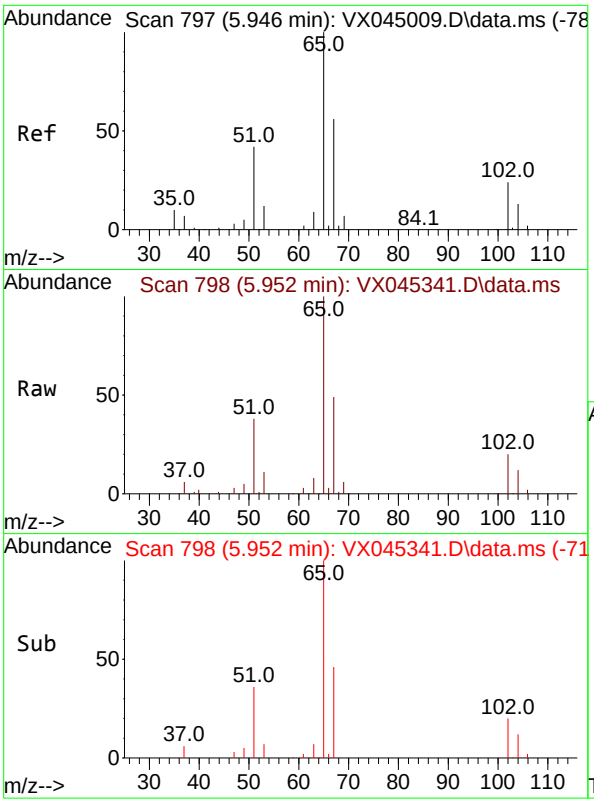


#26
Cyclohexane
Concen: 18.105 ug/l
RT: 5.458 min Scan# 717
Delta R.T. -0.006 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion: 56 Resp: 47478

Ion	Ratio	Lower	Upper
56	100		
89	0.0	0.0	0.0
84	87.3	67.1	100.7





#27
1,2-Dichloroethane-d4
Concen: 31.965 ug/l
RT: 5.952 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion: 65 Resp: 5808

Ion	Ratio	Lower	Upper
65	100		
67	51.9	42.6	64.0

Instrument :
MSVOA_X
ClientSampleId :
VX0319WBS01

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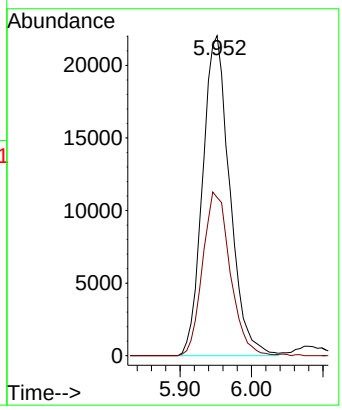
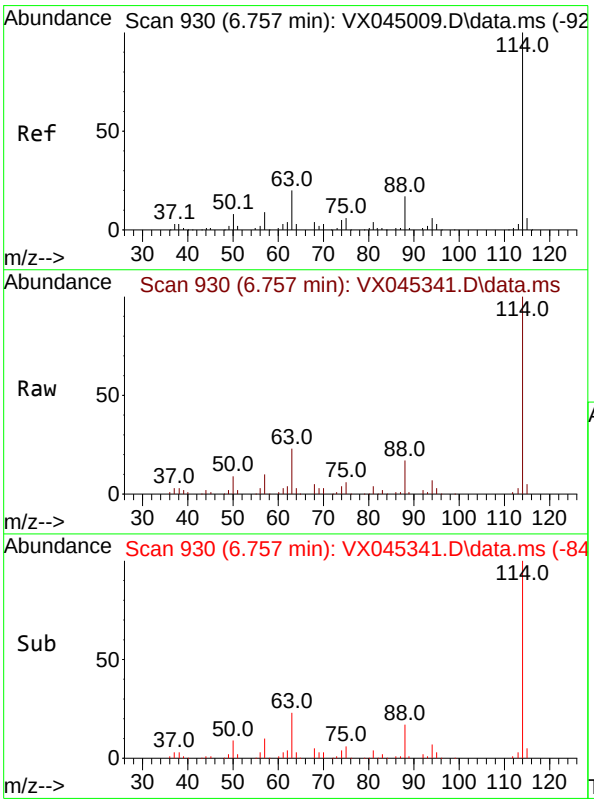
Reviewed By :John Carlone 03/20/2025
Supervised By :Mahesh Dadoda 03/20/2025

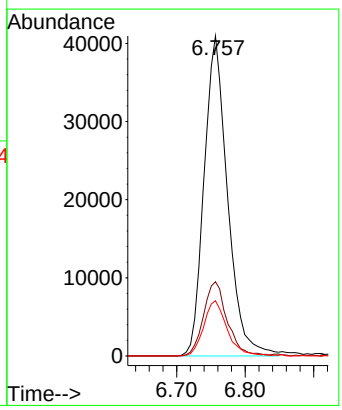


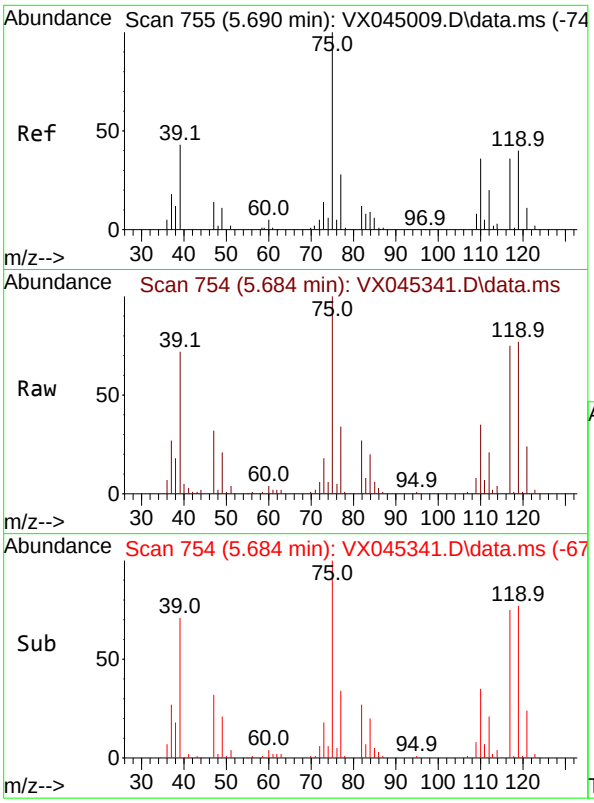


#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion:114 Resp: 97348

Ion	Ratio	Lower	Upper
114	100		
63	23.1	16.8	25.2
88	17.1	12.7	19.1





#29
1,1-Dichloropropene
Concen: 19.829 ug/l
RT: 5.684 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion: 75 Resp: 3550

Ion	Ratio	Lower	Upper
75	100		
110	33.4	0.0	69.2
77	30.8	0.0	61.0

Instrument :
MSVOA_X
ClientSampleId :
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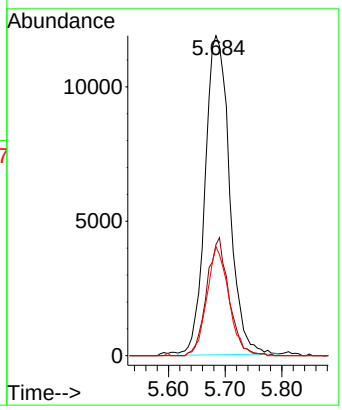
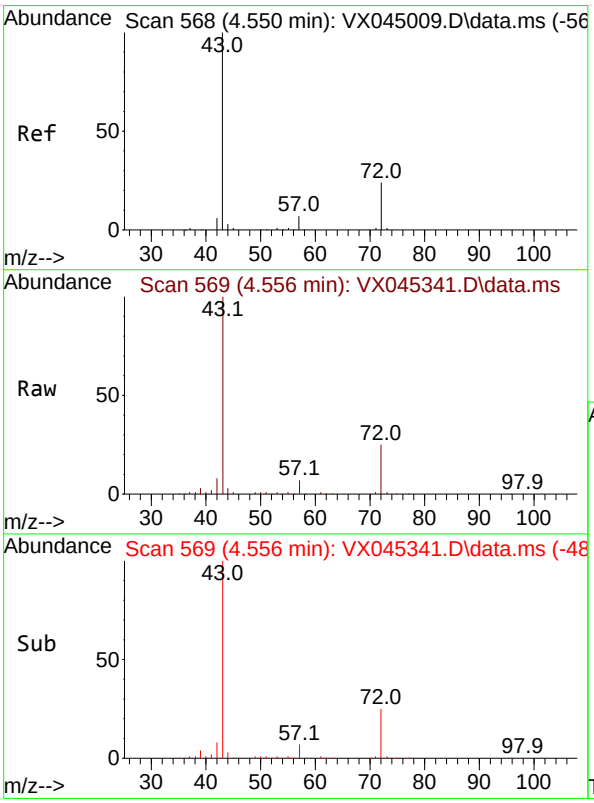
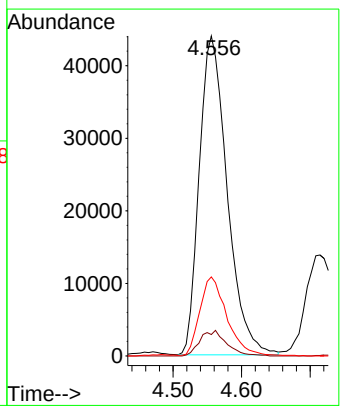


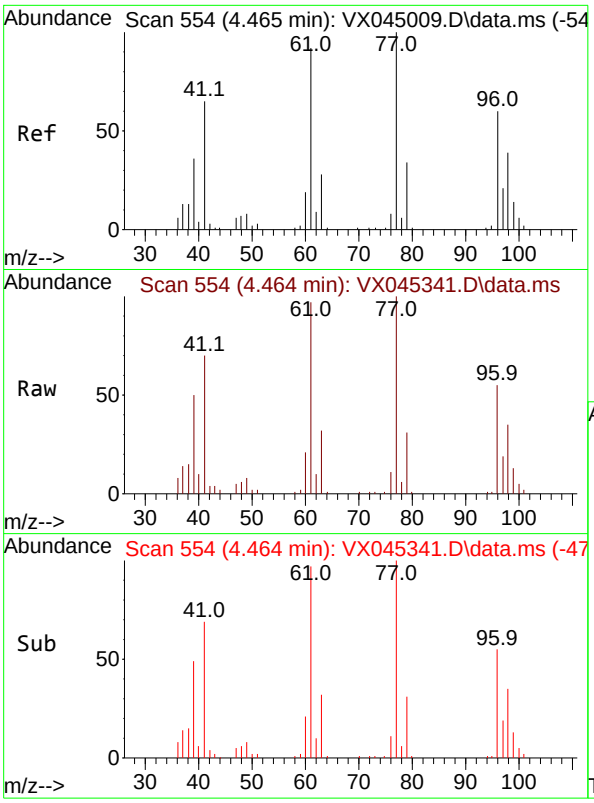


#30
2-Butanone
Concen: 120.592 ug/l
RT: 4.556 min Scan# 569
Delta R.T. 0.006 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion: 43 Resp: 124731

Ion	Ratio	Lower	Upper
43	100		
57	3.7	6.2	9.2#
72	24.1	20.2	30.2

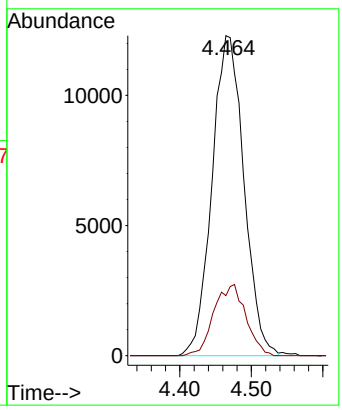




#31
2,2-Dichloropropane
Concen: 18.821 ug/l
RT: 4.464 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion: 77 Resp: 3810

Ion	Ratio	Lower	Upper
77	100		
97	22.3	18.0	27.0



Instrument :
MSVOA_X
ClientSampleId :
VX0319WBS01

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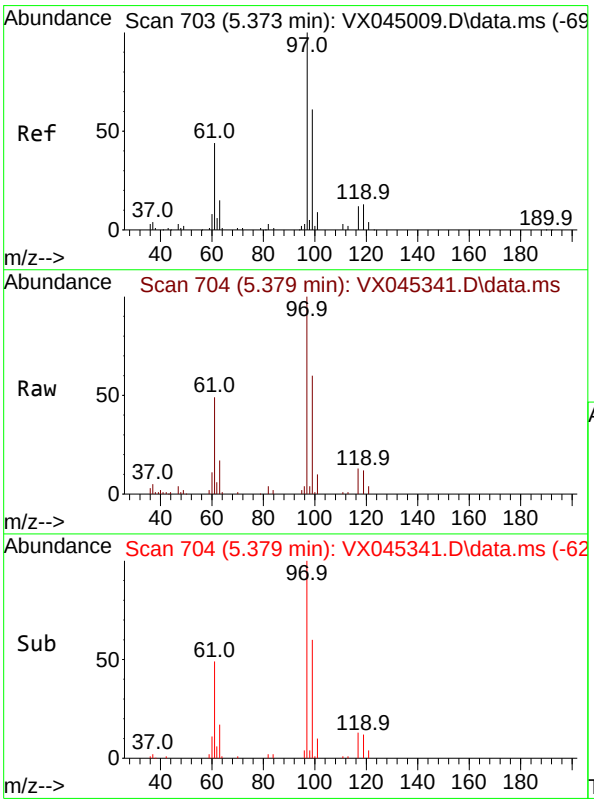
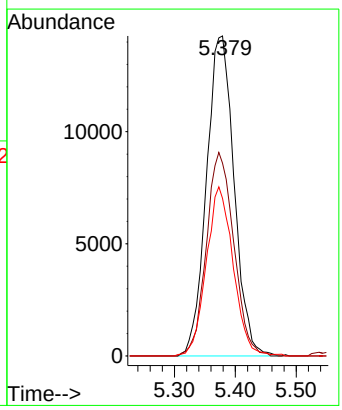
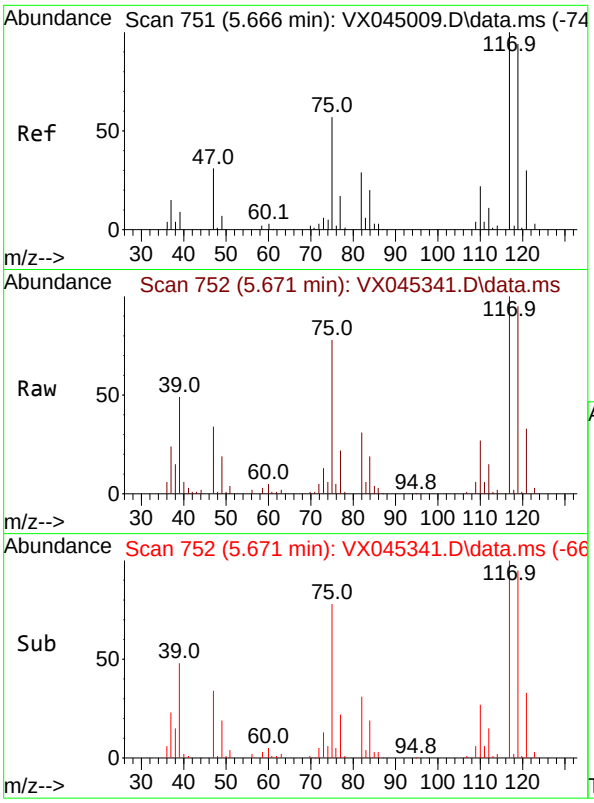


#32
1,1,1-Trichloroethane
Concen: 20.753 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.006 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion: 97 Resp: 45029

Ion	Ratio	Lower	Upper
97	100		
99	63.0	52.2	78.2
61	51.4	38.5	57.7

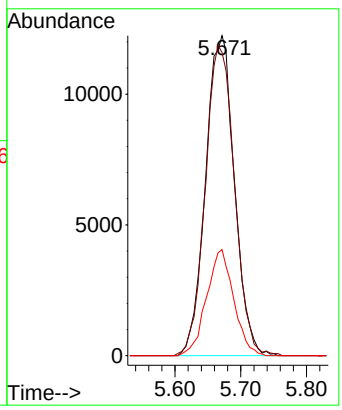




#33
Carbon Tetrachloride
Concen: 20.397 ug/l
RT: 5.671 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion:117 Resp: 3735

Ion	Ratio	Lower	Upper
117	100		
119	94.1	75.1	112.7
121	33.1	23.9	35.9



Instrument :
MSVOA_X
ClientSampleId :
VX0319WBS01

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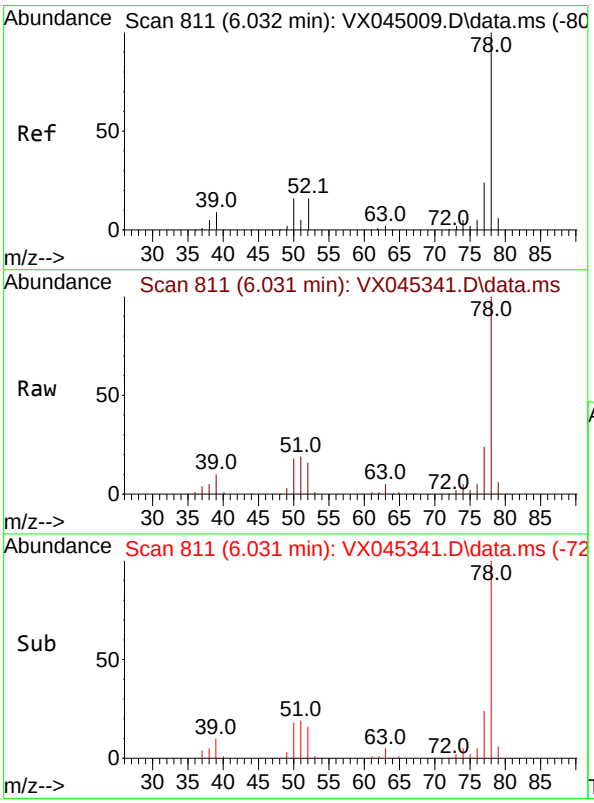
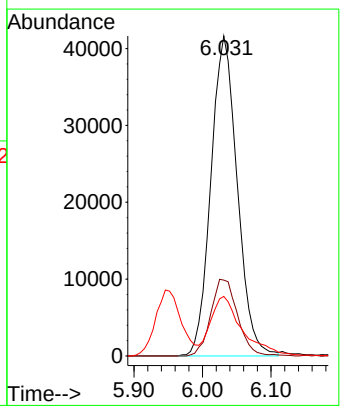
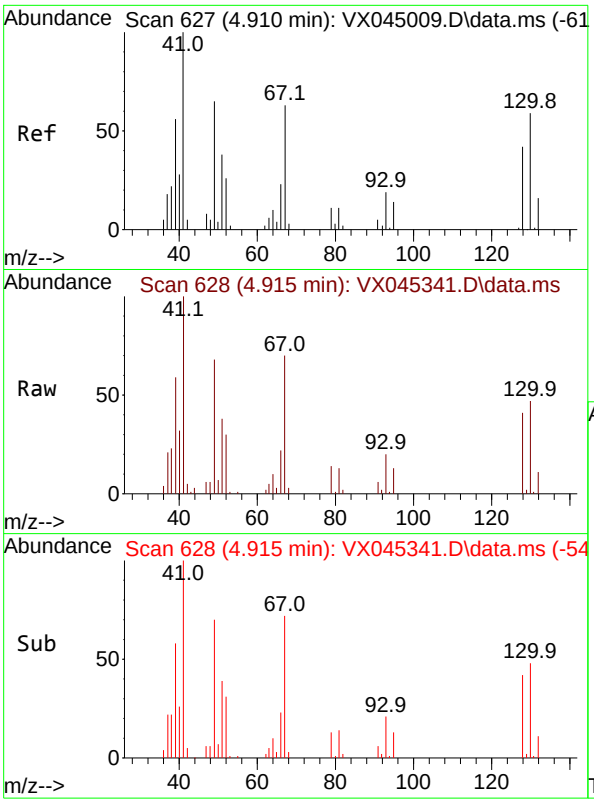


#34
Benzene
Concen: 19.815 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion: 78 Resp: 111274

Ion	Ratio	Lower	Upper
78	100		
77	23.7	19.6	29.4
51	17.4	13.8	20.6

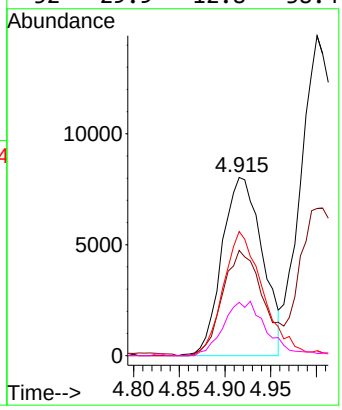




#35
Methacrylonitrile
Concen: 22.314 ug/l
RT: 4.915 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion: 41 Resp: 2469

Ion	Ratio	Lower	Upper
41	100		
39	59.0	27.8	83.4
67	69.6	31.5	94.5
52	29.9	12.8	38.4



Instrument :
MSVOA_X
ClientSampleId :
VX0319WBS01

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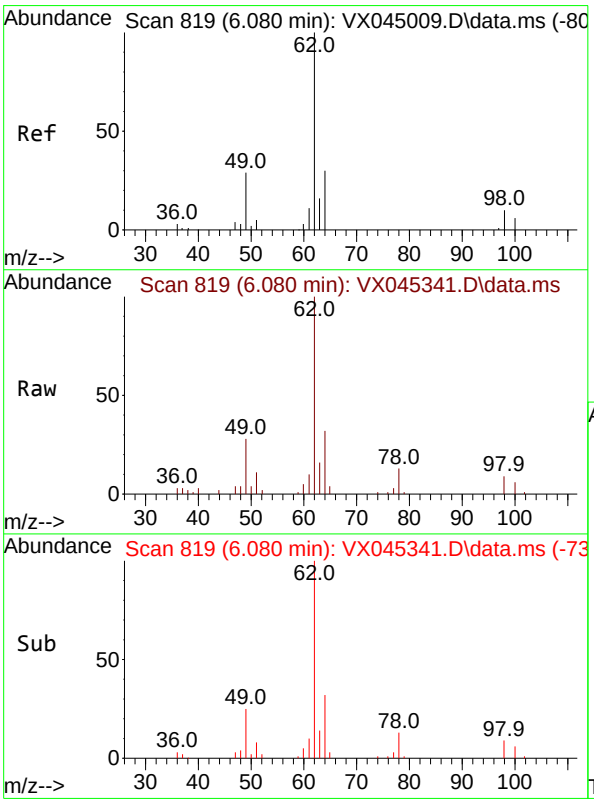
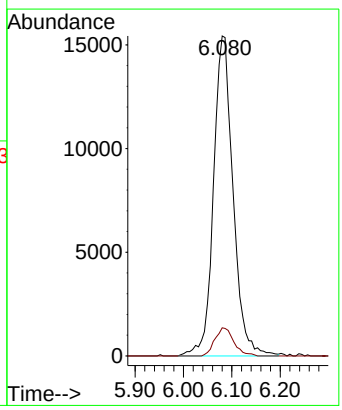
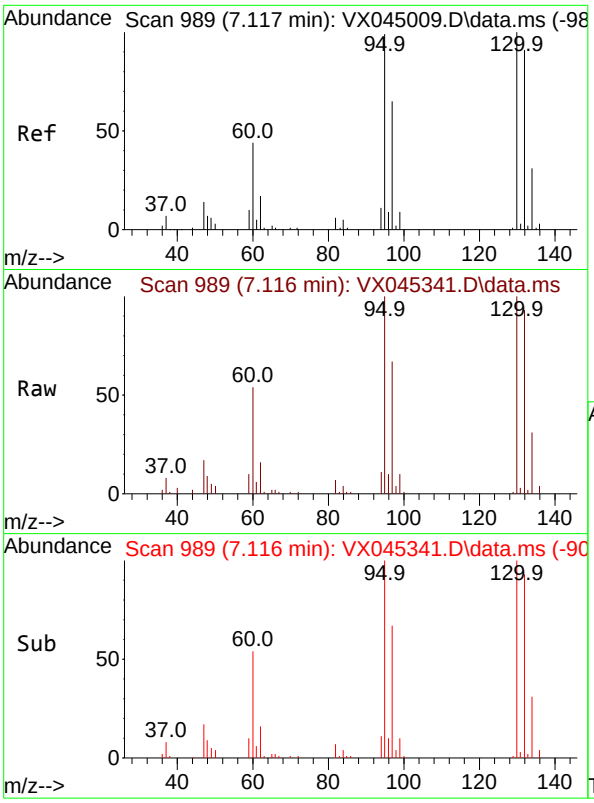


#36
1,2-Dichloroethane
Concen: 22.525 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.000 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion: 62 Resp: 43307

Ion	Ratio	Lower	Upper
62	100		
98	8.6	7.9	11.9





#37
Trichloroethene
Concen: 19.308 ug/l
RT: 7.116 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion:130 Resp: 2536

Ion	Ratio	Lower	Upper
130	100		
95	99.8	79.0	118.4

Instrument :
MSVOA_X
ClientSampleId :
VX0319WBS01

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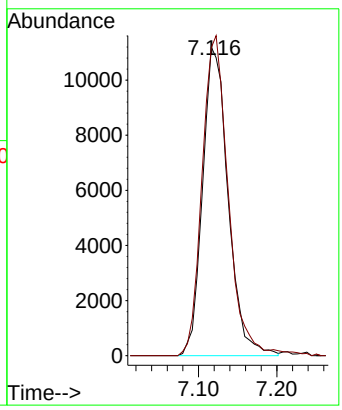
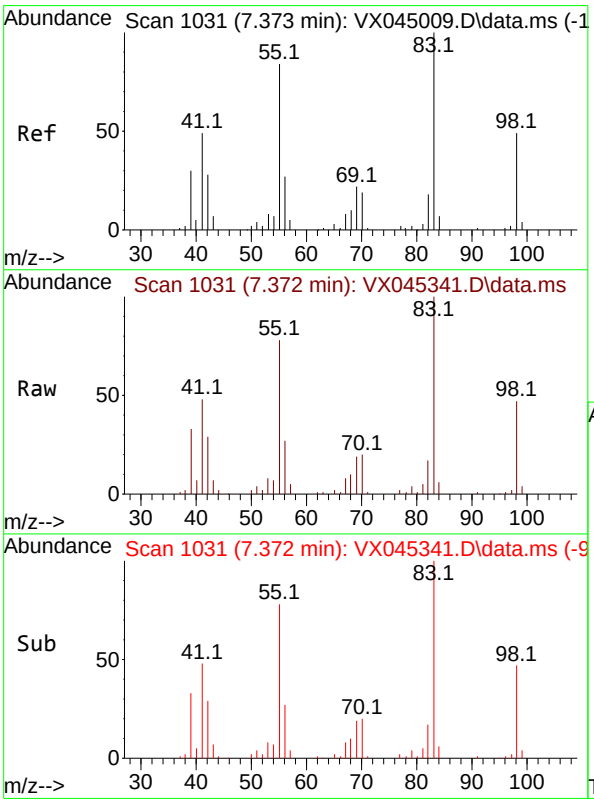
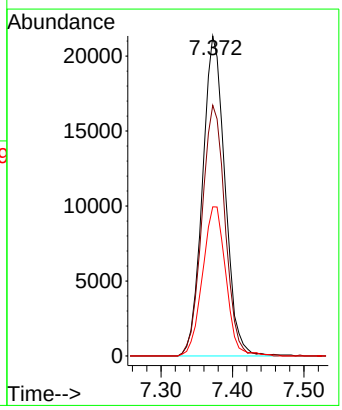


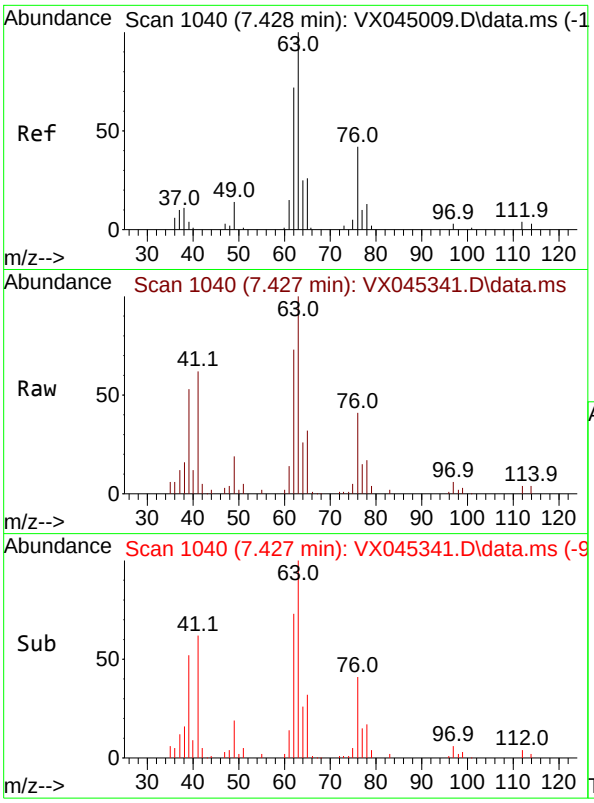


#38
Methylcyclohexane
Concen: 19.359 ug/l
RT: 7.372 min Scan# 1031
Delta R.T. -0.000 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion: 83 Resp: 46548

Ion	Ratio	Lower	Upper
83	100		
55	80.5	40.6	122.0
98	48.0	24.9	74.6

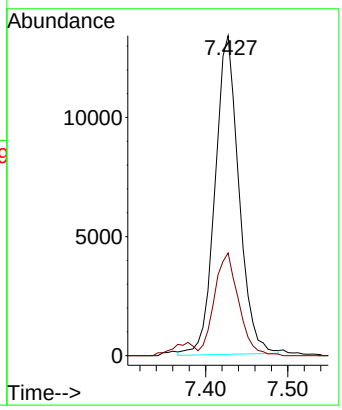




#39
1,2-Dichloropropane
Concen: 19.339 ug/l
RT: 7.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion: 63 Resp: 2700

Ion	Ratio	Lower	Upper
63	100		
65	32.0	24.3	36.5



Instrument :
MSVOA_X
ClientSampleId :
VX0319WBS01

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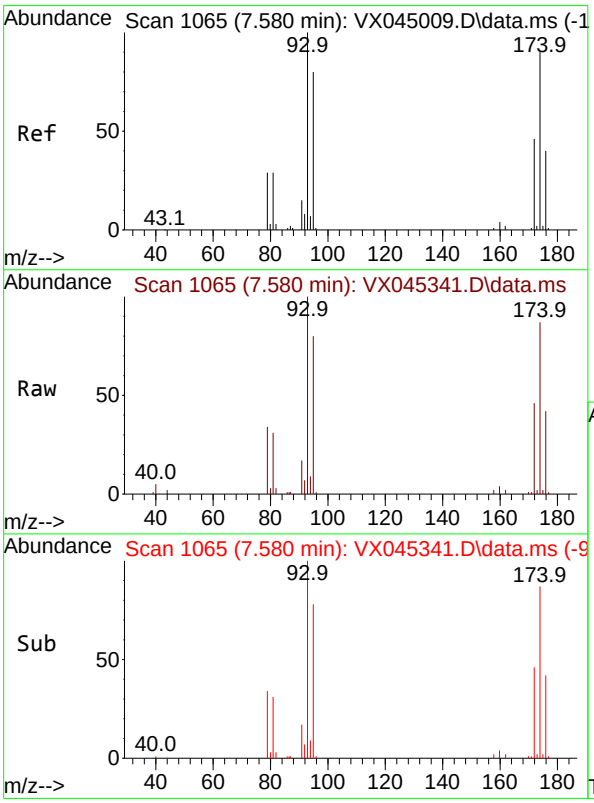
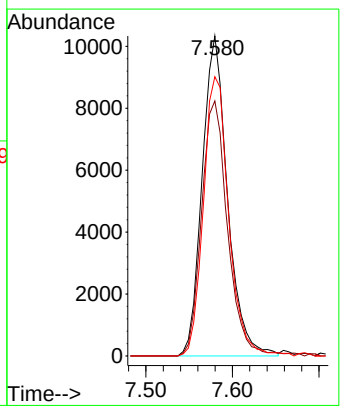
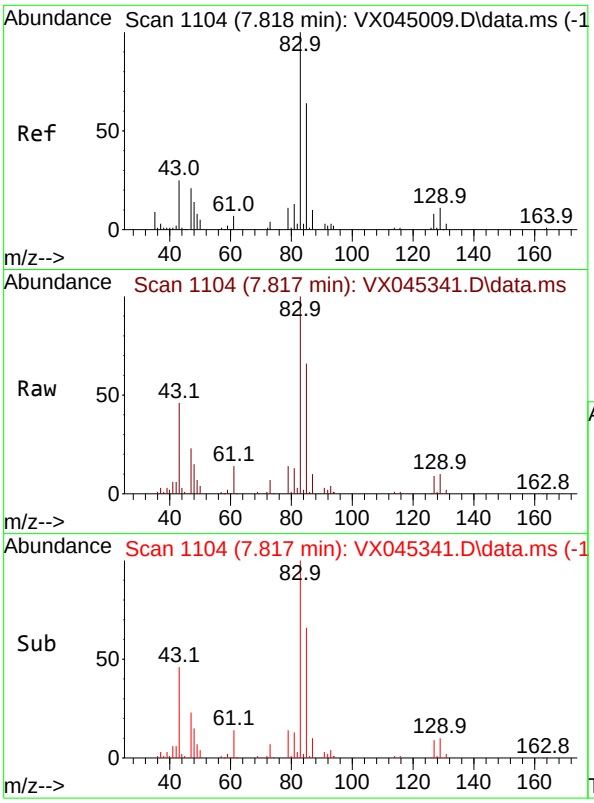


#40
Dibromomethane
Concen: 20.968 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion: 93 Resp: 21007

Ion	Ratio	Lower	Upper
93	100		
95	81.1	0.0	162.6
174	86.9	0.0	178.8

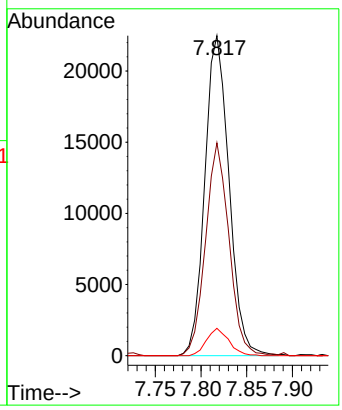




#41
Bromodichloromethane
Concen: 20.781 ug/l
RT: 7.817 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion: 83 Resp: 4138

Ion	Ratio	Lower	Upper
83	100		
85	66.5	51.0	76.6
127	8.6	6.1	9.1



Instrument :
MSVOA_X
ClientSampleId :
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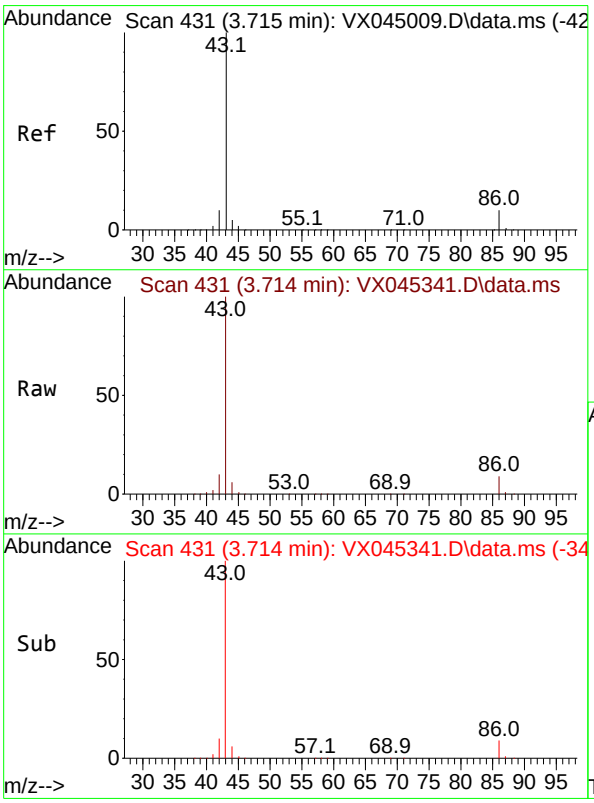
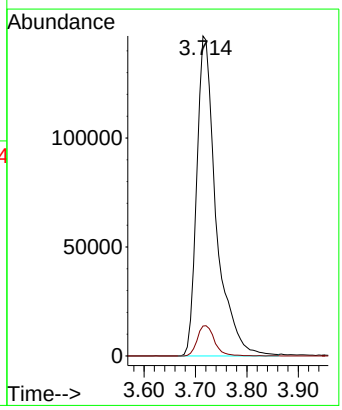
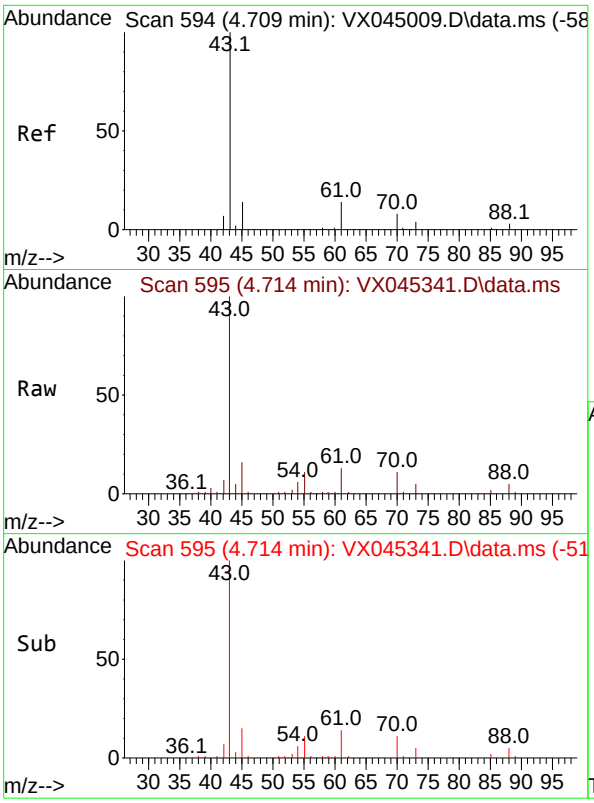


#42
Vinyl Acetate
Concen: 96.020 ug/l
RT: 3.714 min Scan# 431
Delta R.T. -0.000 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion: 43 Resp: 385398

Ion	Ratio	Lower	Upper
43	100		
86	8.3	7.0	10.4





#43
Ethyl Acetate
Concen: 22.050 ug/l
RT: 4.714 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion: 43 Resp: 4277

Ion	Ratio	Lower	Upper
43	100		
45	14.3	12.7	19.1

Instrument :
MSVOA_X
ClientSampleId :
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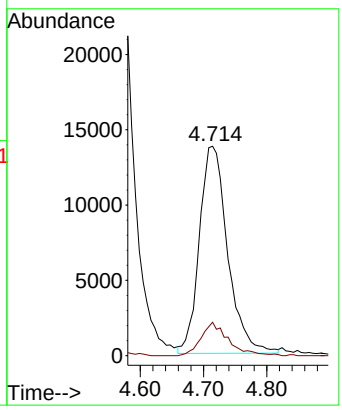
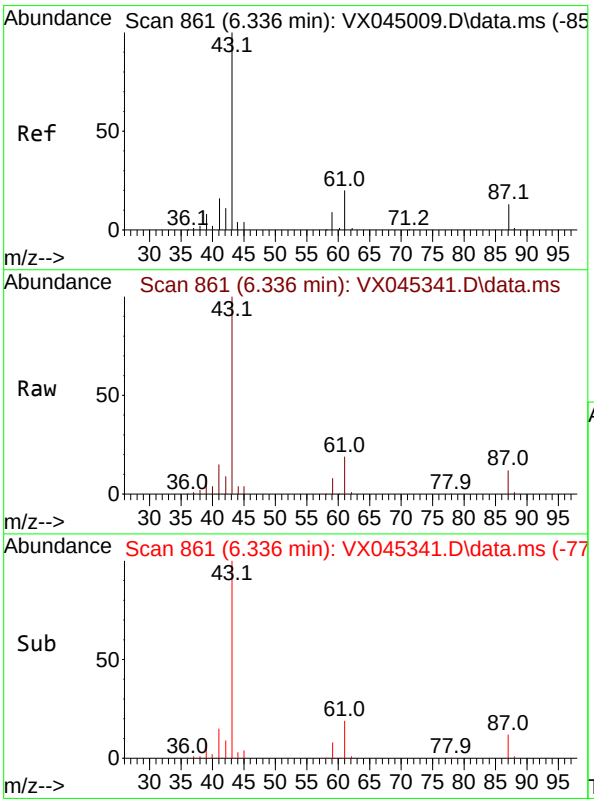
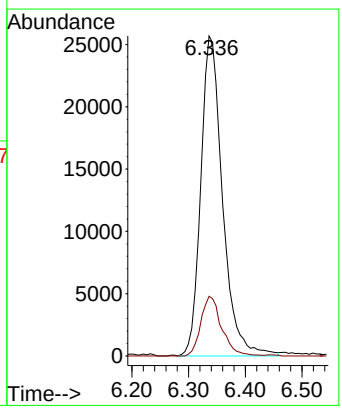


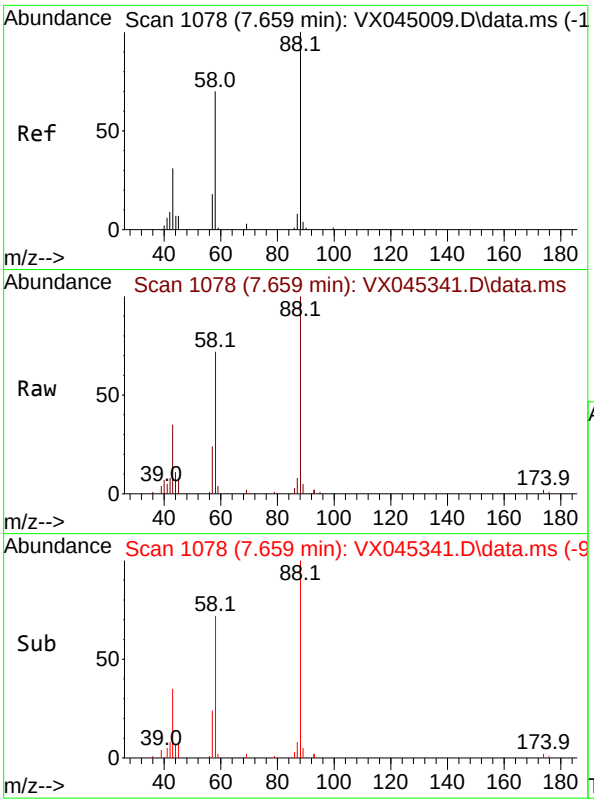


#44
Isopropyl Acetate
Concen: 21.461 ug/l
RT: 6.336 min Scan# 861
Delta R.T. -0.000 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion: 43 Resp: 68513

Ion	Ratio	Lower	Upper
43	100		
61	17.8	15.5	23.3

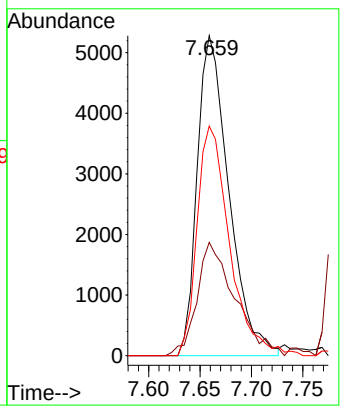




#45
1,4-Dioxane
Concen: 341.216 ug/l
RT: 7.659 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion: 88 Resp: 1132

Ion	Ratio	Lower	Upper
88	100		
43	42.3	29.6	44.4
58	73.2	56.2	84.4



Instrument :
MSVOA_X
ClientSampleId :
VX0319WBS01

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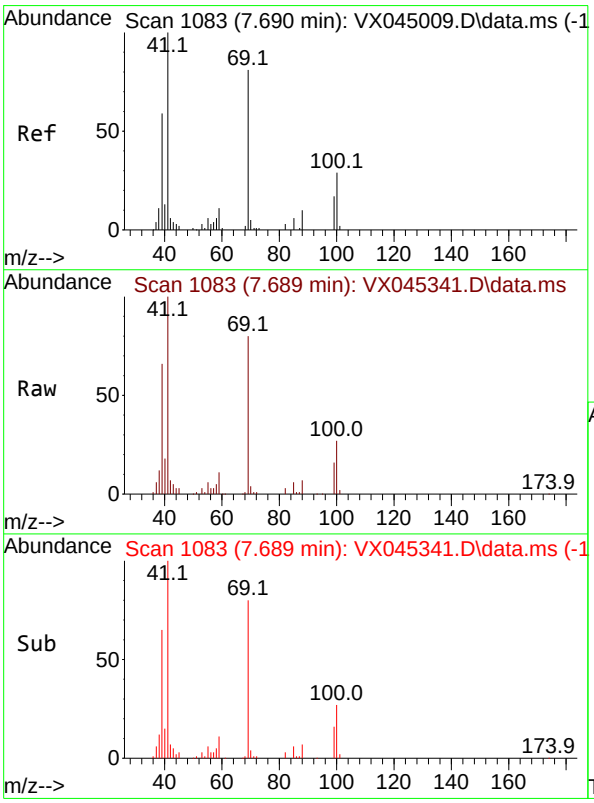
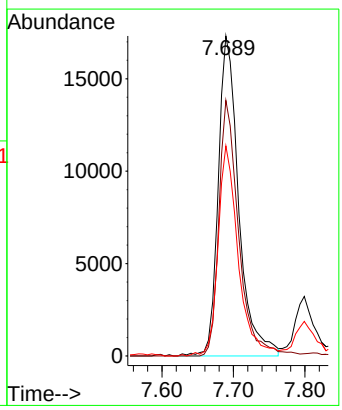
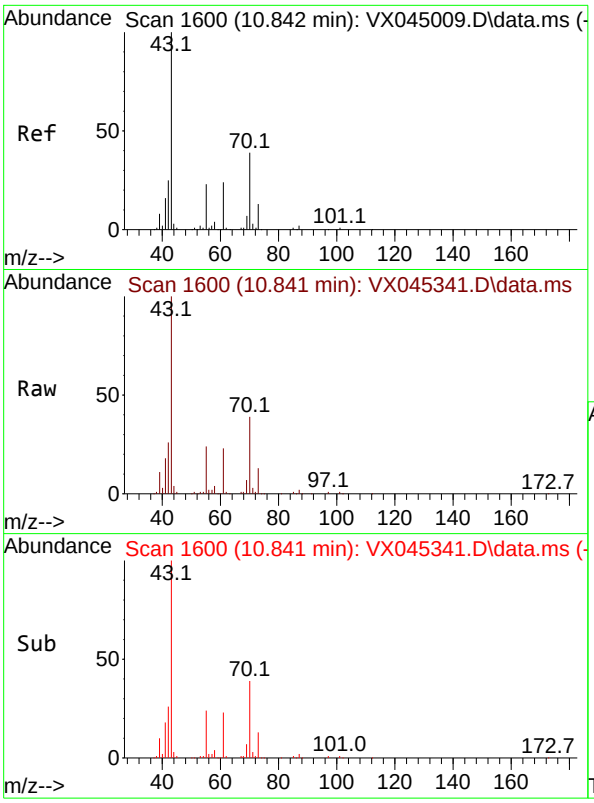


#46
Methyl methacrylate
Concen: 21.993 ug/l
RT: 7.689 min Scan# 1083
Delta R.T. -0.000 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion: 41 Resp: 34428

Ion	Ratio	Lower	Upper
41	100		
69	79.9	40.7	122.1
39	65.6	29.5	88.5





#47
n-amyl Acetate
Concen: 18.859 ug/l
RT: 10.841 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion: 43 Resp: 5224

Ion	Ratio	Lower	Upper
43	100		
55	24.3	18.6	27.8

Instrument :
MSVOA_X
ClientSampleId :
VX0319WBS01

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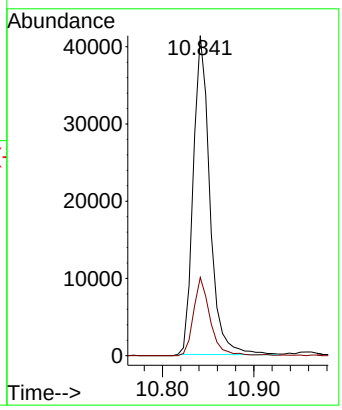
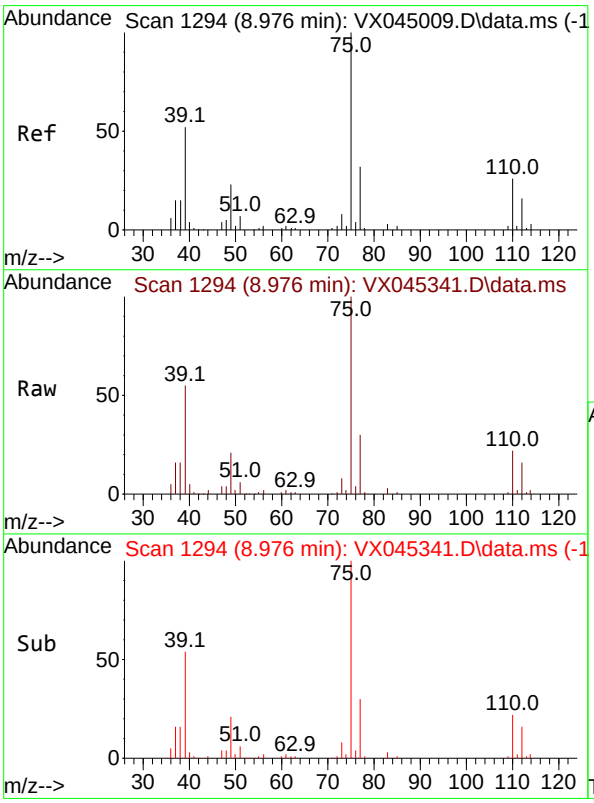
Reviewed By :John Carlone 03/20/2025
Supervised By :Mahesh Dadoda 03/20/2025

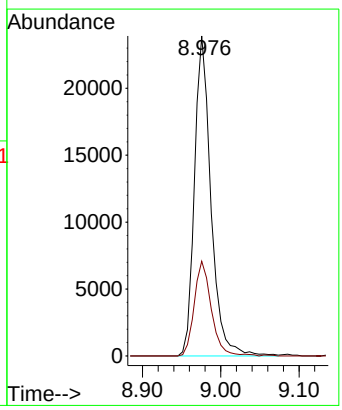


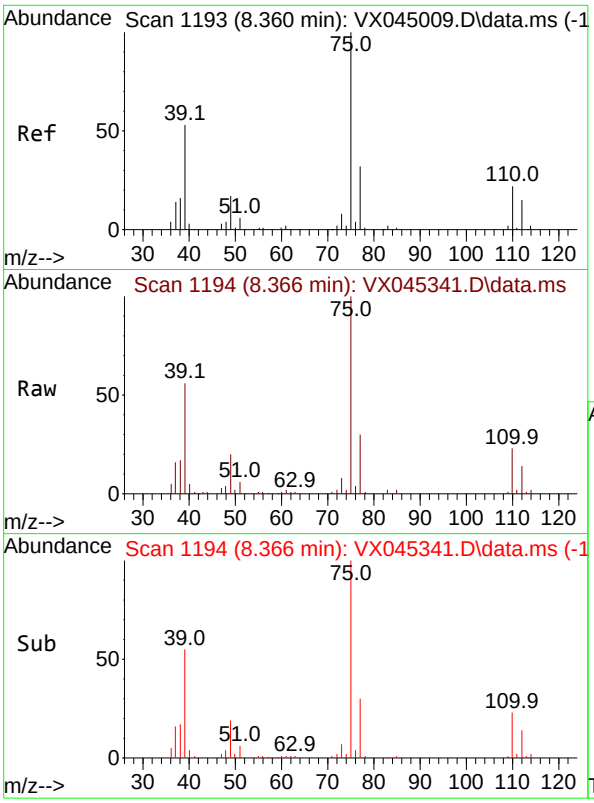


#48
t-1,3-Dichloropropene
Concen: 18.287 ug/l
RT: 8.976 min Scan# 1294
Delta R.T. -0.000 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion: 75 Resp: 35099

Ion	Ratio	Lower	Upper
75	100		
77	29.6	25.7	38.5

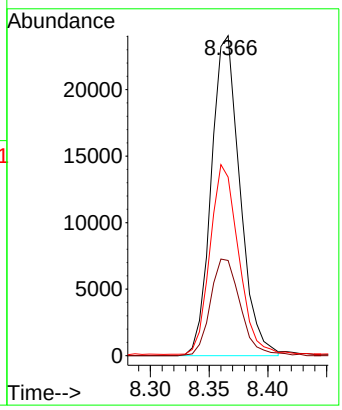




#49
cis-1,3-Dichloropropene
Concen: 18.763 ug/l
RT: 8.366 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion: 75 Resp: 4076

Ion	Ratio	Lower	Upper
75	100		
77	29.8	25.9	38.9
39	55.3	42.3	63.5



Instrument :
MSVOA_X
ClientSampleId :
VX0319WBS01

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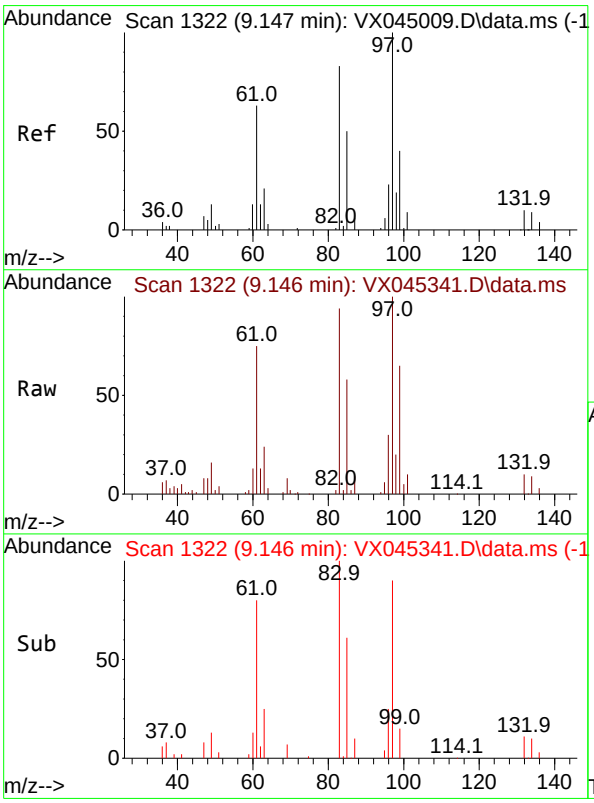
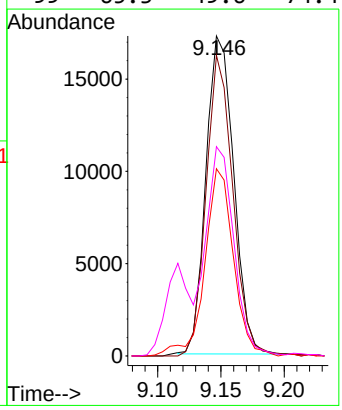
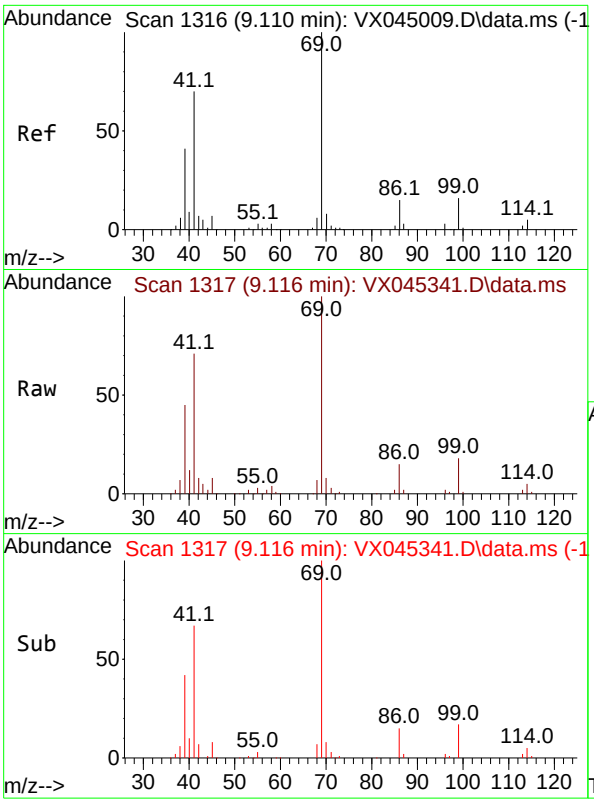


#50
1,1,2-Trichloroethane
Concen: 20.107 ug/l
RT: 9.146 min Scan# 1322
Delta R.T. -0.000 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion: 97 Resp: 26276

Ion	Ratio	Lower	Upper
97	100		
83	94.6	66.0	99.0
85	58.9	42.5	63.7
99	65.3	49.6	74.4

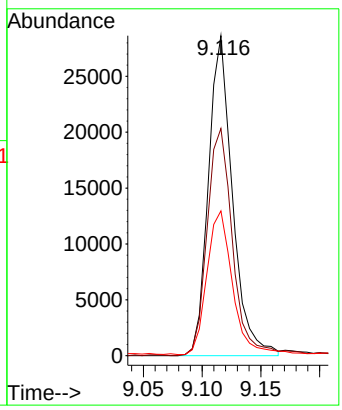




#51
Ethyl methacrylate
Concen: 19.861 ug/l
RT: 9.116 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion: 69 Resp: 4081

Ion	Ratio	Lower	Upper
69	100		
41	71.0	35.1	105.3
39	44.9	20.5	61.6



Instrument :
MSVOA_X
ClientSampleId :
VX0319WBS01

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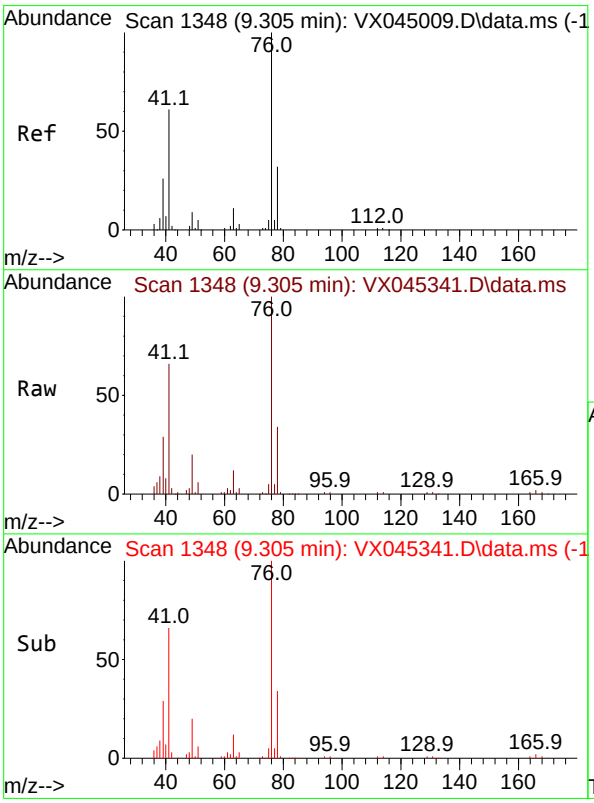
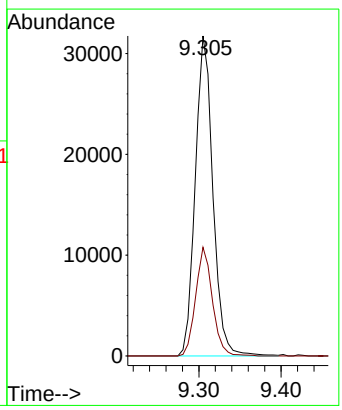
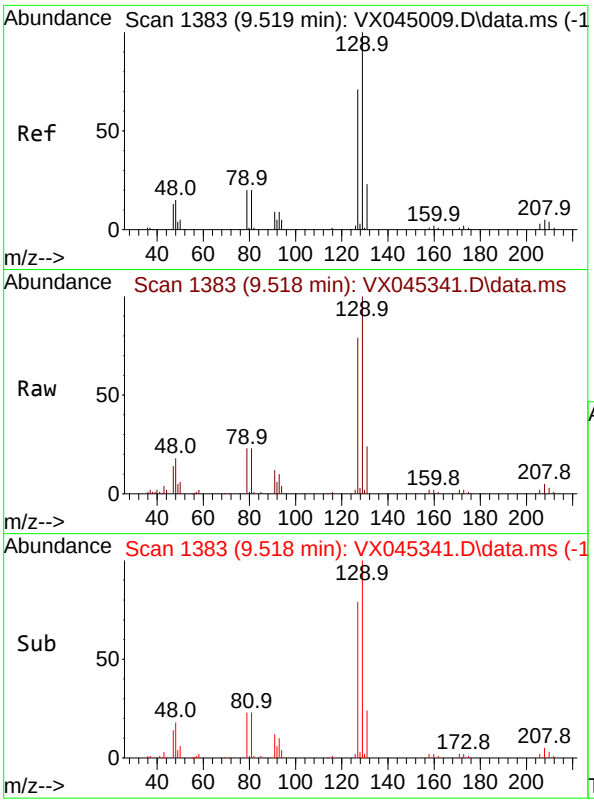


#52
1,3-Dichloropropane
Concen: 20.677 ug/l
RT: 9.305 min Scan# 1348
Delta R.T. -0.000 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion: 76 Resp: 47347

Ion	Ratio	Lower	Upper
76	100		
78	32.3	0.0	63.6





#53
Dibromochloromethane
Concen: 19.931 ug/l
RT: 9.518 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion:129 Resp: 2880

Ion	Ratio	Lower	Upper
129	100		
127	78.9	37.3	111.9

Instrument :
MSVOA_X
ClientSampleId :
VX0319WBS01

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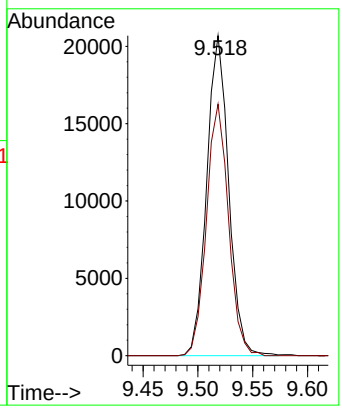
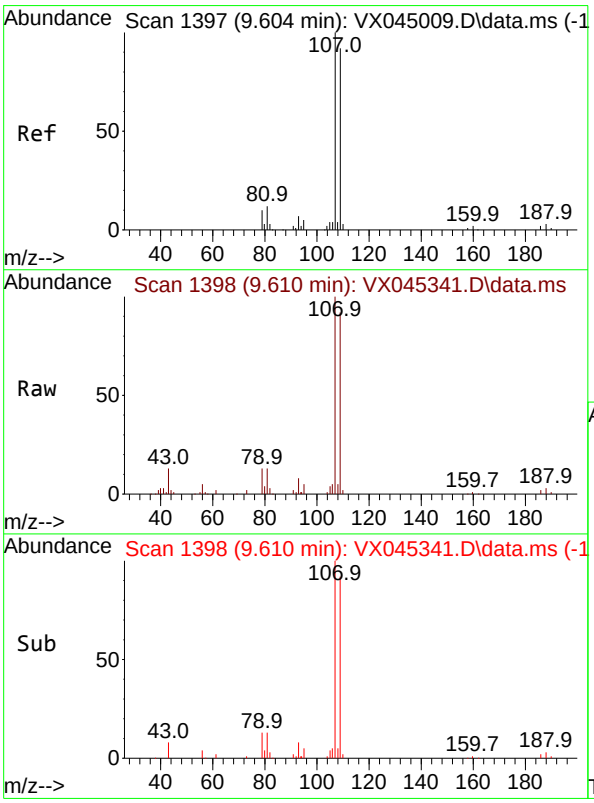
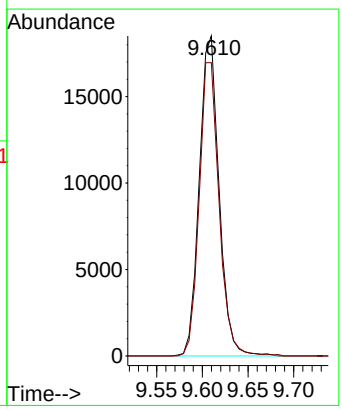


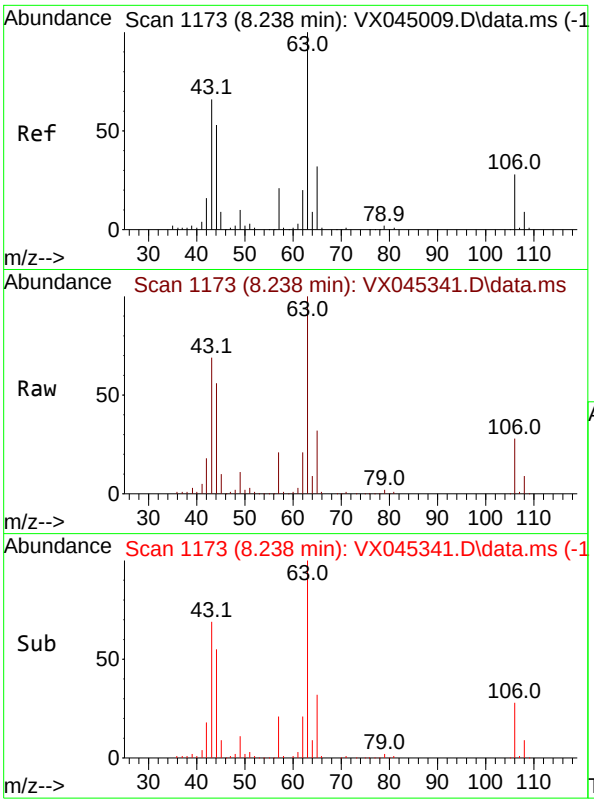


#54
1,2-Dibromoethane
Concen: 20.889 ug/l
RT: 9.610 min Scan# 1398
Delta R.T. 0.006 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion:107 Resp: 27720

Ion	Ratio	Lower	Upper
107	100		
109	92.7	75.8	113.8





#55
2-Chloroethyl vinyl ether
Concen: 127.852 ug/l
RT: 8.238 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion: 63 Resp: 13493

Ion	Ratio	Lower	Upper
63	100		
65	31.7	26.2	39.2
106	26.4	21.2	31.8

Instrument :
MSVOA_X
ClientSampleId :
VX0319WBS01

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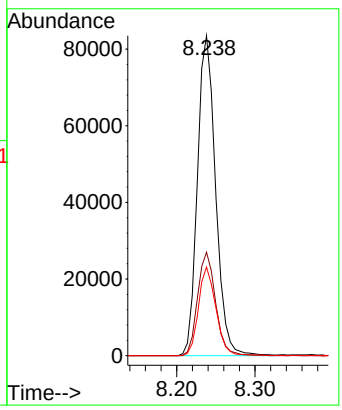
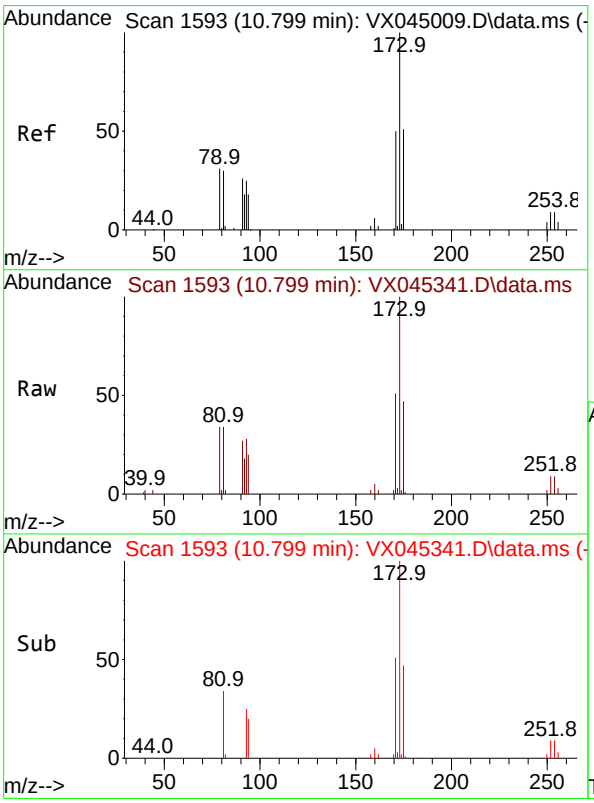
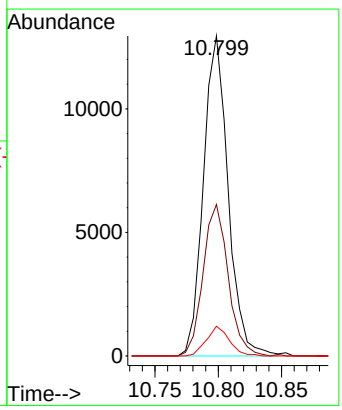


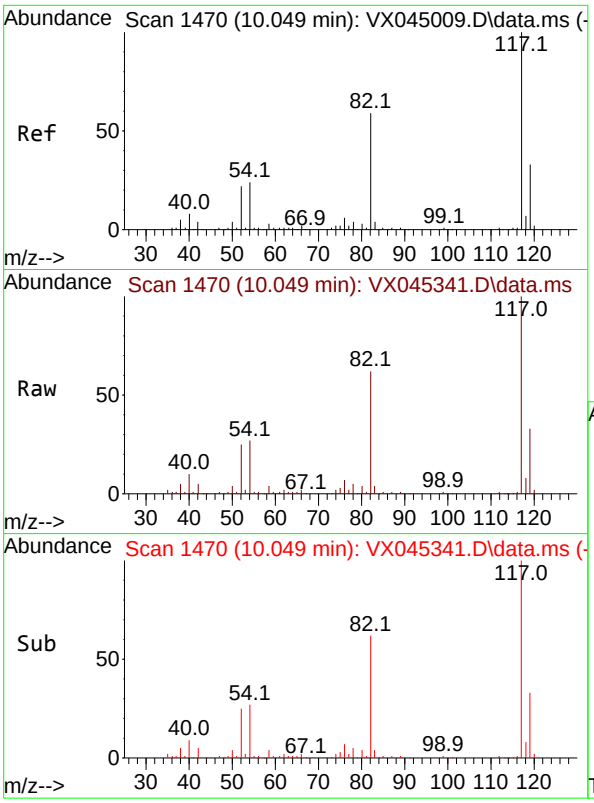


#56
Bromoform
Concen: 19.423 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. -0.000 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion:173 Resp: 17591

Ion	Ratio	Lower	Upper
173	100		
175	48.1	39.6	59.4
254	8.6	6.3	9.5





#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion:117 Resp: 8733

Ion	Ratio	Lower	Upper
117	100		
82	60.0	45.8	68.8
119	33.1	25.5	38.3

Instrument :
MSVOA_X
ClientSampleId :
VX0319WBS01

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Reviewed By :John Carlone 03/20/2025
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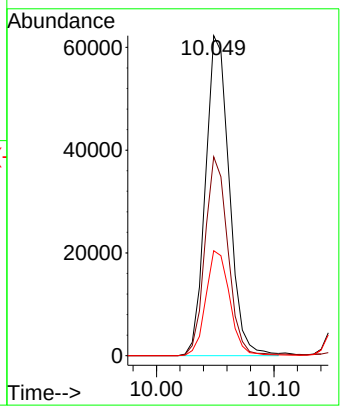
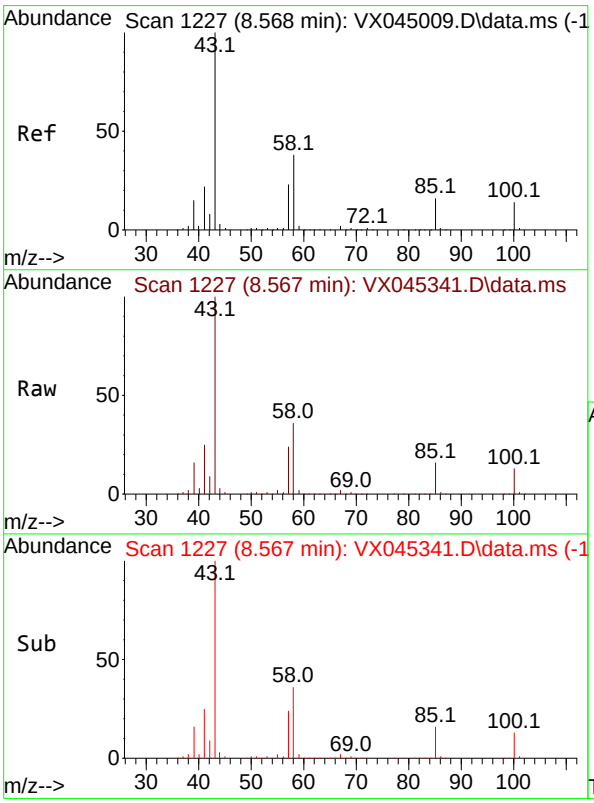
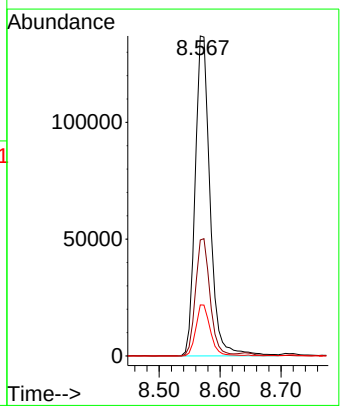


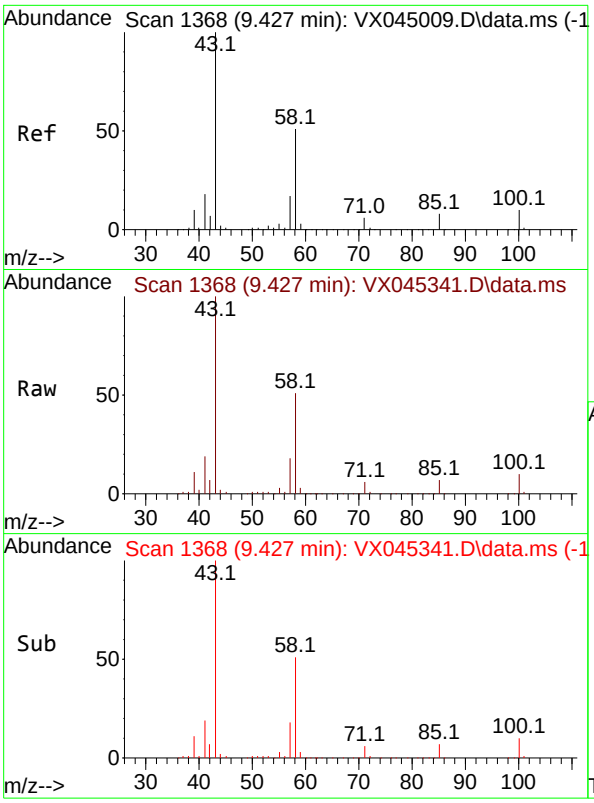


#58
4-Methyl-2-Pentanone
Concen: 117.104 ug/l
RT: 8.567 min Scan# 1227
Delta R.T. -0.000 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion: 43 Resp: 232649

Ion	Ratio	Lower	Upper
43	100		
58	35.8	29.5	44.3
85	15.5	12.9	19.3





#59
2-Hexanone
Concen: 117.117 ug/l
RT: 9.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion: 43 Resp: 16817

Ion	Ratio	Lower	Upper
43	100		
58	50.9	41.6	62.4
57	18.1	13.8	20.6

Instrument :
MSVOA_X
ClientSampleId :
VX0319WBS01

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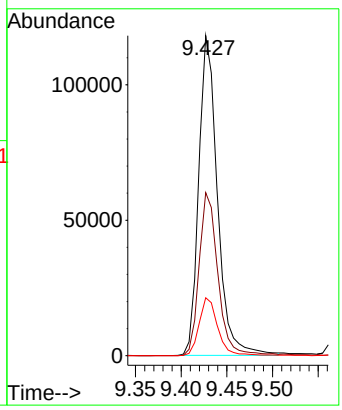
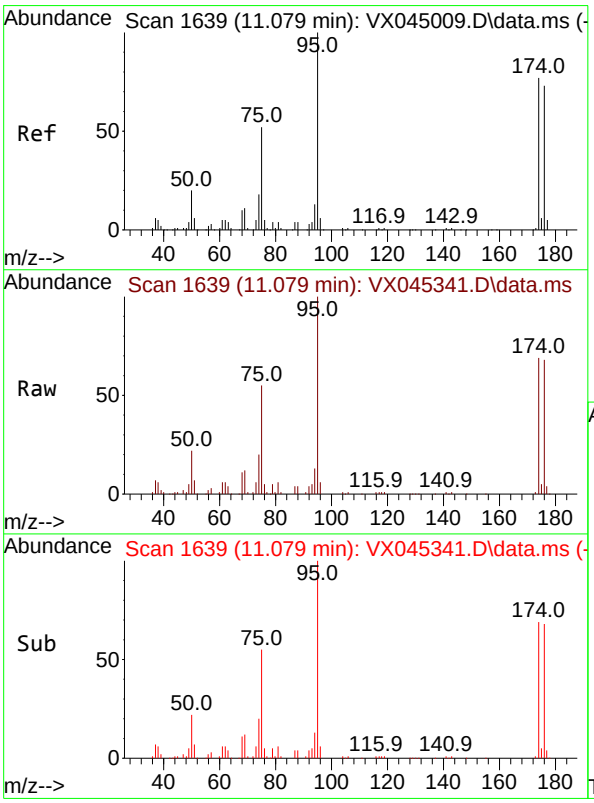
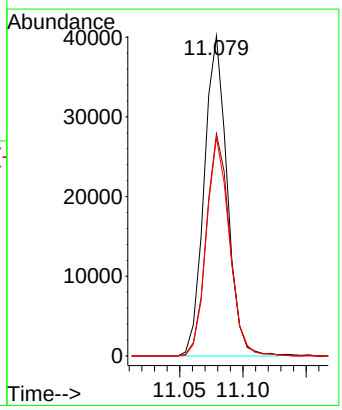


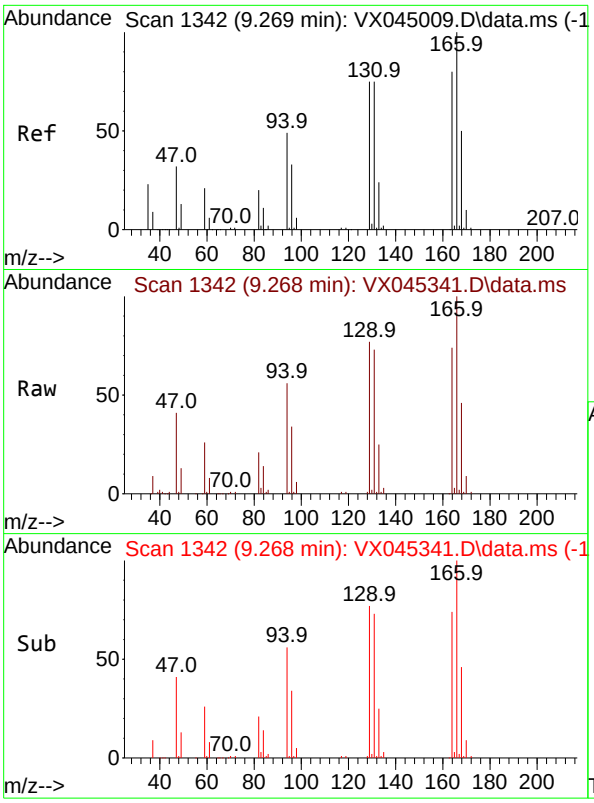


#60
4-Bromofluorobenzene
Concen: 31.066 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion: 95 Resp: 50712

Ion	Ratio	Lower	Upper
95	100		
174	70.5	59.5	89.3
176	68.4	55.5	83.3

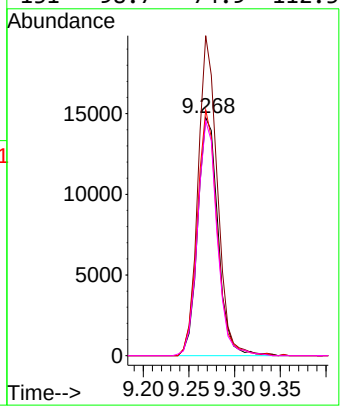




#61
Tetrachloroethene
Concen: 21.122 ug/l
RT: 9.268 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion:164 Resp: 2271

Ion	Ratio	Lower	Upper
164	100		
166	134.5	100.3	150.5
129	103.3	75.5	113.3
131	98.7	74.9	112.3



Instrument :
MSVOA_X
ClientSampleId :
VX0319WBS01

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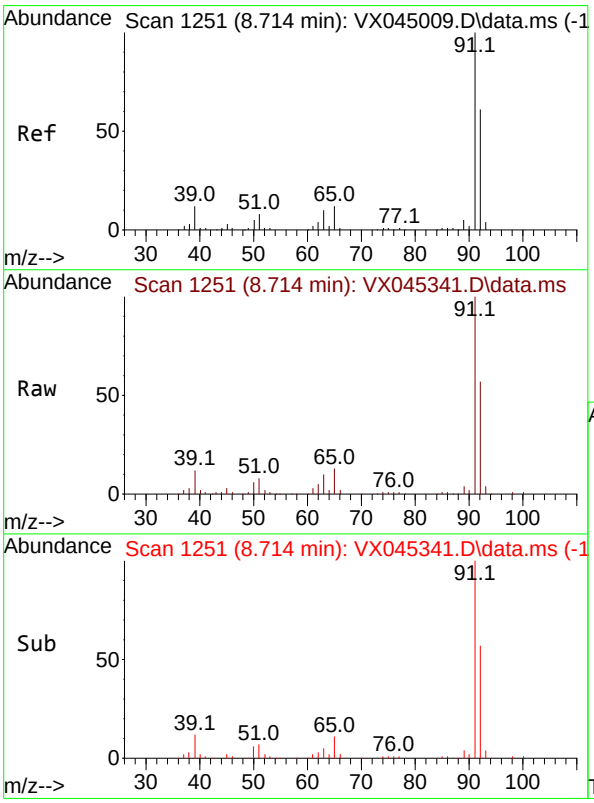
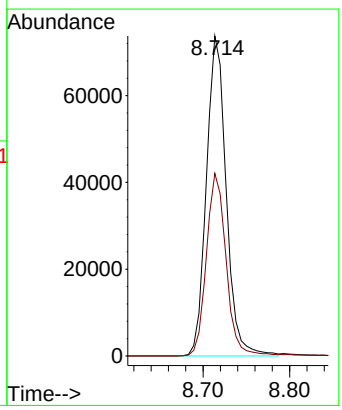
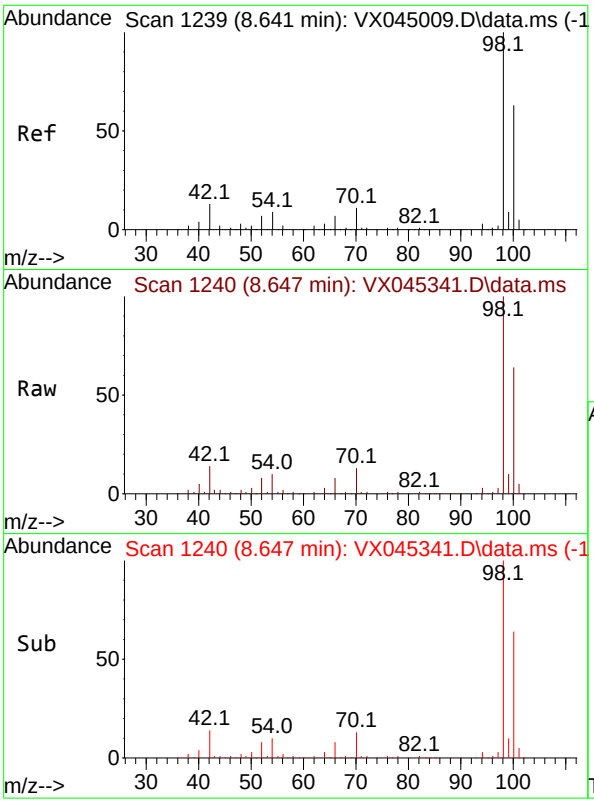


#62
Toluene
Concen: 20.251 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion: 91 Resp: 117162

Ion	Ratio	Lower	Upper
91	100		
92	56.6	46.9	70.3





#63
Toluene-d8
Concen: 31.105 ug/l
RT: 8.647 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion: 98 Resp: 15028

Ion	Ratio	Lower	Upper
98	100		
100	64.9	51.7	77.5

Instrument :
MSVOA_X
ClientSampleId :
VX0319WBS01

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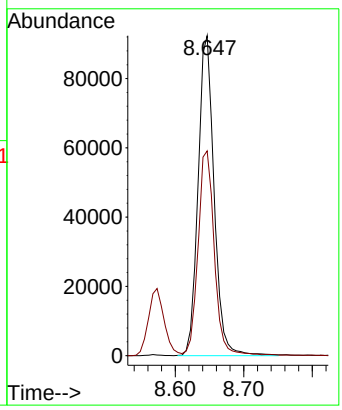
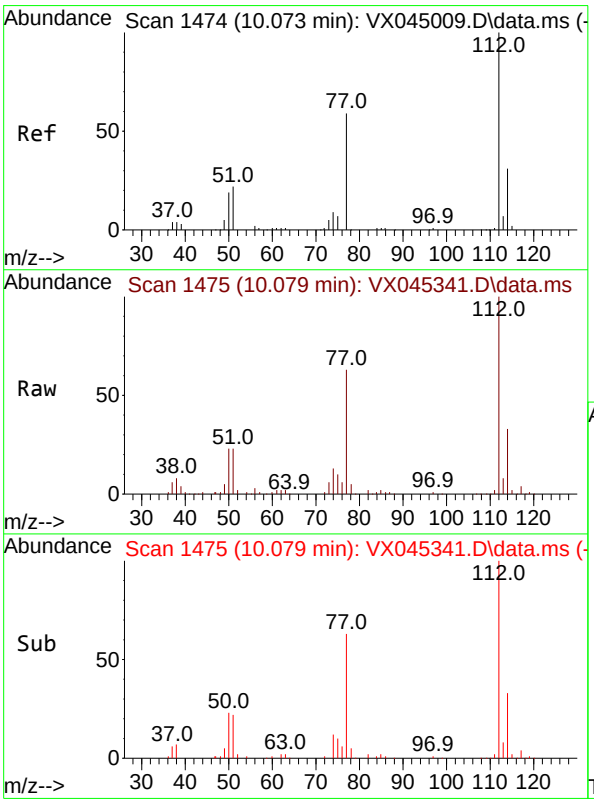
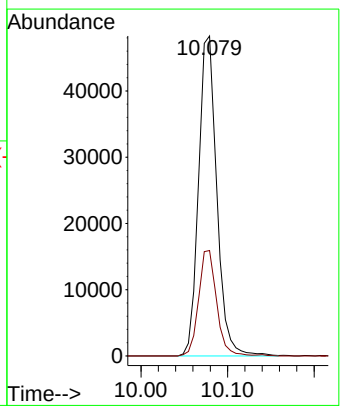


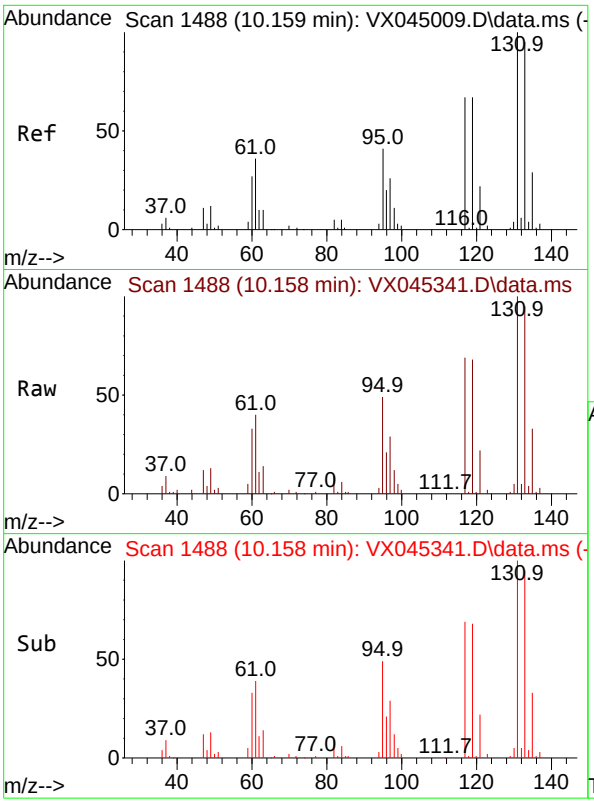


#64
Chlorobenzene
Concen: 19.741 ug/l
RT: 10.079 min Scan# 1475
Delta R.T. 0.006 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion:112 Resp: 70773

Ion	Ratio	Lower	Upper
112	100		
114	32.9	24.7	37.1

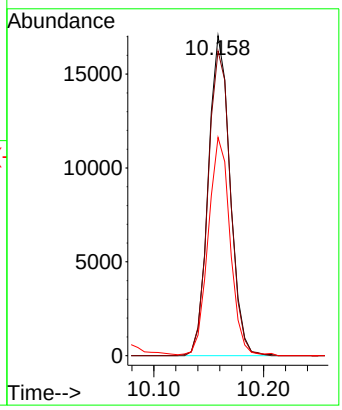




#65
1,1,1,2-Tetrachloroethane
Concen: 19.868 ug/l
RT: 10.158 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion:131 Resp: 2350

Ion	Ratio	Lower	Upper
131	100		
133	97.6	0.0	187.8
119	68.6	0.0	133.0



Instrument :
MSVOA_X
ClientSampleId :
VX0319WBS01

Manual Integrations
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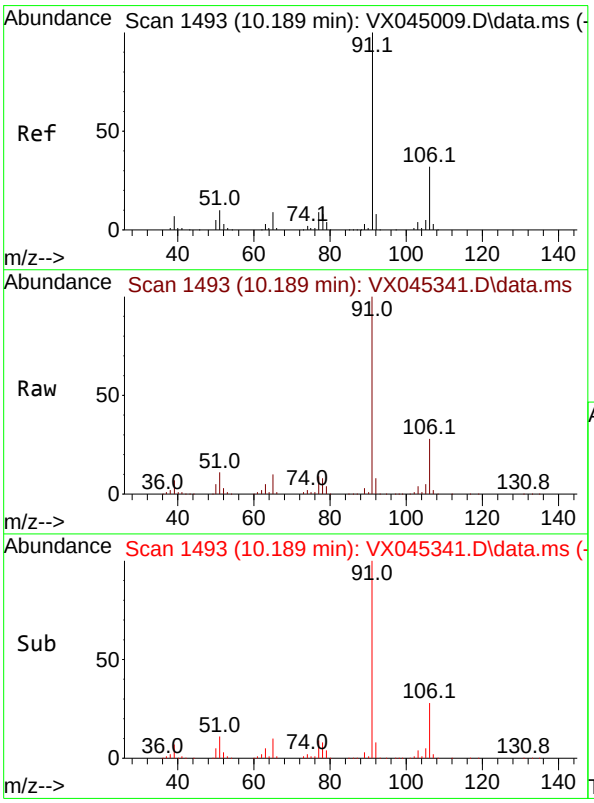
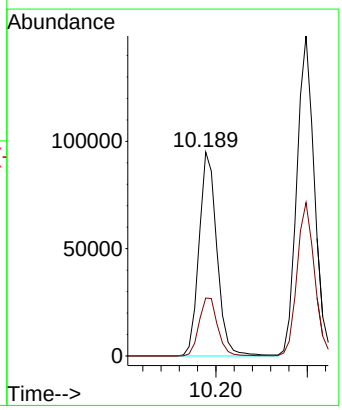
Reviewed By :John Carlone 03/20/2025
Supervised By :Mahesh Dadoda 03/20/2025

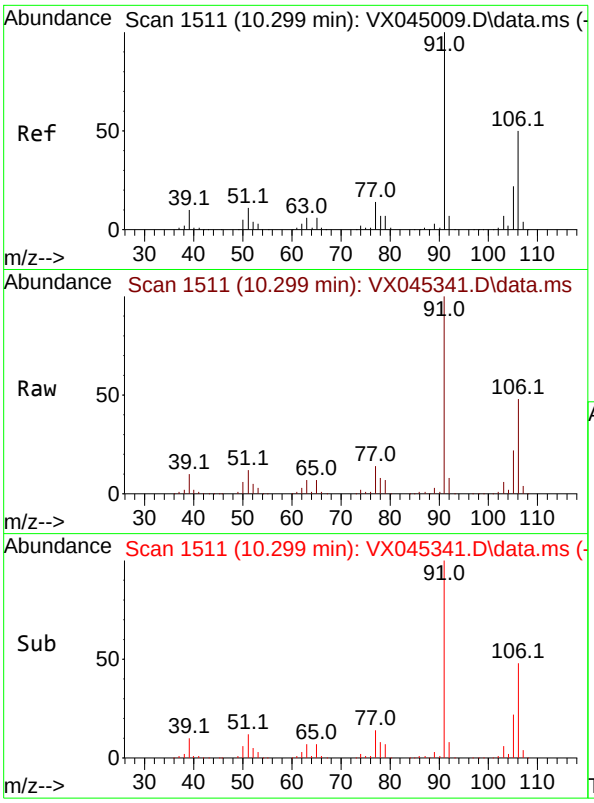


#66
Ethyl Benzene
Concen: 20.346 ug/l
RT: 10.189 min Scan# 1493
Delta R.T. -0.000 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion: 91 Resp: 128869

Ion	Ratio	Lower	Upper
91	100		
106	28.4	25.4	38.2

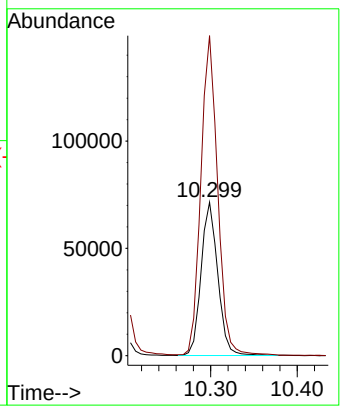




#67
m/p-Xylenes
Concen: 40.449 ug/l
RT: 10.299 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion:106 Resp: 9545

Ion	Ratio	Lower	Upper
106	100		
91	210.0	163.7	245.5



Instrument :
MSVOA_X
ClientSampleId :
VX0319WBS01

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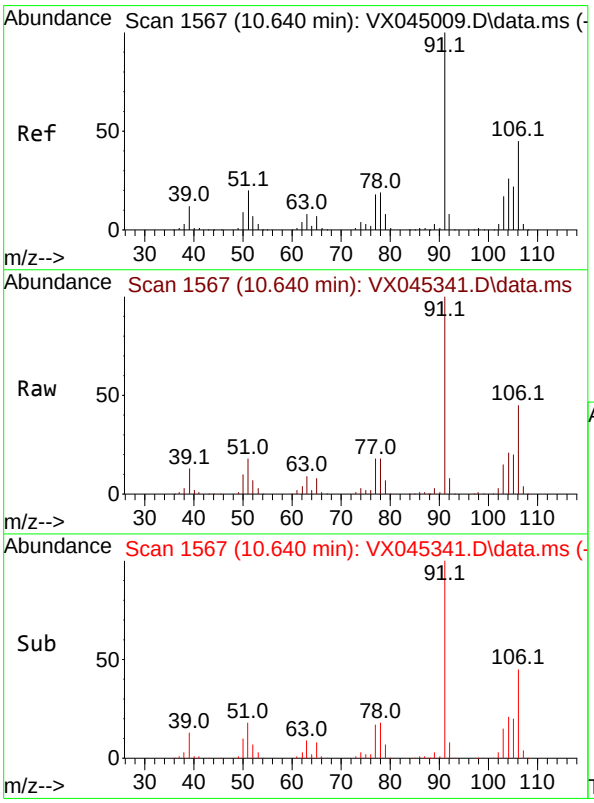
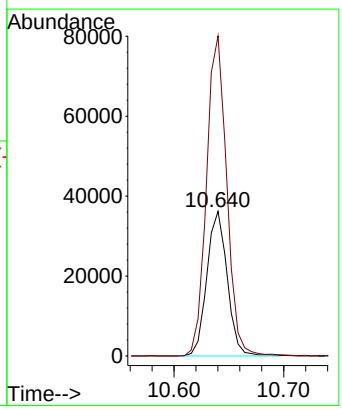
Reviewed By :John Carlone 03/20/2025
Supervised By :Mahesh Dadoda 03/20/2025

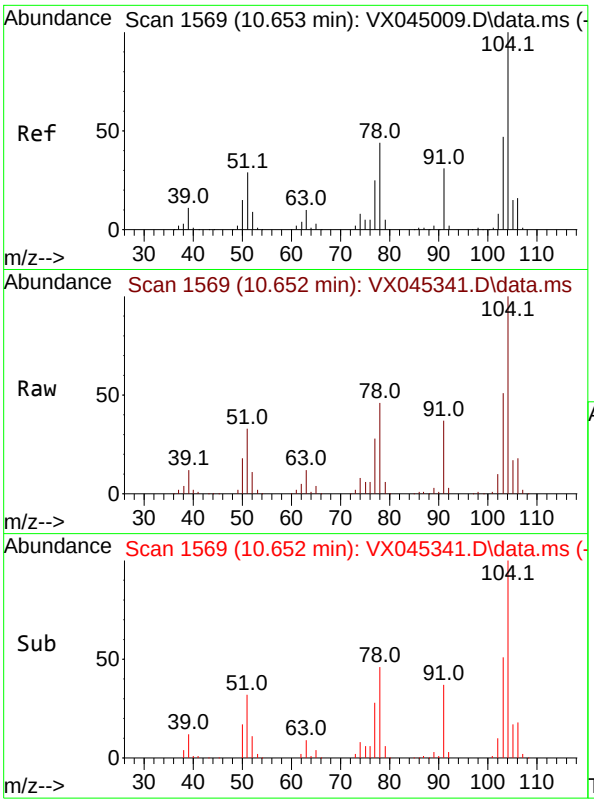


#68
o-Xylene
Concen: 20.202 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion:106 Resp: 46776

Ion	Ratio	Lower	Upper
106	100		
91	220.3	109.7	329.1

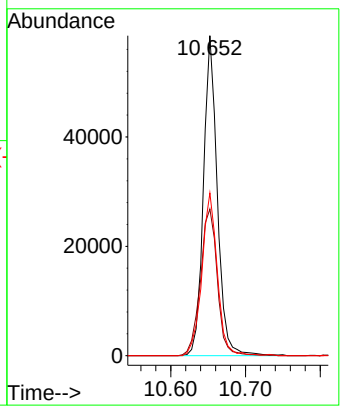




#69
Styrene
Concen: 19.546 ug/l
RT: 10.652 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion:104 Resp: 7558

Ion	Ratio	Lower	Upper
104	100		
78	55.7	41.4	62.0
103	56.3	43.0	64.4



Instrument :
MSVOA_X
ClientSampleId :
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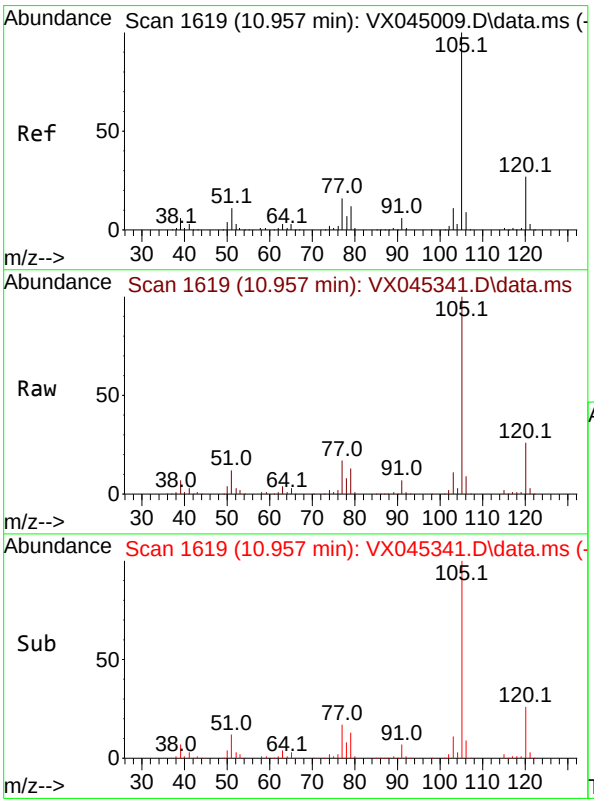
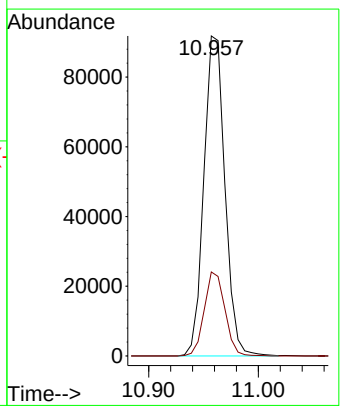
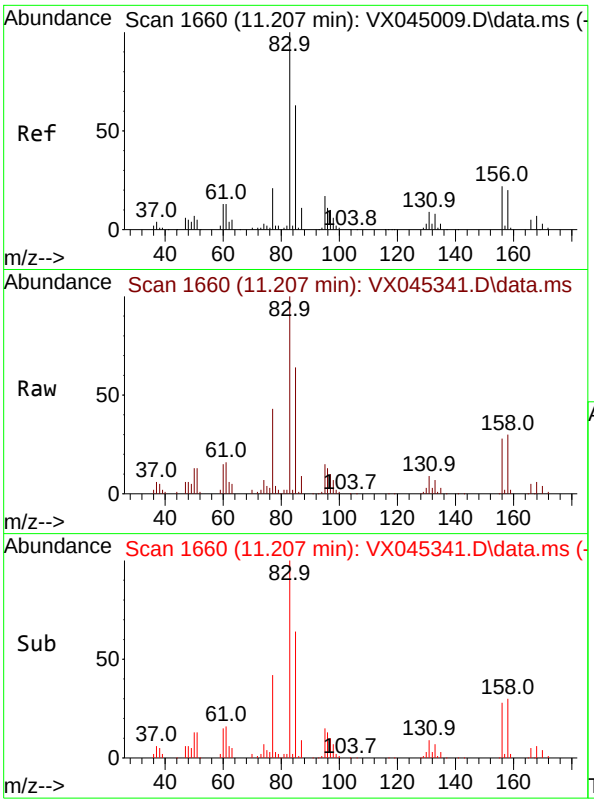


#70
Isopropylbenzene
Concen: 20.530 ug/l
RT: 10.957 min Scan# 1619
Delta R.T. -0.000 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion:105 Resp: 122673

Ion	Ratio	Lower	Upper
105	100		
120	25.7	18.4	34.2





#71
1,1,2,2-Tetrachloroethane
Concen: 21.256 ug/l
RT: 11.207 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion: 83 Resp: 4176

Ion	Ratio	Lower	Upper
83	100		
131	9.3	4.8	14.3
85	64.9	32.3	96.8

Instrument :
MSVOA_X
ClientSampleId :
VX0319WBS01

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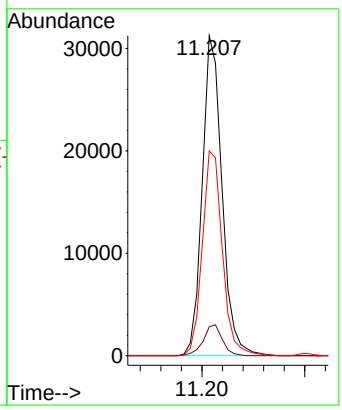
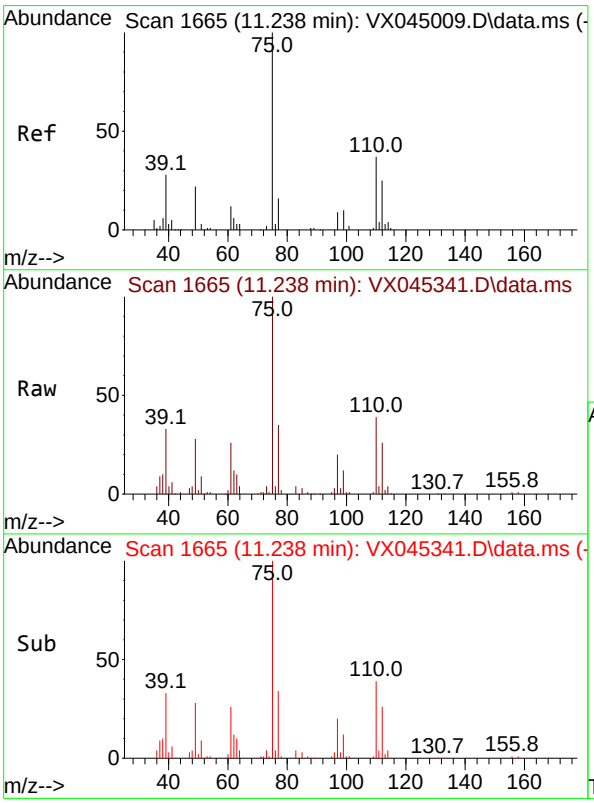
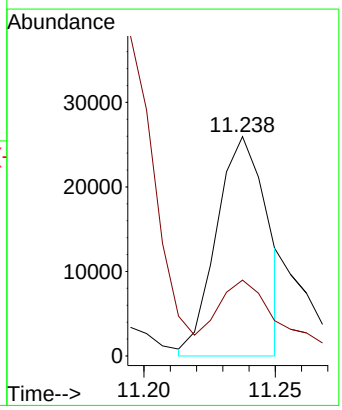


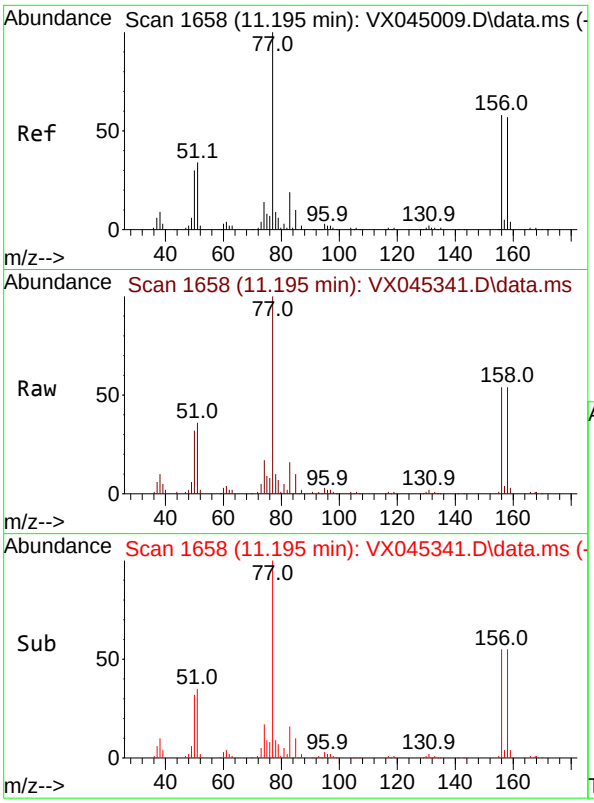


#72
1,2,3-Trichloropropane
Concen: 21.561 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion: 75 Resp: 34845

Ion	Ratio	Lower	Upper
75	100		
77	42.2	0.0	84.0

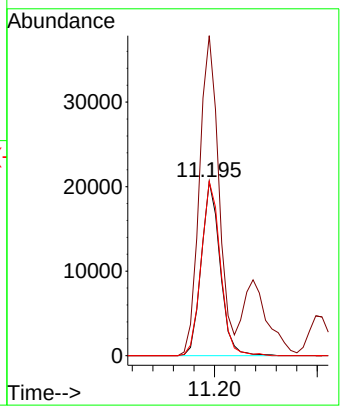




#73
Bromobenzene
Concen: 19.049 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion:156 Resp: 2620

Ion	Ratio	Lower	Upper
156	100		
77	189.9	0.0	347.2
158	101.8	0.0	197.6



Instrument :
MSVOA_X
ClientSampleId :
VX0319WBS01

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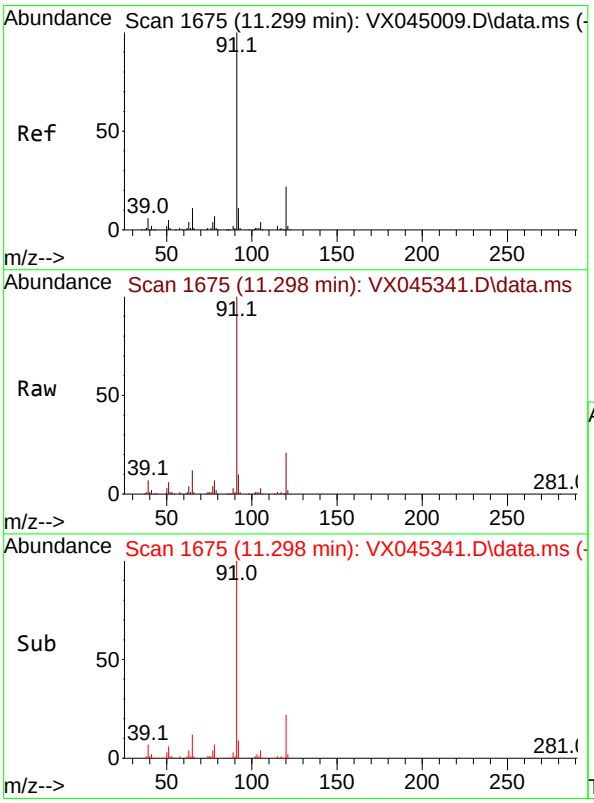
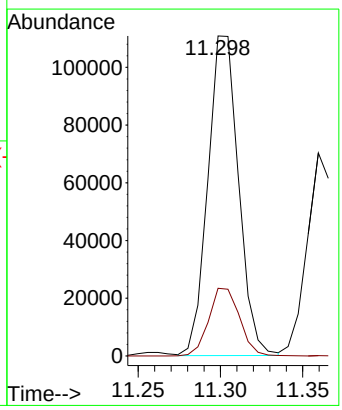
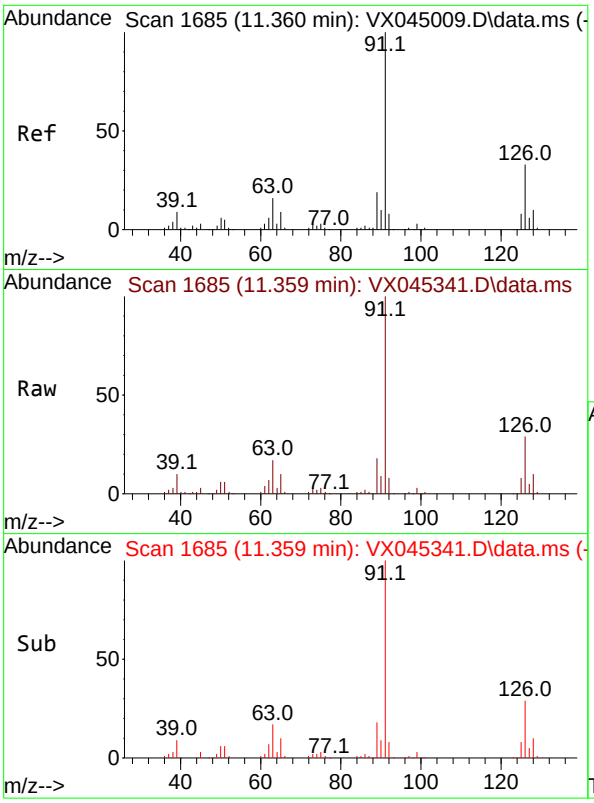


#74
n-propylbenzene
Concen: 20.266 ug/l
RT: 11.298 min Scan# 1675
Delta R.T. -0.000 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion: 91 Resp: 144108

Ion	Ratio	Lower	Upper
91	100		
120	21.3	0.0	44.2





#75
2-Chlorotoluene
Concen: 20.332 ug/l
RT: 11.359 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion: 91 Resp: 8740

Ion	Ratio	Lower	Upper
91	100		
126	31.3	0.0	65.4

Instrument :
MSVOA_X
ClientSampleId :
VX0319WBS01

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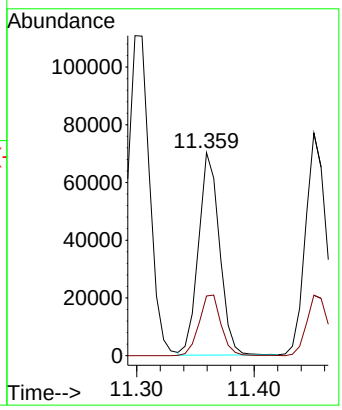
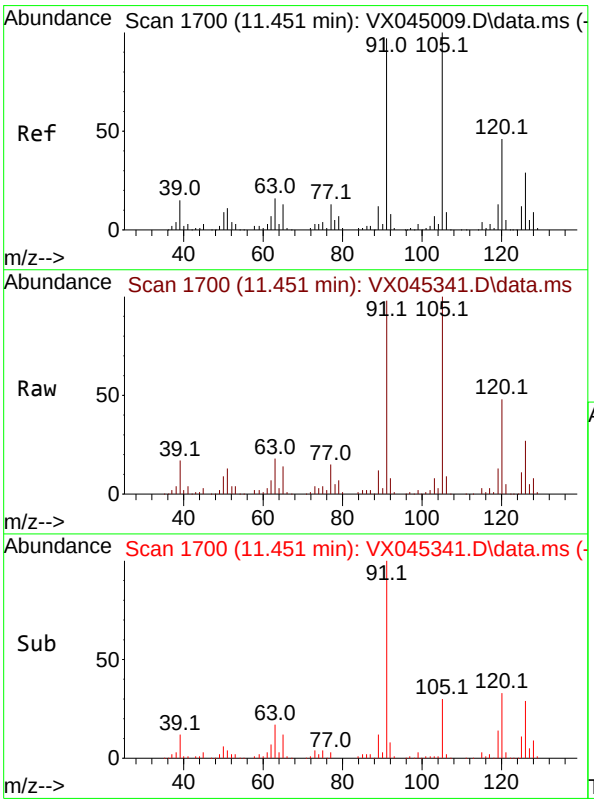
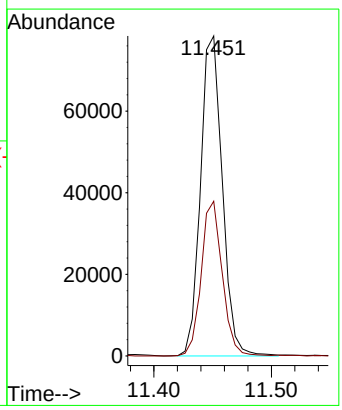


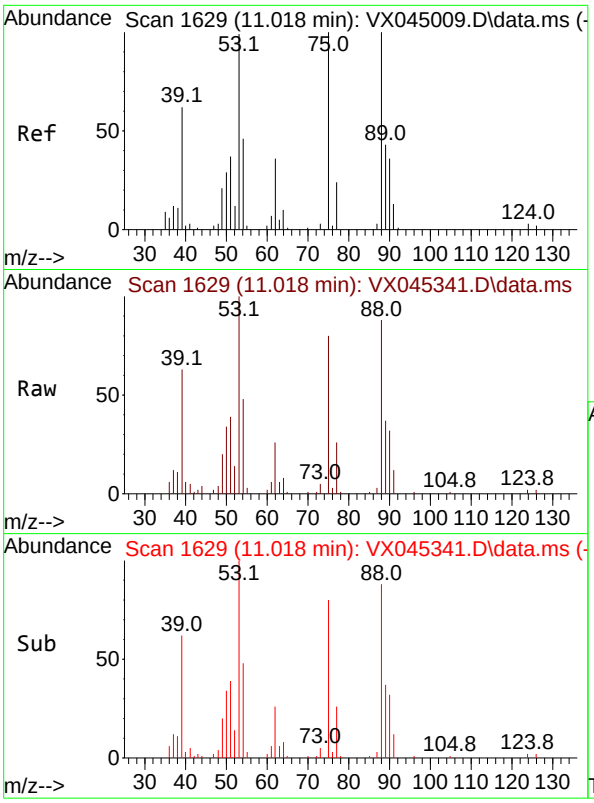


#76
1,3,5-Trimethylbenzene
Concen: 20.514 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion:105 Resp: 101121

Ion	Ratio	Lower	Upper
105	100		
120	46.7	0.0	94.4

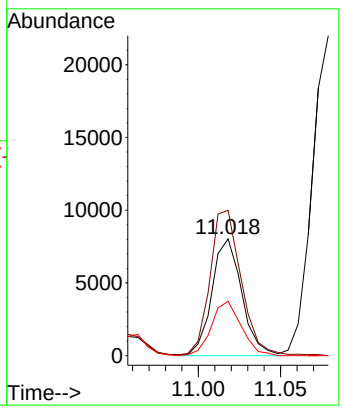




#77
t-1,4-Dichloro-2-butene
Concen: 18.721 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion: 75 Resp: 1017

Ion	Ratio	Lower	Upper
75	100		
53	124.8	49.8	149.4
89	47.0	21.4	64.2



Instrument :
MSVOA_X
ClientSampleId :
VX0319WBS01

Manual Integrations
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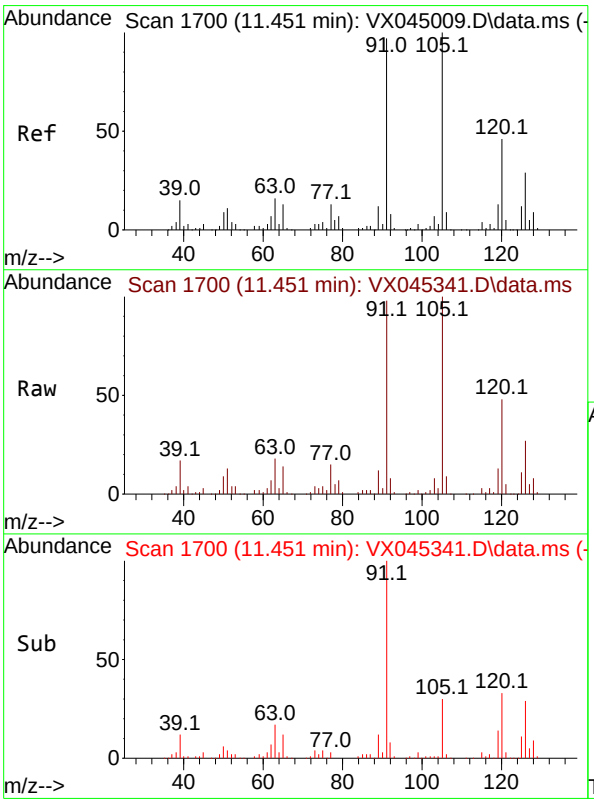
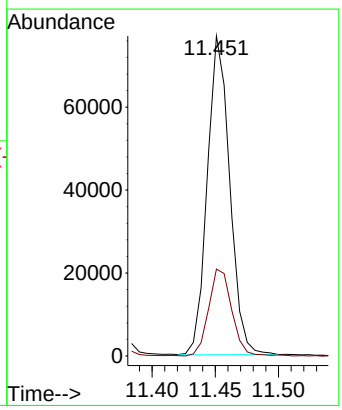
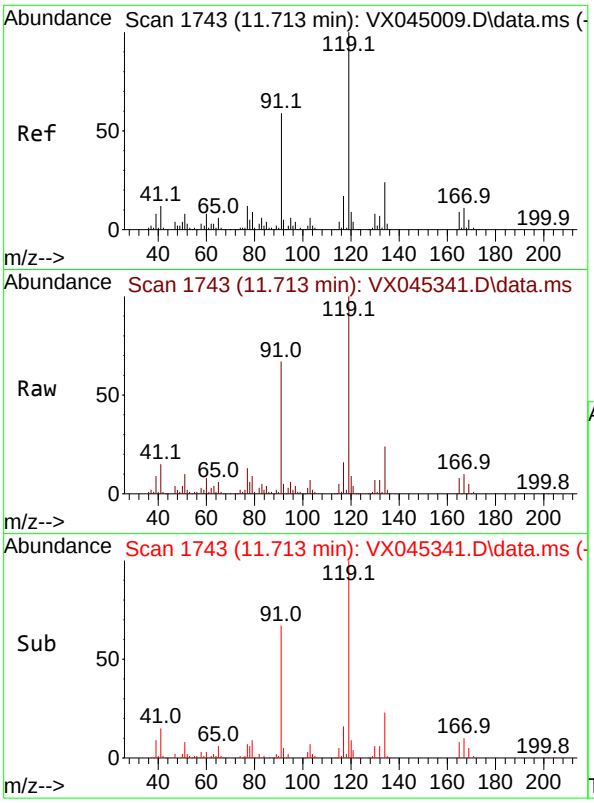


#78
4-Chlorotoluene
Concen: 19.786 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion: 91 Resp: 94815

Ion	Ratio	Lower	Upper
91	100		
126	28.0	0.0	58.0





#79
tert-butylbenzene
Concen: 20.210 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion:119 Resp: 10038

Ion	Ratio	Lower	Upper
119	100		
91	62.7	0.0	120.6
134	23.4	0.0	48.2

Instrument :
MSVOA_X
ClientSampleId :
VX0319WBS01

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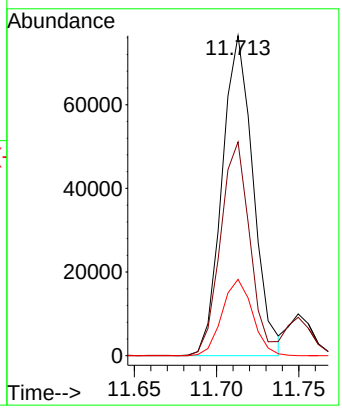
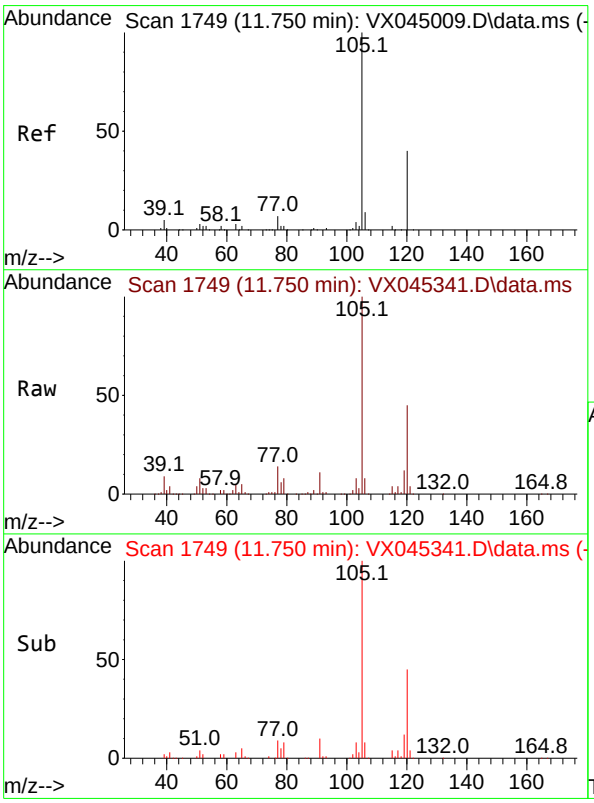
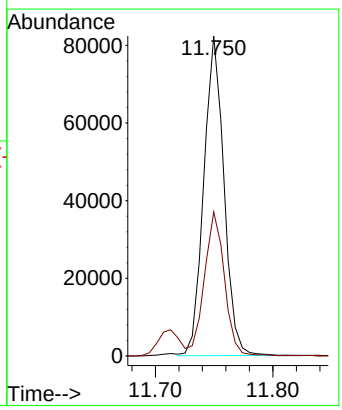


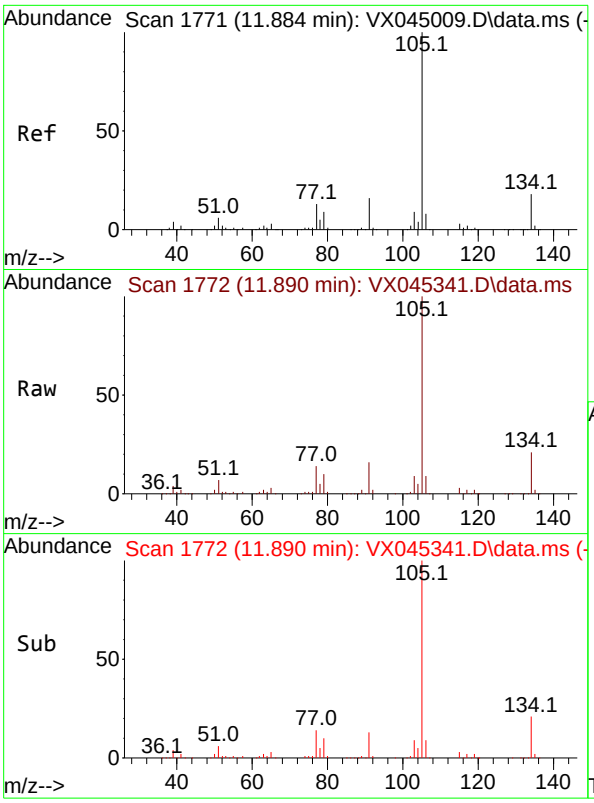


#80
1,2,4-Trimethylbenzene
Concen: 19.793 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion:105 Resp: 97734

Ion	Ratio	Lower	Upper
105	100		
120	45.1	0.0	88.4





#81
sec-Butylbenzene
Concen: 20.164 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion:105 Resp: 12569

Ion	Ratio	Lower	Upper
105	100		
134	20.0	0.0	39.0

Instrument :
MSVOA_X
ClientSampleId :
VX0319WBS01

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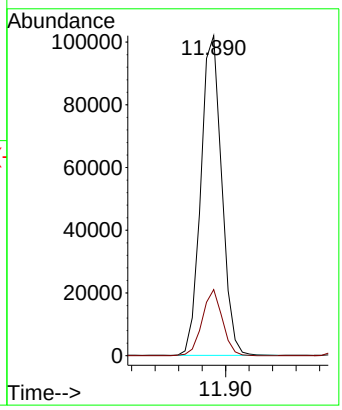
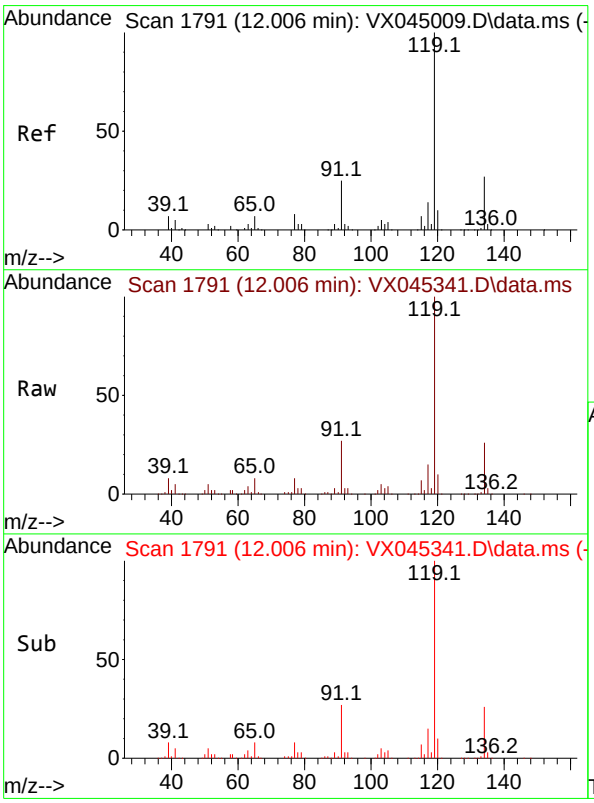
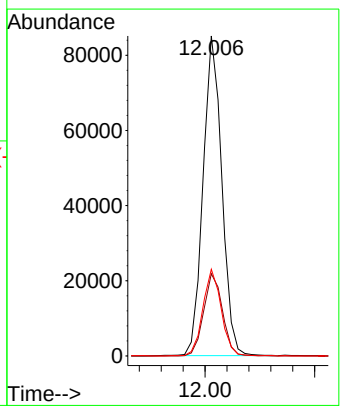


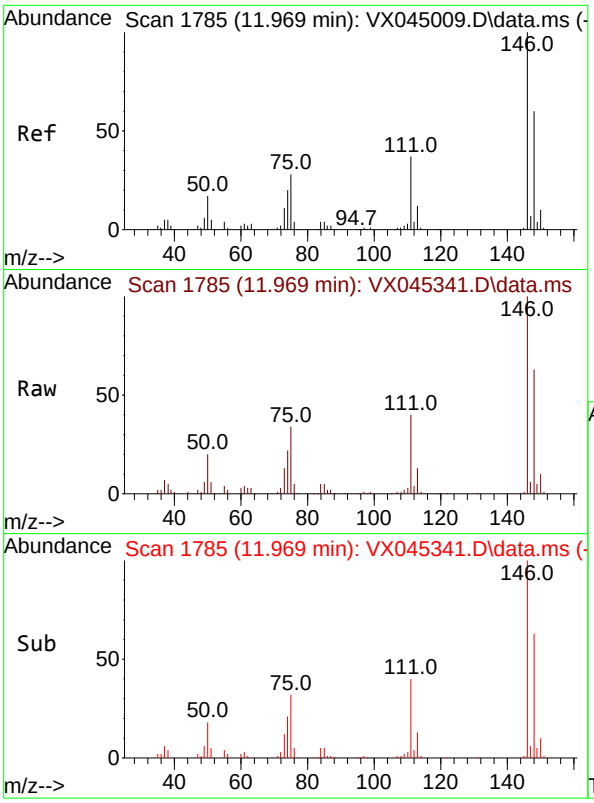


#82
p-Isopropyltoluene
Concen: 19.964 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion:119 Resp: 100832

Ion	Ratio	Lower	Upper
119	100		
134	25.8	0.0	52.6
91	26.5	0.0	51.0

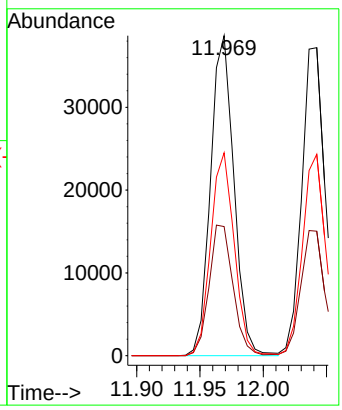




#83
1,3-Dichlorobenzene
Concen: 19.427 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion:146 Resp: 4971

Ion	Ratio	Lower	Upper
146	100		
111	41.7	20.2	60.5
148	63.9	31.2	93.6



Instrument :
MSVOA_X
ClientSampleId :
VX0319WBS01

Manual Integrations
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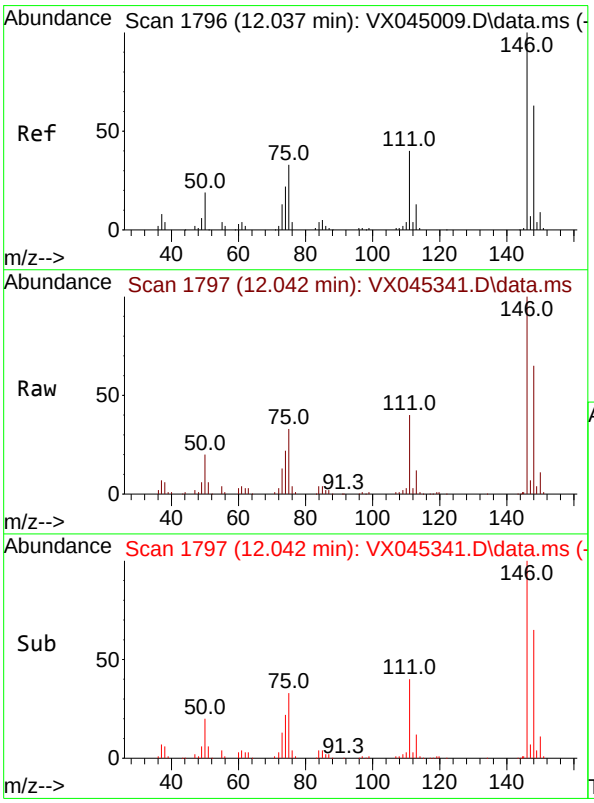
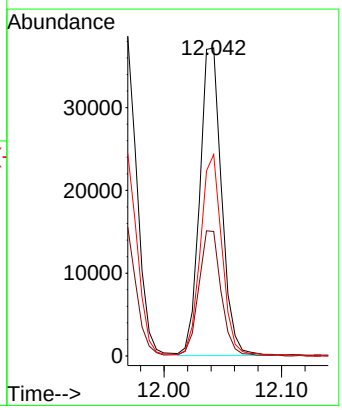
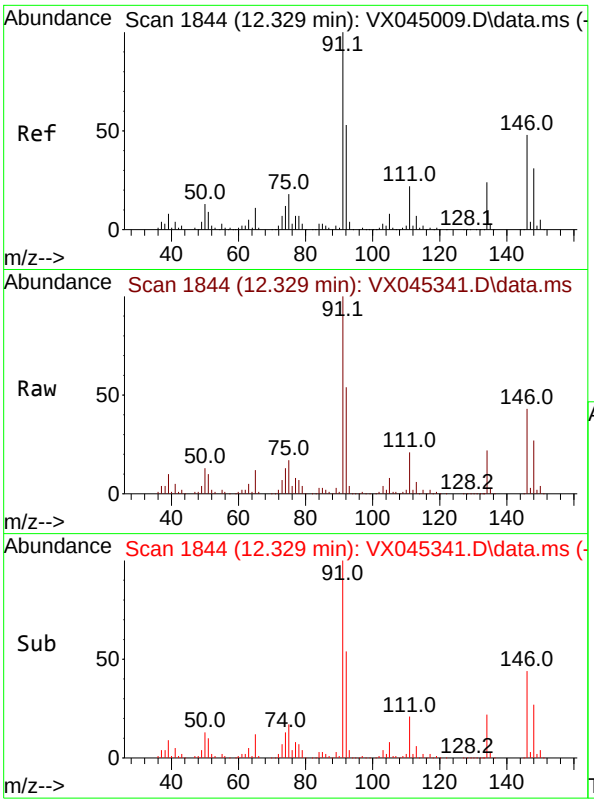


#84
1,4-Dichlorobenzene
Concen: 19.039 ug/l
RT: 12.042 min Scan# 1797
Delta R.T. 0.006 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion:146 Resp: 48044

Ion	Ratio	Lower	Upper
146	100		
111	41.7	20.4	61.2
148	64.8	31.8	95.4





#85
n-Butylbenzene
Concen: 19.419 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

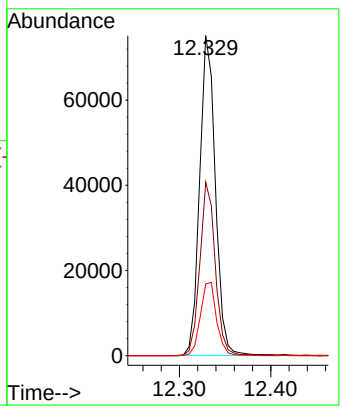
Tgt Ion: 91 Resp: 8956

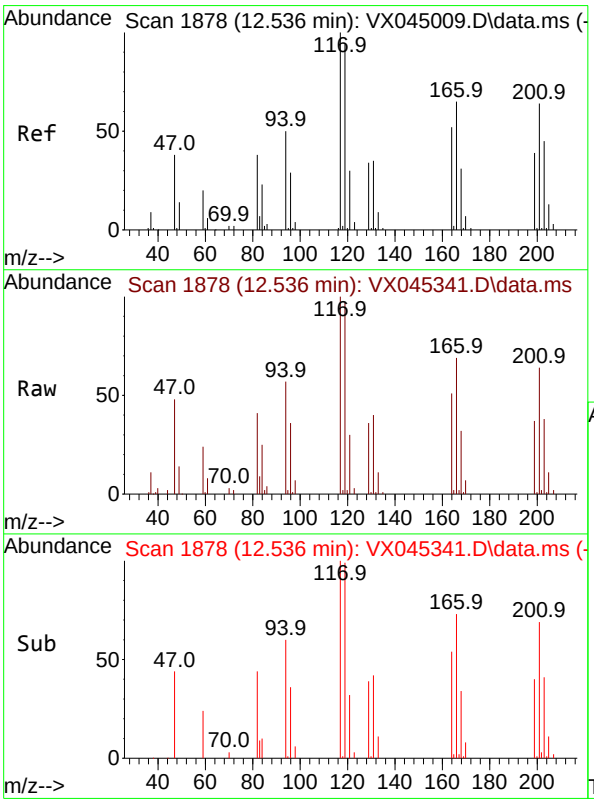
Ion	Ratio	Lower	Upper
91	100		
92	53.2	0.0	105.2
134	23.6	0.0	49.4

Instrument :
MSVOA_X
ClientSampleId :
VX0319WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/20/2025
Supervised By :Mahesh Dadoda 03/20/2025

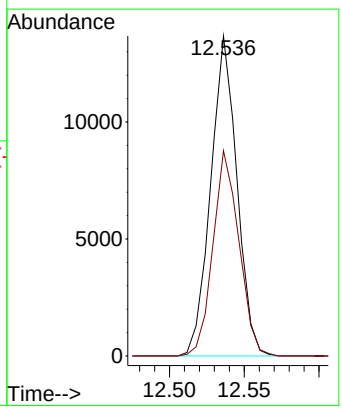


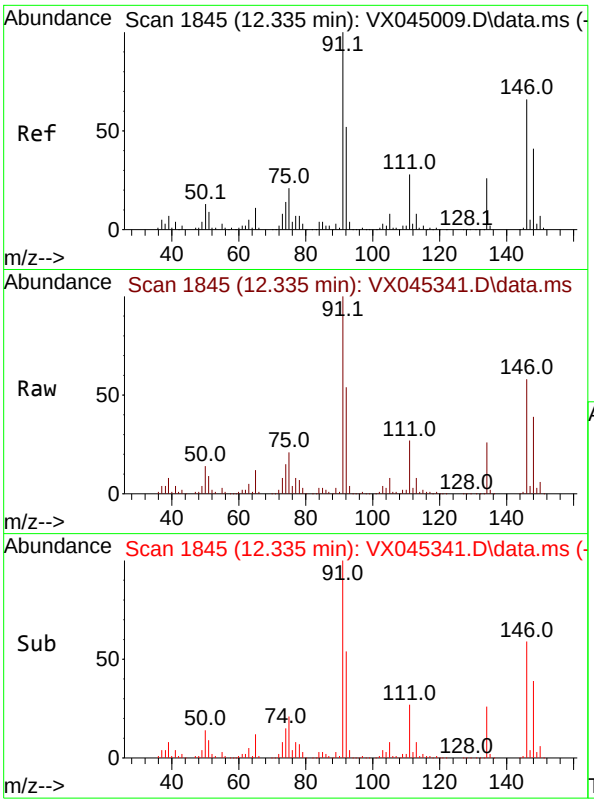


#86
Hexachloroethane
Concen: 18.710 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion:117 Resp: 16666

Ion	Ratio	Lower	Upper
117	100		
201	63.7	32.6	97.7

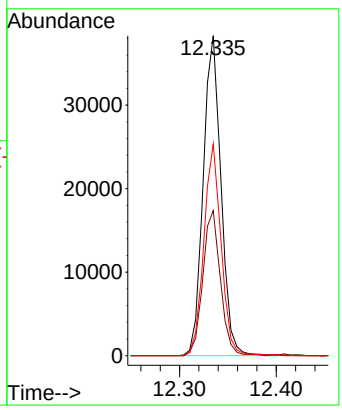




#87
1,2-Dichlorobenzene
Concen: 19.590 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion:146 Resp: 4919

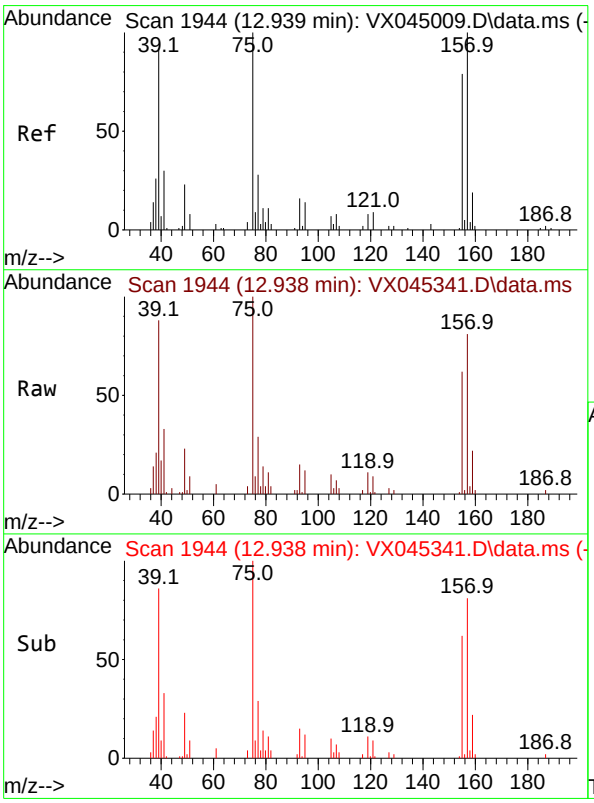
Ion	Ratio	Lower	Upper
146	100		
111	44.6	21.7	65.1
148	63.9	31.8	95.4



Instrument :
MSVOA_X
ClientSampleId :
VX0319WBS01

Manual Integrations
APPROVED

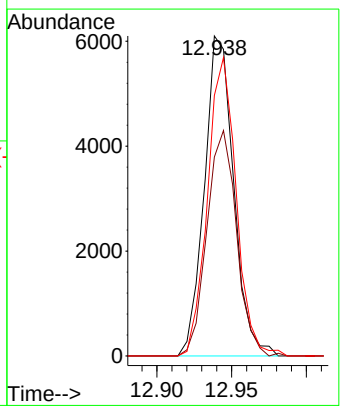
Reviewed By :John Carlone 03/20/2025
Supervised By :Mahesh Dadoda 03/20/2025

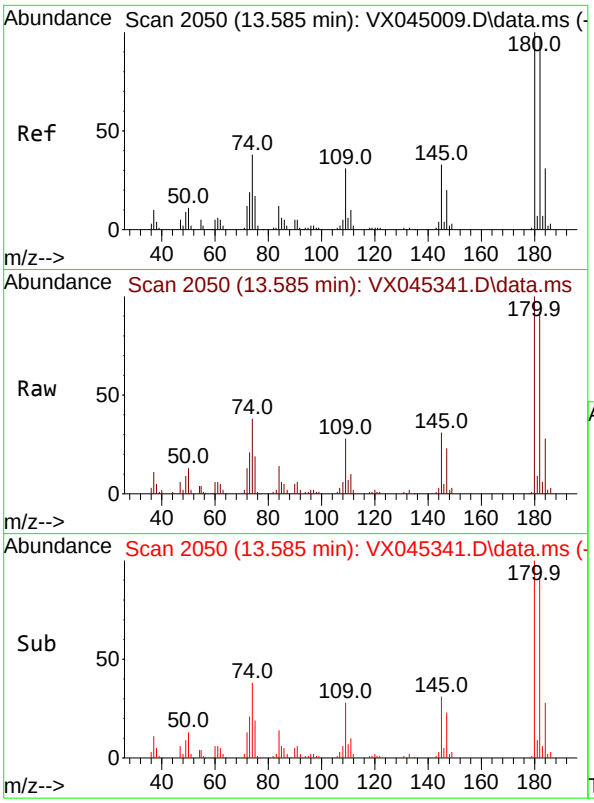


#88
1,2-Dibromo-3-Chloropropane
Concen: 21.886 ug/l
RT: 12.938 min Scan# 1944
Delta R.T. -0.000 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion: 75 Resp: 8326

Ion	Ratio	Lower	Upper
75	100		
155	70.9	66.2	99.4
157	90.7	81.4	122.2

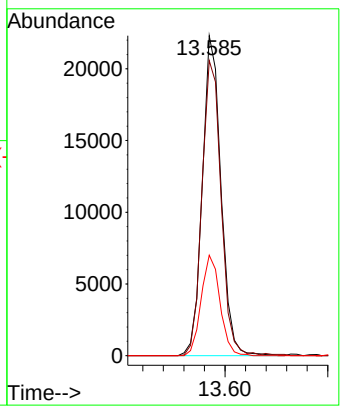




#89
1,2,4-Trichlorobenzene
Concen: 18.473 ug/l
RT: 13.585 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion:180 Resp: 2811

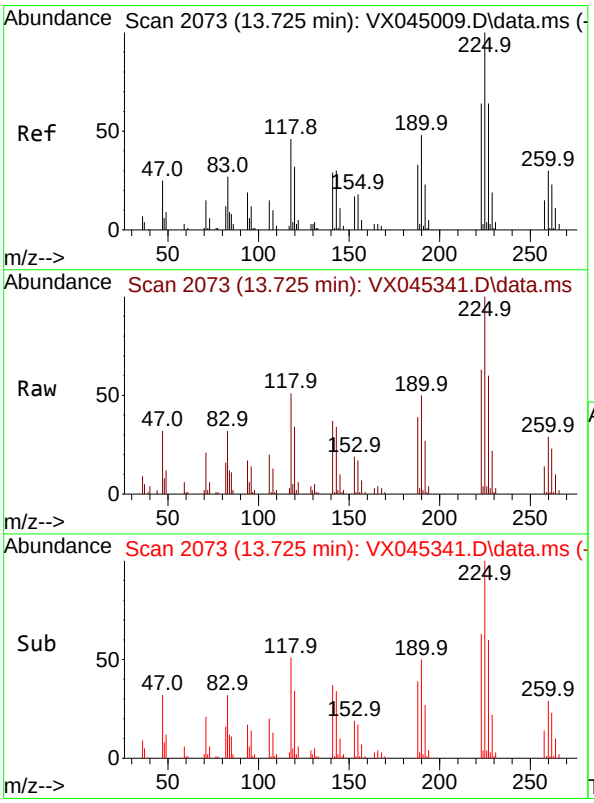
Ion	Ratio	Lower	Upper
180	100		
182	94.4	77.7	116.5
145	31.7	25.8	38.6



Instrument :
MSVOA_X
ClientSampleId :
VX0319WBS01

Manual Integrations
APPROVED

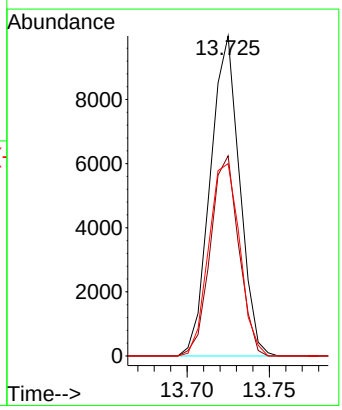
Reviewed By :John Carlone 03/20/2025
Supervised By :Mahesh Dadoda 03/20/2025

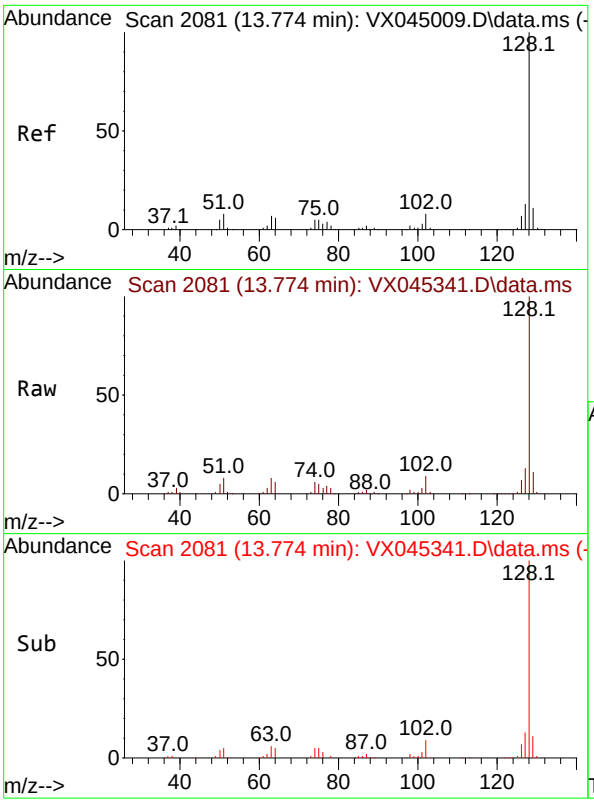


#90
Hexachlorobutadiene
Concen: 19.946 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion:225 Resp: 12380

Ion	Ratio	Lower	Upper
225	100		
223	60.6	0.0	123.4
227	63.6	0.0	127.4

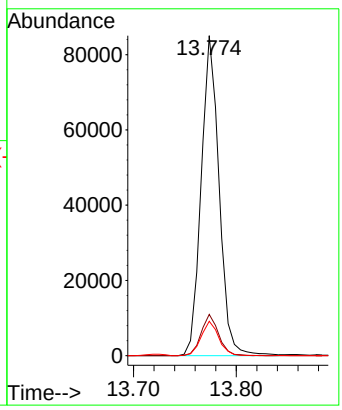




#91
Naphthalene
Concen: 19.257 ug/l
RT: 13.774 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion:128 Resp: 10334

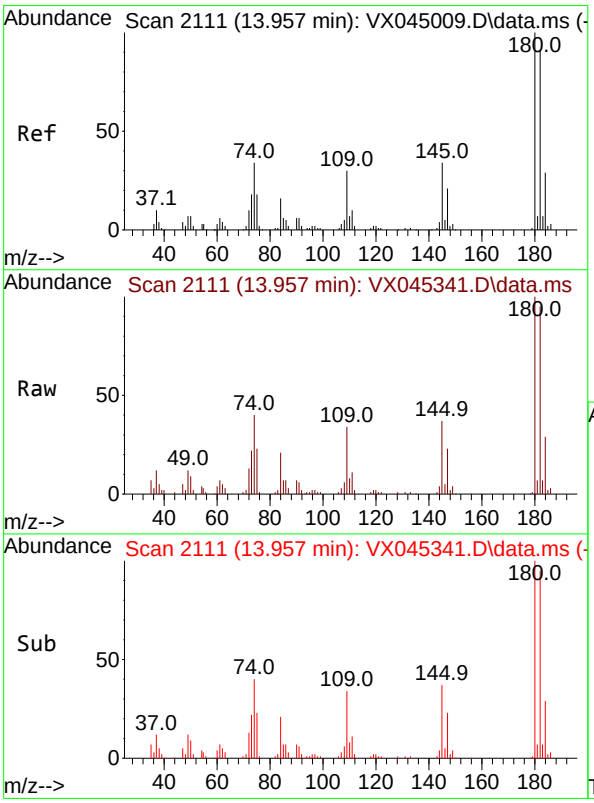
Ion	Ratio	Lower	Upper
128	100		
127	12.5	10.5	15.7
129	10.6	8.7	13.1



Instrument :
MSVOA_X
ClientSampleId :
VX0319WBS01

Manual Integrations
APPROVED

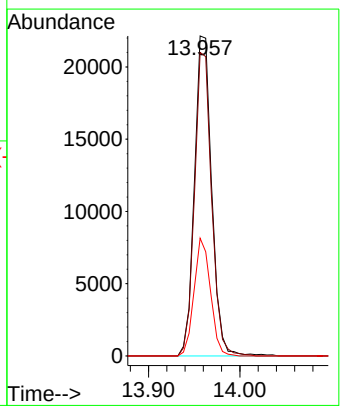
Reviewed By :John Carlone 03/20/2025
Supervised By :Mahesh Dadoda 03/20/2025



#92
1,2,3-Trichlorobenzene
Concen: 18.620 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VX045341.D
Acq: 19 Mar 2025 11:41

Tgt Ion:180 Resp: 29175

Ion	Ratio	Lower	Upper
180	100		
182	93.7	0.0	186.6
145	34.9	0.0	68.4



Raw Data: **VX045342.D**

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:	VX0319WBSD01	SDG No.:	Q1502
Lab Sample ID:	VX0319WBSD01	Matrix:	Water
Analytical Method:	E624.1	% 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:	Prep Date	Date Analyzed	Prep Batch ID
VX045342.D	1		03/19/25 12:15	VX031925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	15.1		0.77	5.00	ug/L
74-87-3	Chloromethane	15.4		0.64	5.00	ug/L
75-01-4	Vinyl Chloride	14.4		0.83	5.00	ug/L
74-83-9	Bromomethane	19.4		0.80	5.00	ug/L
75-00-3	Chloroethane	15.0		2.30	5.00	ug/L
75-69-4	Trichlorofluoromethane	16.0		0.80	5.00	ug/L
75-35-4	1,1-Dichloroethene	16.3		0.76	5.00	ug/L
107-02-8	Acrolein	88.7		6.60	25.0	ug/L
107-13-1	Acrylonitrile	110		2.80	25.0	ug/L
67-64-1	Acetone	100		4.60	25.0	ug/L
75-15-0	Carbon Disulfide	13.5		0.82	5.00	ug/L
1634-04-4	Methyl tert-Butyl Ether	18.6		0.77	5.00	ug/L
75-09-2	Methylene Chloride	17.8		0.86	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	16.7		0.82	5.00	ug/L
108-05-4	Vinyl Acetate	98.5		3.20	25.0	ug/L
75-34-3	1,1-Dichloroethane	17.9		0.68	5.00	ug/L
78-93-3	2-Butanone	120		2.00	25.0	ug/L
56-23-5	Carbon Tetrachloride	19.8		0.74	5.00	ug/L
594-20-7	2,2-Dichloropropane	18.0		0.66	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	17.3		0.80	5.00	ug/L
67-66-3	Chloroform	19.1		0.55	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	20.0		0.63	5.00	ug/L
563-58-6	1,1-Dichloropropene	19.0		0.63	5.00	ug/L
71-43-2	Benzene	19.3		0.45	5.00	ug/L
107-06-2	1,2-Dichloroethane	22.7		0.50	5.00	ug/L
79-01-6	Trichloroethene	18.6		0.49	5.00	ug/L
78-87-5	1,2-Dichloropropane	19.4		0.46	5.00	ug/L
74-95-3	Dibromomethane	21.4		0.59	5.00	ug/L
75-27-4	Bromodichloromethane	20.7		0.64	5.00	ug/L
108-10-1	4-Methyl-2-Pentanone	120		3.00	25.0	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:	VX0319WBSD01	SDG No.:	Q1502
Lab Sample ID:	VX0319WBSD01	Matrix:	Water
Analytical Method:	E624.1	% 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:	Prep Date	Date Analyzed	Prep Batch ID
VX045342.D	1		03/19/25 12:15	VX031925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
108-88-3	Toluene	18.4		0.46	5.00	ug/L
10061-02-6	t-1,3-Dichloropropene	18.4		0.72	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	19.4		0.67	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	20.8		0.45	5.00	ug/L
142-28-9	1,3-Dichloropropane	21.4		0.44	5.00	ug/L
110-75-8	2-Chloroethyl vinyl ether	120		4.60	25.0	ug/L
591-78-6	2-Hexanone	120		3.20	25.0	ug/L
124-48-1	Dibromochloromethane	20.3		0.66	5.00	ug/L
106-93-4	1,2-Dibromoethane	21.8		0.56	5.00	ug/L
127-18-4	Tetrachloroethene	18.9		0.84	5.00	ug/L
108-90-7	Chlorobenzene	19.0		0.47	5.00	ug/L
630-20-6	1,1,1,2-Tetrachloroethane	18.9		0.62	5.00	ug/L
67-72-1	Hexachloroethane	17.9		0.98	5.00	ug/L
100-41-4	Ethyl Benzene	18.7		0.56	5.00	ug/L
179601-23-1	m/p-Xylenes	37.7		1.30	10.0	ug/L
1330-20-7	Total Xylenes	56.6		1.97	15.0	ug/L
95-47-6	o-Xylene	18.9		0.67	5.00	ug/L
100-42-5	Styrene	19.1		0.72	5.00	ug/L
75-25-2	Bromoform	20.7		0.94	5.00	ug/L
98-82-8	Isopropylbenzene	19.3		0.78	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	21.4		0.44	5.00	ug/L
96-18-4	1,2,3-Trichloropropane	21.2		0.62	5.00	ug/L
108-86-1	Bromobenzene	19.4		0.59	5.00	ug/L
103-65-1	n-propylbenzene	18.9		0.67	5.00	ug/L
95-49-8	2-Chlorotoluene	19.3		0.64	5.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	19.3		0.59	5.00	ug/L
106-43-4	4-Chlorotoluene	19.0		0.62	5.00	ug/L
98-06-6	tert-butylbenzene	19.2		0.71	5.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	19.3		0.77	5.00	ug/L
135-98-8	sec-Butylbenzene	19.5		0.64	5.00	ug/L
99-87-6	p-Isopropyltoluene	19.1		0.70	5.00	ug/L

Raw Data: **VX045342.D**

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:	VX0319WBSD01	SDG No.:	Q1502
Lab Sample ID:	VX0319WBSD01	Matrix:	Water
Analytical Method:	E624.1	% 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:	Prep Date	Date Analyzed	Prep Batch ID
VX045342.D	1		03/19/25 12:15	VX031925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
541-73-1	1,3-Dichlorobenzene	18.9		0.67	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.0		0.81	5.00	ug/L
104-51-8	n-Butylbenzene	18.2		0.82	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	18.9		0.67	5.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	21.6		0.86	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	17.7		1.00	5.00	ug/L
87-68-3	Hexachlorobutadiene	19.3		0.68	5.00	ug/L
91-20-3	Naphthalene	19.1		1.00	5.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	17.7		1.10	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	31.9		91 - 110	106%	SPK: 30
2037-26-5	Toluene-d8	29.6		91 - 112	99%	SPK: 30
460-00-4	4-Bromofluorobenzene	30.5		63 - 112	102%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	15400	4.885			
540-36-3	1,4-Difluorobenzene	77100	6.757			
3114-55-4	Chlorobenzene-d5	74500	10.049			
74-97-5	Bromochloromethane	15400	4.885			

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\VX031925\
Data File : VX045342.D
Acq On : 19 Mar 2025 12:15
Operator : JC/MD
Sample : VX0319WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 20 01:32:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X022125W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Feb 22 01:06:36 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0319WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 03/20/2025
Supervised By :Mahesh Dadoda 03/20/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	4.885	128	15405	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	77122	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.049	117	74535	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.946	65	47760	31.920	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 106.400%			
60) 4-Bromofluorobenzene	11.079	95	42472	30.486	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 101.633%			
63) Toluene-d8	8.647	98	121913	29.566	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 98.567%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	19620	15.108	ug/l	90
3) Chloromethane	1.307	50	23956	15.402	ug/l	96
4) Vinyl Chloride	1.374	62	21621	14.406	ug/l	99
5) Bromomethane	1.593	94	10158	19.443	ug/l	98
6) Chloroethane	1.666	64	12210	15.021	ug/l	96
7) Trichlorofluoromethane	1.873	101	32316	16.020	ug/l	94
8) Diethyl Ether	2.130	74	11747	15.391	ug/l	93
9) 1,1,2-Trichlorotrifluo...	2.312	101	21264	17.748	ug/l	96
10) 1,1-Dichloroethene	2.306	96	19053	16.281	ug/l #	82
11) Methyl Iodide	2.440	142	24157	18.239	ug/l	100
12) Methyl Acetate	2.703	43	42810	31.503	ug/l	99
13) Acrolein	2.233	56	24161	88.702	ug/l	97
14) Acrylonitrile	3.062	53	71203	107.270	ug/l	99
15) Acetone	2.386	58	18620	102.282	ug/l	91
16) Carbon Disulfide	2.501	76	44896	13.526	ug/l	98
17) Allyl chloride	2.654	41	37581	17.170	ug/l	97
18) Methylene Chloride	2.782	84	23434	17.804	ug/l	97
19) trans-1,2-Dichloroethene	3.081	96	19804	16.727	ug/l	87
20) Diisopropyl ether	3.757	45	75506	17.952	ug/l	91
21) 1,1-Dichloroethane	3.599	63	41777	17.860	ug/l	99
22) cis-1,2-Dichloroethene	4.477	96	24514	17.278	ug/l	95
23) tert-Butyl Alcohol	2.977	59	21261	91.751	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	71024	18.595	ug/l	95
25) Chloroform	5.086	83	43100	19.076	ug/l	99
26) Cyclohexane	5.452	56	35407	16.398	ug/l #	99
29) 1,1-Dichloropropene	5.684	75	26888	18.953	ug/l	99
30) 2-Butanone	4.556	43	97680	119.206	ug/l	98
31) 2,2-Dichloropropane	4.464	77	28902	18.017	ug/l	99
32) 1,1,1-Trichloroethane	5.373	97	34301	19.955	ug/l	97
33) Carbon Tetrachloride	5.665	117	28765	19.829	ug/l	98
34) Benzene	6.031	78	86029	19.337	ug/l	99
35) Methacrylonitrile	4.916	41	20551	23.437	ug/l	99
36) 1,2-Dichloroethane	6.080	62	34623	22.731	ug/l	97
37) Trichloroethene	7.116	130	19370	18.610	ug/l	85
38) Methylcyclohexane	7.372	83	34492	18.107	ug/l	99
39) 1,2-Dichloropropane	7.427	63	21512	19.449	ug/l	97
40) Dibromomethane	7.574	93	16975	21.387	ug/l	98
41) Bromodichloromethane	7.818	83	32598	20.664	ug/l	98
42) Vinyl Acetate	3.715	43	313074	98.457	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX031925\
Data File : VX045342.D
Acq On : 19 Mar 2025 12:15
Operator : JC/MD
Sample : VX0319WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 20 01:32:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X022125W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Feb 22 01:06:36 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0319WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 03/20/2025
Supervised By :Mahesh Dadoda 03/20/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.714	43	33656	21.902	ug/l	99
44) Isopropyl Acetate	6.336	43	54315	21.475	ug/l	98
45) 1,4-Dioxane	7.659	88	10325	392.707	ug/l	98
46) Methyl methacrylate	7.690	41	27912	22.506	ug/l	96
47) n-amyl Acetate	10.841	43	45053	20.528	ug/l	100
48) t-1,3-Dichloropropene	8.976	75	27952	18.383	ug/l	98
49) cis-1,3-Dichloropropene	8.360	75	33368	19.386	ug/l	95
50) 1,1,2-Trichloroethane	9.147	97	21519	20.785	ug/l	96
51) Ethyl methacrylate	9.116	69	35521	21.816	ug/l	97
52) 1,3-Dichloropropane	9.305	76	38794	21.385	ug/l	99
53) Dibromochloromethane	9.518	129	23254	20.309	ug/l	95
54) 1,2-Dibromoethane	9.610	107	22899	21.782	ug/l	98
55) 2-Chloroethyl vinyl ether	8.238	63	97308	116.377	ug/l	100
56) Bromoform	10.799	173	14853	20.701	ug/l	96
58) 4-Methyl-2-Pentanone	8.567	43	197562	116.520	ug/l	98
59) 2-Hexanone	9.427	43	143492	117.085	ug/l	98
61) Tetrachloroethene	9.268	164	17338	18.890	ug/l	100
62) Toluene	8.714	91	90934	18.417	ug/l	99
64) Chlorobenzene	10.079	112	58036	18.969	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.159	131	19074	18.893	ug/l	98
66) Ethyl Benzene	10.189	91	100826	18.652	ug/l	97
67) m/p-Xylenes	10.299	106	76026	37.748	ug/l	98
68) o-Xylene	10.640	106	37375	18.914	ug/l	97
69) Styrene	10.652	104	63021	19.095	ug/l	98
70) Isopropylbenzene	10.957	105	98479	19.312	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.207	83	35961	21.445	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	29280m	21.229	ug/l	
73) Bromobenzene	11.195	156	22829	19.446	ug/l	98
74) n-propylbenzene	11.299	91	114810	18.919	ug/l	99
75) 2-Chlorotoluene	11.360	91	70623	19.250	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	81283	19.321	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	8305	17.897	ug/l	73
78) 4-Chlorotoluene	11.451	91	77762	19.014	ug/l	98
79) tert-butylbenzene	11.713	119	81369	19.196	ug/l	98
80) 1,2,4-Trimethylbenzene	11.750	105	81476	19.334	ug/l	99
81) sec-Butylbenzene	11.890	105	103882	19.527	ug/l	98
82) p-Isopropyltoluene	12.006	119	82311	19.096	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	41173	18.850	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	40932	19.006	ug/l	99
85) n-Butylbenzene	12.329	91	71547	18.177	ug/l	99
86) Hexachloroethane	12.536	117	13631	17.931	ug/l	96
87) 1,2-Dichlorobenzene	12.335	146	40418	18.859	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	12.939	75	7027	21.644	ug/l	94
89) 1,2,4-Trichlorobenzene	13.585	180	23006	17.712	ug/l	97
90) Hexachlorobutadiene	13.725	225	10215	19.284	ug/l	99
91) Naphthalene	13.774	128	87558	19.117	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	23693	17.718	ug/l	98

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

Sample Results: **VX045342.D**

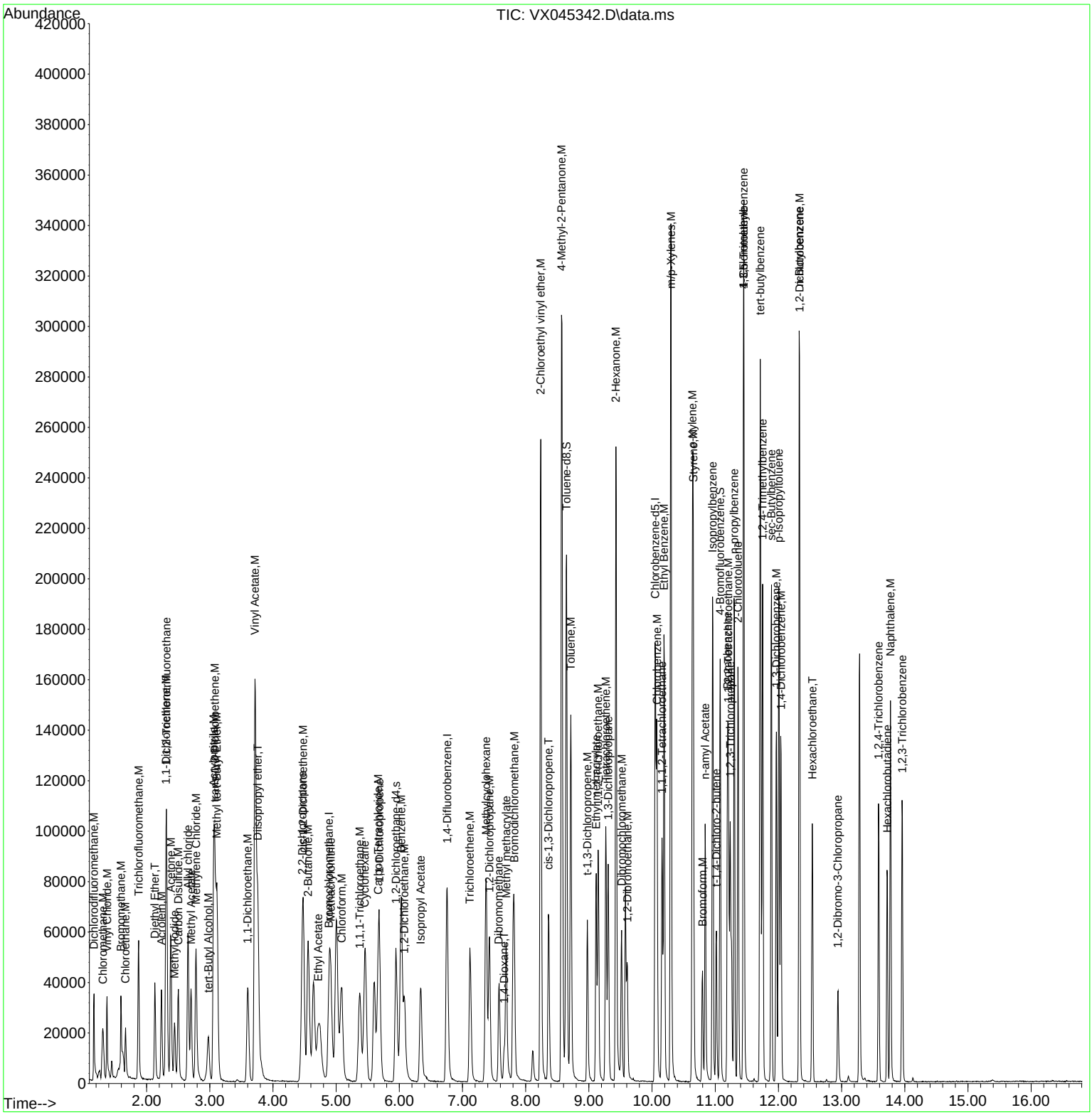
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX031925\
Data File : VX045342.D
Acq On : 19 Mar 2025 12:15
Operator : JC/MD
Sample : VX0319WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

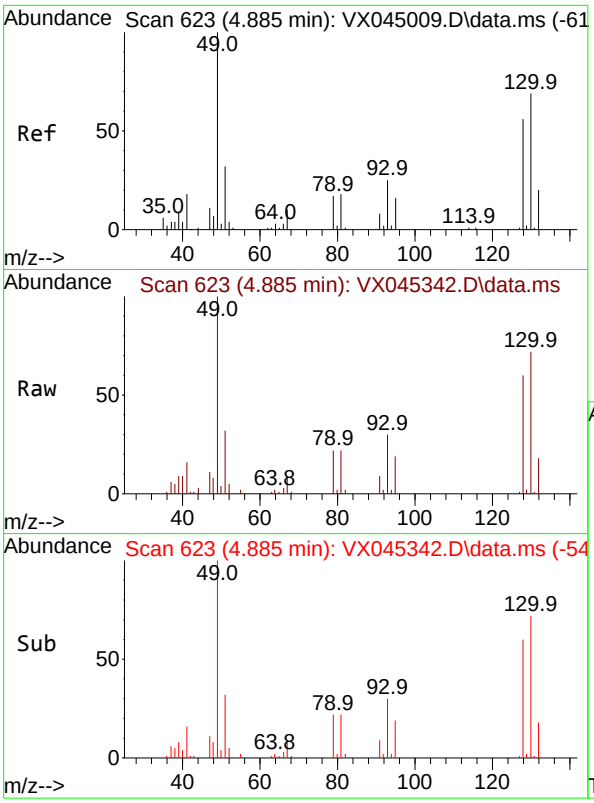
Quant Time: Mar 20 01:32:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X022125W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Feb 22 01:06:36 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0319WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 03/20/2025
Supervised By :Mahesh Dadoda 03/20/2025

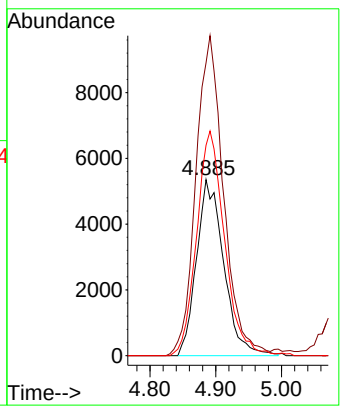




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.885 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion:128 Resp: 1540

Ion	Ratio	Lower	Upper
128	100		
49	185.0	0.0	449.7
130	130.1	0.0	312.7



Instrument :
MSVOA_X
ClientSampleId :
VX0319WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/20/2025
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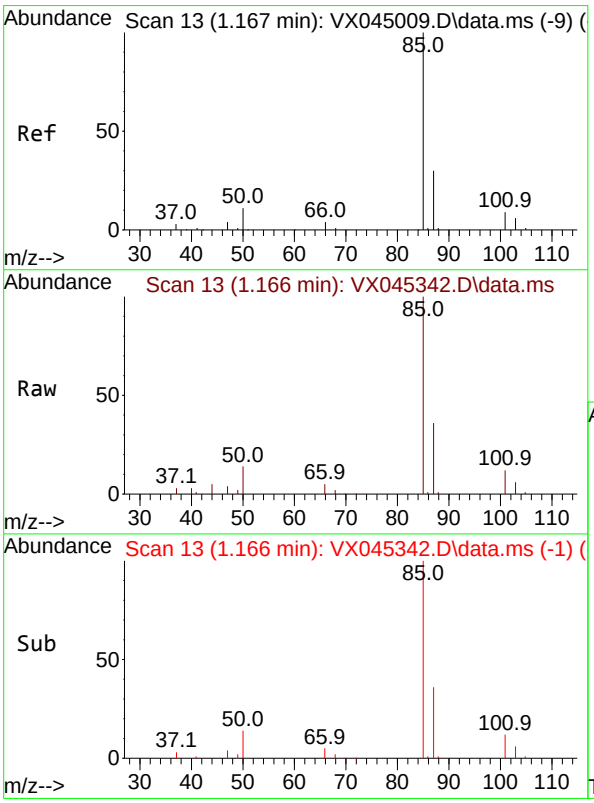
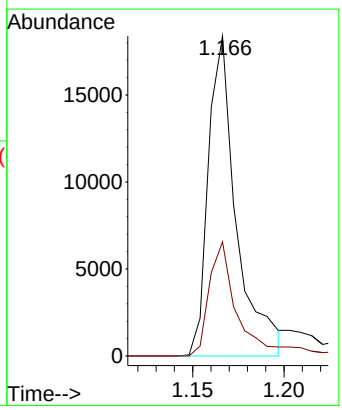
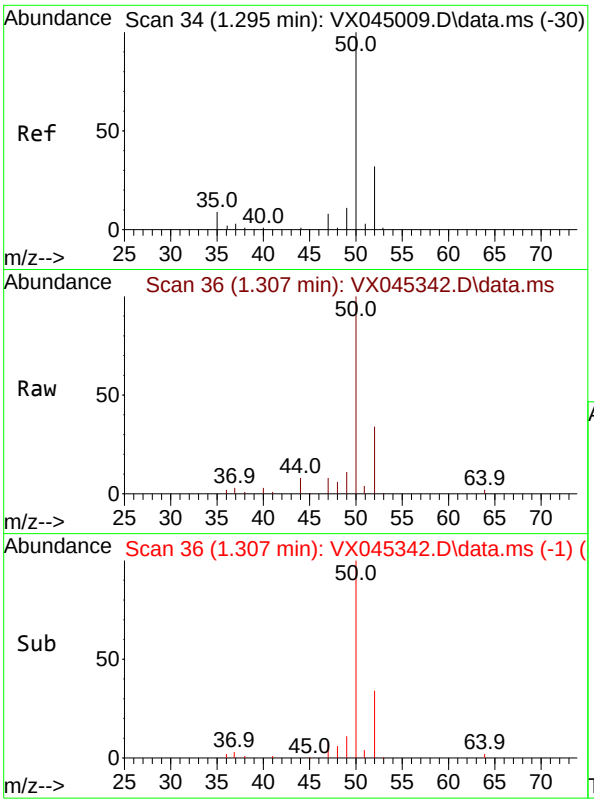


#2
Dichlorodifluoromethane
Concen: 15.108 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion: 85 Resp: 19620

Ion	Ratio	Lower	Upper
85	100		
87	35.6	15.1	45.3

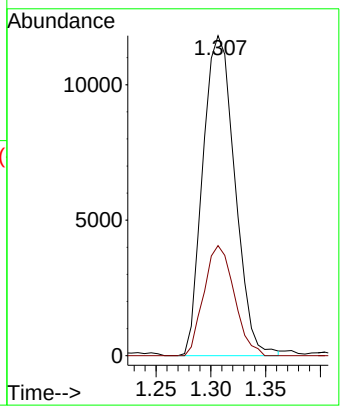




#3
Chloromethane
Concen: 15.402 ug/l
RT: 1.307 min Scan# 3(
Delta R.T. 0.012 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion: 50 Resp: 2395(

Ion	Ratio	Lower	Upper
50	100		
52	34.4	25.7	38.5



Instrument :
MSVOA_X
ClientSampleId :
VX0319WBSD01

Manual Integrations
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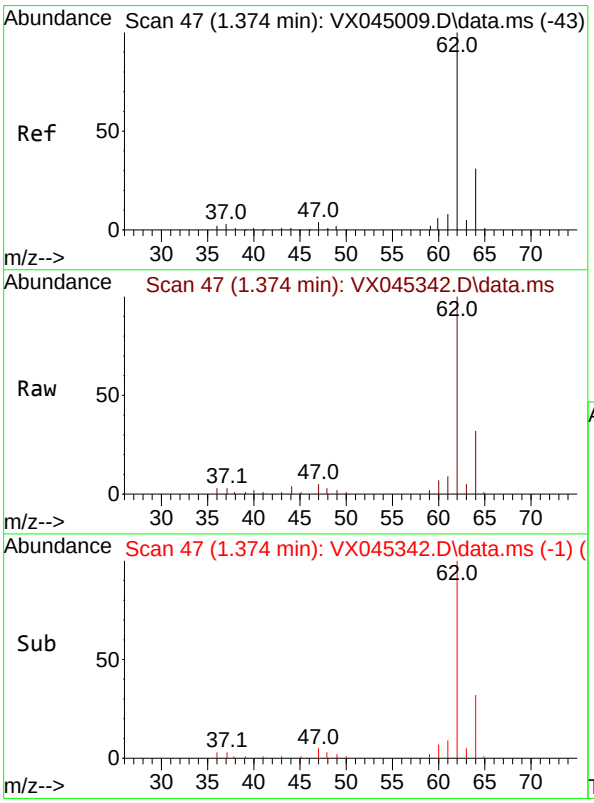
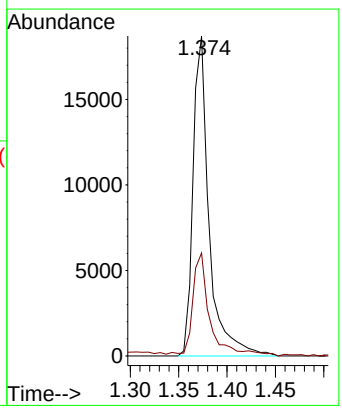
Reviewed By :John Carlone 03/20/2025
Supervised By :Mahesh Dadoda 03/20/2025

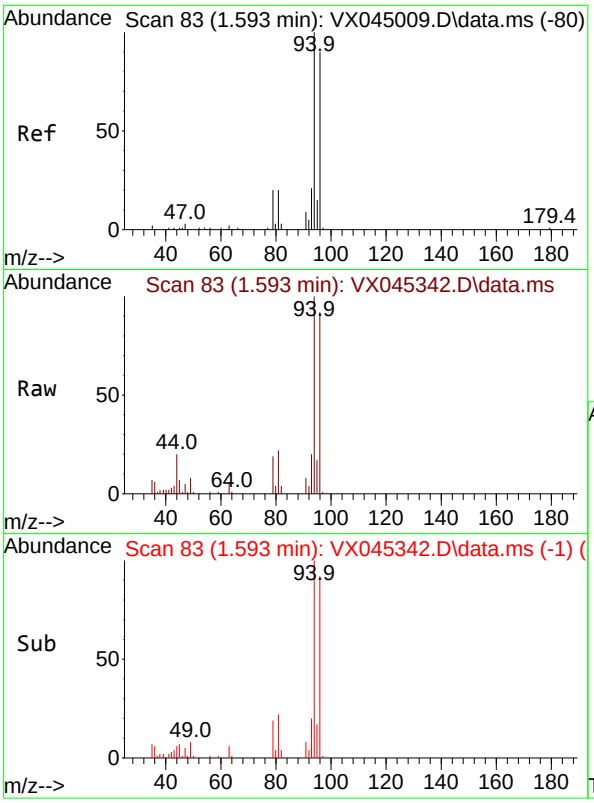


#4
Vinyl Chloride
Concen: 14.406 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion: 62 Resp: 21621

Ion	Ratio	Lower	Upper
62	100		
64	32.2	25.1	37.7

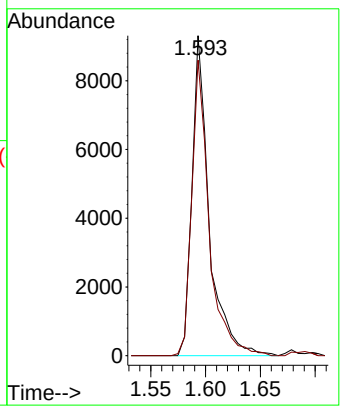




#5
Bromomethane
Concen: 19.443 ug/l
RT: 1.593 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion: 94 Resp: 1015

Ion	Ratio	Lower	Upper
94	100		
96	92.4	72.2	108.4



Instrument :
MSVOA_X
ClientSampleId :
VX0319WBSD01

Manual Integrations
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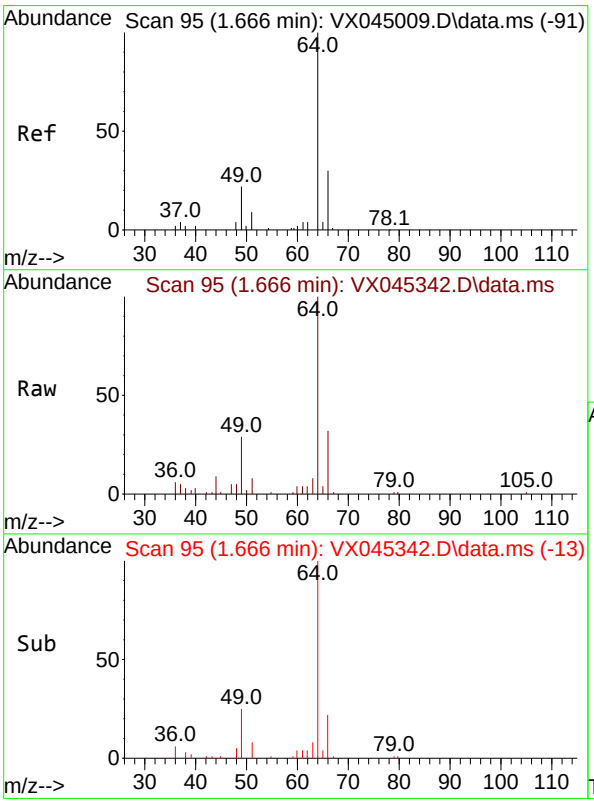
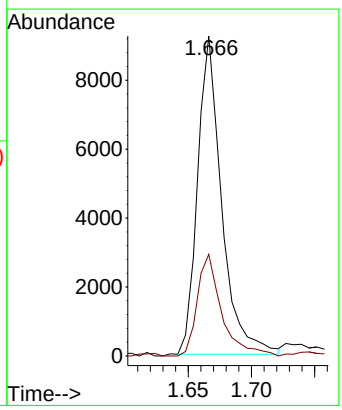
Reviewed By :John Carlone 03/20/2025
Supervised By :Mahesh Dadoda 03/20/2025

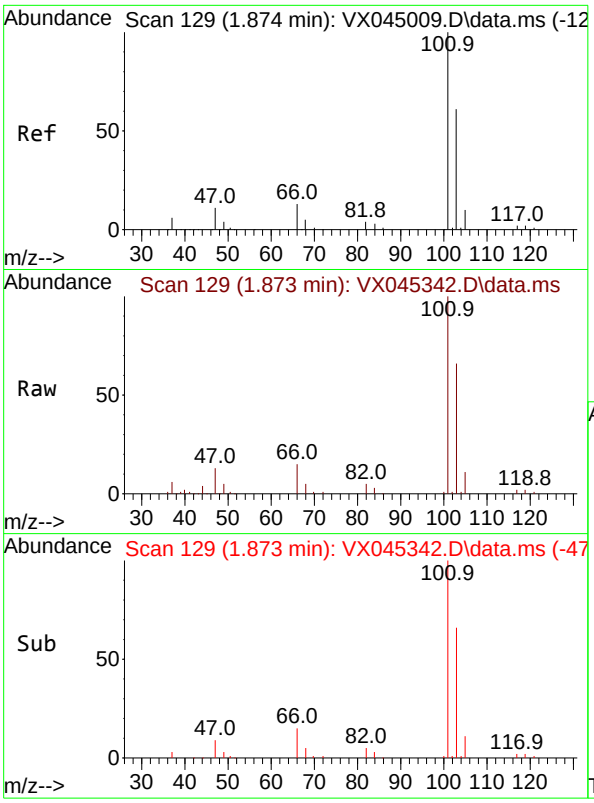


#6
Chloroethane
Concen: 15.021 ug/l
RT: 1.666 min Scan# 95
Delta R.T. -0.000 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion: 64 Resp: 12210

Ion	Ratio	Lower	Upper
64	100		
66	31.9	23.7	35.5





#7
Trichlorofluoromethane
Concen: 16.020 ug/l
RT: 1.873 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

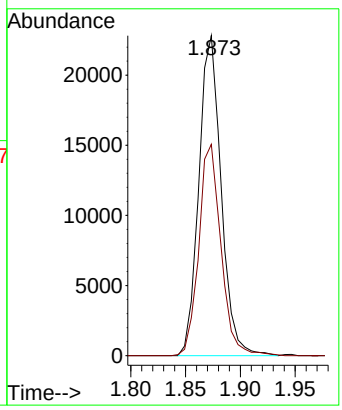
Tgt Ion:101 Resp: 3231

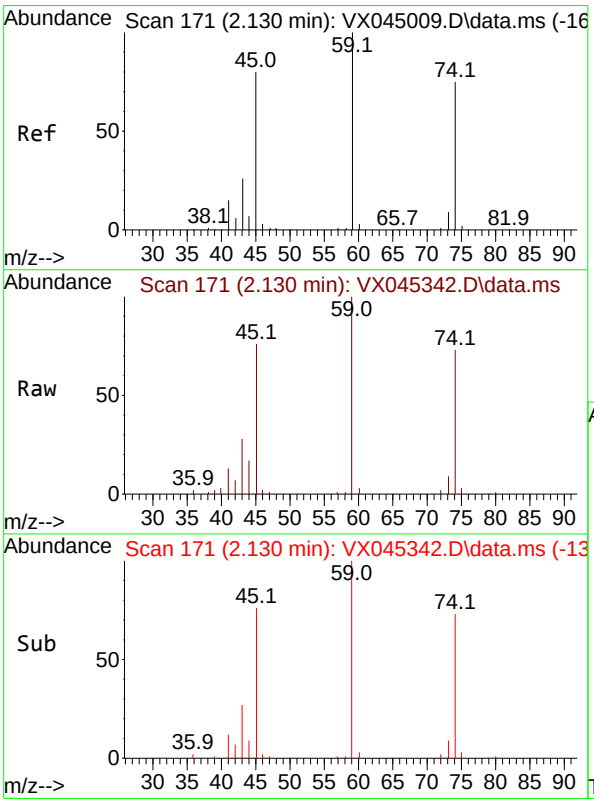
Ion	Ratio	Lower	Upper
101	100		
103	65.8	48.8	73.2

Instrument :
MSVOA_X
ClientSampleId :
VX0319WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/20/2025
Supervised By :Mahesh Dadoda 03/20/2025

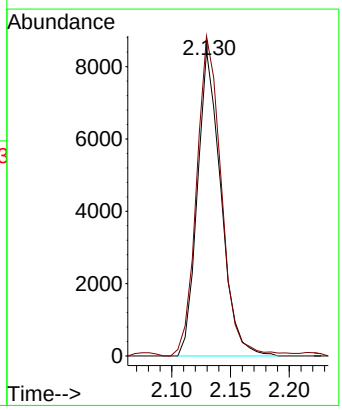


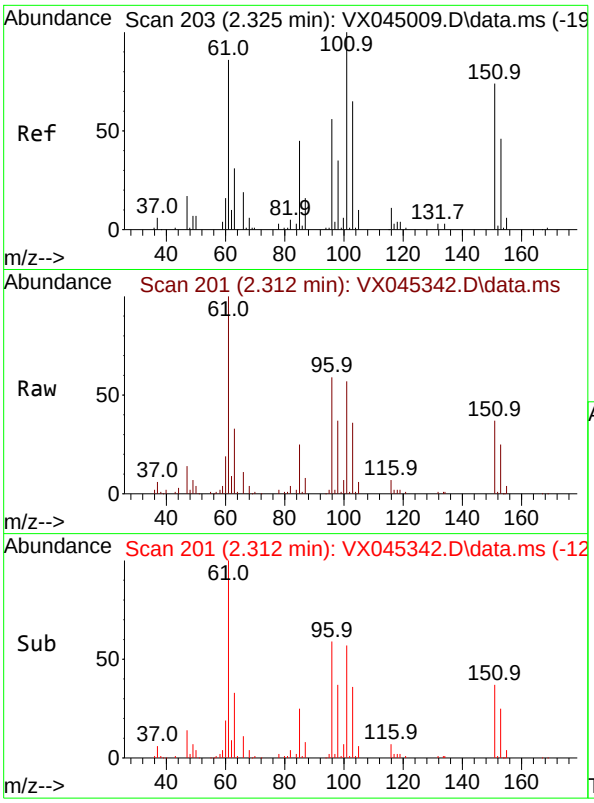


#8
Diethyl Ether
Concen: 15.391 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.000 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion: 74 Resp: 11747

Ion	Ratio	Lower	Upper
74	100		
45	110.8	20.8	186.8





#9
1,1,2-Trichlorotrifluoroethane
Concen: 17.748 ug/l
RT: 2.312 min Scan# 2
Delta R.T. -0.012 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion:101 Resp: 2126

Ion	Ratio	Lower	Upper
101	100		
85	46.0	0.0	90.6
151	68.9	0.0	147.6

Instrument :
MSVOA_X
ClientSampleId :
VX0319WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/20/2025
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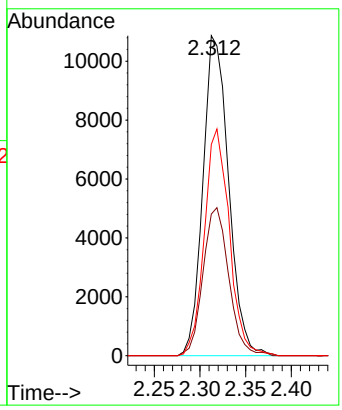
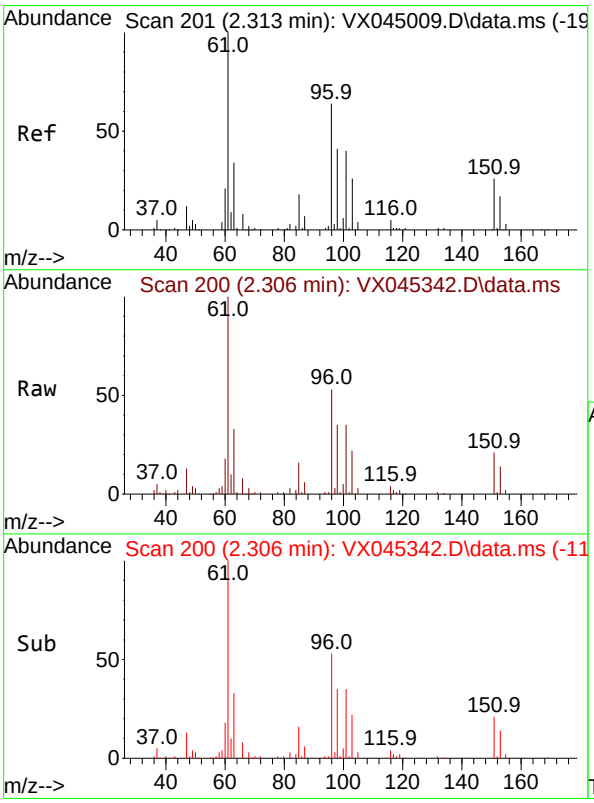
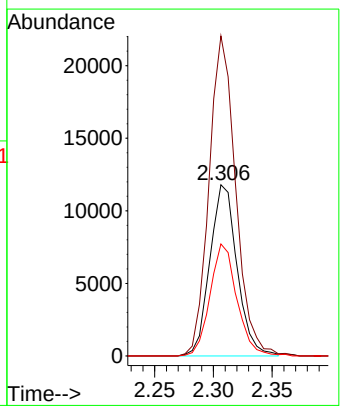


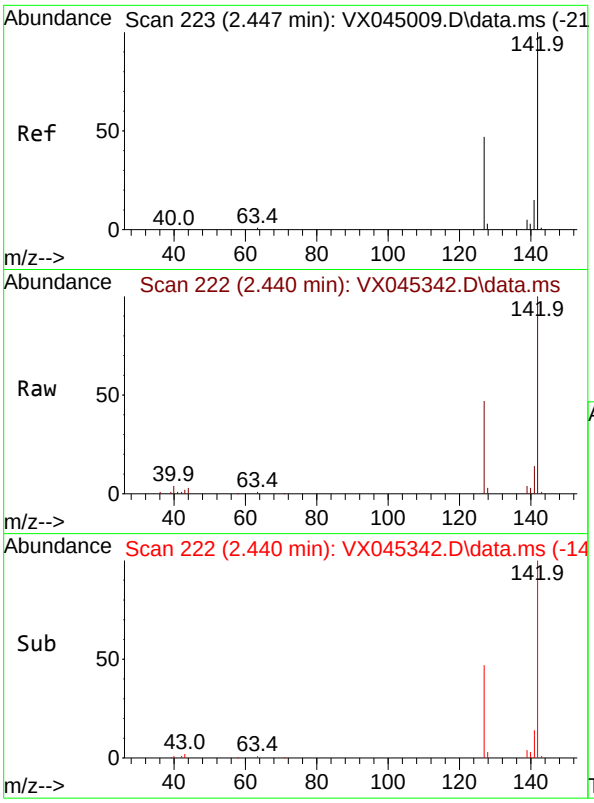


#10
1,1-Dichloroethene
Concen: 16.281 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.006 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion: 96 Resp: 19053

Ion	Ratio	Lower	Upper
96	100		
61	187.0	124.2	186.2#
98	65.5	51.1	76.7

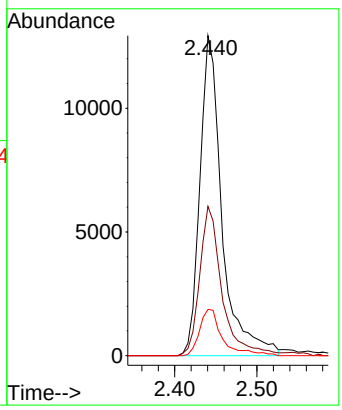




#11
Methyl Iodide
Concen: 18.239 ug/l
RT: 2.440 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion:142 Resp: 2415

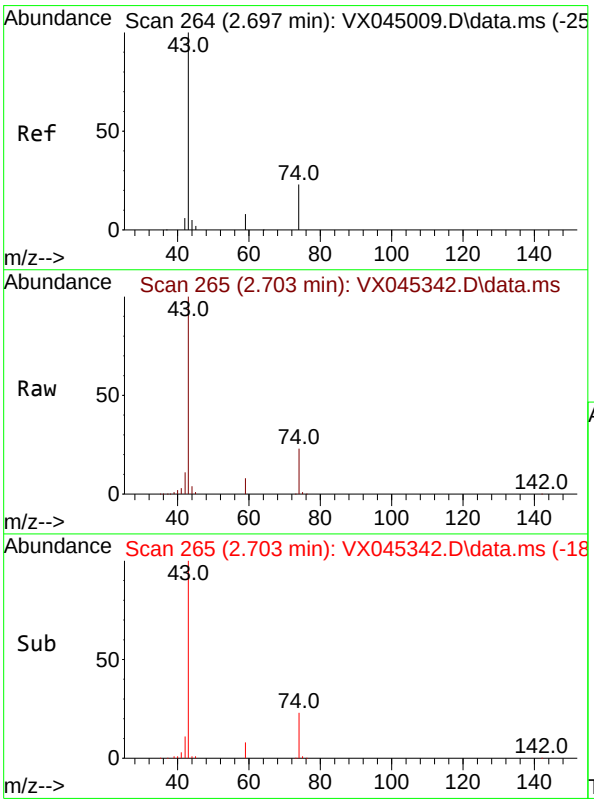
Ion	Ratio	Lower	Upper
142	100		
127	46.6	23.3	69.9
141	14.6	7.5	22.6



Instrument :
MSVOA_X
ClientSampleId :
VX0319WBSD01

Manual Integrations
APPROVED

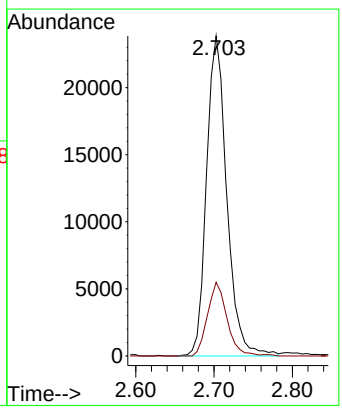
Reviewed By :John Carlone 03/20/2025
Supervised By :Mahesh Dadoda 03/20/2025

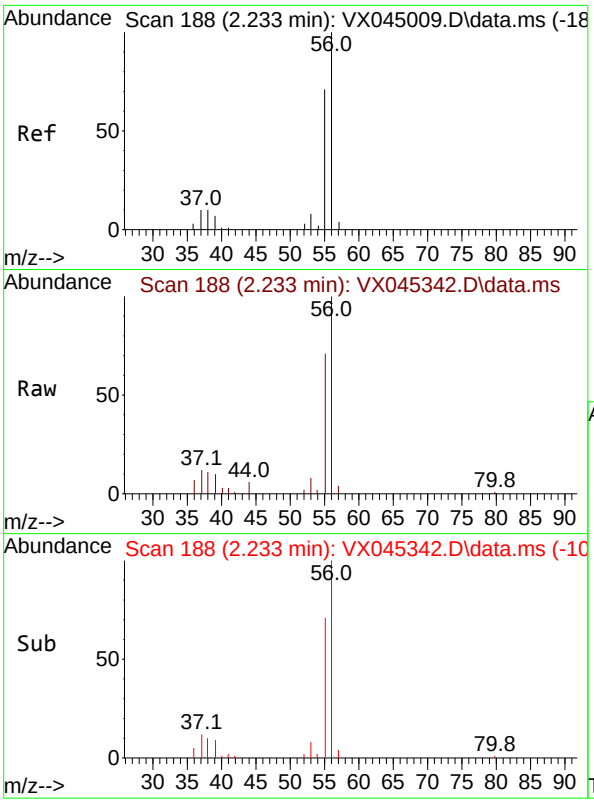


#12
Methyl Acetate
Concen: 31.503 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.006 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion: 43 Resp: 42810

Ion	Ratio	Lower	Upper
43	100		
74	23.1	17.9	26.9





#13
Acrolein
Concen: 88.702 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

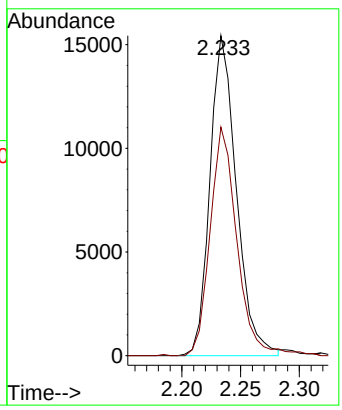
Tgt Ion: 56 Resp: 2416

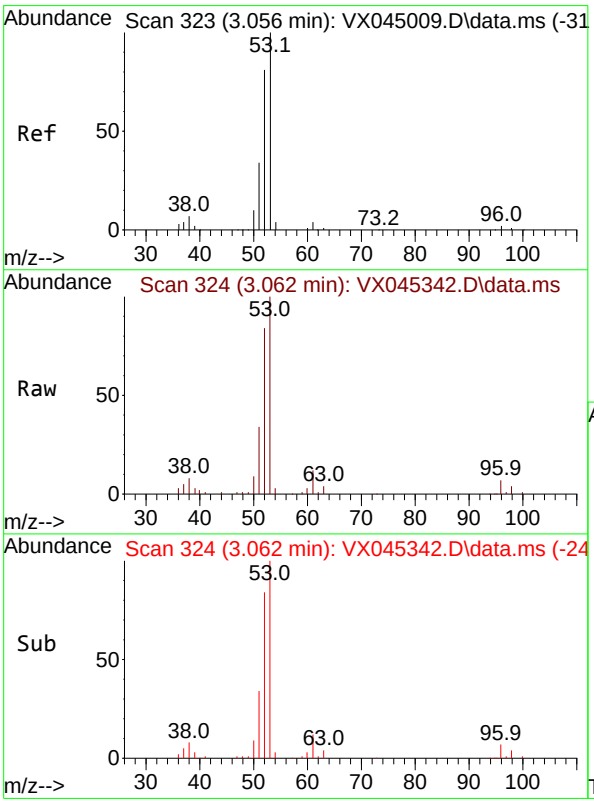
Ion	Ratio	Lower	Upper
56	100		
55	72.1	55.4	83.2

Instrument :
MSVOA_X
ClientSampleId :
VX0319WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/20/2025
Supervised By :Mahesh Dadoda 03/20/2025

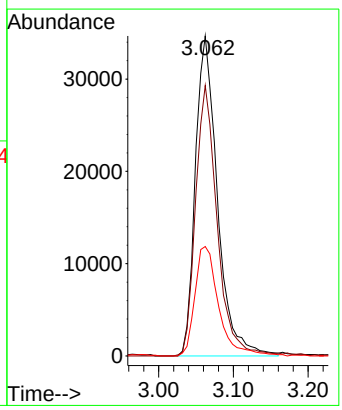


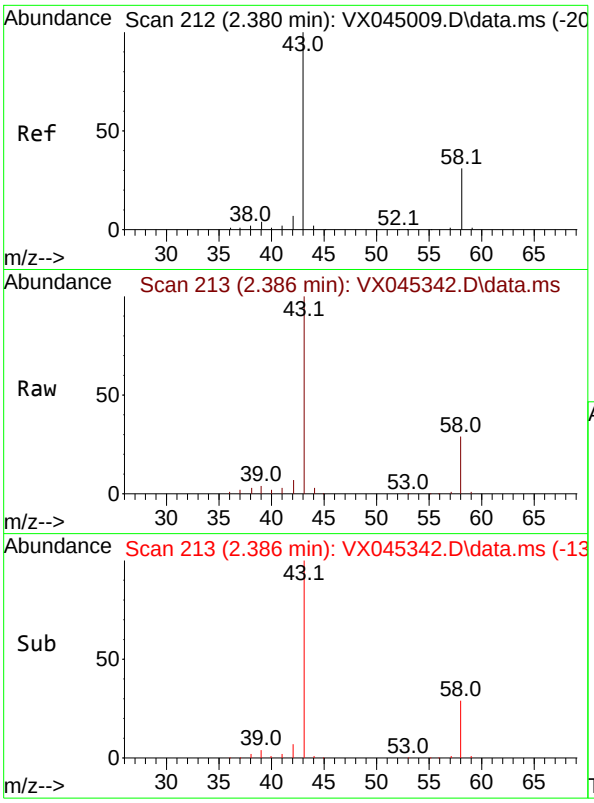


#14
Acrylonitrile
Concen: 107.270 ug/l
RT: 3.062 min Scan# 324
Delta R.T. 0.006 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion: 53 Resp: 71203

Ion	Ratio	Lower	Upper
53	100		
52	82.5	40.9	122.8
51	36.8	18.0	54.0





#15
Acetone
Concen: 102.282 ug/l
RT: 2.386 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion: 58 Resp: 1862

Ion	Ratio	Lower	Upper
58	100		
43	341.0	258.6	388.0

Instrument :
MSVOA_X
ClientSampleId :
VX0319WBSD01

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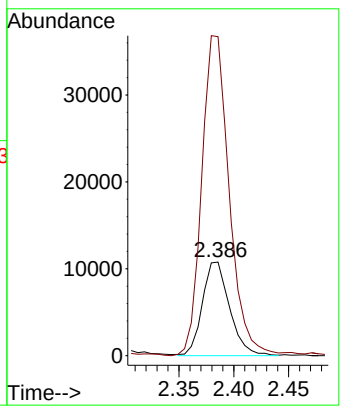
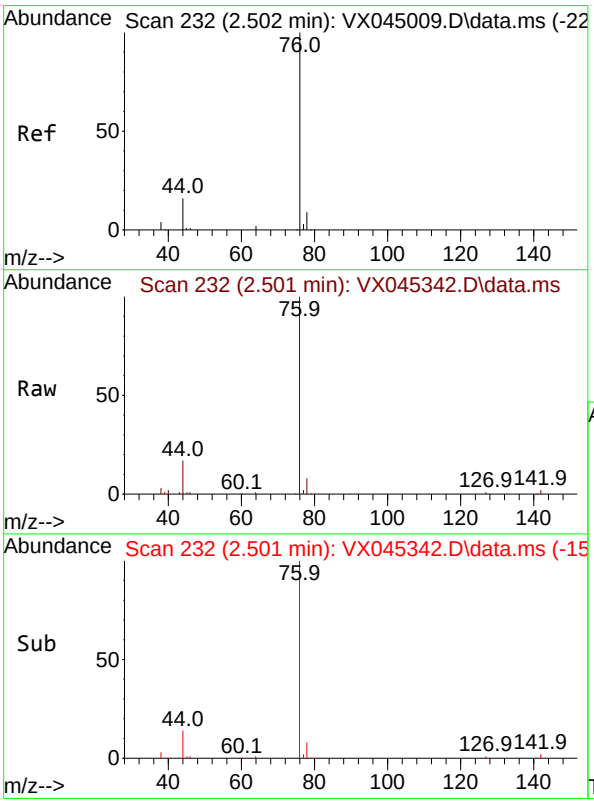
Supervised By :Mahesh Dadoda 03/20/2025

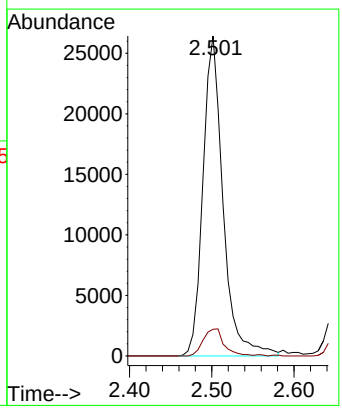


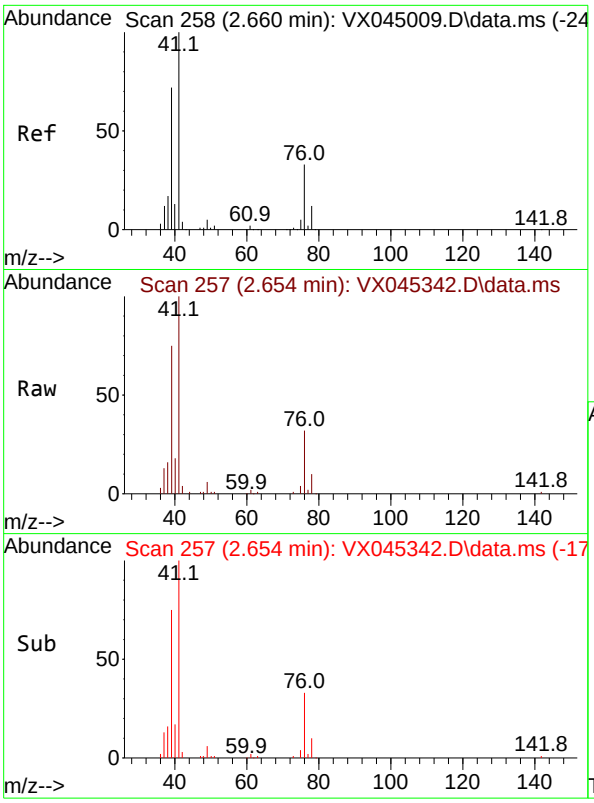


#16
Carbon Disulfide
Concen: 13.526 ug/l
RT: 2.501 min Scan# 232
Delta R.T. -0.000 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion: 76 Resp: 44896

Ion	Ratio	Lower	Upper
76	100		
78	8.3	7.3	10.9





#17
Allyl chloride
Concen: 17.170 ug/l
RT: 2.654 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion: 41 Resp: 3758

Ion	Ratio	Lower	Upper
41	100		
39	74.9	36.2	108.6
76	32.3	17.2	51.5

Instrument :
MSVOA_X
ClientSampleId :
VX0319WBSD01

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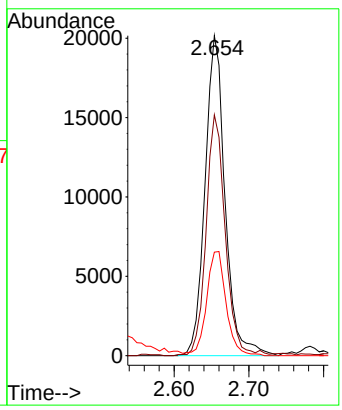
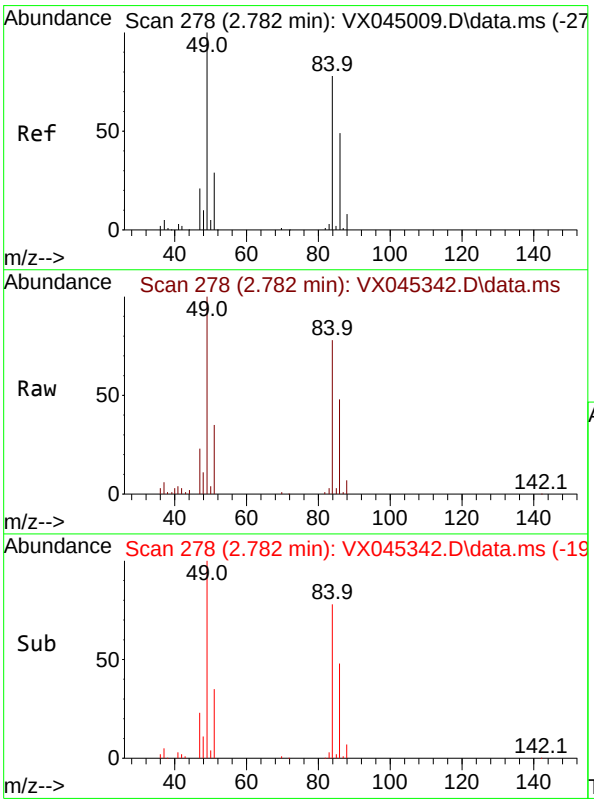
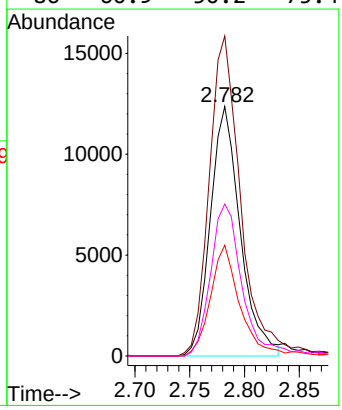


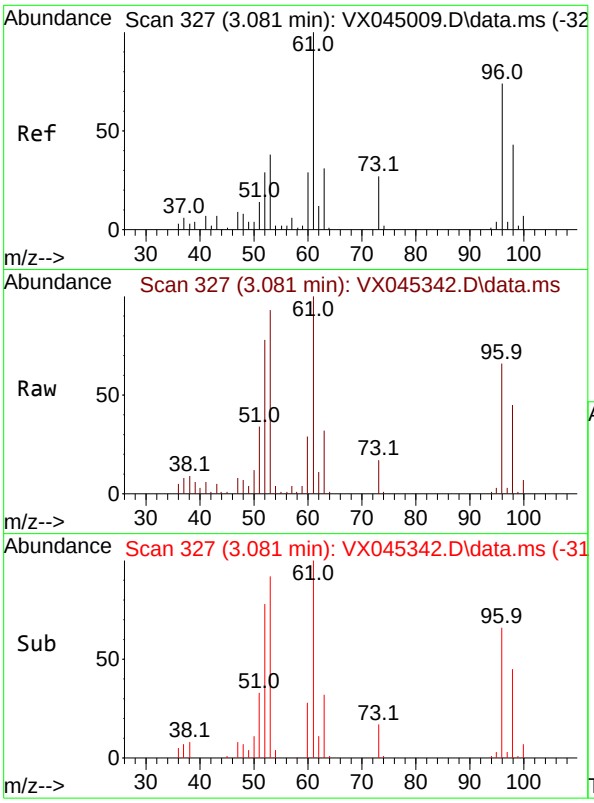


#18
Methylene Chloride
Concen: 17.804 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion: 84 Resp: 23434

Ion	Ratio	Lower	Upper
84	100		
49	128.3	102.8	154.2
51	44.4	30.1	45.1
86	60.9	50.2	75.4

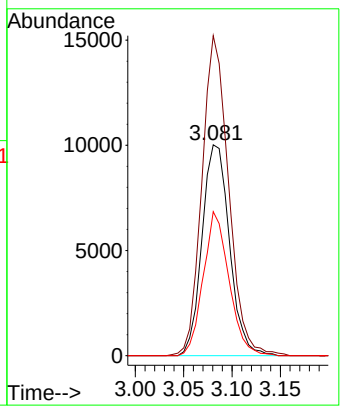




#19
trans-1,2-Dichloroethene
Concen: 16.727 ug/l
RT: 3.081 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion: 96 Resp: 1980

Ion	Ratio	Lower	Upper
96	100		
61	150.5	108.6	163.0
98	68.3	46.5	69.7



Instrument :
MSVOA_X
ClientSampleId :
VX0319WBSD01

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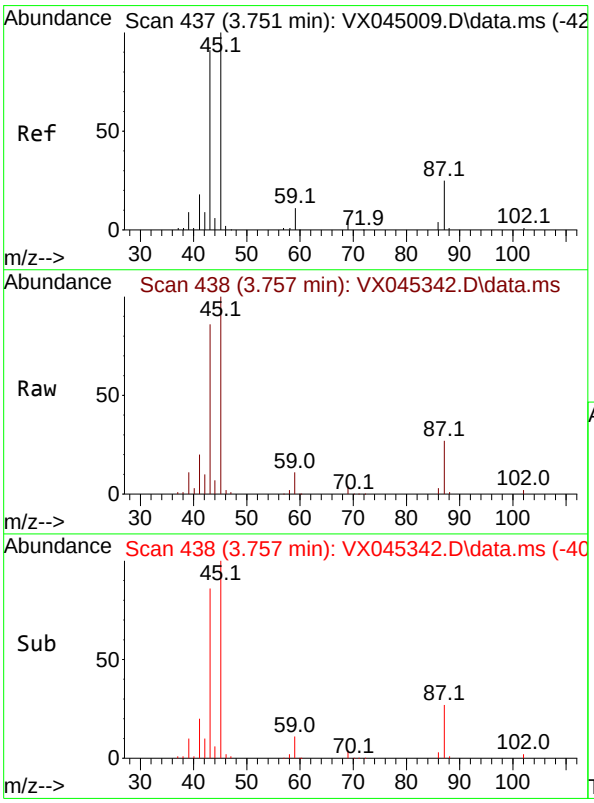
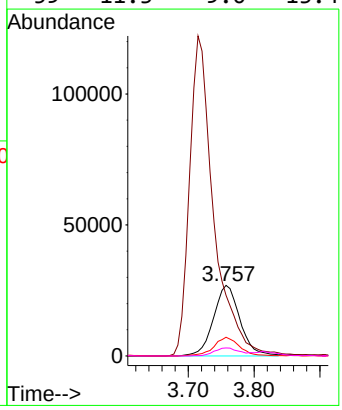
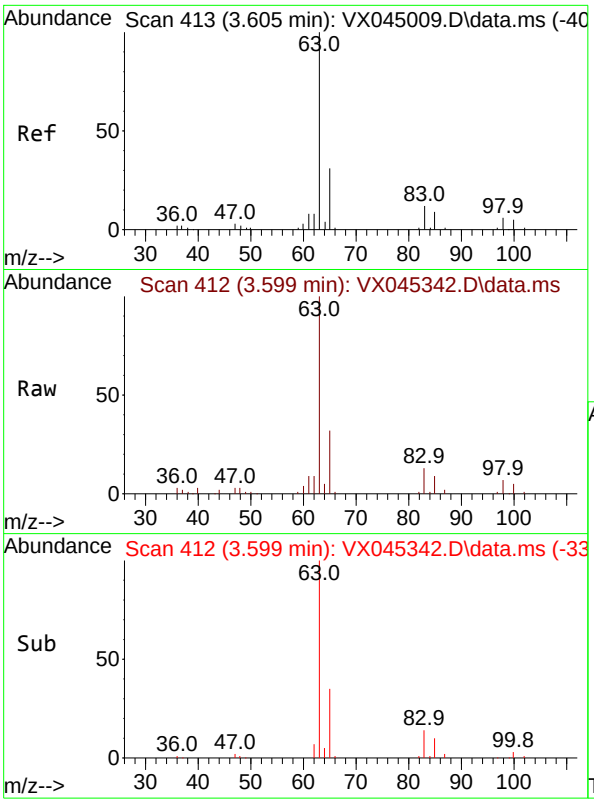


#20
Diisopropyl ether
Concen: 17.952 ug/l
RT: 3.757 min Scan# 438
Delta R.T. 0.006 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion: 45 Resp: 75506

Ion	Ratio	Lower	Upper
45	100		
43	81.5	74.4	111.6
87	26.6	19.8	29.8
59	11.3	9.0	13.4

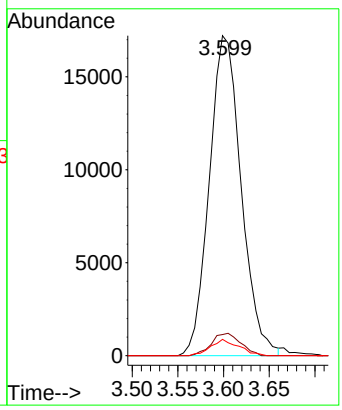




#21
1,1-Dichloroethane
Concen: 17.860 ug/l
RT: 3.599 min Scan# 41
Delta R.T. -0.006 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion: 63 Resp: 4177

Ion	Ratio	Lower	Upper
63	100		
98	6.6	3.3	9.8
100	5.1	2.4	7.1



Instrument :
MSVOA_X
ClientSampleId :
VX0319WBSD01

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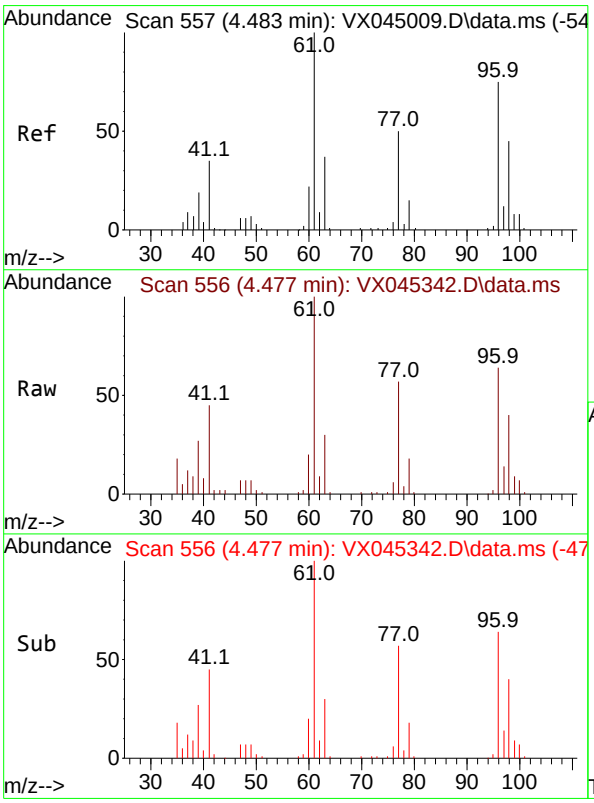
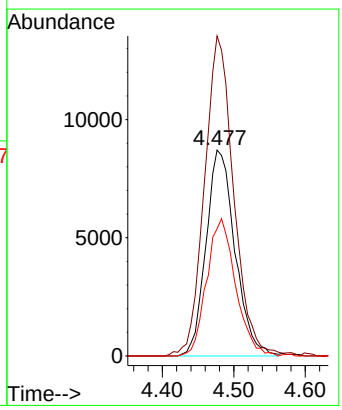
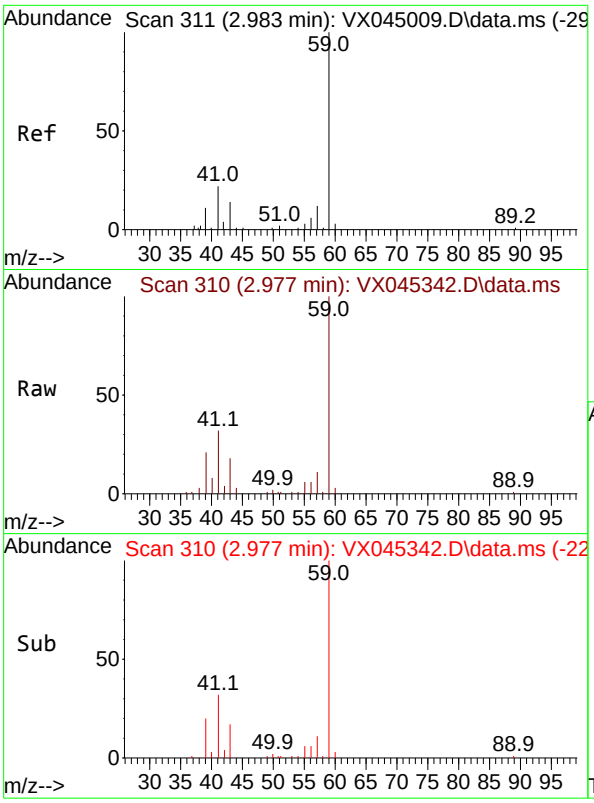


#22
cis-1,2-Dichloroethene
Concen: 17.278 ug/l
RT: 4.477 min Scan# 556
Delta R.T. -0.006 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion: 96 Resp: 24514

Ion	Ratio	Lower	Upper
96	100		
61	156.1	118.9	178.3
98	66.0	50.7	76.1





#23
tert-Butyl Alcohol
Concen: 91.751 ug/l
RT: 2.977 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion: 59 Resp: 2126

Ion	Ratio	Lower	Upper
59	100		
52	0.0	0.0	0.0

Instrument :
MSVOA_X
ClientSampleId :
VX0319WBSD01

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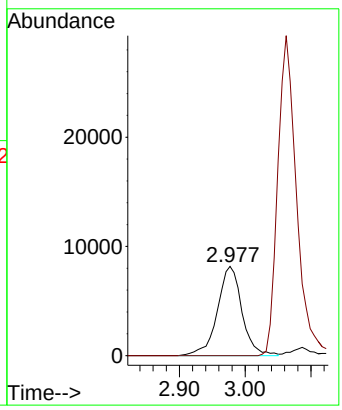
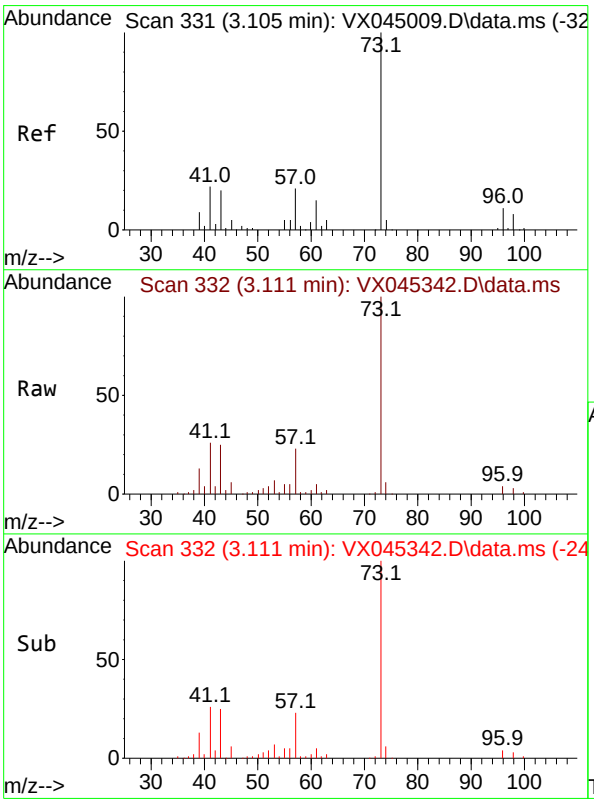
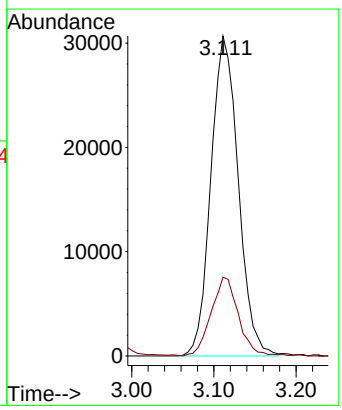


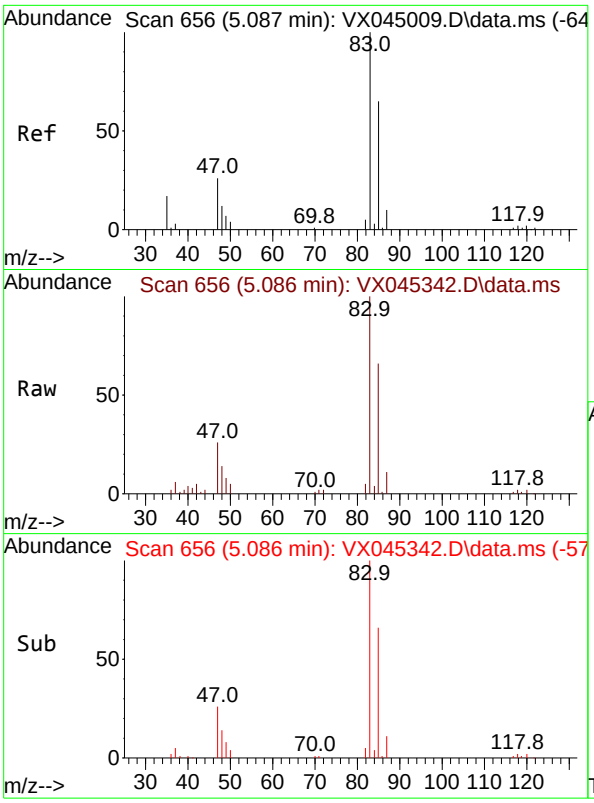


#24
Methyl tert-Butyl Ether
Concen: 18.595 ug/l
RT: 3.111 min Scan# 332
Delta R.T. 0.006 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion: 73 Resp: 71024

Ion	Ratio	Lower	Upper
73	100		
43	24.2	17.4	26.0





#25
Chloroform
Concen: 19.076 ug/l
RT: 5.086 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion: 83 Resp: 4310

Ion	Ratio	Lower	Upper
83	100		
85	65.6	51.7	77.5

Instrument :
MSVOA_X
ClientSampleId :
VX0319WBSD01

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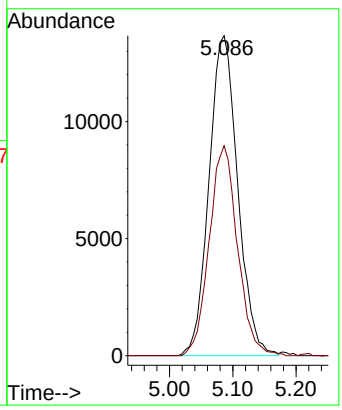
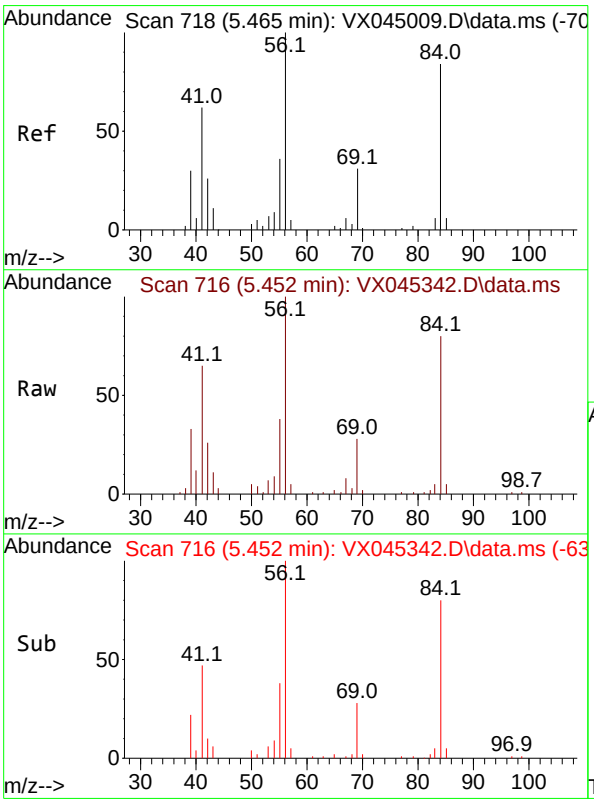
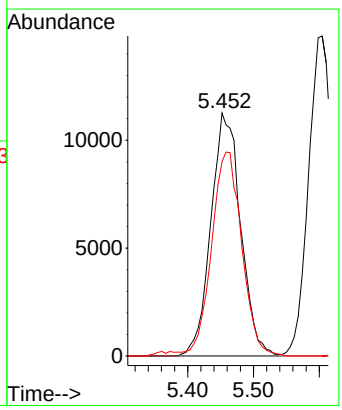


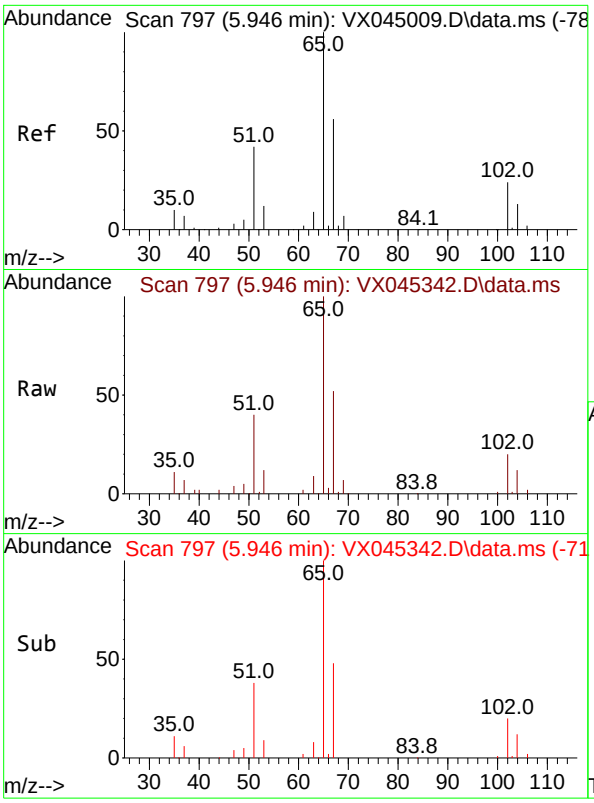


#26
Cyclohexane
Concen: 16.398 ug/l
RT: 5.452 min Scan# 716
Delta R.T. -0.012 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion: 56 Resp: 35407

Ion	Ratio	Lower	Upper
56	100		
89	0.0	0.0	0.0
84	84.9	67.1	100.7





#27
1,2-Dichloroethane-d4
Concen: 31.920 ug/l
RT: 5.946 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion: 65 Resp: 4776

Ion	Ratio	Lower	Upper
65	100		
67	52.0	42.6	64.0

Instrument :
MSVOA_X
ClientSampleId :
VX0319WBSD01

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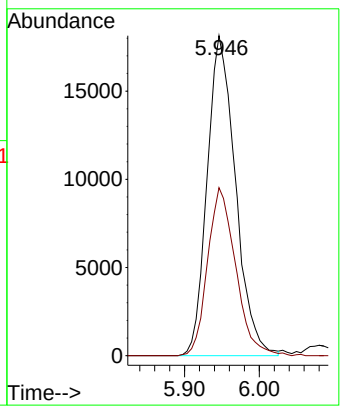
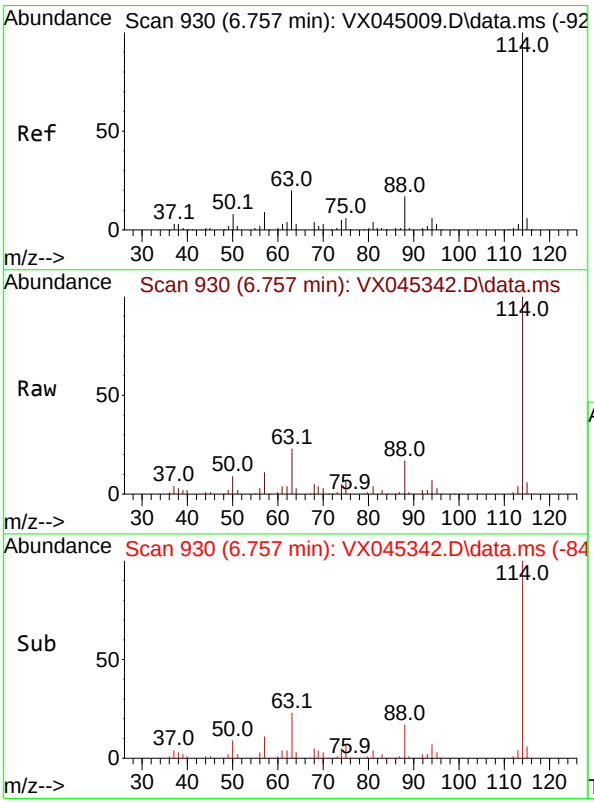
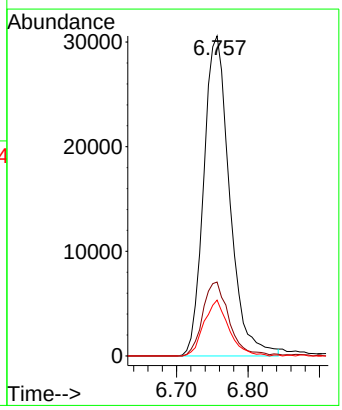


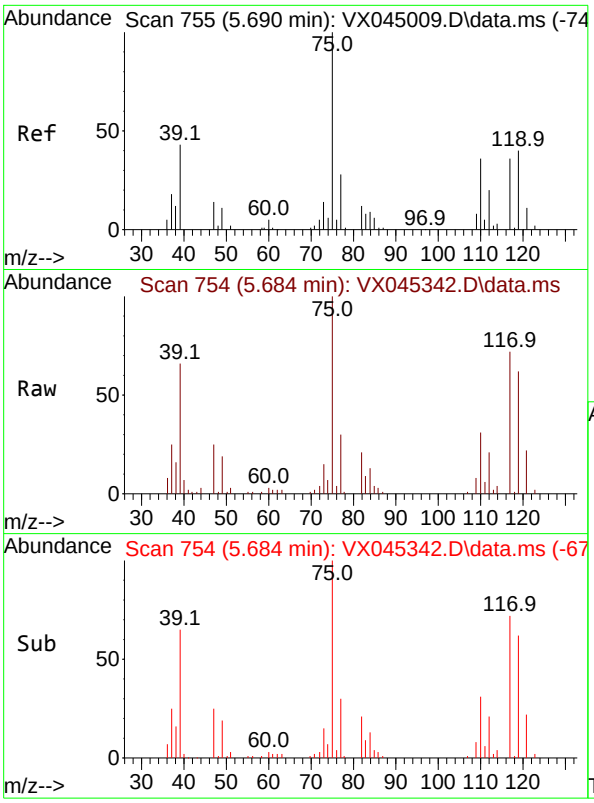


#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion:114 Resp: 77122

Ion	Ratio	Lower	Upper
114	100		
63	23.3	16.8	25.2
88	16.7	12.7	19.1





#29
1,1-Dichloropropene
Concen: 18.953 ug/l
RT: 5.684 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion: 75 Resp: 2688

Ion	Ratio	Lower	Upper
75	100		
110	34.4	0.0	69.2
77	31.2	0.0	61.0

Instrument :
MSVOA_X
ClientSampleId :
VX0319WBSD01

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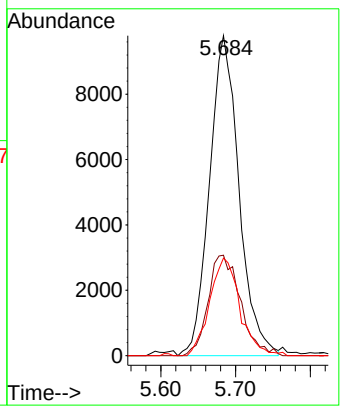
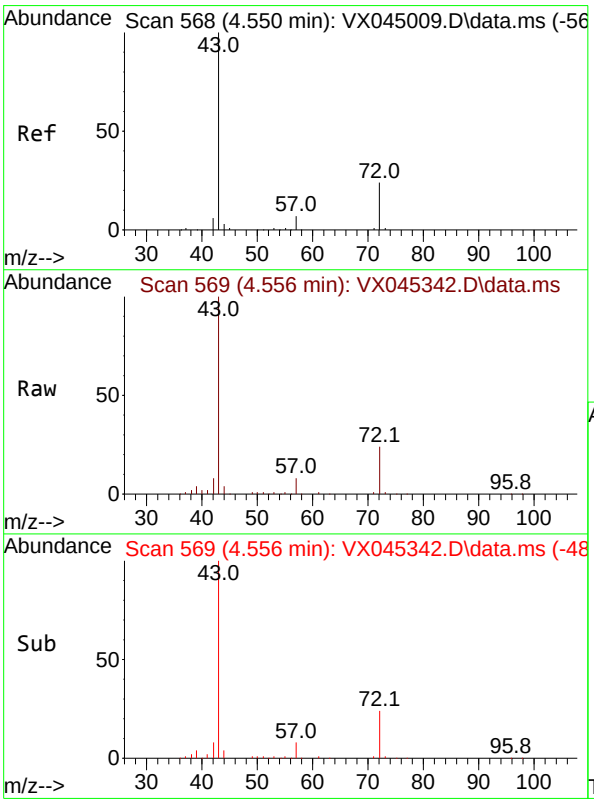
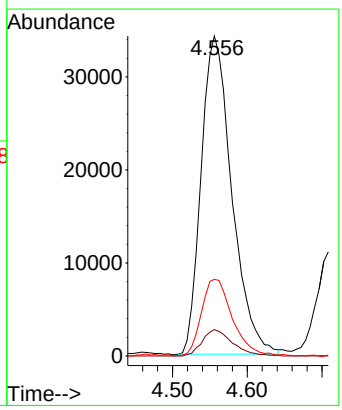


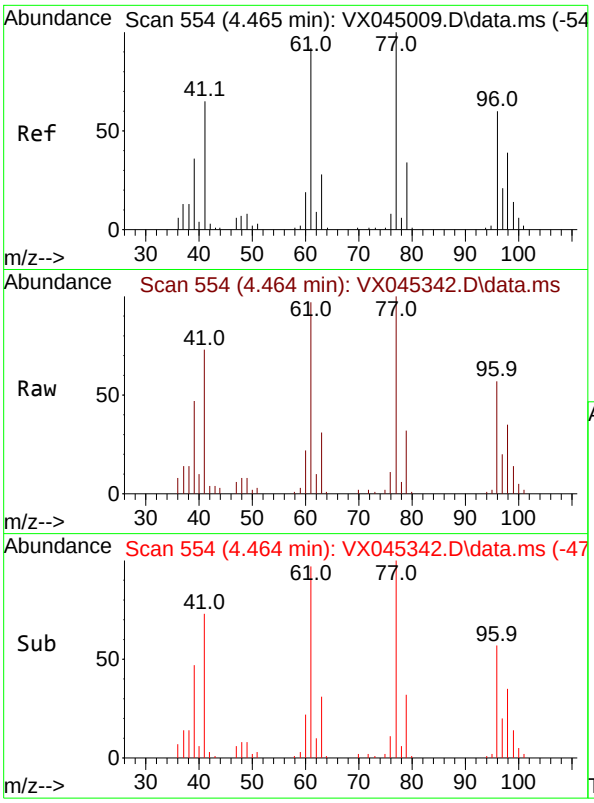


#30
2-Butanone
Concen: 119.206 ug/l
RT: 4.556 min Scan# 569
Delta R.T. 0.006 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion: 43 Resp: 97680

Ion	Ratio	Lower	Upper
43	100		
57	8.1	6.2	9.2
72	24.1	20.2	30.2





#31
2,2-Dichloropropane
Concen: 18.017 ug/l
RT: 4.464 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion: 77 Resp: 2890

Ion	Ratio	Lower	Upper
77	100		
97	21.8	18.0	27.0

Instrument :
MSVOA_X
ClientSampleId :
VX0319WBSD01

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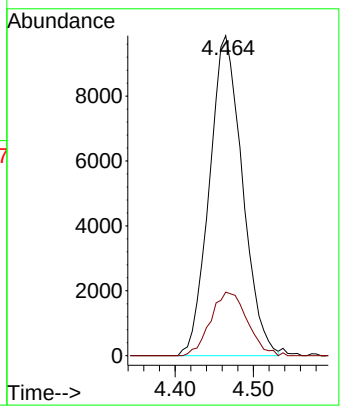
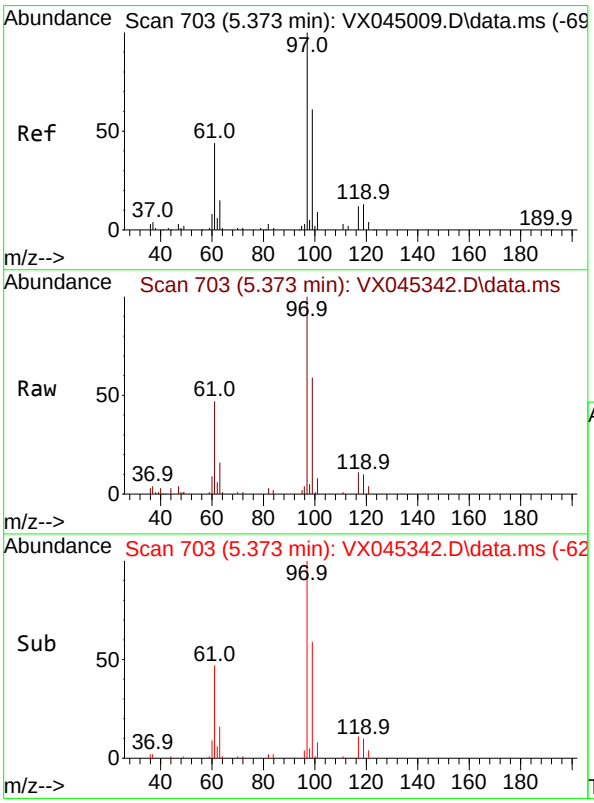
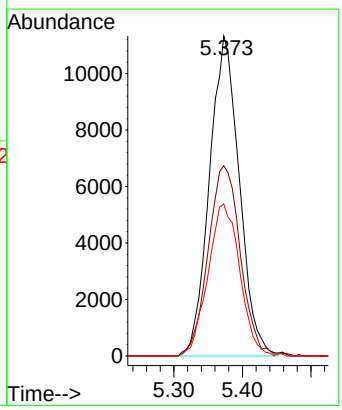


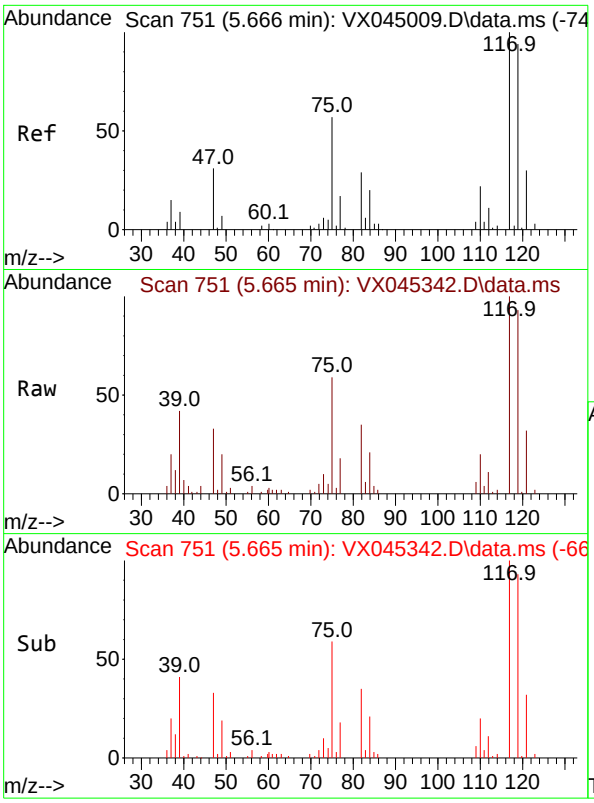


#32
1,1,1-Trichloroethane
Concen: 19.955 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion: 97 Resp: 34301

Ion	Ratio	Lower	Upper
97	100		
99	63.3	52.2	78.2
61	50.5	38.5	57.7

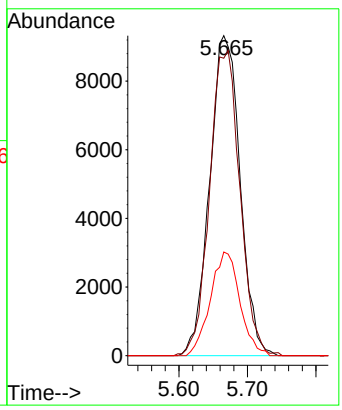




#33
Carbon Tetrachloride
Concen: 19.829 ug/l
RT: 5.665 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion:117 Resp: 2876

Ion	Ratio	Lower	Upper
117	100		
119	92.3	75.1	112.7
121	32.4	23.9	35.9



Instrument :
MSVOA_X
ClientSampleId :
VX0319WBSD01

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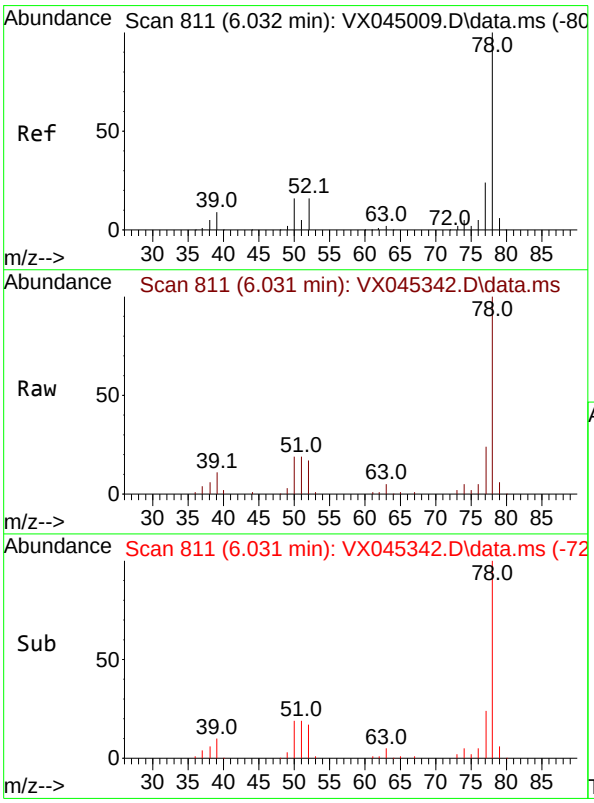
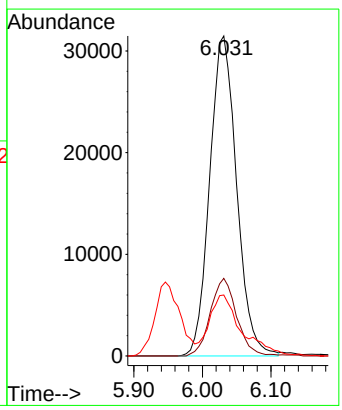
Reviewed By :John Carlone 03/20/2025
Supervised By :Mahesh Dadoda 03/20/2025

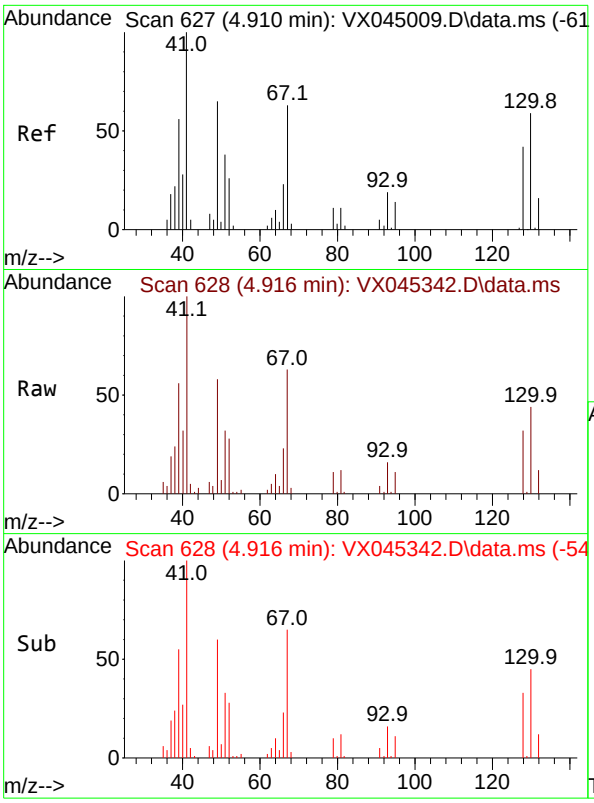


#34
Benzene
Concen: 19.337 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion: 78 Resp: 86029

Ion	Ratio	Lower	Upper
78	100		
77	24.3	19.6	29.4
51	17.5	13.8	20.6

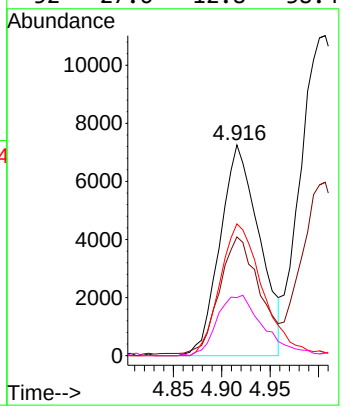




#35
Methacrylonitrile
Concen: 23.437 ug/l
RT: 4.916 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion: 41 Resp: 2055

Ion	Ratio	Lower	Upper
41	100		
39	55.3	27.8	83.4
67	62.5	31.5	94.5
52	27.6	12.8	38.4



Instrument :
MSVOA_X
ClientSampleId :
VX0319WBSD01

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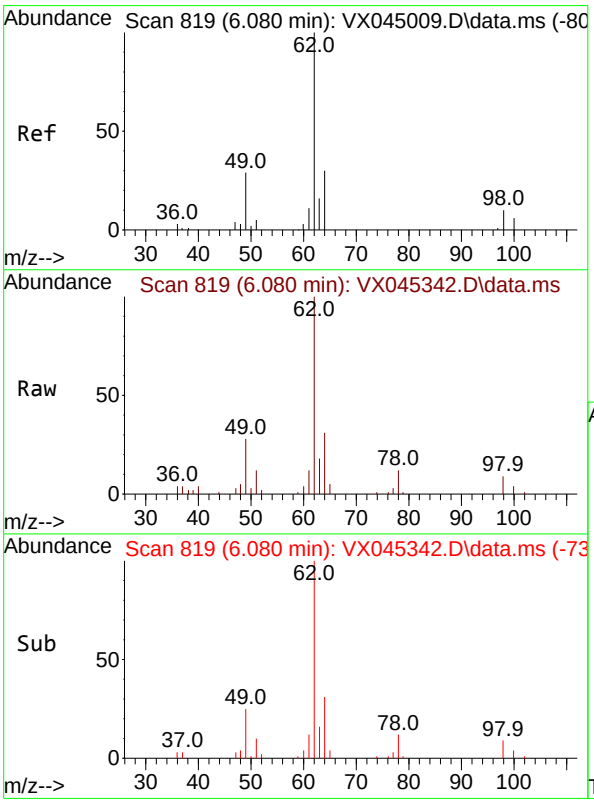
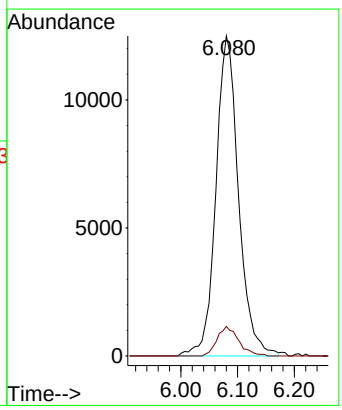
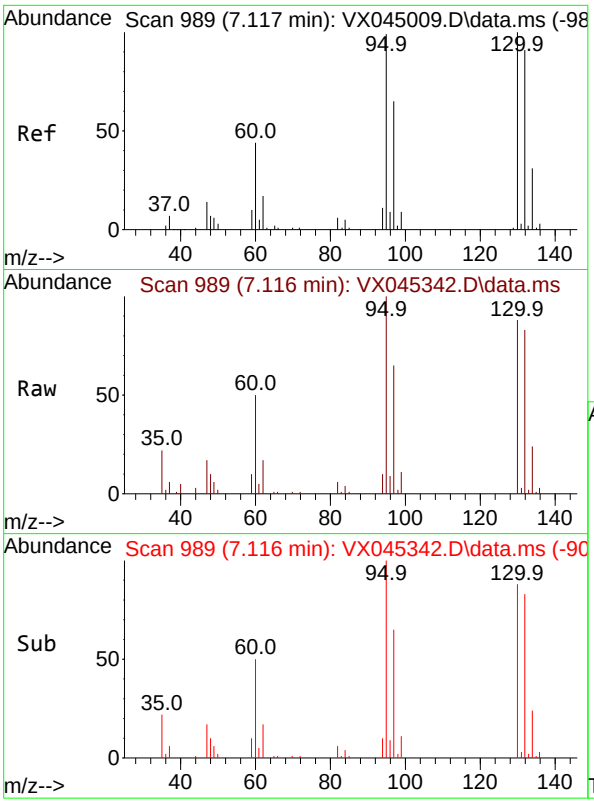


#36
1,2-Dichloroethane
Concen: 22.731 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.000 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion: 62 Resp: 34623

Ion	Ratio	Lower	Upper
62	100		
98	8.7	7.9	11.9





#37
Trichloroethene
Concen: 18.610 ug/l
RT: 7.116 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion:130 Resp: 1937

Ion	Ratio	Lower	Upper
130	100		
95	113.2	79.0	118.4

Instrument :
MSVOA_X
ClientSampleId :
VX0319WBSD01

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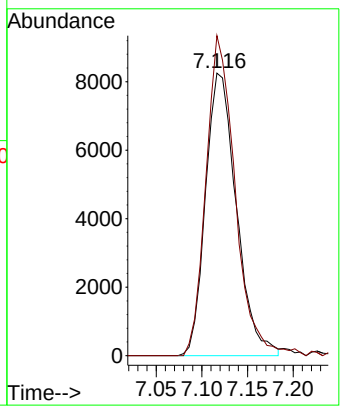
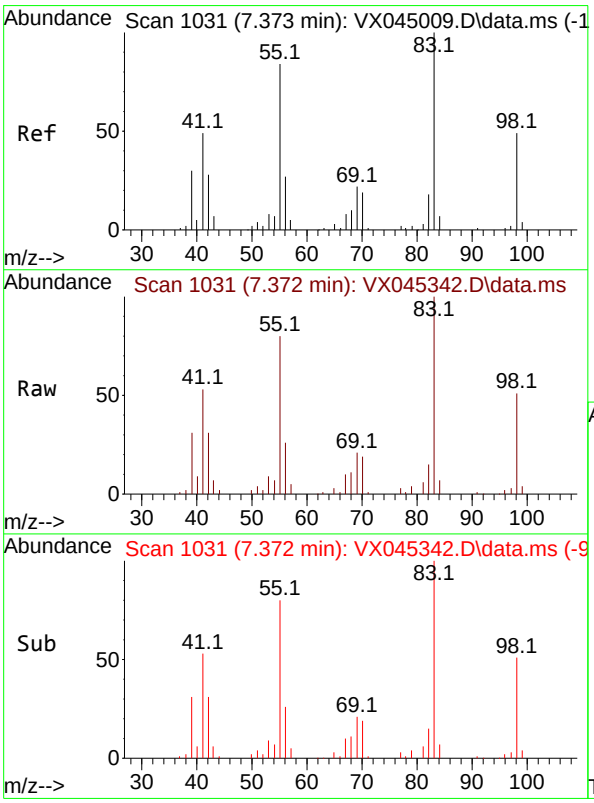
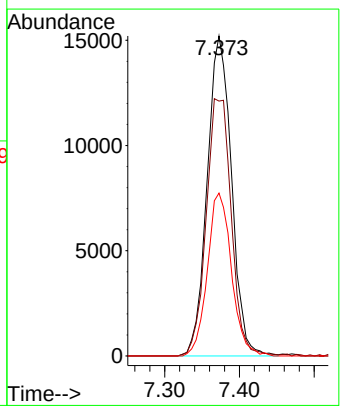


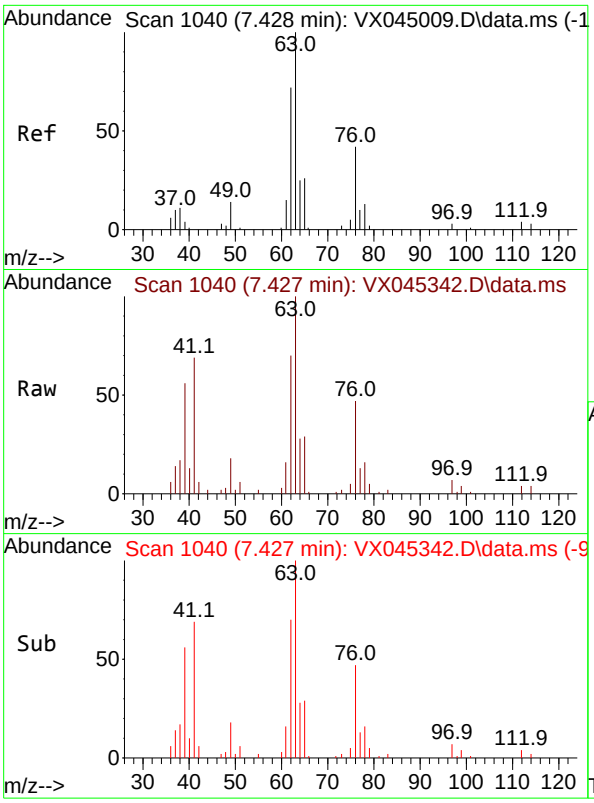


#38
Methylcyclohexane
Concen: 18.107 ug/l
RT: 7.372 min Scan# 1031
Delta R.T. -0.000 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion: 83 Resp: 34492

Ion	Ratio	Lower	Upper
83	100		
55	82.9	40.6	122.0
98	50.2	24.9	74.6





#39
1,2-Dichloropropane
Concen: 19.449 ug/l
RT: 7.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion: 63 Resp: 2151

Ion	Ratio	Lower	Upper
63	100		
65	28.6	24.3	36.5

Instrument :
MSVOA_X
ClientSampleId :
VX0319WBSD01

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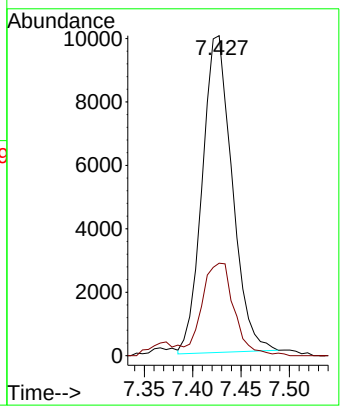
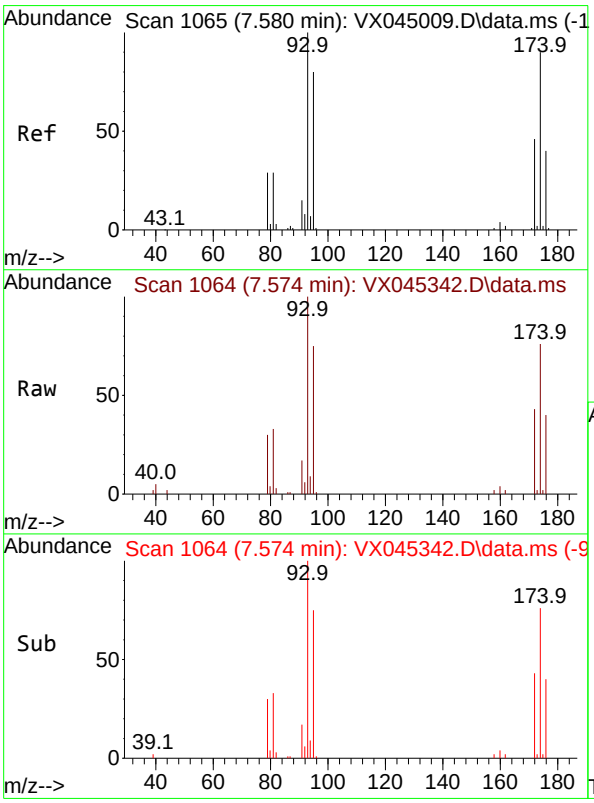
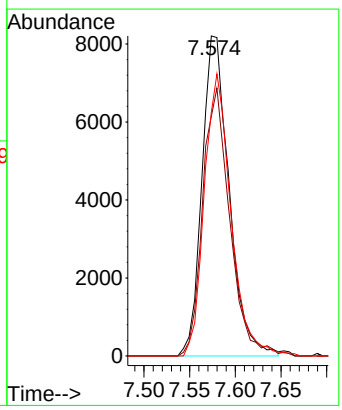


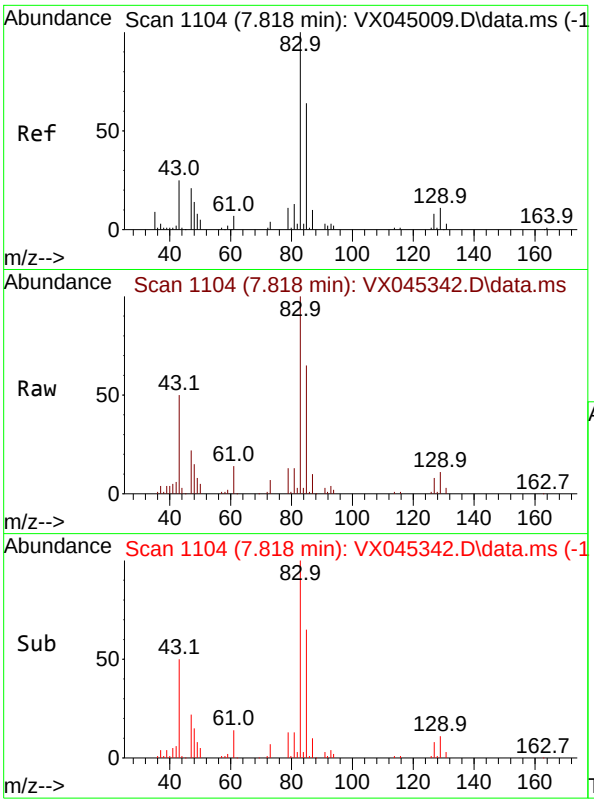


#40
Dibromomethane
Concen: 21.387 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. -0.006 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion: 93 Resp: 16975

Ion	Ratio	Lower	Upper
93	100		
95	81.9	0.0	162.6
174	86.7	0.0	178.8

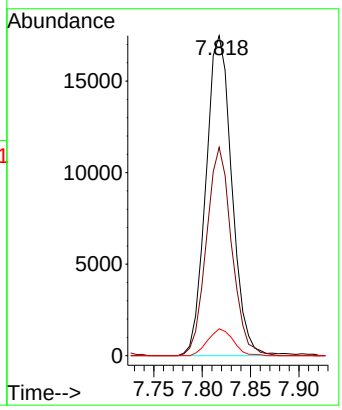




#41
Bromodichloromethane
Concen: 20.664 ug/l
RT: 7.818 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion: 83 Resp: 3259

Ion	Ratio	Lower	Upper
83	100		
85	65.1	51.0	76.6
127	8.4	6.1	9.1



Instrument :
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ClientSampleId :
VX0319WBSD01

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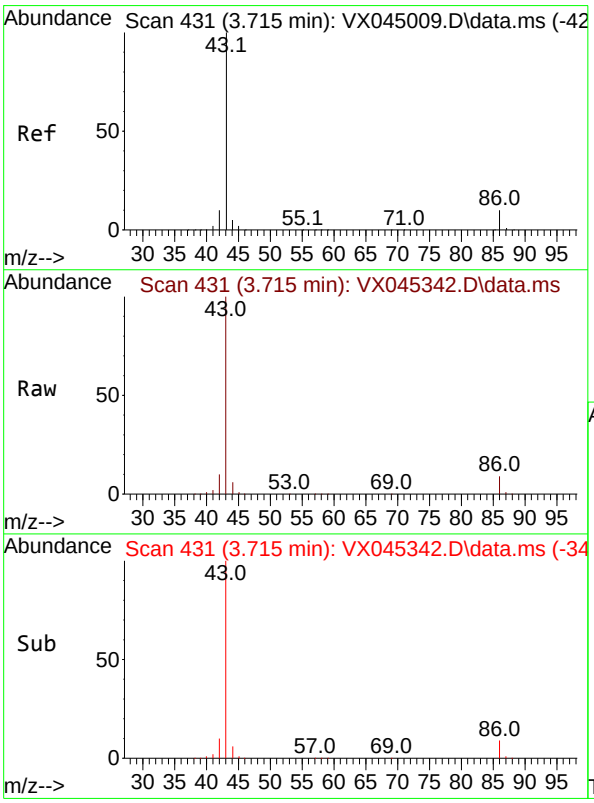
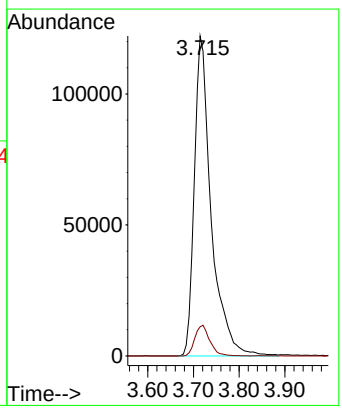
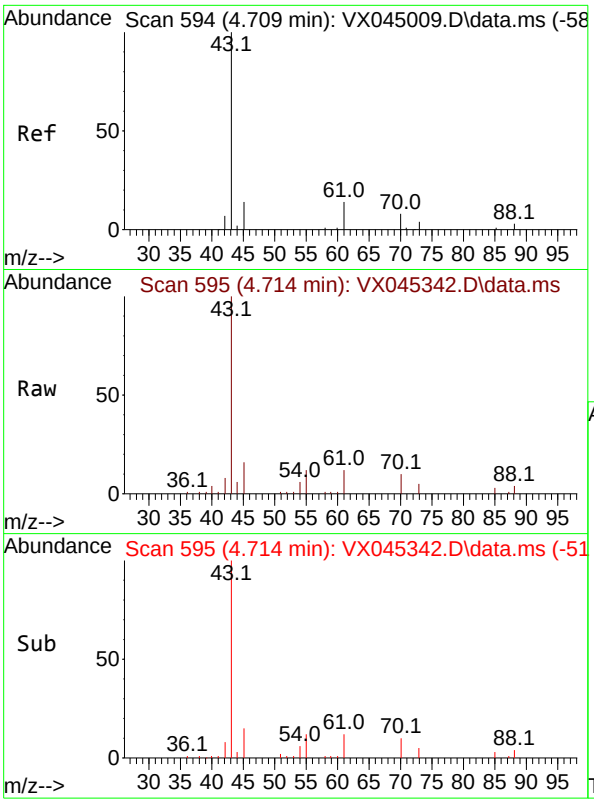


#42
Vinyl Acetate
Concen: 98.457 ug/l
RT: 3.715 min Scan# 431
Delta R.T. -0.000 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion: 43 Resp: 313074

Ion	Ratio	Lower	Upper
43	100		
86	8.5	7.0	10.4

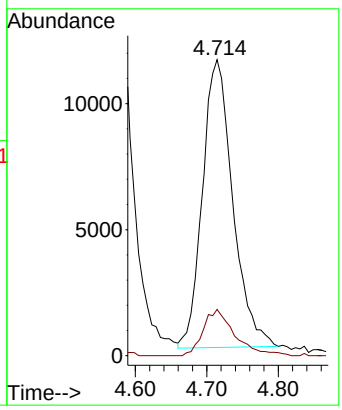




#43
Ethyl Acetate
Concen: 21.902 ug/l
RT: 4.714 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion: 43 Resp: 3365

Ion	Ratio	Lower	Upper
43	100		
45	16.3	12.7	19.1



Instrument :
MSVOA_X
ClientSampleId :
VX0319WBSD01

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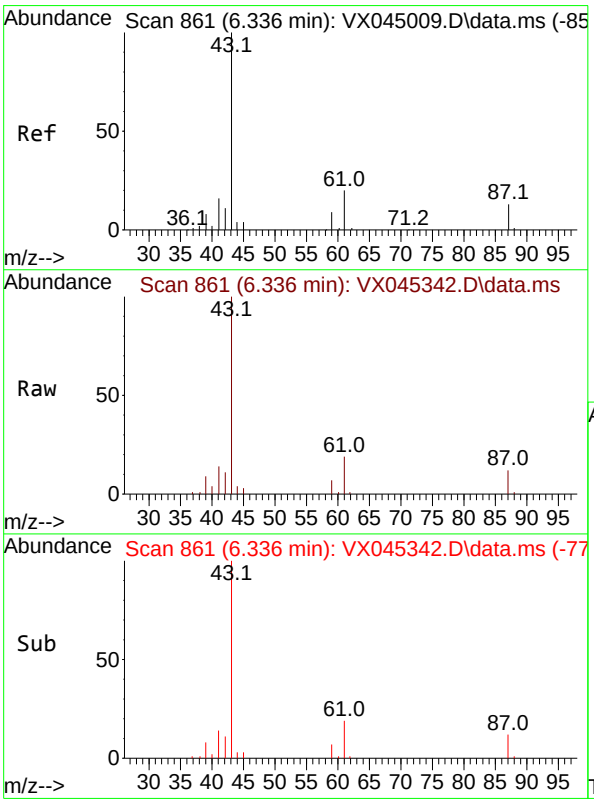
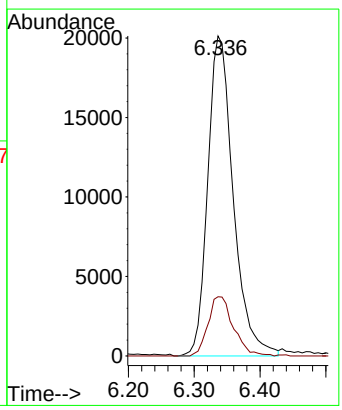
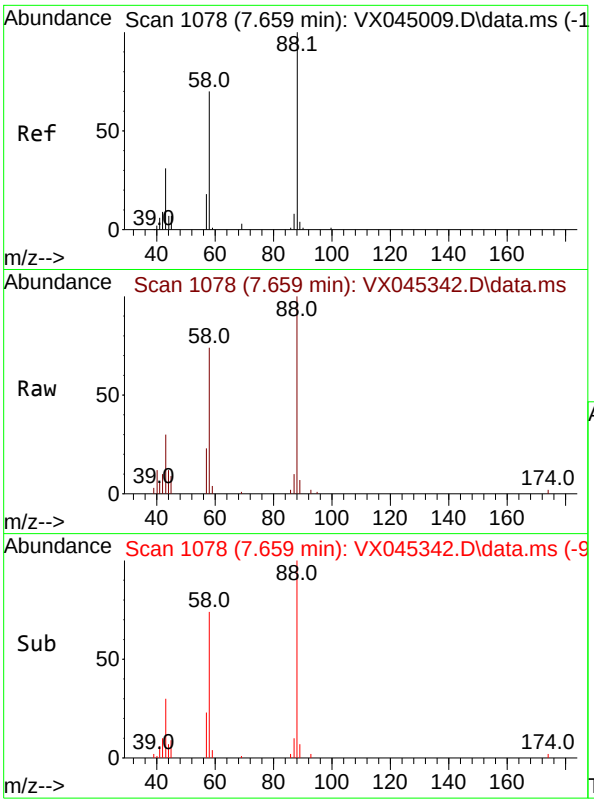


#44
Isopropyl Acetate
Concen: 21.475 ug/l
RT: 6.336 min Scan# 861
Delta R.T. -0.000 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion: 43 Resp: 54315

Ion	Ratio	Lower	Upper
43	100		
61	18.3	15.5	23.3

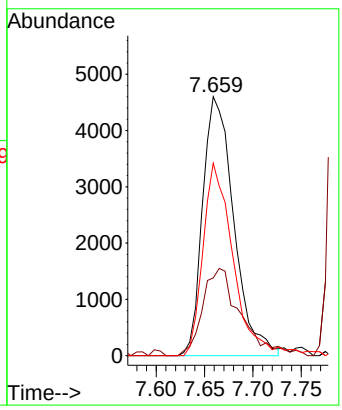




#45
1,4-Dioxane
Concen: 392.707 ug/l
RT: 7.659 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion: 88 Resp: 1032

Ion	Ratio	Lower	Upper
88	100		
43	40.4	29.6	44.4
58	70.1	56.2	84.4



Instrument :
MSVOA_X
ClientSampleId :
VX0319WBSD01

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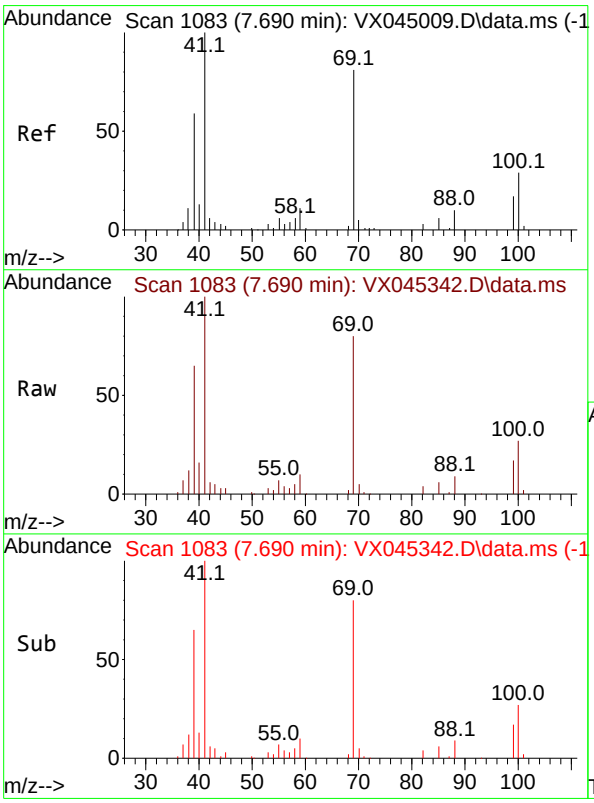
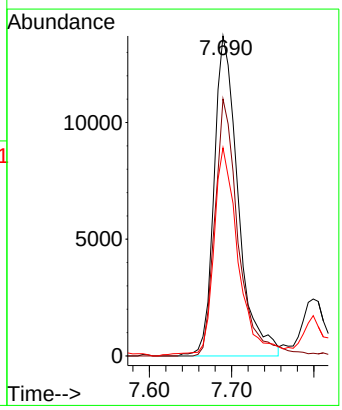
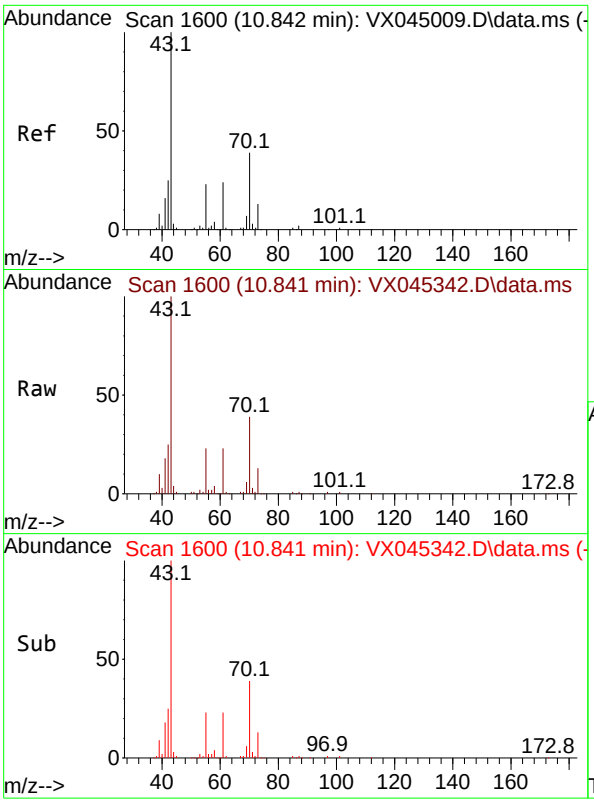


#46
Methyl methacrylate
Concen: 22.506 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. -0.000 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion: 41 Resp: 27912

Ion	Ratio	Lower	Upper
41	100		
69	80.3	40.7	122.1
39	64.3	29.5	88.5





#47
n-amyl Acetate
Concen: 20.528 ug/l
RT: 10.841 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion: 43 Resp: 4505

Ion	Ratio	Lower	Upper
43	100		
55	23.4	18.6	27.8

Instrument :
MSVOA_X
ClientSampleId :
VX0319WBSD01

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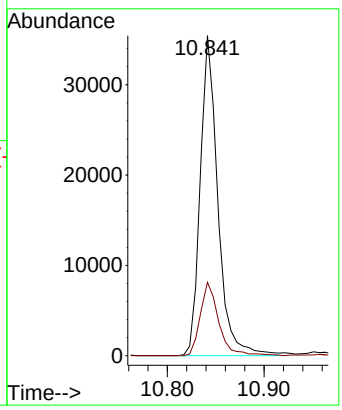
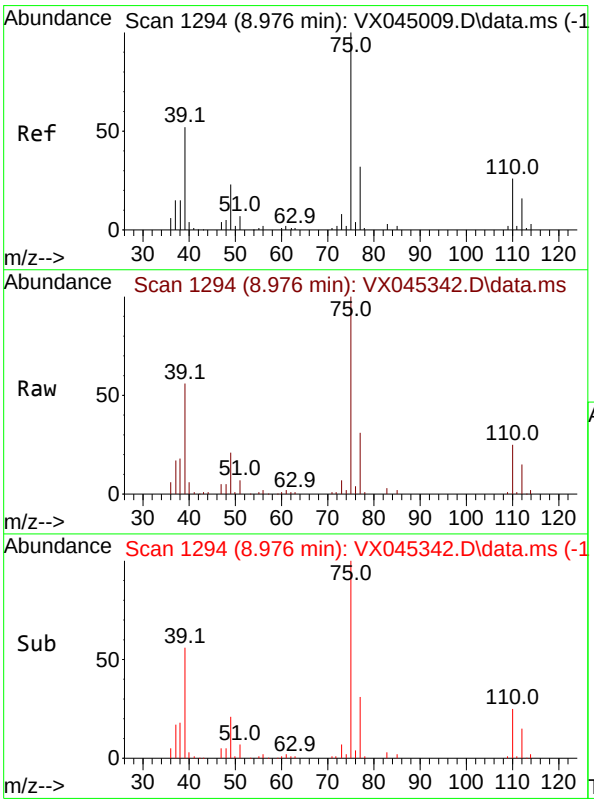
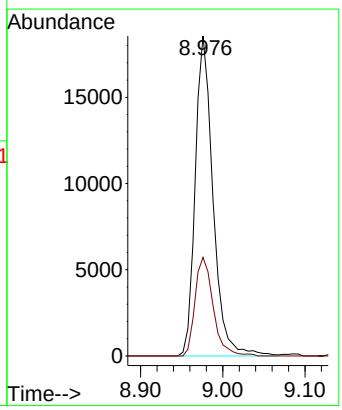


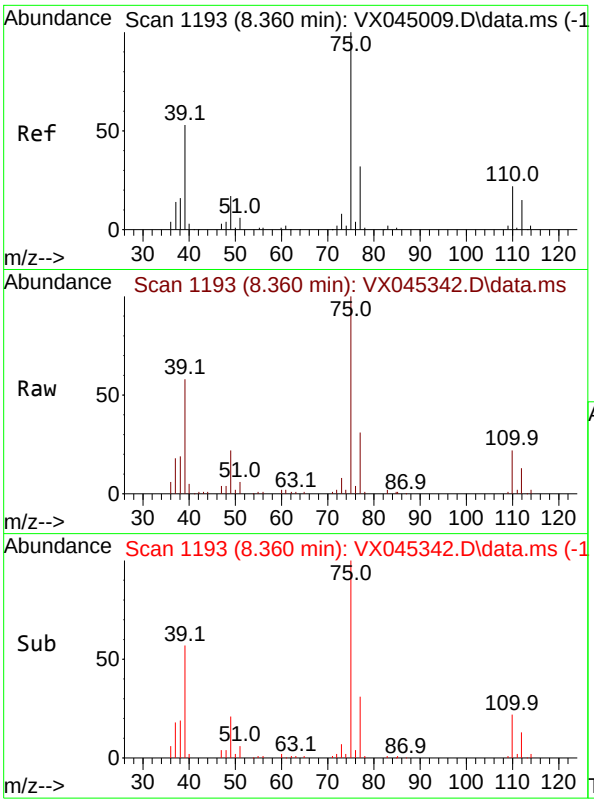


#48
t-1,3-Dichloropropene
Concen: 18.383 ug/l
RT: 8.976 min Scan# 1294
Delta R.T. -0.000 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion: 75 Resp: 27952

Ion	Ratio	Lower	Upper
75	100		
77	30.8	25.7	38.5

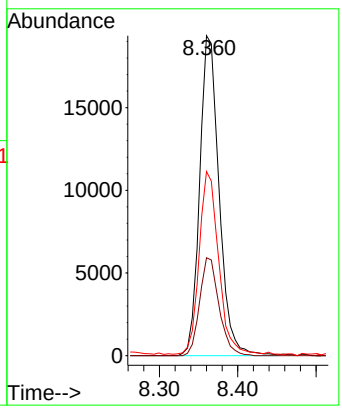




#49
cis-1,3-Dichloropropene
Concen: 19.386 ug/l
RT: 8.360 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion: 75 Resp: 3336

Ion	Ratio	Lower	Upper
75	100		
77	30.6	25.9	38.9
39	57.1	42.3	63.5



Instrument :
MSVOA_X
ClientSampleId :
VX0319WBSD01

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Reviewed By :John Carlone 03/20/2025
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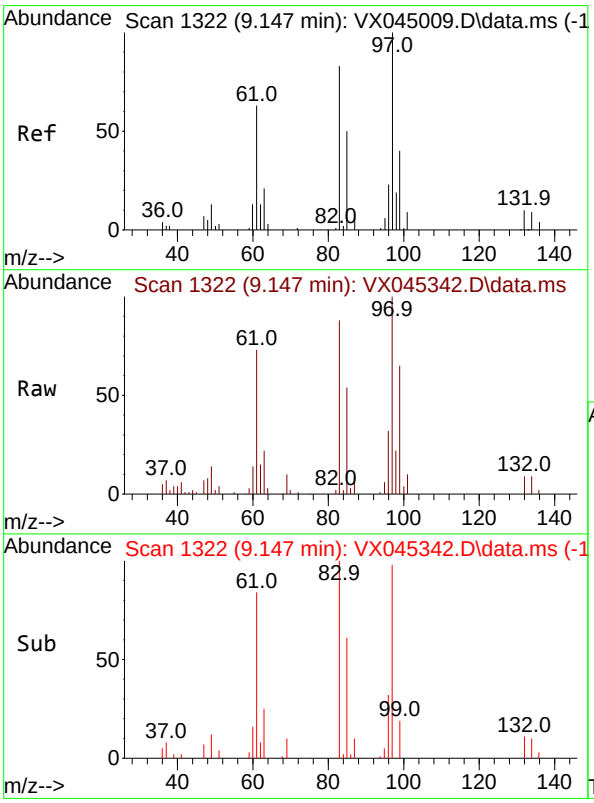
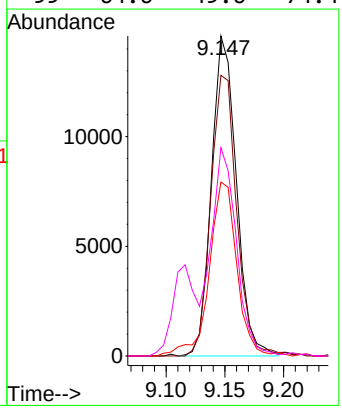
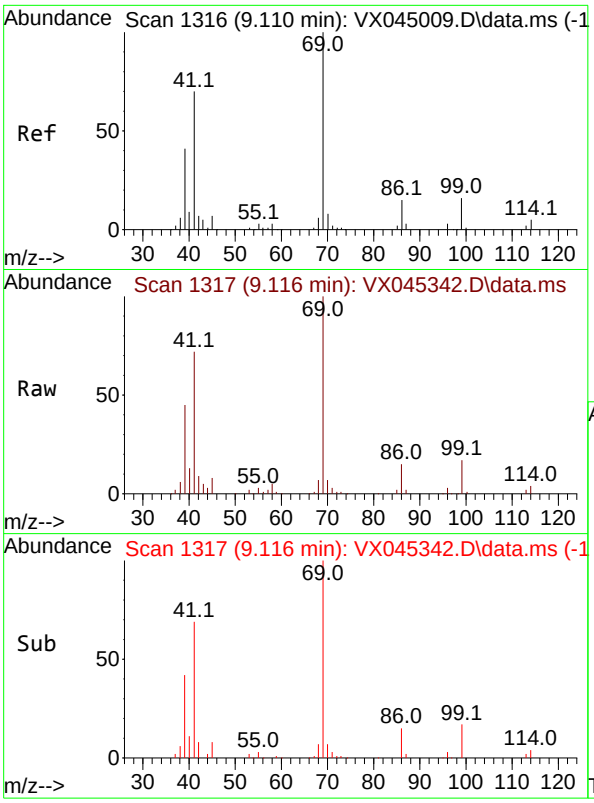


#50
1,1,2-Trichloroethane
Concen: 20.785 ug/l
RT: 9.147 min Scan# 1322
Delta R.T. -0.000 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion: 97 Resp: 21519

Ion	Ratio	Lower	Upper
97	100		
83	87.7	66.0	99.0
85	53.3	42.5	63.7
99	64.6	49.6	74.4

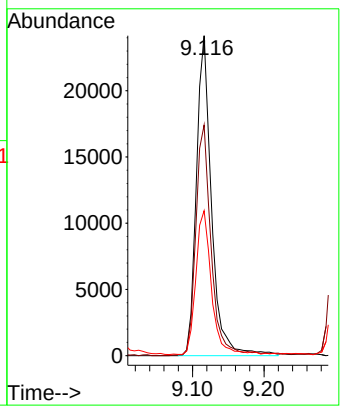




#51
Ethyl methacrylate
Concen: 21.816 ug/l
RT: 9.116 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion: 69 Resp: 3552

Ion	Ratio	Lower	Upper
69	100		
41	71.8	35.1	105.3
39	44.9	20.5	61.6



Instrument :
MSVOA_X
ClientSampleId :
VX0319WBSD01

Manual Integrations
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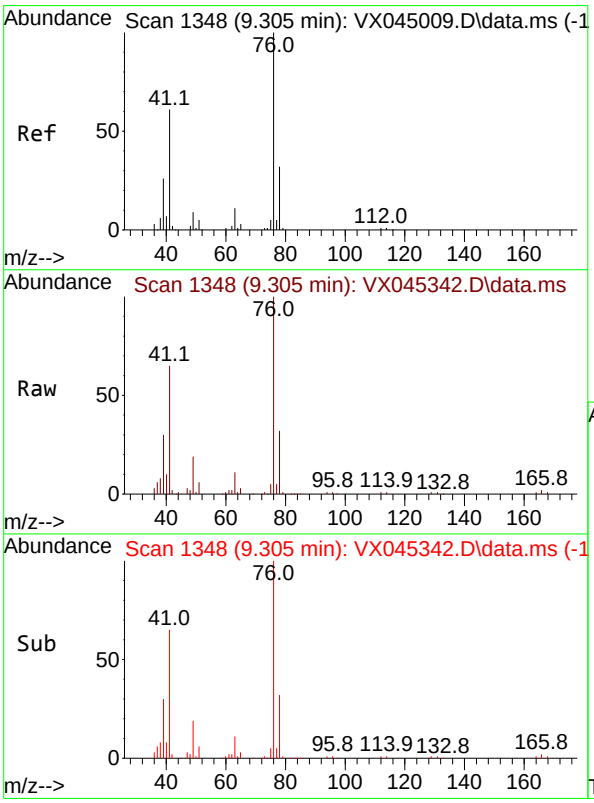
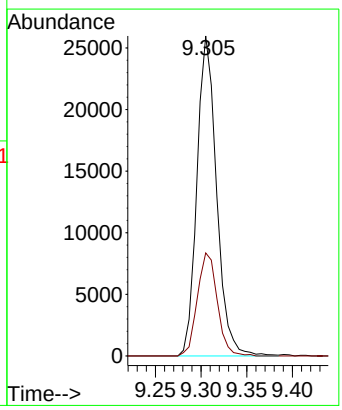
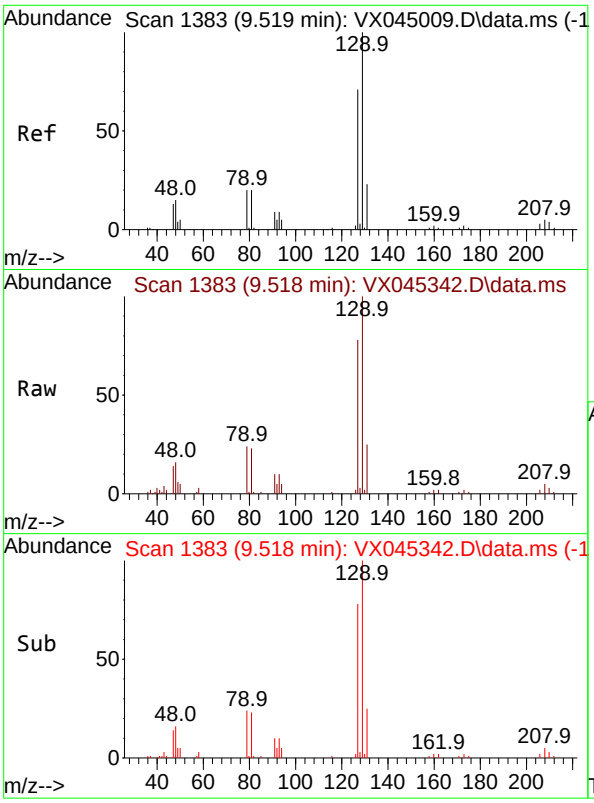


#52
1,3-Dichloropropane
Concen: 21.385 ug/l
RT: 9.305 min Scan# 1348
Delta R.T. -0.000 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion: 76 Resp: 38794

Ion	Ratio	Lower	Upper
76	100		
78	32.6	0.0	63.6

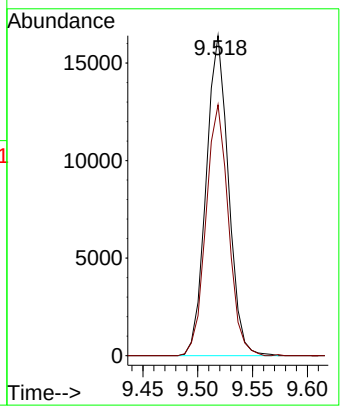




#53
Dibromochloromethane
Concen: 20.309 ug/l
RT: 9.518 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion:129 Resp: 2325

Ion	Ratio	Lower	Upper
129	100		
127	79.0	37.3	111.9



Instrument :
MSVOA_X
ClientSampleId :
VX0319WBSD01

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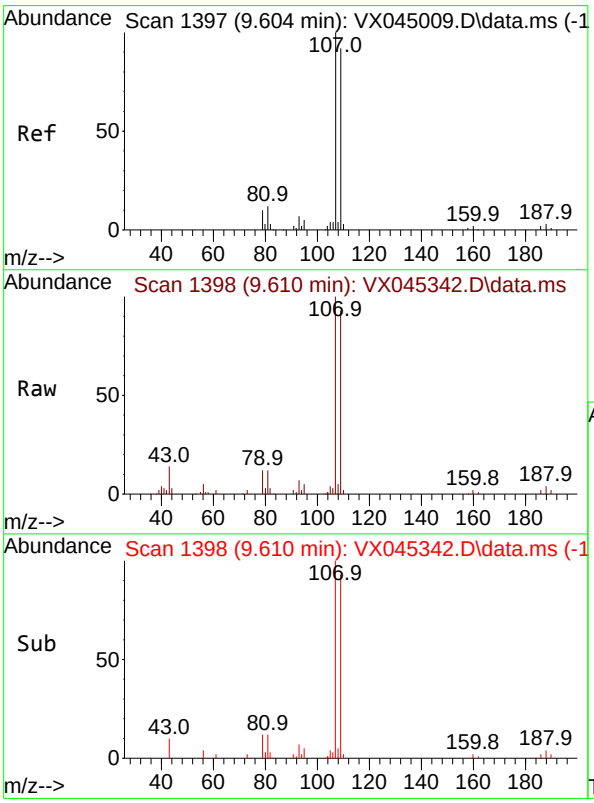
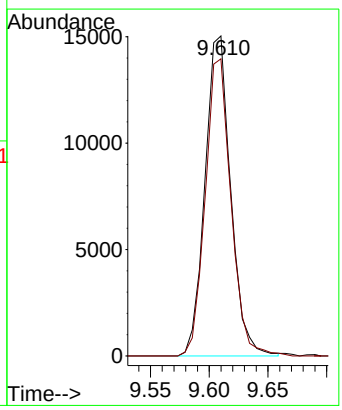
Reviewed By :John Carlone 03/20/2025
Supervised By :Mahesh Dadoda 03/20/2025

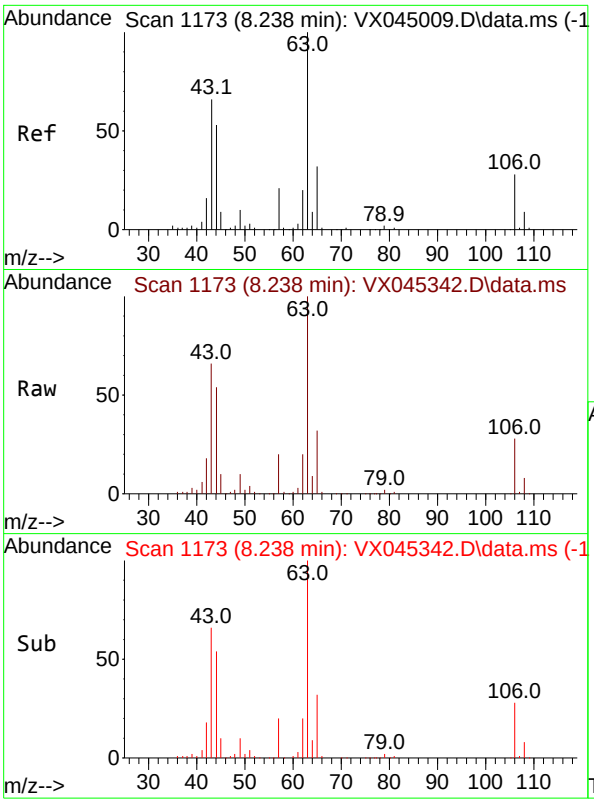


#54
1,2-Dibromoethane
Concen: 21.782 ug/l
RT: 9.610 min Scan# 1398
Delta R.T. 0.006 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion:107 Resp: 22899

Ion	Ratio	Lower	Upper
107	100		
109	93.0	75.8	113.8

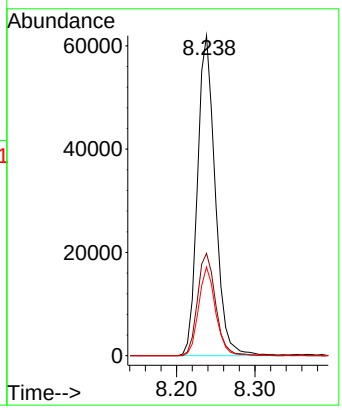




#55
2-Chloroethyl vinyl ether
Concen: 116.377 ug/l
RT: 8.238 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion: 63 Resp: 9730

Ion	Ratio	Lower	Upper
63	100		
65	32.6	26.2	39.2
106	26.5	21.2	31.8



Instrument :
MSVOA_X
ClientSampleId :
VX0319WBSD01

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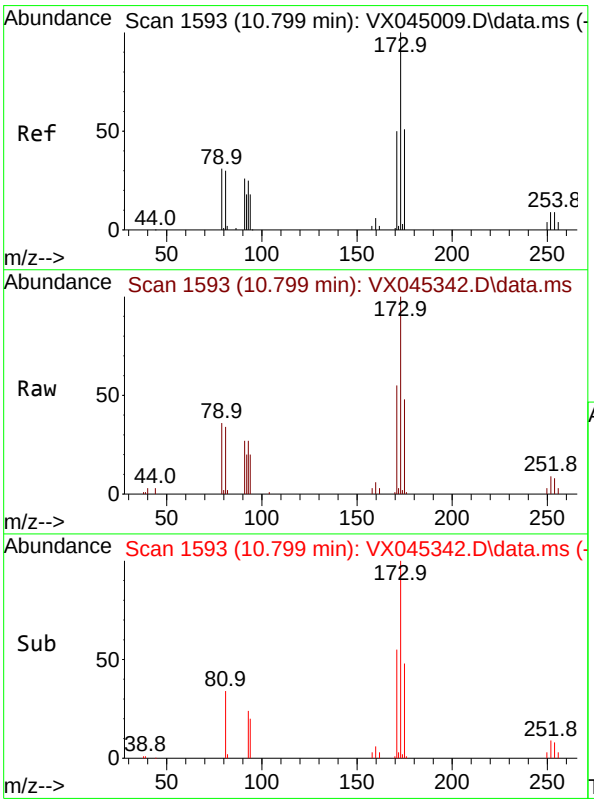
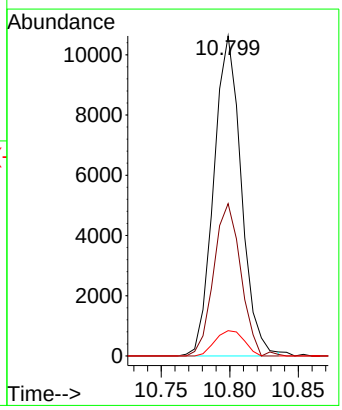
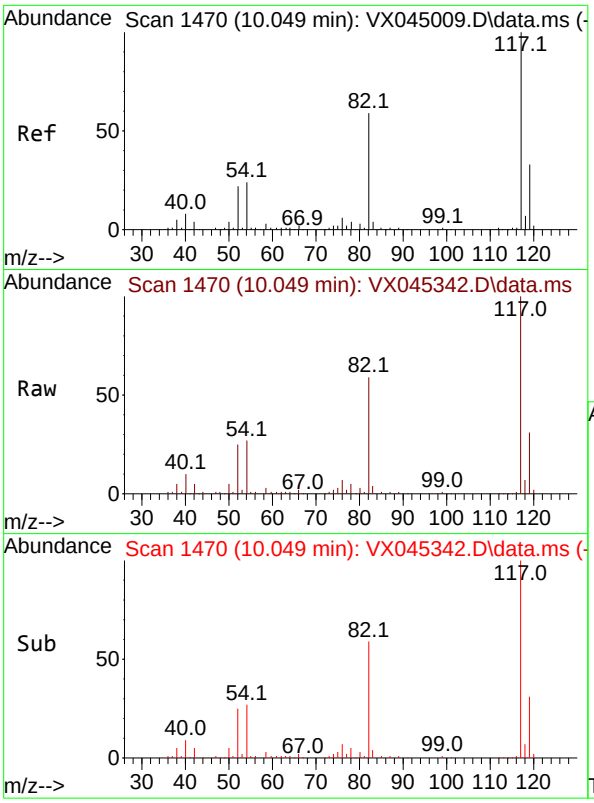


#56
Bromoform
Concen: 20.701 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. -0.000 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion:173 Resp: 14853

Ion	Ratio	Lower	Upper
173	100		
175	46.5	39.6	59.4
254	8.4	6.3	9.5





#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion:117 Resp: 7453

Ion	Ratio	Lower	Upper
117	100		
82	57.9	45.8	68.8
119	31.7	25.5	38.3

Instrument :
MSVOA_X
ClientSampleId :
VX0319WBSD01

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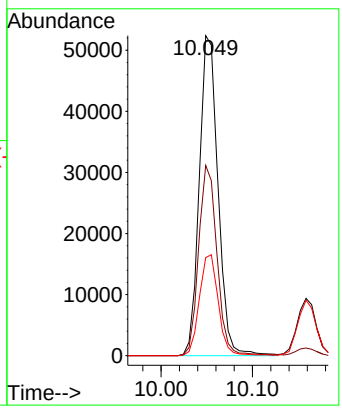
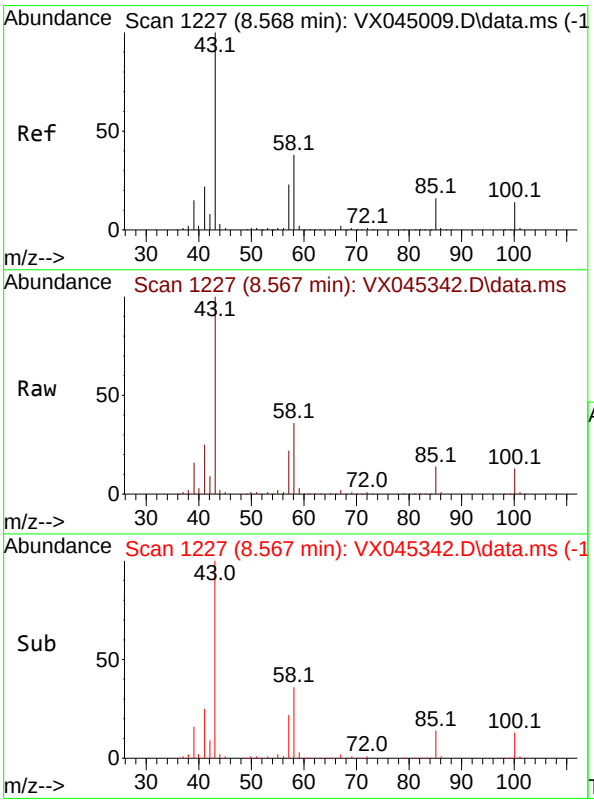
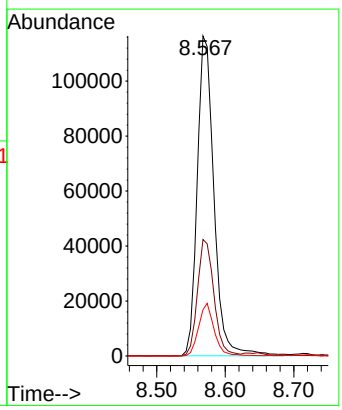


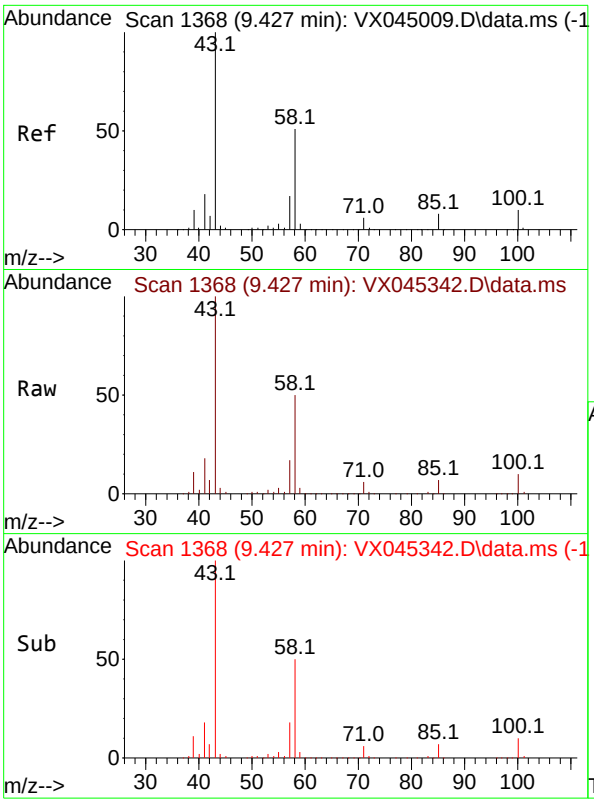


#58
4-Methyl-2-Pentanone
Concen: 116.520 ug/l
RT: 8.567 min Scan# 1227
Delta R.T. -0.000 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion: 43 Resp: 197562

Ion	Ratio	Lower	Upper
43	100		
58	35.9	29.5	44.3
85	15.4	12.9	19.3





#59
2-Hexanone
Concen: 117.085 ug/l
RT: 9.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion: 43 Resp: 14349

Ion	Ratio	Lower	Upper
43	100		
58	50.4	41.6	62.4
57	17.3	13.8	20.6

Instrument :
MSVOA_X
ClientSampleId :
VX0319WBSD01

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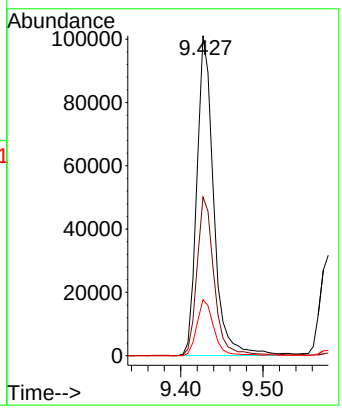
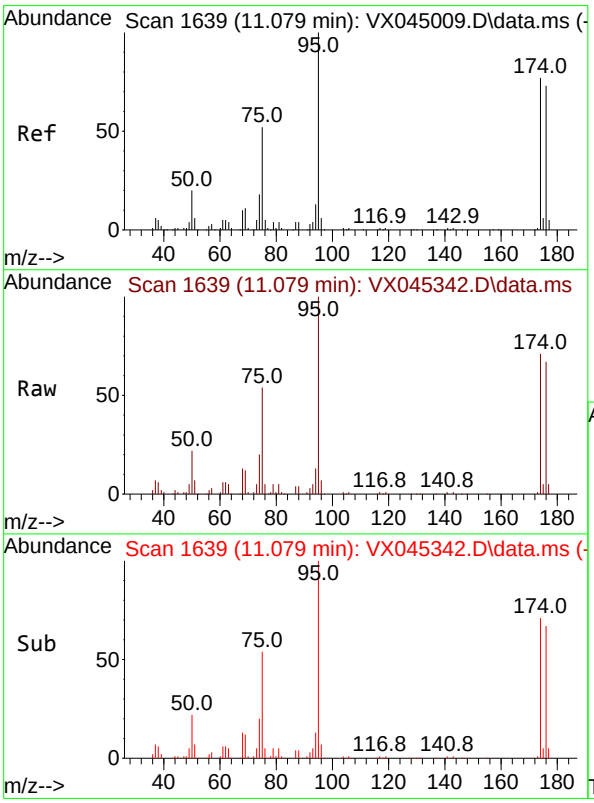
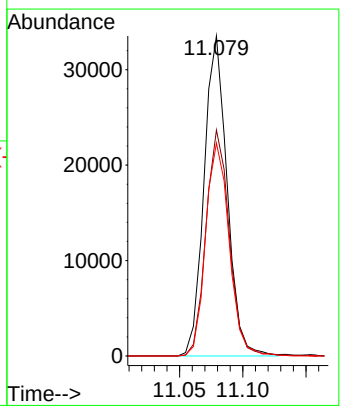


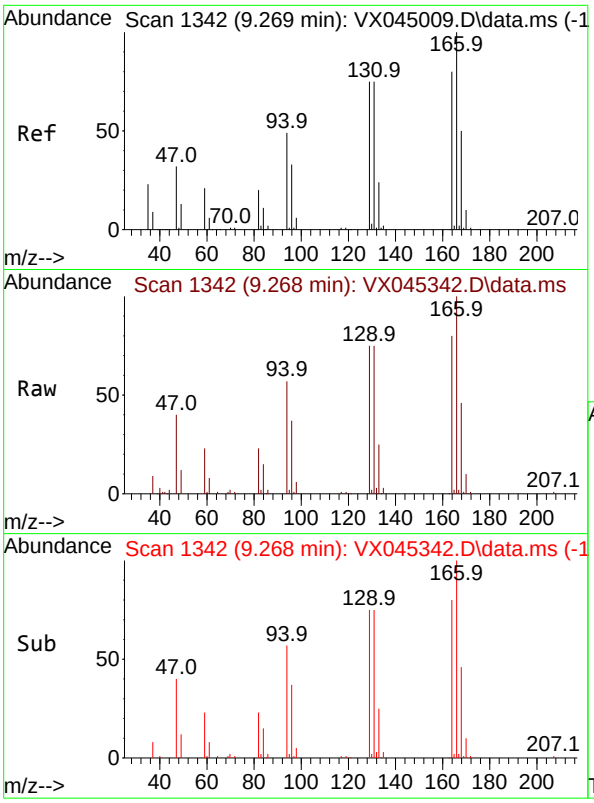


#60
4-Bromofluorobenzene
Concen: 30.486 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion: 95 Resp: 42472

Ion	Ratio	Lower	Upper
95	100		
174	71.3	59.5	89.3
176	67.8	55.5	83.3

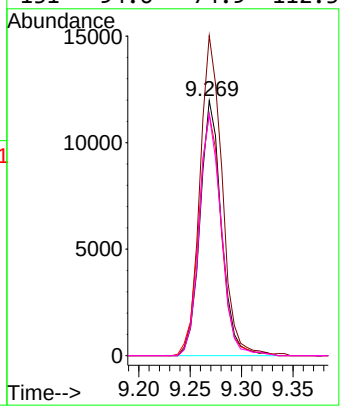




#61
Tetrachloroethene
Concen: 18.890 ug/l
RT: 9.268 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion:164 Resp: 1733

Ion	Ratio	Lower	Upper
164	100		
166	125.5	100.3	150.5
129	94.7	75.5	113.3
131	94.6	74.9	112.3



Instrument :
MSVOA_X
ClientSampleId :
VX0319WBSD01

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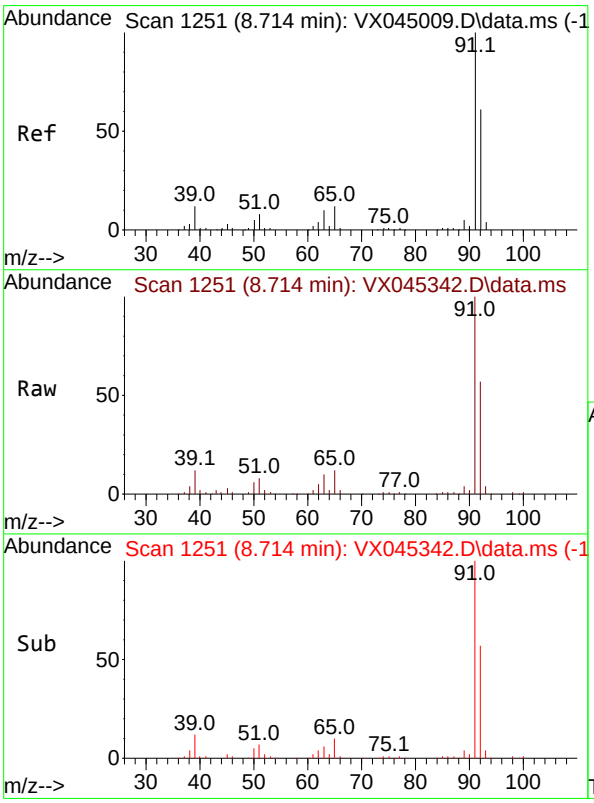
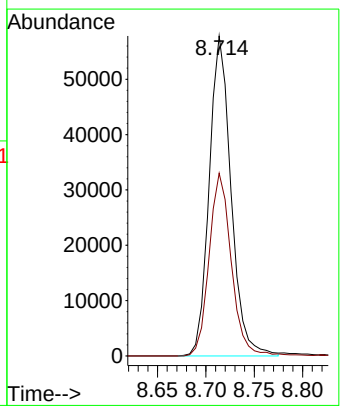
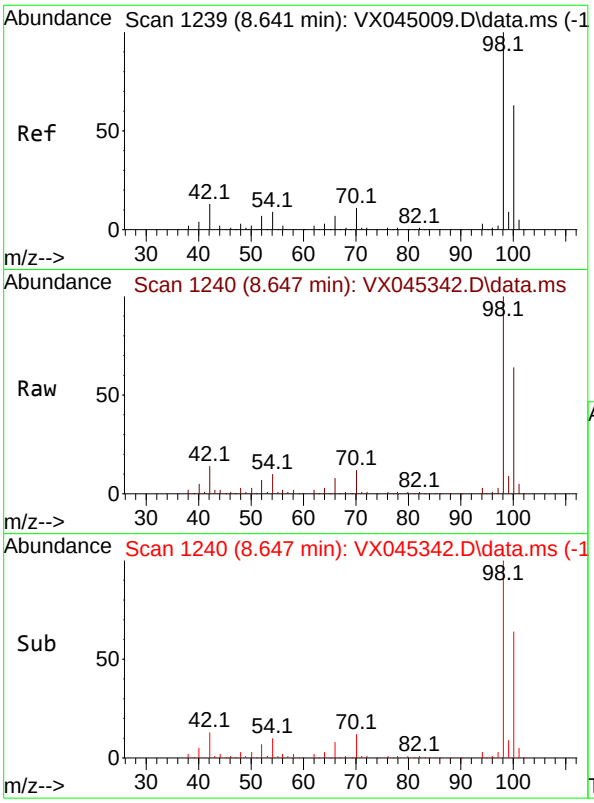


#62
Toluene
Concen: 18.417 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion: 91 Resp: 90934

Ion	Ratio	Lower	Upper
91	100		
92	57.6	46.9	70.3

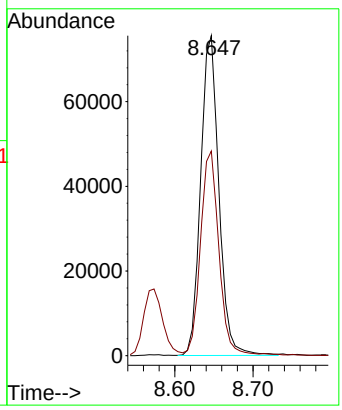




#63
Toluene-d8
Concen: 29.566 ug/l
RT: 8.647 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion: 98 Resp: 12191

Ion	Ratio	Lower	Upper
98	100		
100	63.3	51.7	77.5



Instrument :
MSVOA_X
ClientSampleId :
VX0319WBSD01

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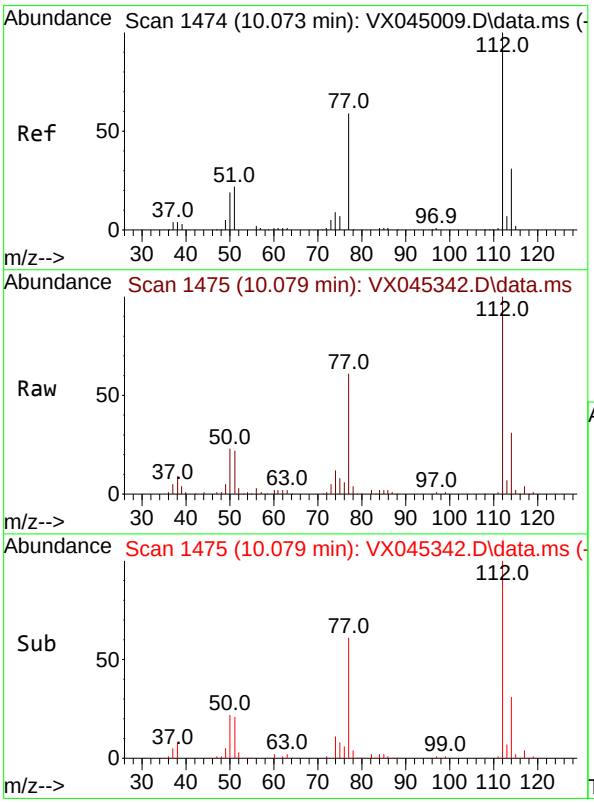
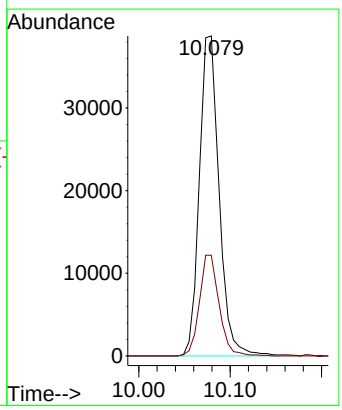
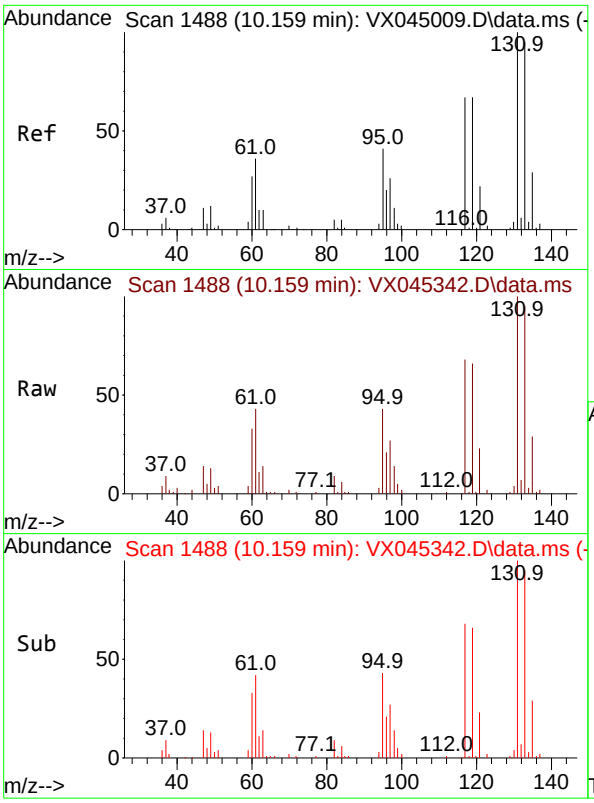


#64
Chlorobenzene
Concen: 18.969 ug/l
RT: 10.079 min Scan# 1475
Delta R.T. 0.006 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion:112 Resp: 58036

Ion	Ratio	Lower	Upper
112	100		
114	31.4	24.7	37.1





#65
1,1,1,2-Tetrachloroethane
Concen: 18.893 ug/l
RT: 10.159 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion:131 Resp: 1907

Ion	Ratio	Lower	Upper
131	100		
133	96.4	0.0	187.8
119	66.5	0.0	133.0

Instrument :
MSVOA_X
ClientSampleId :
VX0319WBSD01

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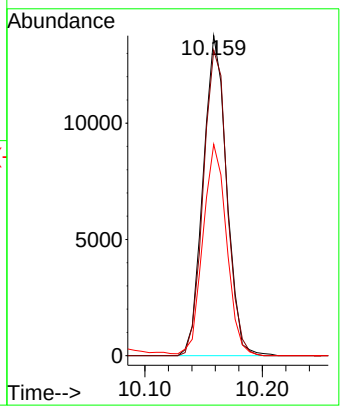
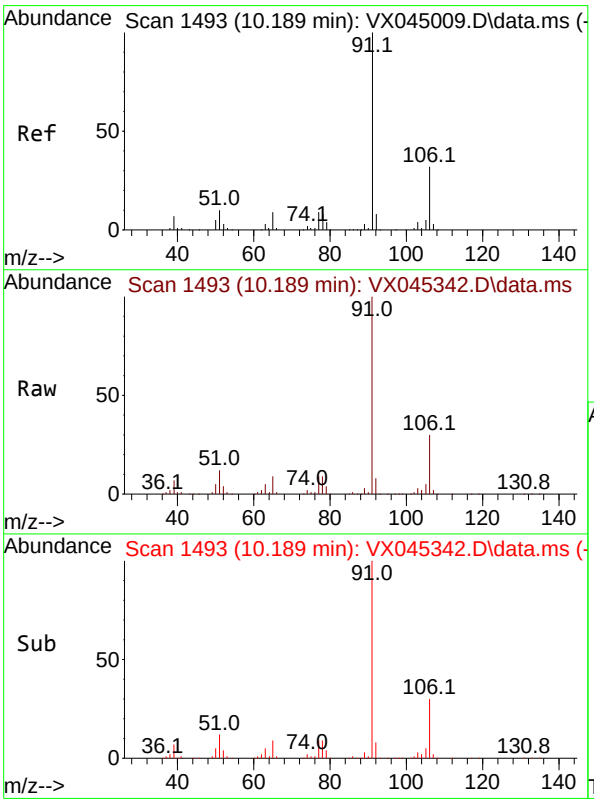
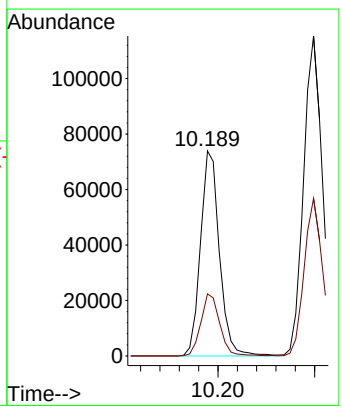


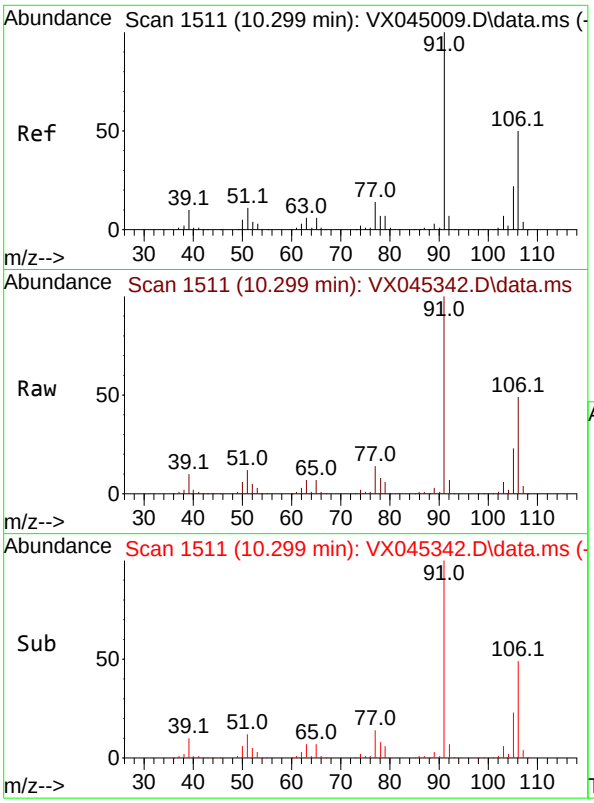


#66
Ethyl Benzene
Concen: 18.652 ug/l
RT: 10.189 min Scan# 1493
Delta R.T. -0.000 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion: 91 Resp: 100826

Ion	Ratio	Lower	Upper
91	100		
106	30.3	25.4	38.2

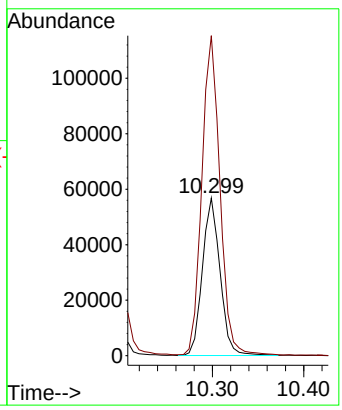




#67
m/p-Xylenes
Concen: 37.748 ug/l
RT: 10.299 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion:106 Resp: 7602

Ion	Ratio	Lower	Upper
106	100		
91	208.2	163.7	245.5



Instrument :
MSVOA_X
ClientSampleId :
VX0319WBSD01

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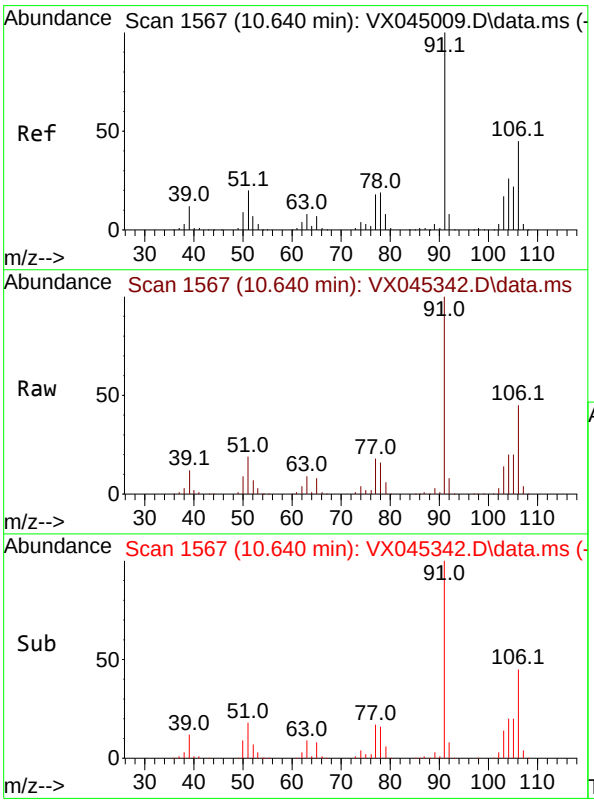
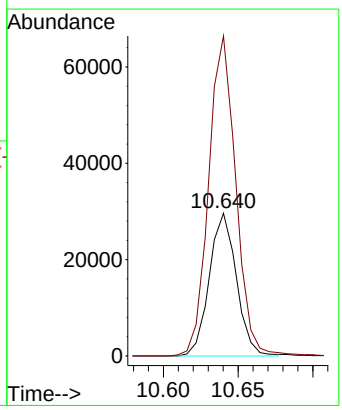
Supervised By :Mahesh Dadoda 03/20/2025

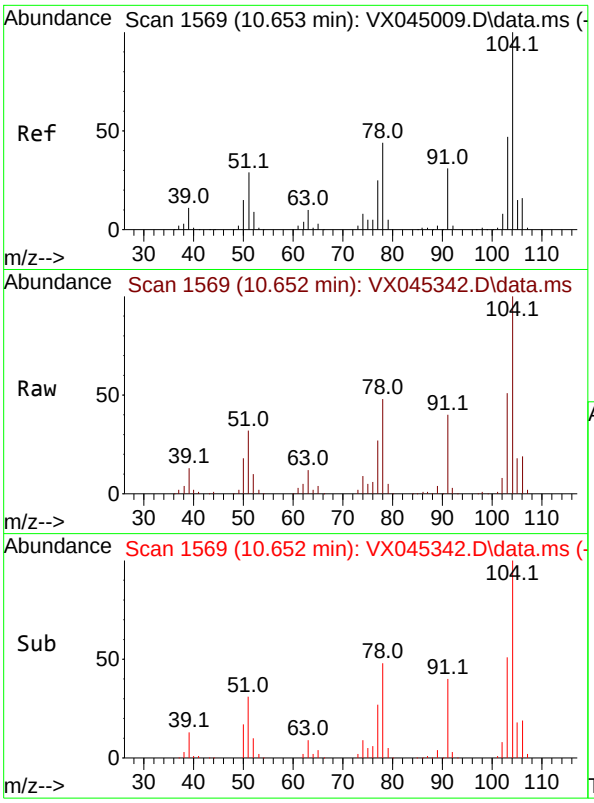


#68
o-Xylene
Concen: 18.914 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion:106 Resp: 37375

Ion	Ratio	Lower	Upper
106	100		
91	225.0	109.7	329.1





#69
Styrene
Concen: 19.095 ug/l
RT: 10.652 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion:104 Resp: 6302

Ion	Ratio	Lower	Upper
104	100		
78	53.9	41.4	62.0
103	54.4	43.0	64.4

Instrument :
MSVOA_X
ClientSampleId :
VX0319WBSD01

Manual Integrations
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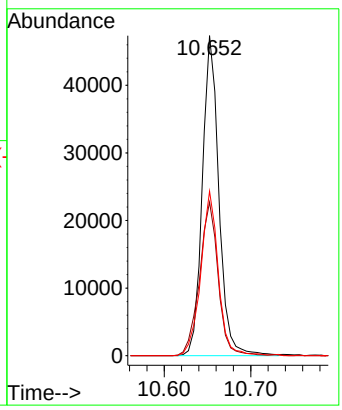
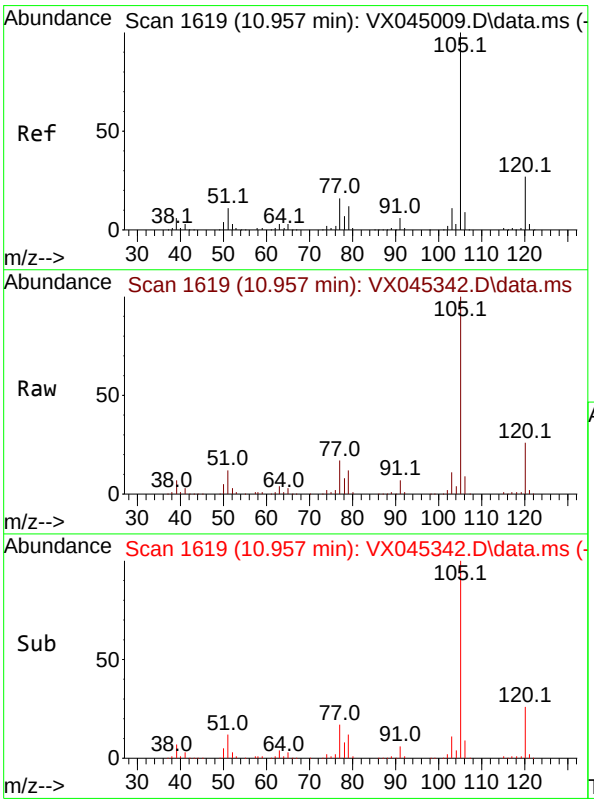
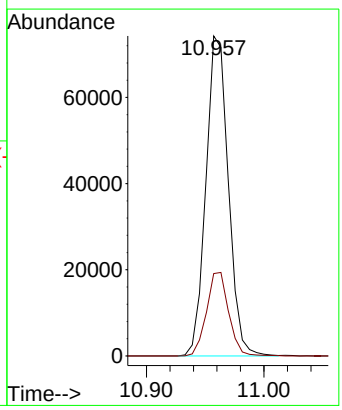


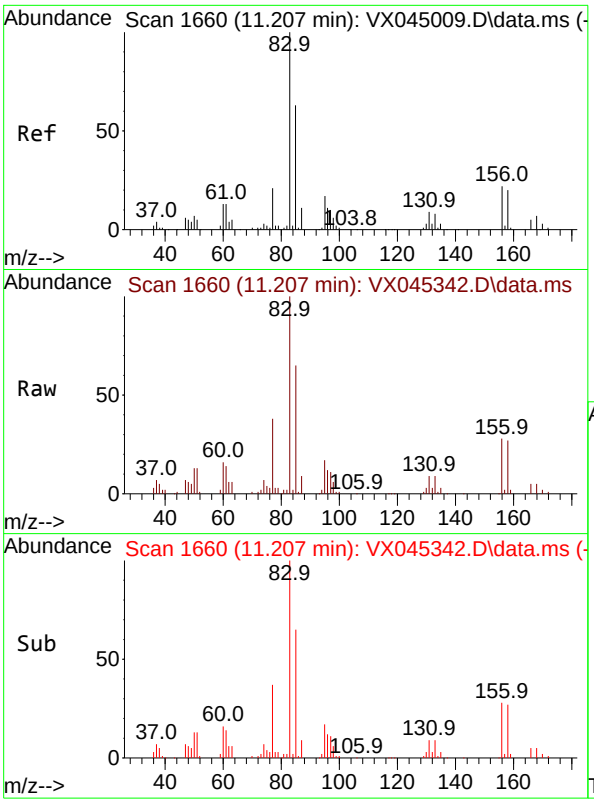


#70
Isopropylbenzene
Concen: 19.312 ug/l
RT: 10.957 min Scan# 1619
Delta R.T. -0.000 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion:105 Resp: 98479

Ion	Ratio	Lower	Upper
105	100		
120	25.8	18.4	34.2





#71
1,1,2,2-Tetrachloroethane
Concen: 21.445 ug/l
RT: 11.207 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion: 83 Resp: 3596

Ion	Ratio	Lower	Upper
83	100		
131	9.8	4.8	14.3
85	64.9	32.3	96.8

Instrument :
MSVOA_X
ClientSampleId :
VX0319WBSD01

Manual Integrations
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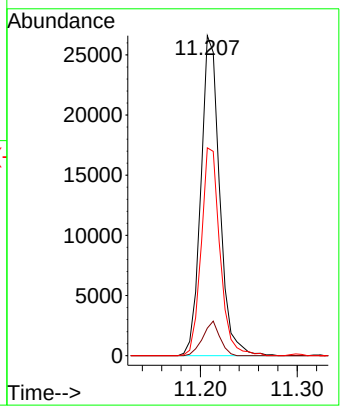
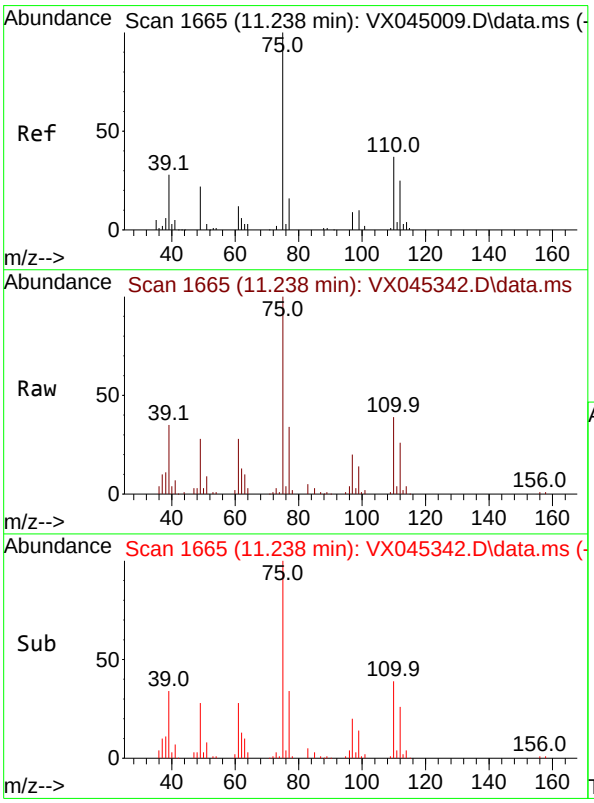
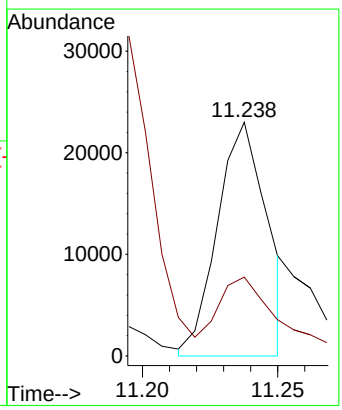


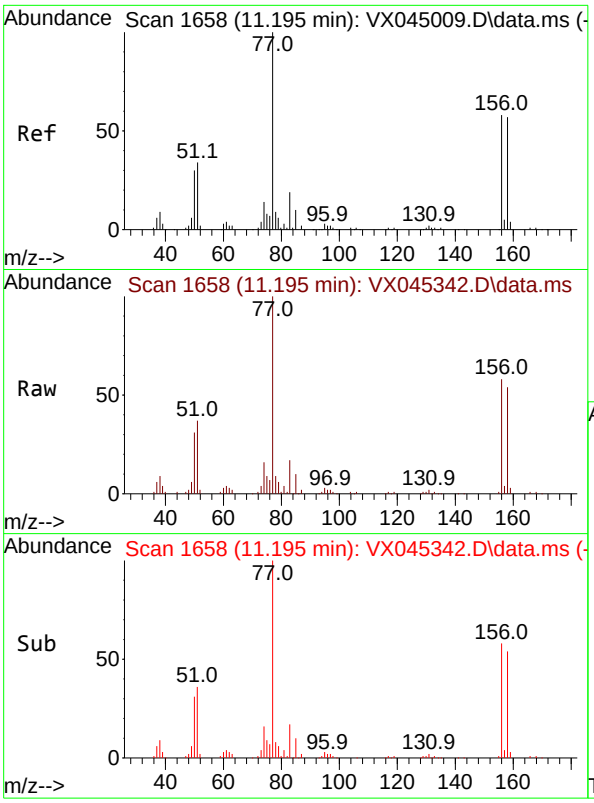


#72
1,2,3-Trichloropropane
Concen: 21.229 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion: 75 Resp: 29280

Ion	Ratio	Lower	Upper
75	100		
77	42.7	0.0	84.0





#73
Bromobenzene
Concen: 19.446 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion:156 Resp: 2282

Ion	Ratio	Lower	Upper
156	100		
77	175.7	0.0	347.2
158	95.9	0.0	197.6

Instrument :
MSVOA_X
ClientSampleId :
VX0319WBSD01

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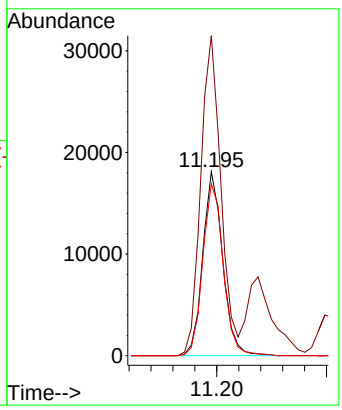
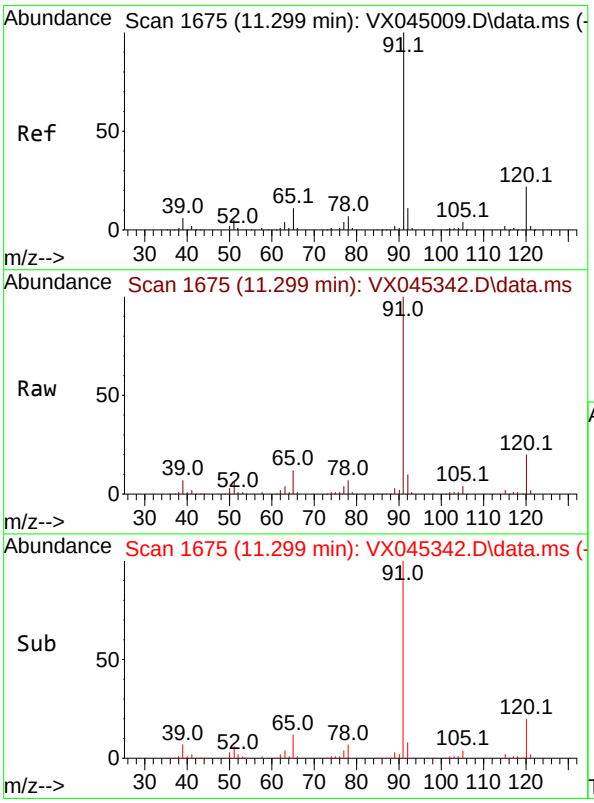
Supervised By :Mahesh Dadoda 03/20/2025

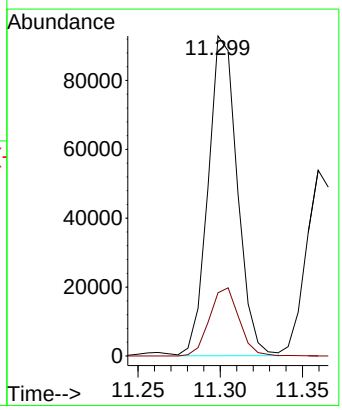


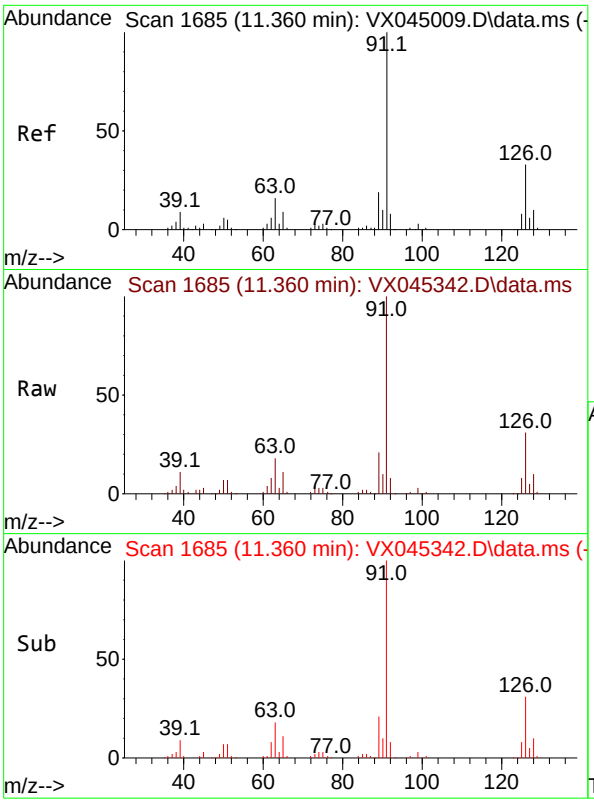


#74
n-propylbenzene
Concen: 18.919 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. -0.000 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion: 91 Resp: 114810

Ion	Ratio	Lower	Upper
91	100		
120	21.5	0.0	44.2





#75
2-Chlorotoluene
Concen: 19.250 ug/l
RT: 11.360 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion: 91 Resp: 7062

Ion	Ratio	Lower	Upper
91	100		
126	32.3	0.0	65.4

Instrument :
MSVOA_X
ClientSampleId :
VX0319WBSD01

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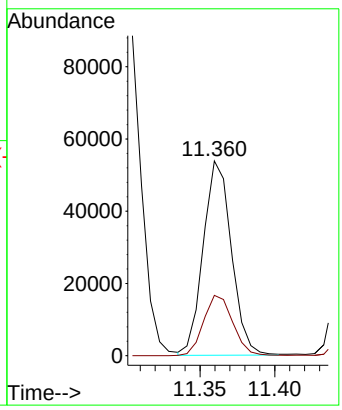
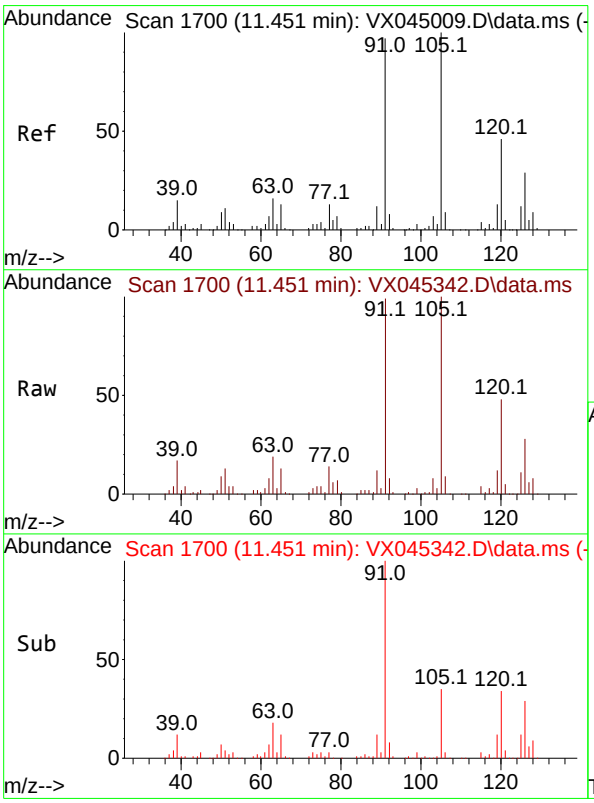
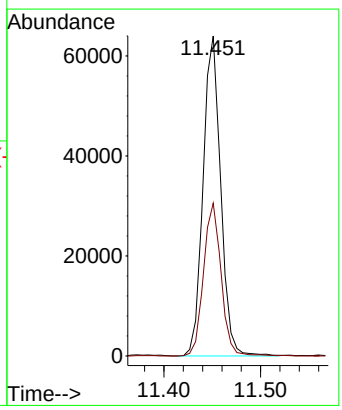


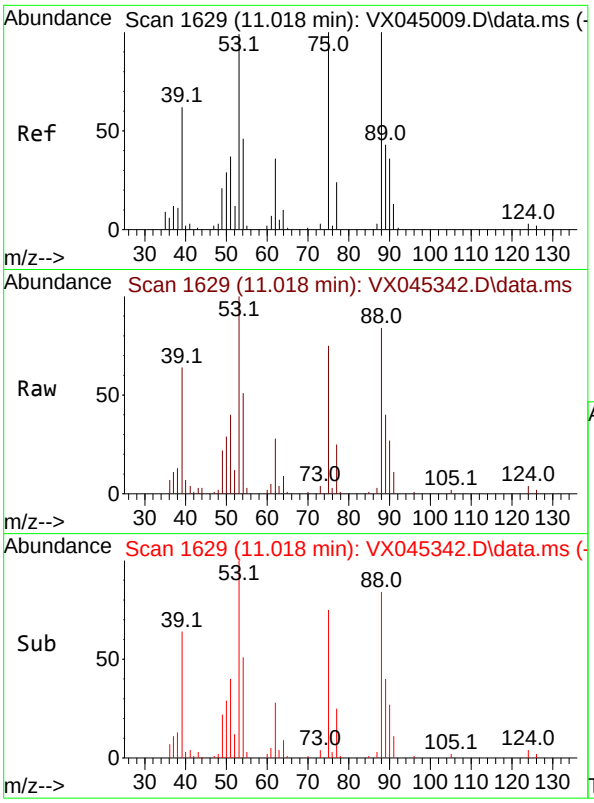


#76
1,3,5-Trimethylbenzene
Concen: 19.321 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion:105 Resp: 81283

Ion	Ratio	Lower	Upper
105	100		
120	47.3	0.0	94.4





#77
t-1,4-Dichloro-2-butene
Concen: 17.897 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion: 75 Resp: 830

Ion	Ratio	Lower	Upper
75	100		
53	132.4	49.8	149.4
89	52.1	21.4	64.2

Instrument :
MSVOA_X
ClientSampleId :
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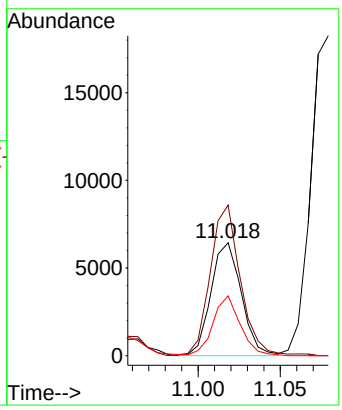
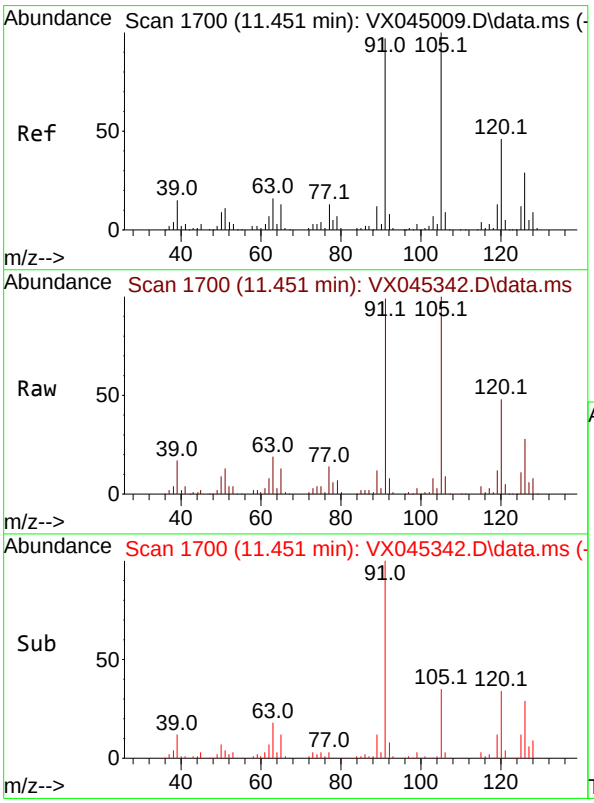
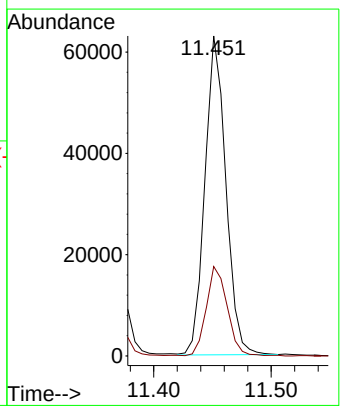


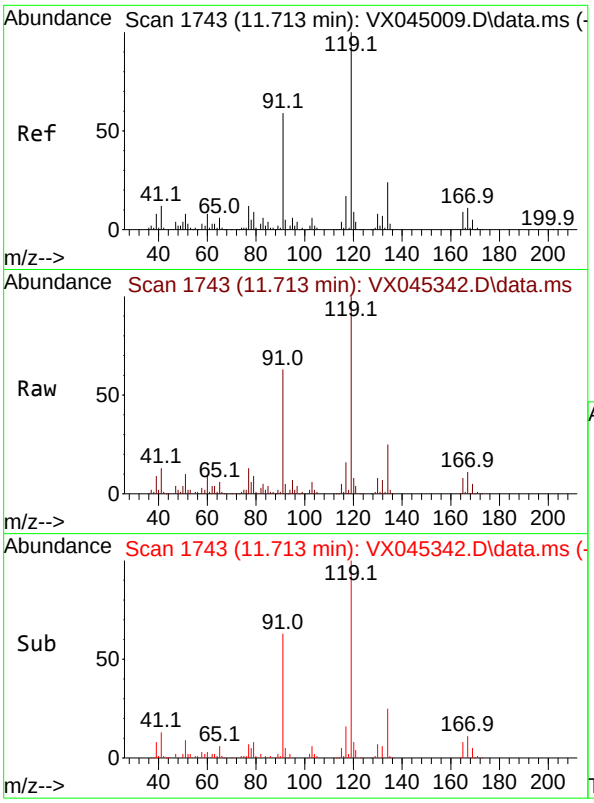


#78
4-Chlorotoluene
Concen: 19.014 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion: 91 Resp: 77762

Ion	Ratio	Lower	Upper
91	100		
126	28.1	0.0	58.0

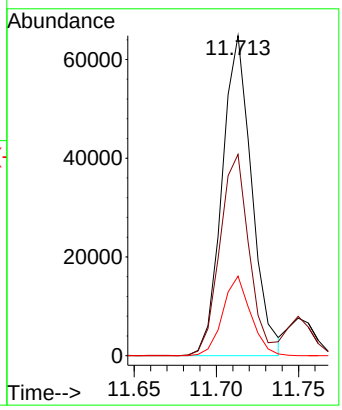




#79
tert-butylbenzene
Concen: 19.196 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion:119 Resp: 8136

Ion	Ratio	Lower	Upper
119	100		
91	61.7	0.0	120.6
134	23.4	0.0	48.2



Instrument :
MSVOA_X
ClientSampleId :
VX0319WBSD01

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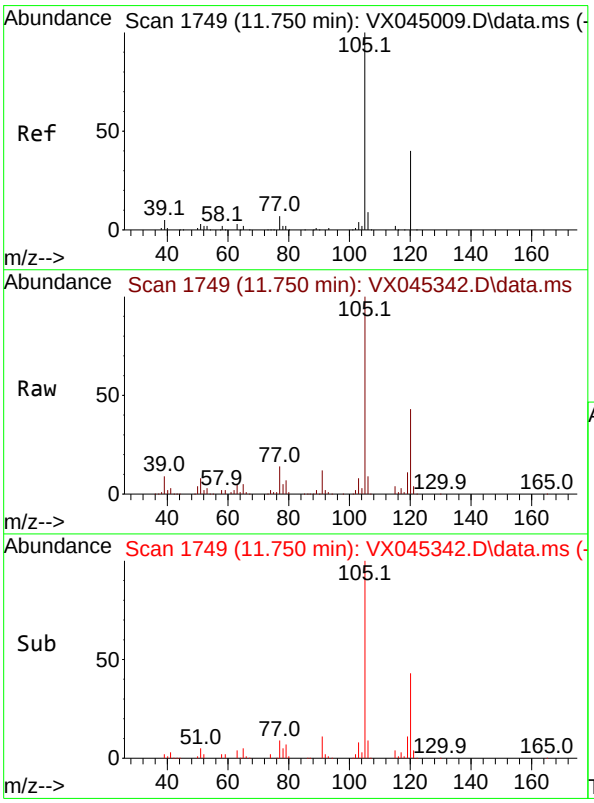
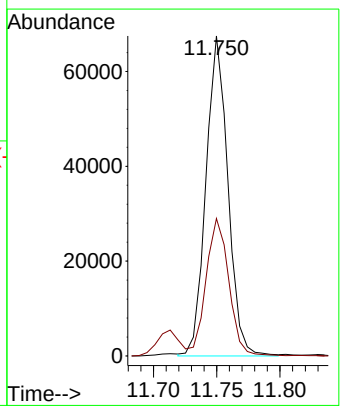
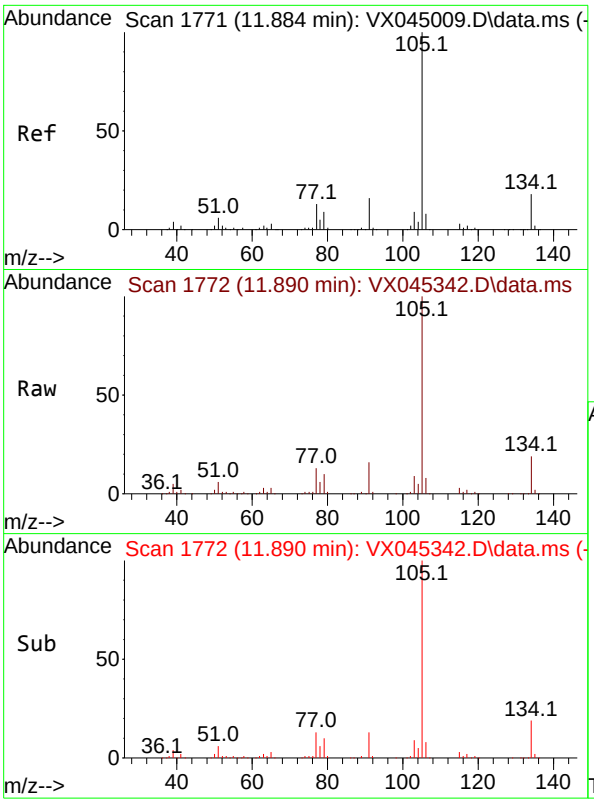


#80
1,2,4-Trimethylbenzene
Concen: 19.334 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion:105 Resp: 81476

Ion	Ratio	Lower	Upper
105	100		
120	44.7	0.0	88.4

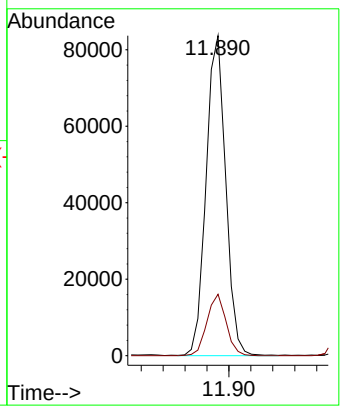




#81
sec-Butylbenzene
Concen: 19.527 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion:105 Resp: 10388

Ion	Ratio	Lower	Upper
105	100		
134	18.8	0.0	39.0



Instrument :
MSVOA_X
ClientSampleId :
VX0319WBSD01

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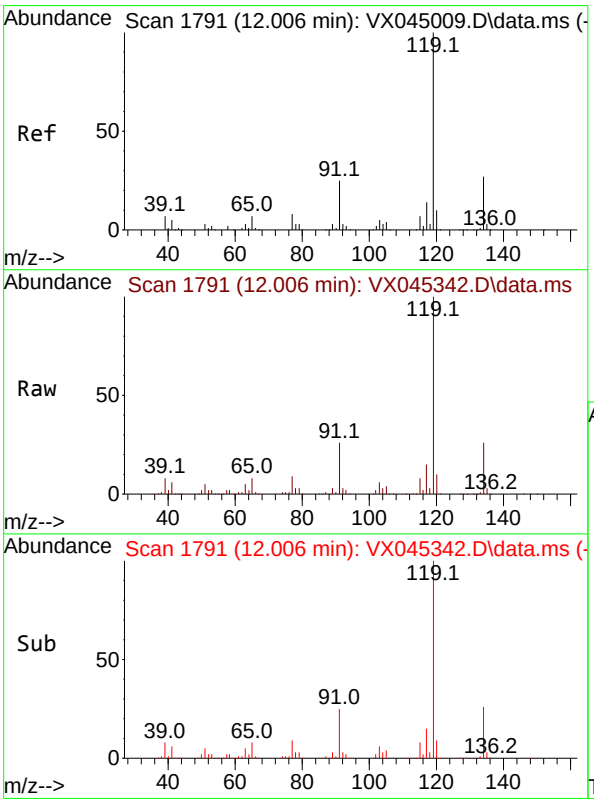
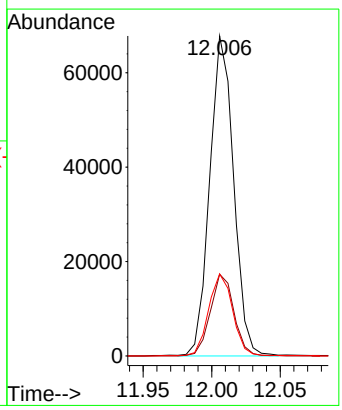
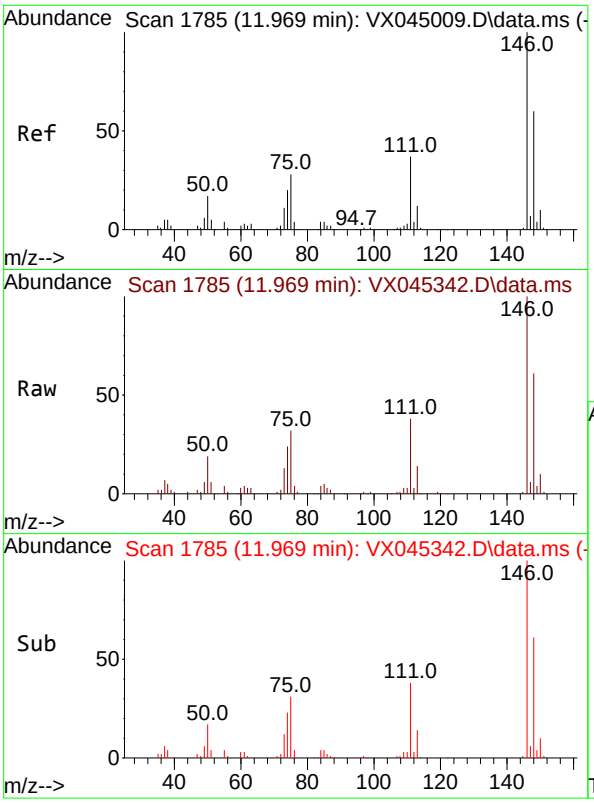


#82
p-Isopropyltoluene
Concen: 19.096 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion:119 Resp: 82311

Ion	Ratio	Lower	Upper
119	100		
134	25.2	0.0	52.6
91	25.6	0.0	51.0

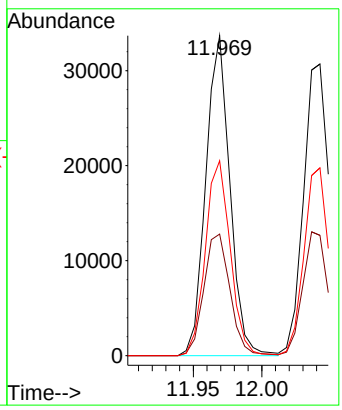




#83
1,3-Dichlorobenzene
Concen: 18.850 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion:146 Resp: 4117

Ion	Ratio	Lower	Upper
146	100		
111	41.4	20.2	60.5
148	63.0	31.2	93.6



Instrument :
MSVOA_X
ClientSampleId :
VX0319WBSD01

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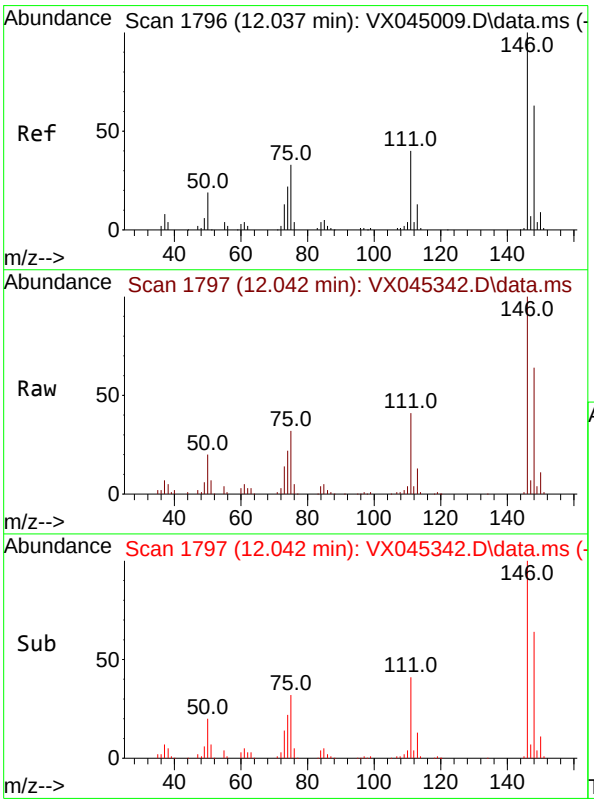
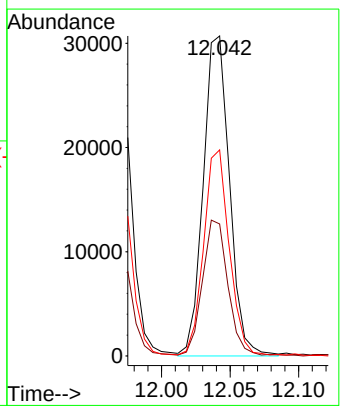
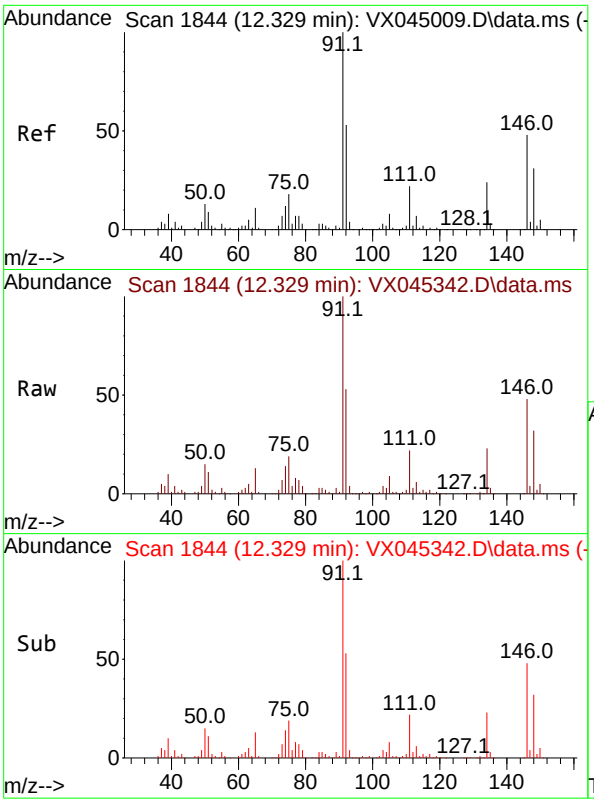


#84
1,4-Dichlorobenzene
Concen: 19.006 ug/l
RT: 12.042 min Scan# 1797
Delta R.T. 0.006 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion:146 Resp: 40932

Ion	Ratio	Lower	Upper
146	100		
111	41.2	20.4	61.2
148	63.0	31.8	95.4

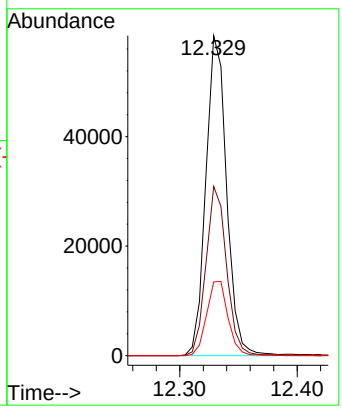




#85
n-Butylbenzene
Concen: 18.177 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion: 91 Resp: 7154

Ion	Ratio	Lower	Upper
91	100		
92	52.2	0.0	105.2
134	24.1	0.0	49.4



Instrument :
MSVOA_X
ClientSampleId :
VX0319WBSD01

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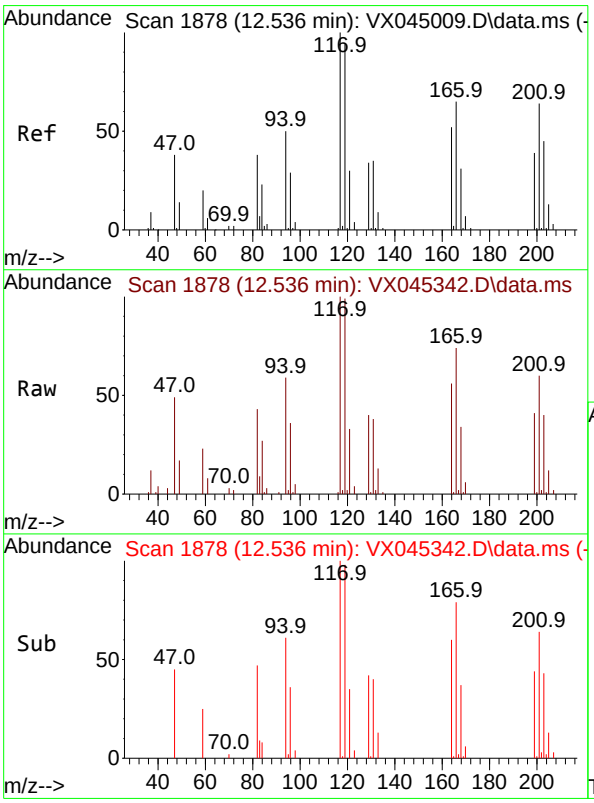
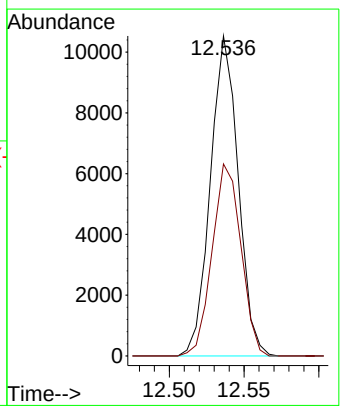
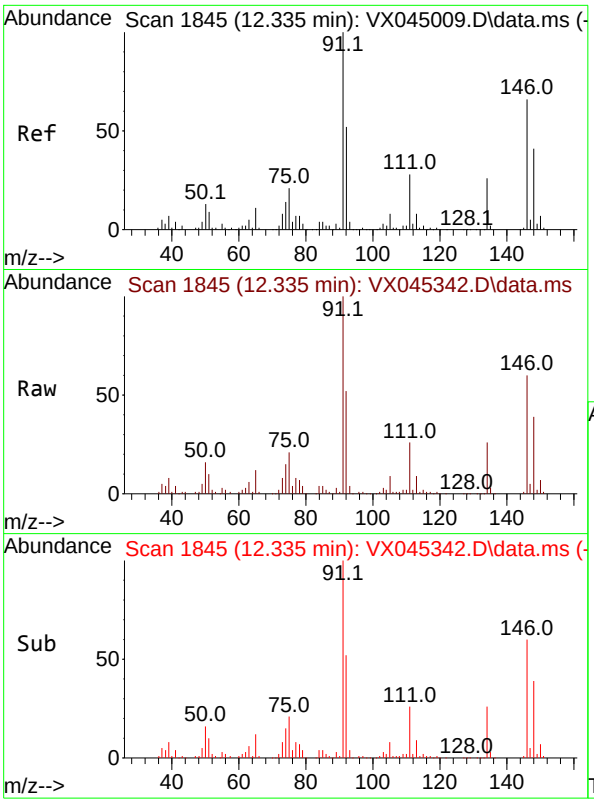


#86
Hexachloroethane
Concen: 17.931 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion:117 Resp: 13631

Ion	Ratio	Lower	Upper
117	100		
201	62.0	32.6	97.7

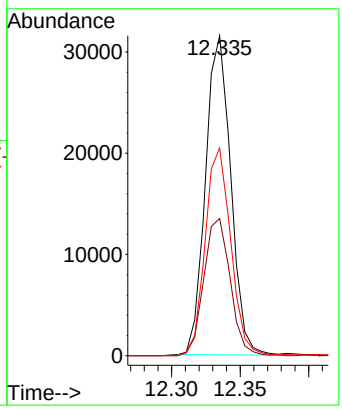




#87
1,2-Dichlorobenzene
Concen: 18.859 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion:146 Resp: 4041

Ion	Ratio	Lower	Upper
146	100		
111	44.9	21.7	65.1
148	66.0	31.8	95.4



Instrument :
MSVOA_X
ClientSampleId :
VX0319WBSD01

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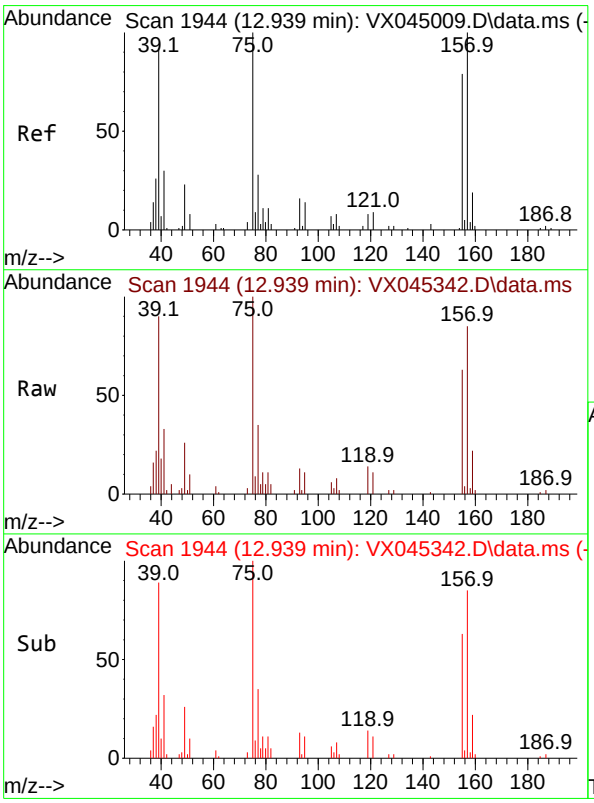
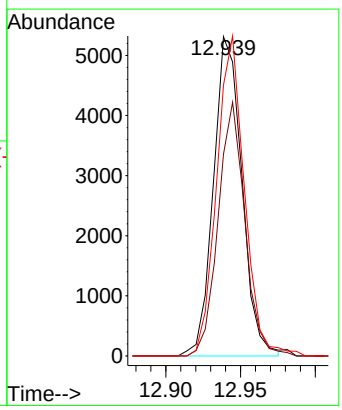
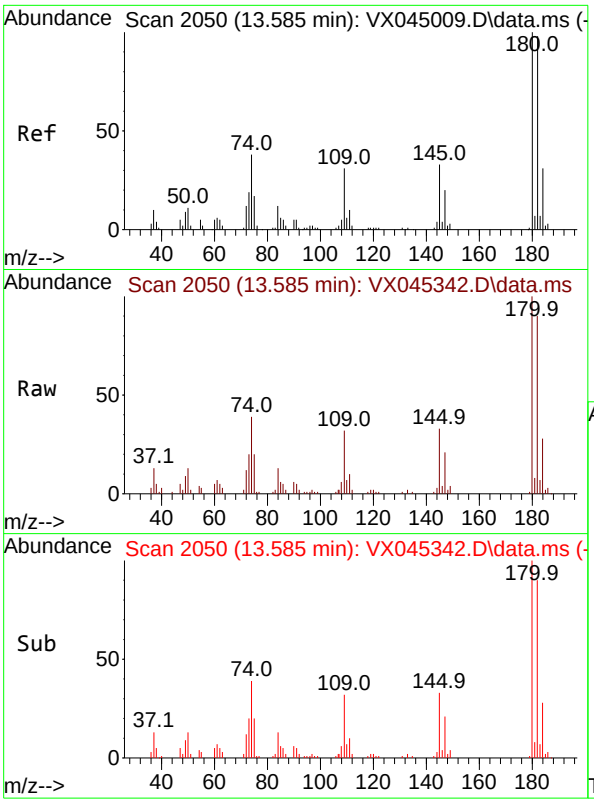


#88
1,2-Dibromo-3-Chloropropane
Concen: 21.644 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.000 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion: 75 Resp: 7027

Ion	Ratio	Lower	Upper
75	100		
155	74.7	66.2	99.4
157	97.6	81.4	122.2





#89
1,2,4-Trichlorobenzene
Concen: 17.712 ug/l
RT: 13.585 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Instrument :
MSVOA_X
ClientSampleId :
VX0319WBSD01

Tgt Ion:180 Resp: 2300

Ion	Ratio	Lower	Upper
180	100		
182	92.9	77.7	116.5
145	32.7	25.8	38.6

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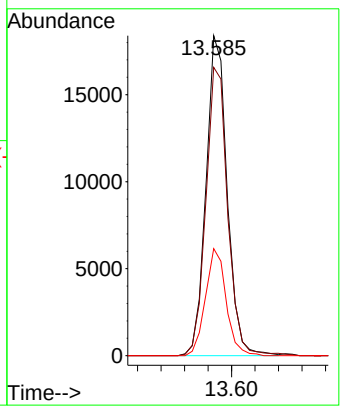
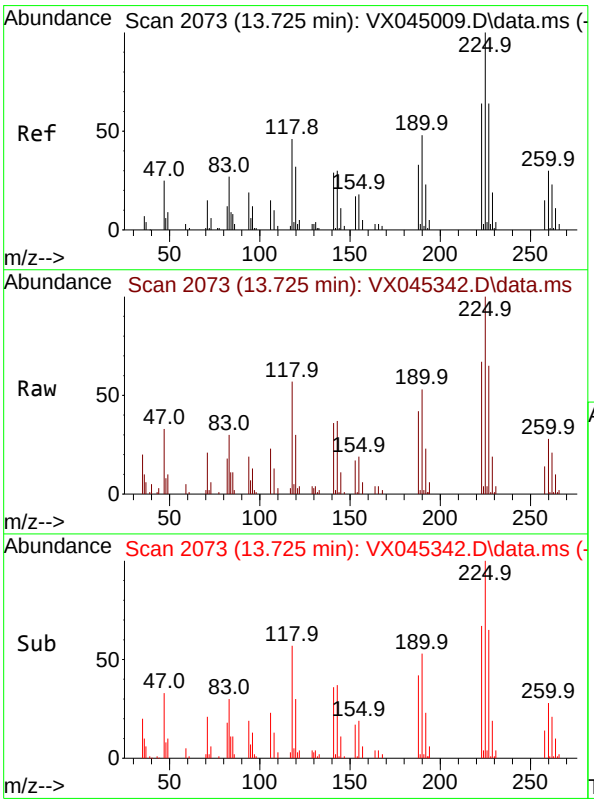
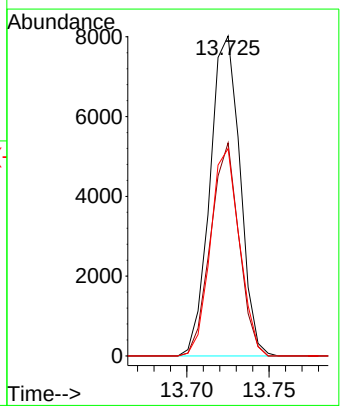


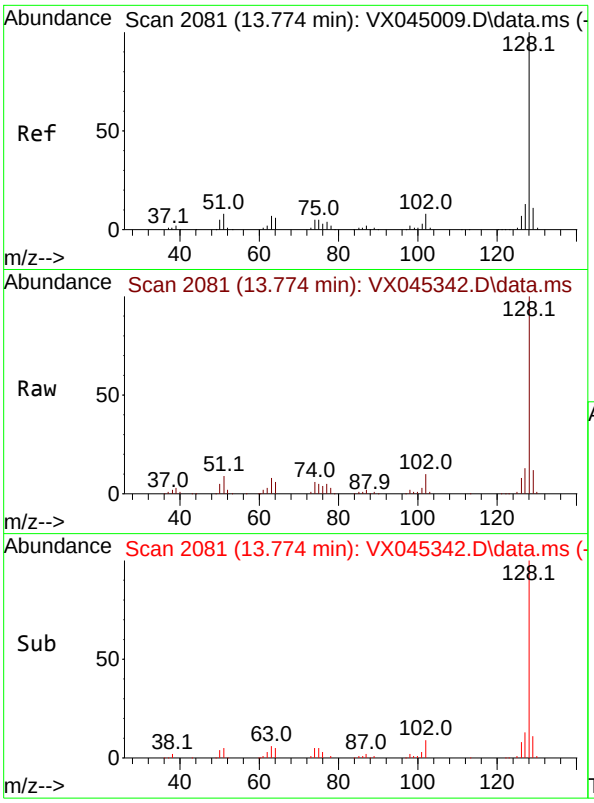


#90
Hexachlorobutadiene
Concen: 19.284 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion:225 Resp: 10215

Ion	Ratio	Lower	Upper
225	100		
223	62.7	0.0	123.4
227	62.5	0.0	127.4

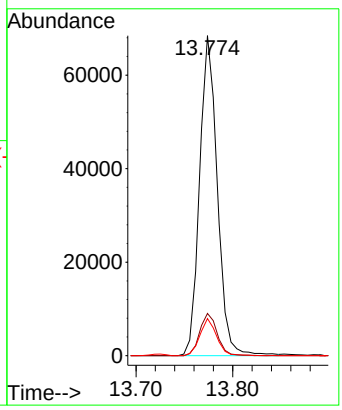




#91
Naphthalene
Concen: 19.117 ug/l
RT: 13.774 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion:128 Resp: 8755

Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.5	15.7
129	11.0	8.7	13.1



Instrument :
MSVOA_X
ClientSampleId :
VX0319WBSD01

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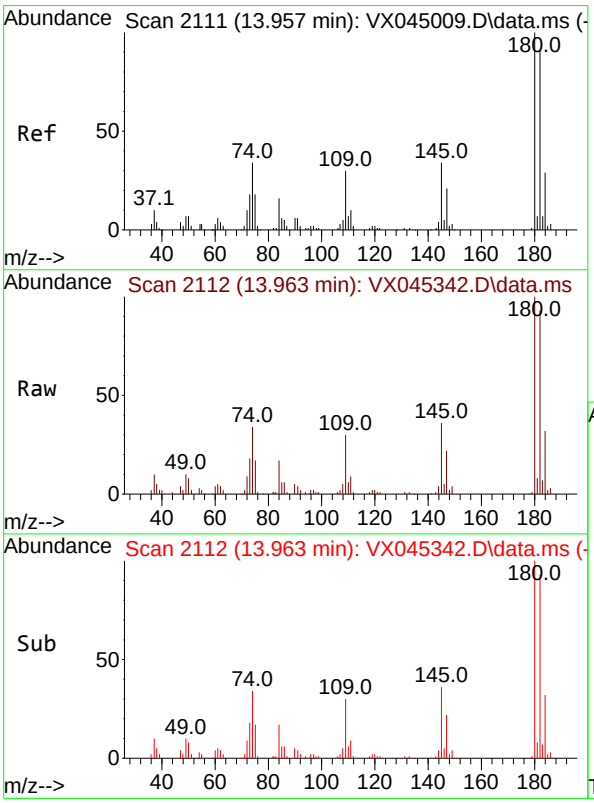
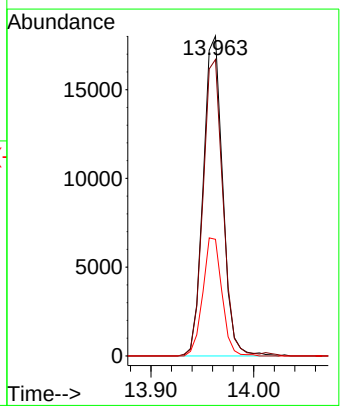
Reviewed By :John Carlone 03/20/2025
Supervised By :Mahesh Dadoda 03/20/2025



#92
1,2,3-Trichlorobenzene
Concen: 17.718 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. 0.006 min
Lab File: VX045342.D
Acq: 19 Mar 2025 12:15

Tgt Ion:180 Resp: 23693

Ion	Ratio	Lower	Upper
180	100		
182	94.3	0.0	186.6
145	36.3	0.0	68.4



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Manual Integration Report

Sequence:	VX022125	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC005	VX045008.D	1,2,3-Trichloropropane	JOHN	2/24/2025 9:45:07 AM	MMDadoda	2/24/2025 1:32:23 PM	Peak Integrated by Software
VSTDICC005	VX045008.D	Methacrylonitrile	JOHN	2/24/2025 9:45:07 AM	MMDadoda	2/24/2025 1:32:23 PM	Peak Integrated by Software
VSTDICC005	VX045008.D	tert-Butyl Alcohol	JOHN	2/24/2025 9:45:07 AM	MMDadoda	2/24/2025 1:32:23 PM	Peak Integrated by Software
VSTDICCC020	VX045009.D	1,2,3-Trichloropropane	JOHN	2/24/2025 9:45:15 AM	MMDadoda	2/24/2025 1:32:25 PM	Peak Integrated by Software
VSTDICC050	VX045010.D	1,2,3-Trichloropropane	JOHN	2/24/2025 9:45:26 AM	MMDadoda	2/24/2025 1:32:38 PM	Peak Integrated by Software
VSTDICC100	VX045011.D	1,2,3-Trichloropropane	JOHN	2/24/2025 9:45:31 AM	MMDadoda	2/24/2025 1:32:41 PM	Peak Integrated by Software
VSTDICC150	VX045012.D	1,2,3-Trichloropropane	JOHN	2/24/2025 9:45:36 AM	MMDadoda	2/24/2025 1:32:41 PM	Peak Integrated by Software
VSTDICC150	VX045012.D	tert-Butyl Alcohol	JOHN	2/24/2025 9:45:36 AM	MMDadoda	2/24/2025 1:32:41 PM	Peak Integrated by Software
VSTDICV020	VX045014.D	1,2,3-Trichloropropane	JOHN	2/24/2025 9:45:41 AM	MMDadoda	2/24/2025 1:32:43 PM	Peak Integrated by Software
VSTDCCC020	VX045020.D	1,2,3-Trichloropropane	JOHN	2/24/2025 9:46:10 AM	MMDadoda	2/24/2025 1:32:55 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	vx031925	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC020	VX045340.D	1,2,3-Trichloropropane	JOHN	3/20/2025 9:20:45 AM	MMDadoda	3/20/2025 1:12:32 PM	Peak Integrated by Software
VX0319WBS01	VX045341.D	1,2,3-Trichloropropane	JOHN	3/20/2025 9:20:50 AM	MMDadoda	3/20/2025 1:12:32 PM	Peak Integrated by Software
VX0319WBSD01	VX045342.D	1,2,3-Trichloropropane	JOHN	3/20/2025 9:20:55 AM	MMDadoda	3/20/2025 1:12:34 PM	Peak Integrated by Software
VSTDCCC020	VX045345.D	1,2,3-Trichloropropane	JOHN	3/20/2025 9:20:59 AM	MMDadoda	3/20/2025 1:12:35 PM	Peak Integrated by Software

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX022125

Review By	John Carlone	Review On	2/24/2025 9:46:31 AM		
Supervise By	Mahesh Dadoda	Supervise On	2/24/2025 1:33:06 PM		
SubDirectory	VX022125	HP Acquire Method		HP Processing Method	624X022125W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133095
Initial Calibration Stds	VP133103,VP133104,VP133105,VP133106,VP133107
CCC	VP133096,VP133109,VP133110
Internal Standard/PEM	
ICV/I.BLK	VP133108
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX045007.D	21 Feb 2025 09:31	JC/MD	Ok
2	VSTDICC005	VX045008.D	21 Feb 2025 09:58	JC/MD	Ok,M
3	VSTDICCC020	VX045009.D	21 Feb 2025 10:21	JC/MD	Ok,M
4	VSTDICC050	VX045010.D	21 Feb 2025 10:44	JC/MD	Ok,M
5	VSTDICC100	VX045011.D	21 Feb 2025 11:07	JC/MD	Ok,M
6	VSTDICC150	VX045012.D	21 Feb 2025 11:29	JC/MD	Ok,M
7	IBLK	VX045013.D	21 Feb 2025 11:52	JC/MD	Ok
8	VSTDICV020	VX045014.D	21 Feb 2025 13:09	JC/MD	Ok,M
9	VX0221WBS01	VX045015.D	21 Feb 2025 13:41	JC/MD	Ok,M
10	VX0221WBSD01	VX045016.D	21 Feb 2025 14:03	JC/MD	Ok,M
11	VX0221WBL01	VX045017.D	21 Feb 2025 14:39	JC/MD	Ok
12	Q1168-07 2.5PPB	VX045018.D	21 Feb 2025 15:12	JC/MD	Ok,M
13	Q1168-08 5.0PPB	VX045019.D	21 Feb 2025 15:38	JC/MD	Ok,M
14	VSTDCCC020	VX045020.D	21 Feb 2025 16:05	JC/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX031925

Review By	John Carlone	Review On	3/20/2025 9:21:12 AM		
Supervise By	Mahesh Dadoda	Supervise On	3/20/2025 1:12:47 PM		
SubDirectory	VX031925	HP Acquire Method		HP Processing Method	624X022125W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133390
Initial Calibration Stds	
CCC	VP133391,VP133392
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX045339.D	19 Mar 2025 10:11	JC/MD	Ok
2	VSTDCCC020	VX045340.D	19 Mar 2025 10:41	JC/MD	Ok,M
3	VX0319WBS01	VX045341.D	19 Mar 2025 11:41	JC/MD	Ok,M
4	VX0319WBSD01	VX045342.D	19 Mar 2025 12:15	JC/MD	Ok,M
5	VX0319WBL01	VX045343.D	19 Mar 2025 12:50	JC/MD	Ok
6	Q1502-02	VX045344.D	19 Mar 2025 13:18	JC/MD	Ok
7	VSTDCCC020	VX045345.D	19 Mar 2025 14:56	JC/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX022125

Review By	John Carlone	Review On	2/24/2025 9:46:31 AM		
Supervise By	Mahesh Dadoda	Supervise On	2/24/2025 1:33:06 PM		
SubDirectory	VX022125	HP Acquire Method		HP Processing Method	624X022125W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133095
Initial Calibration Stds	VP133103,VP133104,VP133105,VP133106,VP133107
CCC	VP133096,VP133109,VP133110
Internal Standard/PEM	
ICV/I.BLK	VP133108
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX045007.D	21 Feb 2025 09:31		JC/MD	Ok
2	VSTDICC005	VSTDICC005	VX045008.D	21 Feb 2025 09:58		JC/MD	Ok,M
3	VSTDICCC020	VSTDICCC020	VX045009.D	21 Feb 2025 10:21		JC/MD	Ok,M
4	VSTDICC050	VSTDICC050	VX045010.D	21 Feb 2025 10:44		JC/MD	Ok,M
5	VSTDICC100	VSTDICC100	VX045011.D	21 Feb 2025 11:07		JC/MD	Ok,M
6	VSTDICC150	VSTDICC150	VX045012.D	21 Feb 2025 11:29		JC/MD	Ok,M
7	IBLK	IBLK	VX045013.D	21 Feb 2025 11:52		JC/MD	Ok
8	VSTDICV020	ICVVX022125	VX045014.D	21 Feb 2025 13:09		JC/MD	Ok,M
9	VX0221WBS01	VX0221WBS01	VX045015.D	21 Feb 2025 13:41		JC/MD	Ok,M
10	VX0221WBSD01	VX0221WBSD01	VX045016.D	21 Feb 2025 14:03		JC/MD	Ok,M
11	VX0221WBL01	VX0221WBL01	VX045017.D	21 Feb 2025 14:39		JC/MD	Ok
12	Q1168-07 2.5PPB	LOD-MDL-WATER-01-(	VX045018.D	21 Feb 2025 15:12		JC/MD	Ok,M
13	Q1168-08 5.0PPB	LOQ-WATER-02-QT1-2	VX045019.D	21 Feb 2025 15:38		JC/MD	Ok,M
14	VSTDCCC020	VSTDCCC020EC	VX045020.D	21 Feb 2025 16:05		JC/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX031925

Review By	John Carlone	Review On	3/20/2025 9:21:12 AM		
Supervise By	Mahesh Dadoda	Supervise On	3/20/2025 1:12:47 PM		
SubDirectory	VX031925	HP Acquire Method		HP Processing Method	624X022125W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133390
Initial Calibration Stds	
CCC	VP133391,VP133392
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX045339.D	19 Mar 2025 10:11		JC/MD	Ok
2	VSTDCCC020	VSTDCCC020	VX045340.D	19 Mar 2025 10:41		JC/MD	Ok,M
3	VX0319WBS01	VX0319WBS01	VX045341.D	19 Mar 2025 11:41		JC/MD	Ok,M
4	VX0319WBSD01	VX0319WBSD01	VX045342.D	19 Mar 2025 12:15		JC/MD	Ok,M
5	VX0319WBL01	VX0319WBL01	VX045343.D	19 Mar 2025 12:50		JC/MD	Ok
6	Q1502-02	PT-VOA-WP	VX045344.D	19 Mar 2025 13:18		JC/MD	Ok
7	VSTDCCC020	VSTDCCC020EC	VX045345.D	19 Mar 2025 14:56		JC/MD	Ok,M

M : Manual Integration

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Prep Standard - Chemical Standard Summary

Order ID : Q1502

Test : VOCMS Group1

Prepbatch ID :

Sequence ID/Qc Batch ID: vx031925,

Standard ID :
VP131746,VP131767,VP132035,VP132096,VP133036,VP133174,VP133178,VP133244,VP133245,VP133246,VP133251,VP133342,VP133390,VP133391,VP133392,

Chemical ID :
V13391,V13457,V13460,V13465,V13466,V13706,V14154,V14175,V14176,V14289,V14433,V14439,V14521,V14522,V14580,V14613,V14614,V14624,V14630,V14631,V14632,V14633,V14722,V14723,V14724,V14744,V14754,V14809,V14814,V14842,V14872,V14873,V14874,V14875,V14883,V14885,V14896,V14897,V14898,V14899,W3112,

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
247	8260 Internal Standard, 250PPM	VP131746	11/22/2024	05/18/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 11/23/2024

FROM 0.50000ml of V14289 + 49.50000ml of V14154 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
218	BFB, 25PPM	VP131767	11/22/2024	05/18/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 11/27/2024

FROM 0.50000ml of V13391 + 49.50000ml of V14154 = 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	VP132035	12/10/2024	06/10/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 12/12/2024

FROM 1.00000ml of V14630 + 1.00000ml of V14631 + 1.00000ml of V14632 + 1.00000ml of V14633 + 46.00000ml of V14614 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
719	8260 Working STD (BCM)-First source, 400PPM	VP132096	12/12/2024	06/10/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 12/19/2024

FROM 1.00000ml of V13465 + 1.00000ml of V13466 + 1.50000ml of V13457 + 1.50000ml of V13460 + 20.00000ml of V14614 = 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
51	8260 Working STD (Acrolein) -first source, 800PPM	VP133036	02/14/2025	03/13/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 02/18/2025

FROM 1.00000ml of V14872 + 1.00000ml of V14873 + 1.00000ml of V14874 + 1.00000ml of V14875 + 21.00000ml of V14624 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
617	8260 Surrogate, 400PPM	VP133174	02/27/2025	08/27/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 03/04/2025

FROM 0.40000ml of V13706 + 24.60000ml of V14613 = Final Quantity: 25.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
257	8260 Calibration Working STD Mix-First source, 160PPM	VP133178	02/27/2025	03/31/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 03/04/2025

FROM 0.40000ml of V14842 + 1.00000ml of V14175 + 1.00000ml of V14176 + 1.00000ml of V14433 + 1.00000ml of V14439 + 1.00000ml of V14521 + 1.00000ml of V14522 + 1.00000ml of V14724 + 1.00000ml of V14744 + 1.00000ml of V14754 + 1.00000ml of V14809 + 1.00000ml of V14814 + 1.50000ml of V14722 + 1.50000ml of V14723 + 10.60000ml of V14613 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
589	BFB TUNE CHECK	VP133244	03/11/2025	03/12/2025	John Carlone	None	None	Romaben Patel 03/11/2025

FROM 39.98400ml of W3112 + 0.01600ml of VP131767 = Final Quantity: 40.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
620	50 PPB CCC, 8260-Water	VP133245	03/11/2025	03/12/2025	John Carlone	None	None	Romaben Patel 03/11/2025

FROM 39.94450ml of W3112 + 0.00500ml of VP132096 + 0.00500ml of VP133174 + 0.00800ml of VP131746 + 0.01250ml of VP132035 + 0.01250ml of VP133036 + 0.01250ml of VP133178 = 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	VP133246	03/11/2025	03/12/2025	John Carlone	None	None	Romaben Patel 03/11/2025

FROM 39.94450ml of W3112 + 0.00500ml of VP132096 + 0.00500ml of VP133174 + 0.00800ml of VP131746 + 0.01250ml of VP132035 + 0.01250ml of VP133036 + 0.01250ml of VP133178 = 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
466	624 Internal Standard and Surrogate Mix, 150PPM	VP133251	03/12/2025	07/02/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 03/21/2025

FROM 0.15000ml of V14580 + 0.15000ml of V14885 + 24.75000ml of V14624 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
51	8260 Working STD (Acrolein) -first source, 800PPM	VP133342	03/18/2025	04/17/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 03/20/2025

FROM 1.00000ml of V14896 + 1.00000ml of V14897 + 1.00000ml of V14898 + 1.00000ml of V14899 + 21.00000ml of V14883 = 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
589	BFB TUNE CHECK	VP133390	03/19/2025	03/20/2025	John Carlone	None	None	Mahesh Dadoda 03/21/2025

FROM 39.98400ml of W3112 + 0.01600ml of VP131767 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
645	20 PPB CCC, 624	VP133391	03/19/2025	03/20/2025	John Carlone	None	None	Mahesh Dadoda 03/21/2025

FROM 39.97000ml of W3112 + 0.00500ml of VP132035 + 0.00500ml of VP133178 + 0.00500ml of VP133342 + 0.00800ml of VP133251 = 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
645	20 PPB CCC, 624	VP133392	03/19/2025	03/20/2025	John Carlone	None	None	Mahesh Dadoda 03/21/2025

FROM 39.97000ml of W3112 + 0.00500ml of VP132035 + 0.00500ml of VP133178 + 0.00500ml of VP133342 + 0.00800ml of VP133251 = Final Quantity: 40.000 ml

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30067 / BFB tuneing solution	A0191805	11/22/2025	11/22/2024 / SAM	01/13/2023 / SAM	V13391

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0193071	06/12/2025	12/12/2024 / SAM	01/27/2023 / SAM	V13457

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	A0193071	06/12/2025	12/12/2024 / SAM	01/27/2023 / SAM	V13460

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	A0193071	06/12/2025	12/12/2024 / SAM	01/27/2023 / SAM	V13465

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	A0193071	06/12/2025	12/12/2024 / SAM	01/27/2023 / SAM	V13466

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]	A0196865	02/27/2026	02/27/2025 / SAM	04/12/2023 / SAM	V13706

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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)	22L0562016	05/18/2025	11/18/2024 / pedro	02/06/2024 / SAM	V14154

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	07/10/2025	01/10/2025 / SAM	02/20/2024 / SAM	V14175

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	07/10/2025	01/10/2025 / SAM	02/20/2024 / SAM	V14176

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	11/22/2025	11/22/2024 / SAM	04/15/2024 / SAM	V14289

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	07/10/2025	01/10/2025 / SAM	08/15/2024 / SAM	V14433

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	07/10/2025	01/10/2025 / SAM	08/15/2024 / SAM	V14439

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95319 / Revised Additions Mix (Min = 5)	091724	07/10/2025	01/10/2025 / SAM	09/18/2024 / SAM	V14521

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	07/10/2025	01/10/2025 / SAM	09/18/2024 / SAM	V14522

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555584 / Custom Standard, CLP VOA SurrogateStd [CS 5179-4]	A0219012	01/02/2026	01/02/2025 / SAM	11/18/2024 / SAM	V14580

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)	22L0562016	08/27/2025	02/27/2025 / SAM	11/26/2024 / SAM	V14613

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)	22L0562016	06/10/2025	12/10/2024 / SAM	11/26/2024 / SAM	V14614

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	07/13/2025	01/13/2025 / SAM	11/26/2024 / SAM	V14624

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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	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14630

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14631

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14632

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14633

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	07/10/2025	01/10/2025 / SAM	12/17/2024 / SAM	V14722

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	07/10/2025	01/10/2025 / SAM	12/17/2024 / SAM	V14723

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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	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A02110618	07/10/2025	01/10/2025 / SAM	12/17/2024 / SAM	V14724

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	08/27/2025	02/27/2025 / SAM	12/17/2024 / SAM	V14744

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	05/31/2031	01/10/2025 / SAM	12/17/2024 / SAM	V14754

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	07/10/2025	01/10/2025 / SAM	01/08/2025 / SAM	V14809

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	07/10/2025	01/10/2025 / SAM	01/08/2025 / SAM	V14814

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	08/27/2025	02/27/2025 / SAM	01/21/2025 / SAM	V14842

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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)	021325	03/13/2025	02/14/2025 / SAM	02/14/2025 / SAM	V14872

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	021325	03/13/2025	02/14/2025 / SAM	02/14/2025 / SAM	V14873

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	021325	03/13/2025	02/14/2025 / SAM	02/14/2025 / SAM	V14874

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	021325	03/13/2025	02/14/2025 / SAM	02/14/2025 / SAM	V14875

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)	22L0562016	10/25/2025	02/19/2025 / Jaswal	04/22/2024 / Jaswal	V14883

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555583 / Custom Standard, CLP VOA Internal Std [CS 5179-3]	A0223136	03/12/2026	03/12/2025 / SAM	03/12/2025 / SAM	V14885

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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)	031725	04/17/2025	03/18/2025 / SAM	03/18/2025 / SAM	V14896

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	031725	04/17/2025	03/18/2025 / SAM	03/18/2025 / SAM	V14897

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	031725	04/17/2025	03/18/2025 / SAM	03/18/2025 / SAM	V14898

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	031725	04/17/2025	03/18/2025 / SAM	03/18/2025 / SAM	V14899

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

12 Bottles

avantor™ | J.T.Baker®

Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
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	0.2 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.2
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

James Ethier

Jamie Ethier
Vice President Global Quality

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

12 Bottles

avantor™ | J.T.Baker®

Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
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	0.2 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.2
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

James Ethier

Jamie Ethier
Vice President Global Quality

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

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Dec 02/14/25

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 021325
Description: Acrolein

Expiration Date: 031325
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

Solvent(s): **Lot#**
Water 072324Q

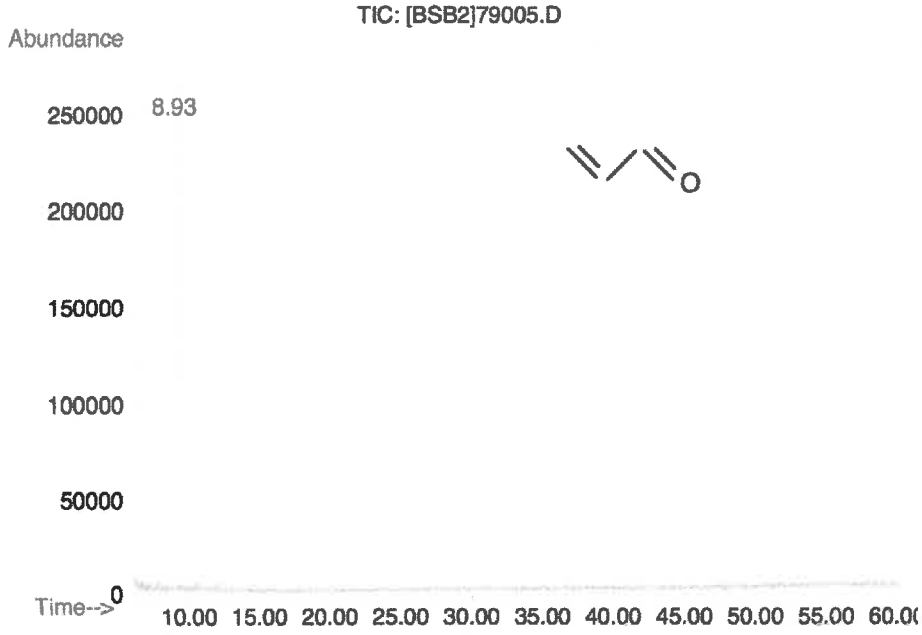
V14872 to
V14876

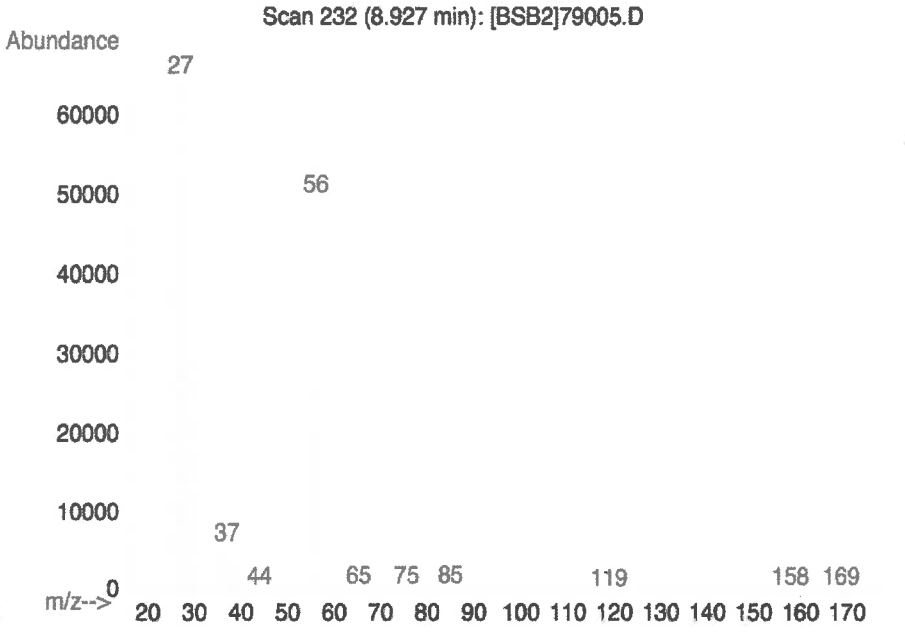
Formulated By:	Anthony Mahoney	021325 DATE
Reviewed By:	Pedro L. Rentas	021325 DATE

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05178	5011.8	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 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 WATER**

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)

P271	**Use in ventilated area**	**H315**	**Causes skin and eye irritation.**
P302,332	**If on skin, wash with soap and water**	**P280**	**Use gloves, eye protection/face sheild**
		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)
Water	CAS#: 7732-18-5	> 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

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.
Hazardous Decomposition products	Carbon oxides

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

Water CAS#: 7732-18-5 TWA: 500 ppm

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	100°C	Specific Gravity (H2O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

	NA		0°C
Vapor Density (AIR = 1)	NA	Evaporation rate (Butyl Acetate = 1)	NA

Solubility in Water Completely miscible

Appearance and Odor CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions NA
Conditions to avoid NA
Materials to avoid NA
Hazardous decomposition products - No data available

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat NA
LC50 Inhalation - Rat NA
LD50 Dermal - Guinea pig NA
Causes skin irritation.
Eye irritation

Section XII. ECOLOGICAL INFORMATION

LC50 NA
EC50 NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods
Proper shipping name: Water

IATA
Not dangerous goods
Proper shipping name: Water

Section XV. REGULATORY INFORMATION

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 Material 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

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Dec 02/14/25

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 021325
Description: Acrolein

Expiration Date: 031325
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

Solvent(s): **Lot#**
Water 072324Q

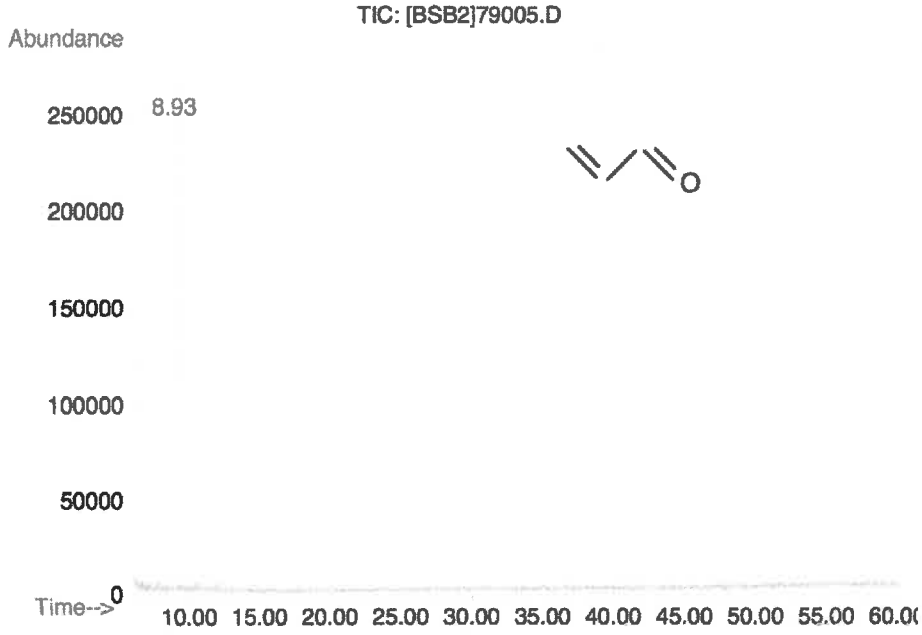
V14872 to
V14876

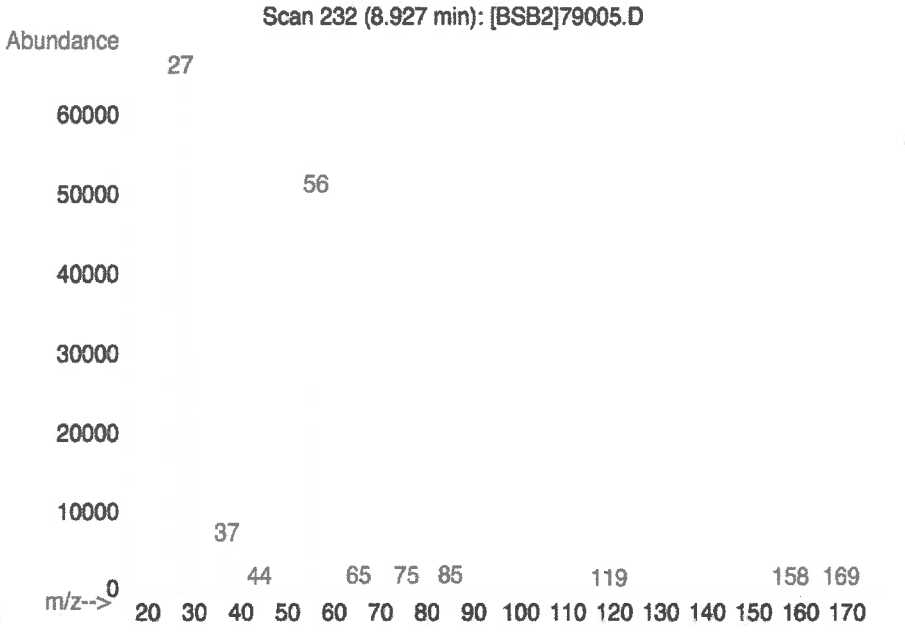
Formulated By:	Anthony Mahoney	021325 DATE
Reviewed By:	Pedro L. Rentas	021325 DATE

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05178	5011.8	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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Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
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Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN WATER**

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)

P271	**Use in ventilated area**	**H315**	**Causes skin and eye irritation.**
P302,332	**If on skin, wash with soap and water**	**P280**	**Use gloves, eye protection/face sheild**
		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)
Water	CAS#: 7732-18-5	> 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

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.
Hazardous Decomposition products	Carbon oxides

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

Water CAS#: 7732-18-5 TWA: 500 ppm

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	100°C	Specific Gravity (H2O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

	NA		0°C
Vapor Density (AIR = 1)	NA	Evaporation rate (Butyl Acetate = 1)	NA

Solubility in Water Completely miscible

Appearance and Odor CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions NA
Conditions to avoid NA
Materials to avoid NA
Hazardous decomposition products - No data available

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat NA
LC50 Inhalation - Rat NA
LD50 Dermal - Guinea pig NA
Causes skin irritation.
Eye irritation

Section XII. ECOLOGICAL INFORMATION

LC50 NA
EC50 NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods
Proper shipping name: Water

IATA
Not dangerous goods
Proper shipping name: Water

Section XV. REGULATORY INFORMATION

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 Material 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

5 J14

Dec 02/14/25

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 021325
Description: Acrolein

Expiration Date: 031325
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

Solvent(s): **Lot#**
Water 072324Q

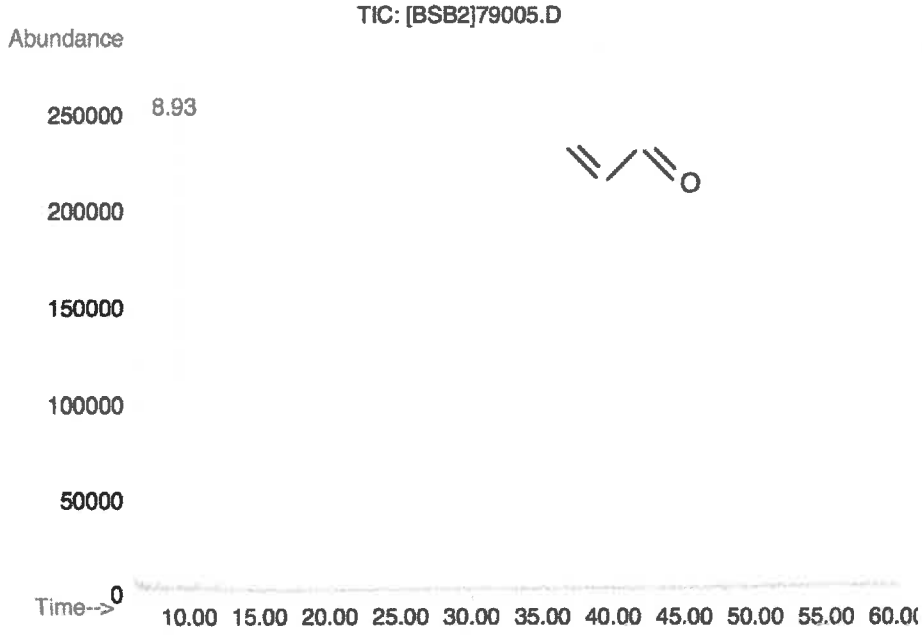
V14872 to
V14876

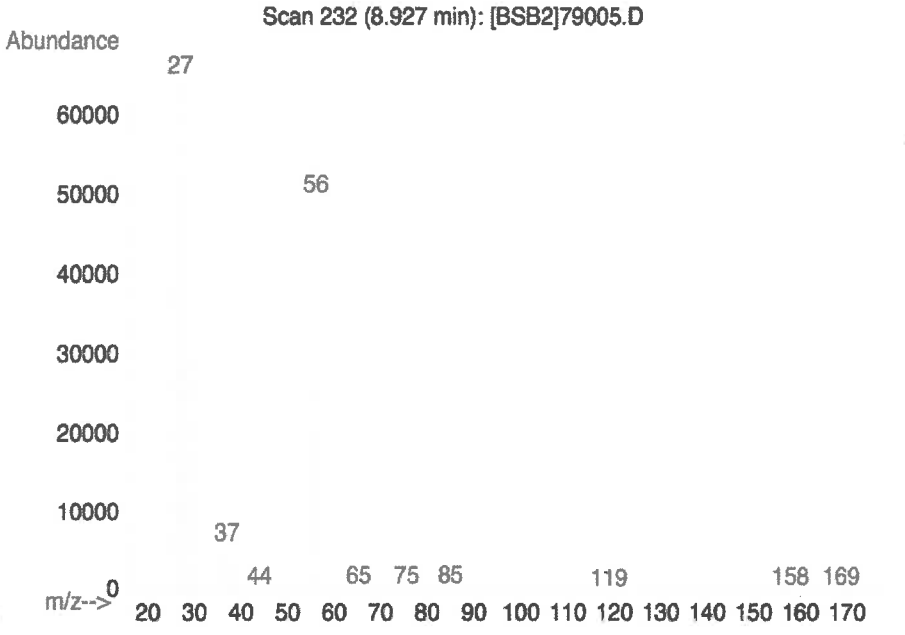
Formulated By:	Anthony Mahoney	021325 DATE
Reviewed By:	Pedro L. Rentas	021325 DATE

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05178	5011.8	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 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 WATER**

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)

P271	**Use in ventilated area**	**H315**	**Causes skin and eye irritation.**
P302,332	**If on skin, wash with soap and water**	**P280**	**Use gloves, eye protection/face sheild**
		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)
Water	CAS#: 7732-18-5	> 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

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.
Hazardous Decomposition products	Carbon oxides

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

Water CAS#: 7732-18-5 TWA: 500 ppm

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	100°C	Specific Gravity (H2O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

	NA		0°C
Vapor Density (AIR = 1)	NA	Evaporation rate (Butyl Acetate = 1)	NA

Solubility in Water Completely miscible

Appearance and Odor CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions NA
Conditions to avoid NA
Materials to avoid NA
Hazardous decomposition products - No data available

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat NA
LC50 Inhalation - Rat NA
LD50 Dermal - Guinea pig NA
Causes skin irritation.
Eye irritation

Section XII. ECOLOGICAL INFORMATION

LC50 NA
EC50 NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods
Proper shipping name: Water

IATA
Not dangerous goods
Proper shipping name: Water

Section XV. REGULATORY INFORMATION

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 Material Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

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Certified Reference Material CRM

5 J14

Dec 02/14/25

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 021325
Description: Acrolein

Expiration Date: 031325
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

Solvent(s): **Lot#**
Water 072324Q

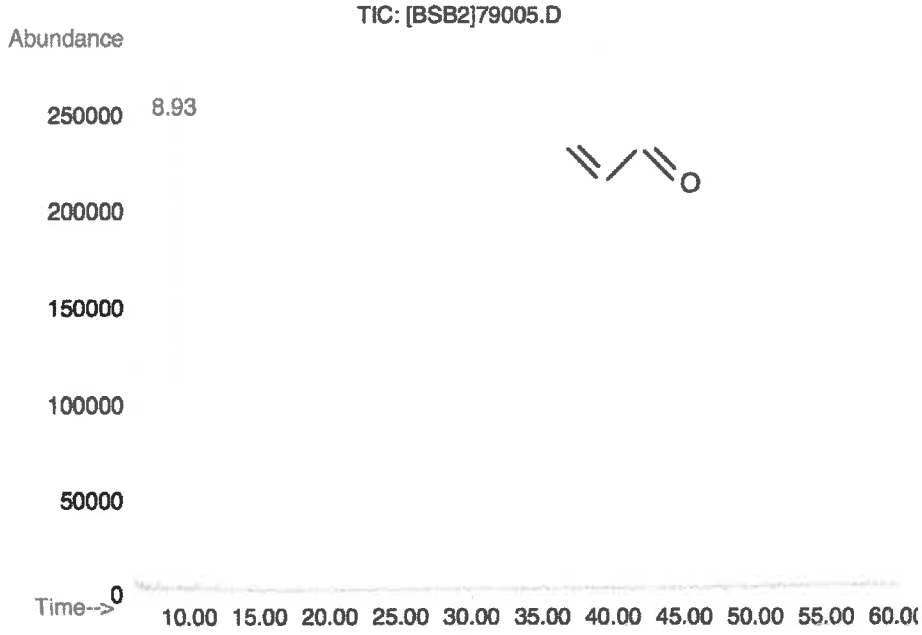
V14872 to
V14876

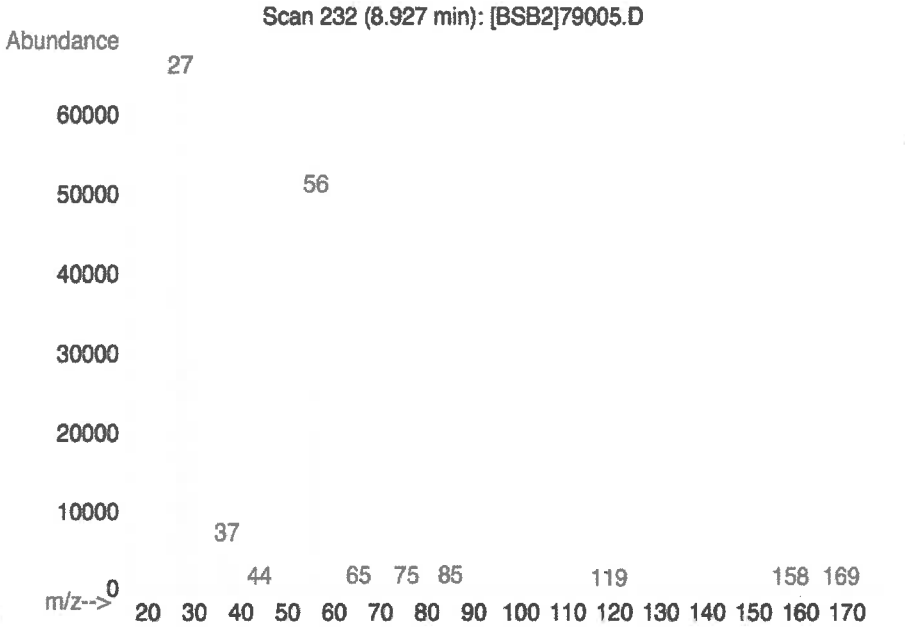
Formulated By:	Anthony Mahoney	021325 DATE
Reviewed By:	Pedro L. Rentas	021325 DATE

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05178	5011.8	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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	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

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GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

P271	**Use in ventilated area**	**H315**	**Causes skin and eye irritation.**
P302,332	**If on skin, wash with soap and water**	**P280**	**Use gloves, eye protection/face sheild**
		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)
Water	CAS#: 7732-18-5	> 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.

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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

Water CAS#: 7732-18-5 TWA: 500 ppm

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	100°C	Specific Gravity (H2O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

	NA		0°C
Vapor Density (AIR = 1)	NA	Evaporation rate (Butyl Acetate = 1)	NA

Solubility in Water Completely miscible

Appearance and Odor CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions NA
Conditions to avoid NA
Materials to avoid NA
Hazardous decomposition products - No data available

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat NA
LC50 Inhalation - Rat NA
LD50 Dermal - Guinea pig NA
Causes skin irritation.
Eye irritation

Section XII. ECOLOGICAL INFORMATION

LC50 NA
EC50 NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods
Proper shipping name: Water

IATA
Not dangerous goods
Proper shipping name: Water

Section XV. REGULATORY INFORMATION

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 WEIGHT REPORT

Part Number: 95317
Lot Number: 021624
Description: Universal VOA Megamix
69 components
Expiration Date: 021627
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 6UTB

Solvent(s): Lot#
Methanol EG359-USQ12

Formulated By: Prashant Chauhan 021624 DATE

Reviewed By: Pedro L. Rentas 021624 DATE

Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Flask Uncertainty 5E-05 Balance Uncertainty

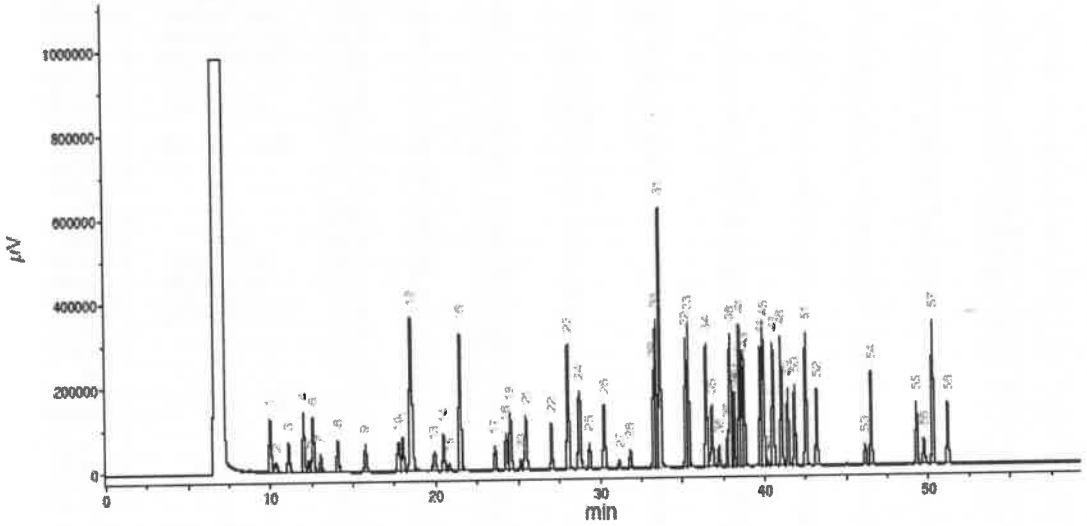
Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(ug/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20020	2001.3	8.1	75-05-8	40 ppm (70mg/m3/8H)	orl-rat 2460mg/kg
2. Allyl chloride (3-Chloropropene)	(0325)	102396	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	107-05-1	1 ppm (3mg/m3/8H)	orl-rat 700mg/kg
3. Carbon disulphide	(0060)	MKCR8561	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20023	2001.6	8.1	75-15-0	4 ppm (12mg/m3) (skin)	orl-rat 1200mg/kg
4. cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21058	0.21069	2001.1	8.5	1476-11-5	N/A	N/A
5. trans-1,4-Dichloro-2-butene	(0486)	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	(0361)	06126PX	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	20.6	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	40017.8	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 (46mg/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	1999.6	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 sample, 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 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-1,2,2-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	18.46
13	Isobutanol/1,1,1-Trichloroethane	19.91
14	1,1-Dichloropropene	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.49
17	Trichloroethene	23.58
18	1,2-Dichloropropane	24.28
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	33.86
32	o-Xylene	35.22
33	Styrene	35.38
34	Isopropylbenzene/Bromoform	36.18
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	37.93
39	trans-1,4-Dichloro-2-Butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.80
42	2-Chlorotoluene	38.82
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	42.53
52	1,2-Dichlorobenzene	43.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.48
55	1,2,4-Trichlorobenzene	49.26
56	Hexachlorobutadiene	49.72
57	Naphthalene	50.26
58	1,2,3-Trichlorobenzene	51.16

Absolute Standards Inc.
PO Box 5585
Hamden, CT 06518-0585
Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	**1-352-323-3500**
		Date Prepared/Revised	January 1, 2023

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.

CERTIFIED WEIGHT REPORT

Part Number: 95317
Lot Number: 021624
Description: Universal VOA Megamix
69 components
Expiration Date: 021627
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 6UTB

Solvent(s): Lot#
Methanol EG359-USQ12

Formulated By: Prashant Chauhan 021624 DATE

Reviewed By: Pedro L. Rentas 021624 DATE

Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Flask Uncertainty 5E-05 Balance Uncertainty

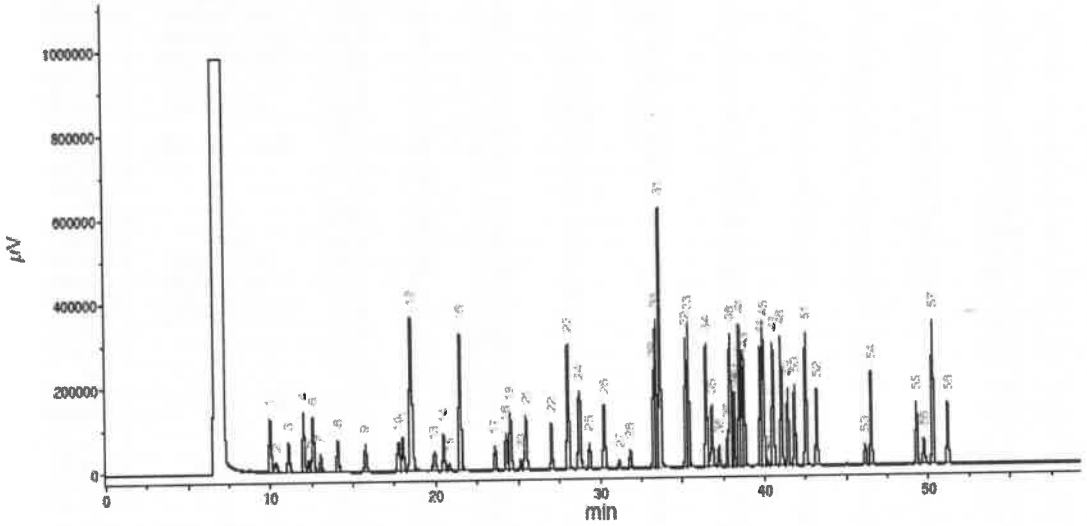
Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(ug/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20020	2001.3	8.1	75-05-8	40 ppm (70mg/m3/8H)	orl-rat 2460mg/kg
2. Allyl chloride (3-Chloropropene)	(0325)	102396	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	107-05-1	1 ppm (3mg/m3/8H)	orl-rat 700mg/kg
3. Carbon disulphide	(0060)	MKCR8561	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20023	2001.6	8.1	75-15-0	4 ppm (12mg/m3) (skin)	orl-rat 1200mg/kg
4. cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21058	0.21069	2001.1	8.5	1476-11-5	N/A	N/A
5. trans-1,4-Dichloro-2-butene	(0486)	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	(0361)	06126PX	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	20.6	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	40017.8	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 (46mg/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	1999.6	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 sample, 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 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-1,2,2-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	18.46
13	Isobutanol/1,1,1-Trichloroethane	19.91
14	1,1-Dichloropropene	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.49
17	Trichloroethene	23.58
18	1,2-Dichloropropane	24.28
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	33.86
32	o-Xylene	35.22
33	Styrene	35.38
34	Isopropylbenzene/Bromoform	36.18
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	37.93
39	trans-1,4-Dichloro-2-Butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.80
42	2-Chlorotoluene	38.82
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	42.53
52	1,2-Dichlorobenzene	43.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.48
55	1,2,4-Trichlorobenzene	49.26
56	Hexachlorobutadiene	49.72
57	Naphthalene	50.26
58	1,2,3-Trichlorobenzene	51.16

Absolute Standards Inc.
PO Box 5585
Hamden, CT 06518-0585
Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	**1-352-323-3500**
		Date Prepared/Revised	January 1, 2023

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

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Absolute Standards, Inc.
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Certified Reference Material CRM

Exp 03/18/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 031725
Description: Acrolein

Solvent(s): Water Lot# 072324Q

5 vial

V14895 to V14899

Expiration Date: 041725
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

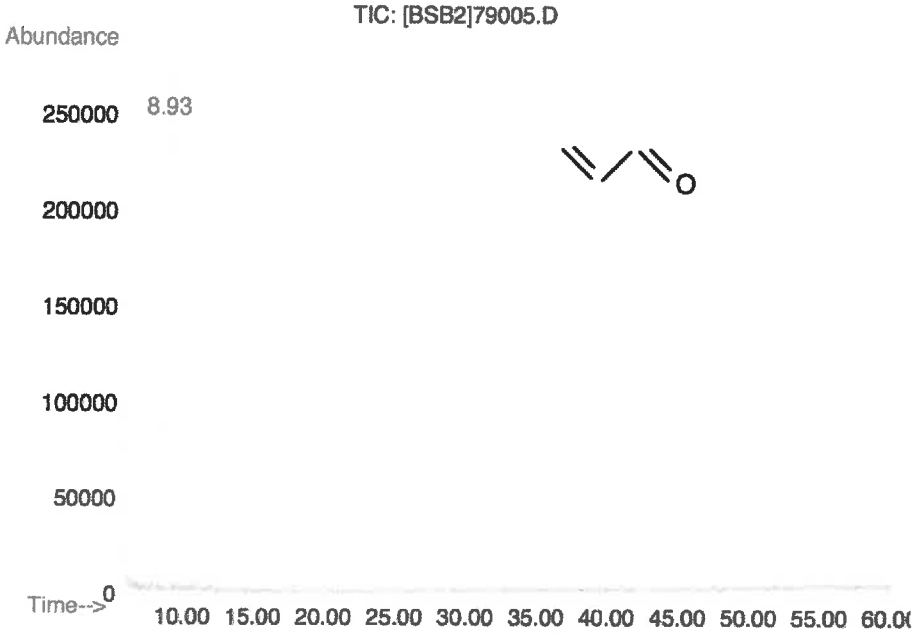
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

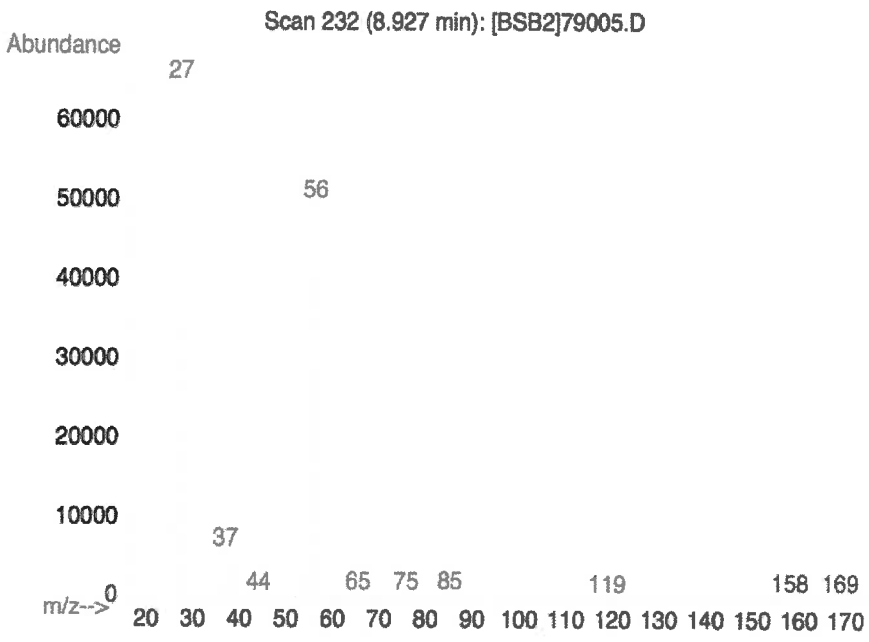
Weight(s) shown below were combined and diluted to (mL): 10.0

Formulated By:	Lawrence Barry	031725 DATE
Reviewed By:	Pedro L. Rentas	031725 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	0.05170	5004.1	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 certifed (+/-) 0.5% of the stated value, unless otherwise stated.**
- **All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.**
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Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN WATER**

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, 2025

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

P271	**Use in ventilated area**	**H315**	**Causes skin and eye irritation.**
P302,332	**If on skin, wash with soap and water**	**P280**	**Use gloves, eye protection/face sheild**
		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)
Water	CAS#: 7732-18-5	> 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

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.
Hazardous Decomposition products	Carbon oxides

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

Water CAS#: 7732-18-5 TWA: 500 ppm

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	100°C	Specific Gravity (H2O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

	NA		0°C
Vapor Density (AIR = 1)	NA	Evaporation rate (Butyl Acetate = 1)	NA

Solubility in Water Completely miscible

Appearance and Odor CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	NA
Conditions to avoid	NA
Materials to avoid	NA

Hazardous decomposition products - No data available

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat	NA
LC50 Inhalation - Rat	NA
LD50 Dermal - Guinea pig	NA

Causes skin irritation.
Eye irritation

Section XII. ECOLOGICAL INFORMATION

LC50	NA
EC50	NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods
Proper shipping name: Water

IATA
Not dangerous goods
Proper shipping name: Water

Section XV. REGULATORY INFORMATION

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 WEIGHT REPORT

Part Number: 91980
Lot Number: 031725
Description: Acrolein

Solvent(s): Water Lot# 072324Q

5 vial

V14895 to V14899

Expiration Date: 041725
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

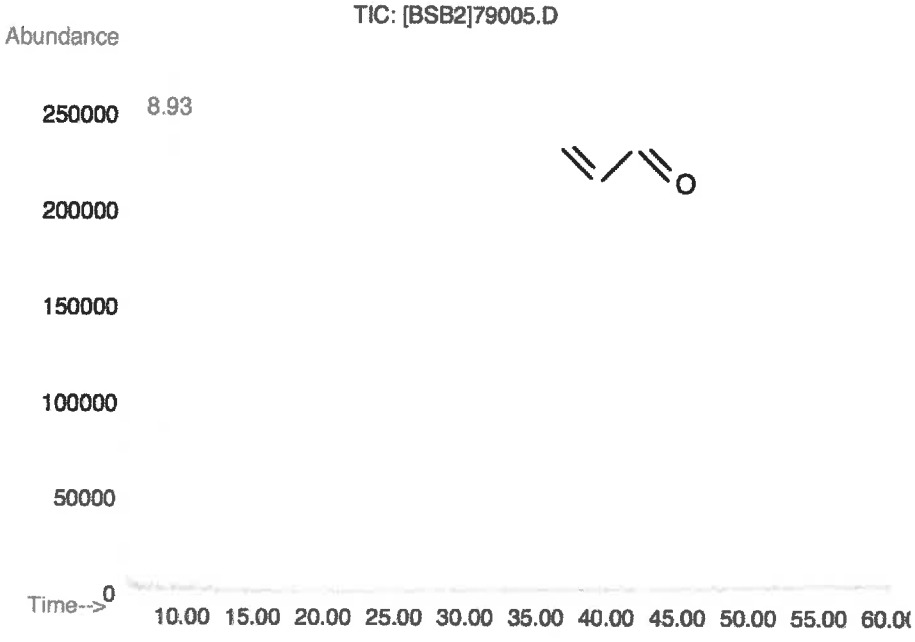
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

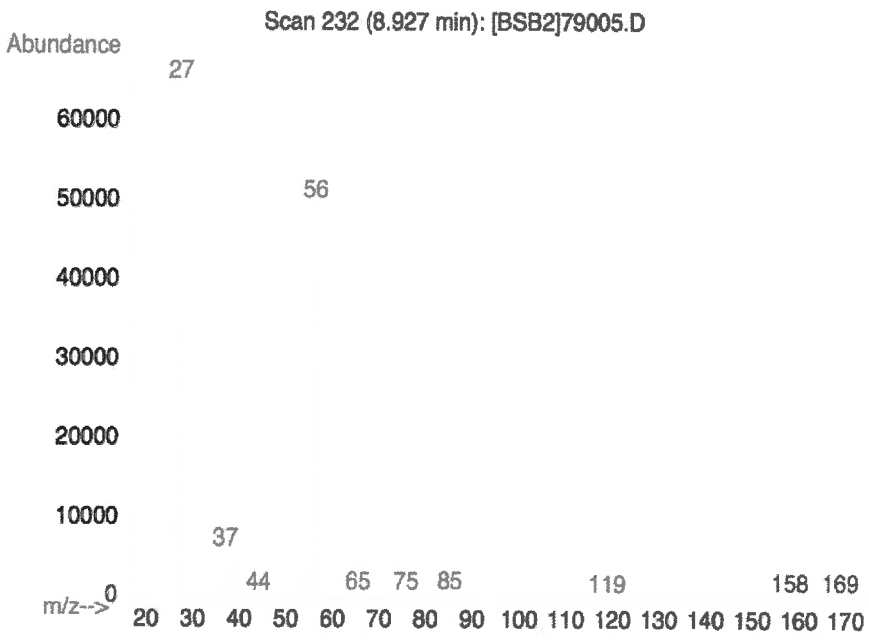
Weight(s) shown below were combined and diluted to (mL): 10.0

Formulated By:	Lawrence Barry	031725 DATE
Reviewed By:	Pedro L. Rentas	031725 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	0.05170	5004.1	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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Safety Data Sheet (SDS) GHS/OSHA Compliant

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Address	44 Rossotto Dr.	Emergency Telephone International	**1-352-323-3500**
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2025

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

P271	**Use in ventilated area**	**H315**	**Causes skin and eye irritation.**
P302,332	**If on skin, wash with soap and water**	**P280**	**Use gloves, eye protection/face sheild**
		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)
Water	CAS#: 7732-18-5	> 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

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.
Hazardous Decomposition products	Carbon oxides

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

Water CAS#: 7732-18-5 TWA: 500 ppm

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	100°C	Specific Gravity (H2O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

	NA		0°C
Vapor Density (AIR = 1)	NA	Evaporation rate (Butyl Acetate = 1)	NA

Solubility in Water Completely miscible

Appearance and Odor CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	NA
Conditions to avoid	NA
Materials to avoid	NA

Hazardous decomposition products - No data available

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat	NA
LC50 Inhalation - Rat	NA
LD50 Dermal - Guinea pig	NA

Causes skin irritation.
Eye irritation

Section XII. ECOLOGICAL INFORMATION

LC50	NA
EC50	NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods
Proper shipping name: Water

IATA
Not dangerous goods
Proper shipping name: Water

Section XV. REGULATORY INFORMATION

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 WEIGHT REPORT

Part Number: 91980
Lot Number: 031725
Description: Acrolein

Solvent(s): Water Lot# 072324Q

5 vial

V14895 to V14899

Expiration Date: 041725
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Weight(s) shown below were combined and diluted to (mL): 10.0

Formulated By:	Lawrence Barry	031725 DATE
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Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05170	5004.1	52.5	107-02-8	0.1 ppm	orl-rat 46mg/kg

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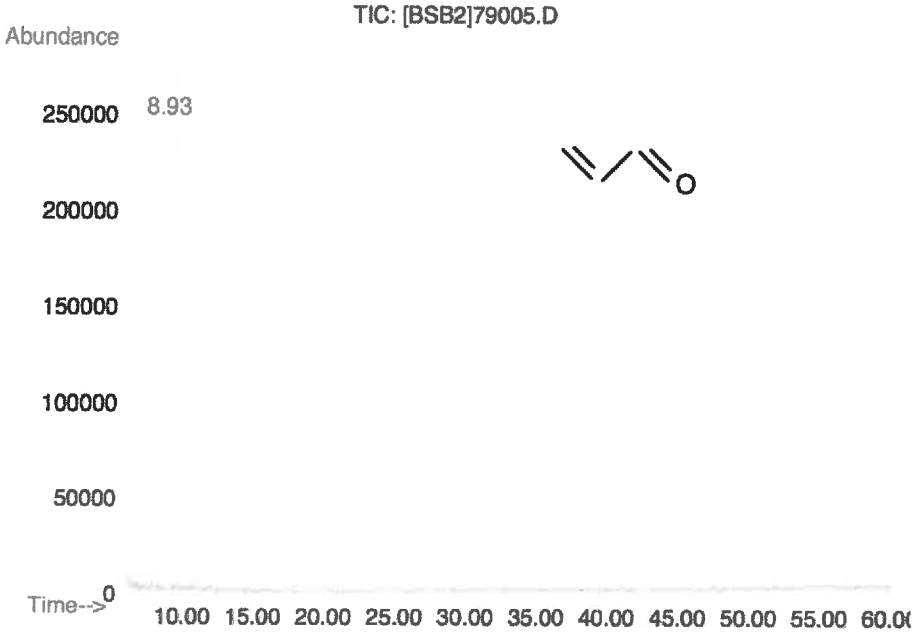

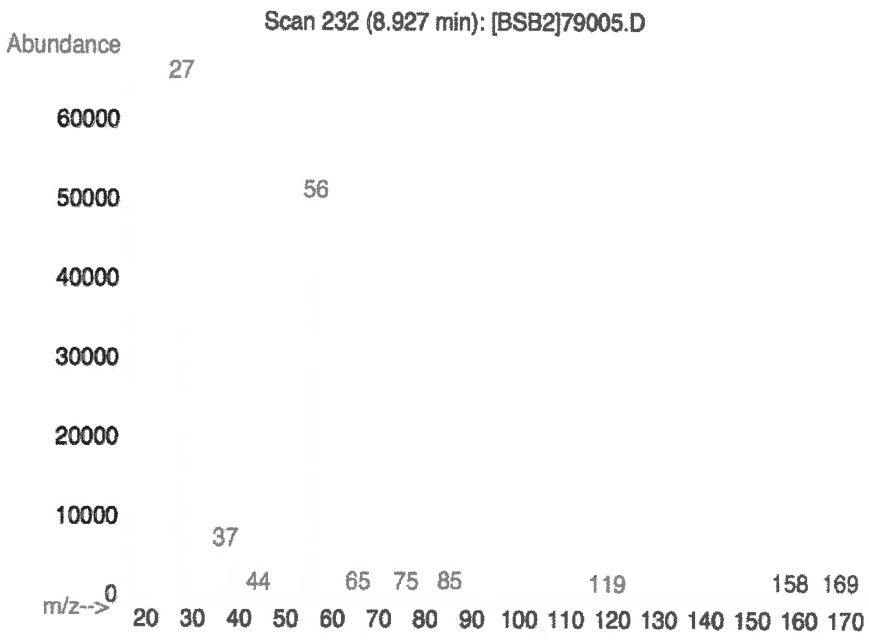

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GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

P271	**Use in ventilated area**	**H315**	**Causes skin and eye irritation.**
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		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)
Water	CAS#: 7732-18-5	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

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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.

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Water CAS#: 7732-18-5 TWA: 500 ppm

Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
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Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	100°C	Specific Gravity (H2O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

	NA		0°C
Vapor Density (AIR = 1)	NA	Evaporation rate (Butyl Acetate = 1)	NA

Solubility in Water Completely miscible

Appearance and Odor CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	NA
Conditions to avoid	NA
Materials to avoid	NA

Hazardous decomposition products - No data available

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat	NA
LC50 Inhalation - Rat	NA
LD50 Dermal - Guinea pig	NA

Causes skin irritation.
Eye irritation

Section XII. ECOLOGICAL INFORMATION

LC50	NA
EC50	NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods
Proper shipping name: Water

IATA
Not dangerous goods
Proper shipping name: Water

Section XV. REGULATORY INFORMATION

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5 vial

V14895 to V14899

Expiration Date: 041725
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

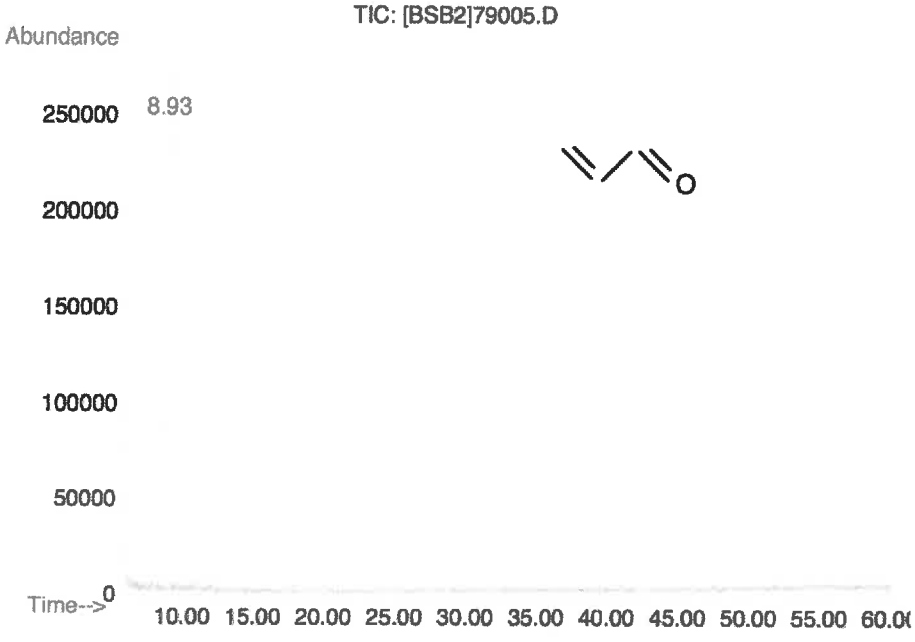
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

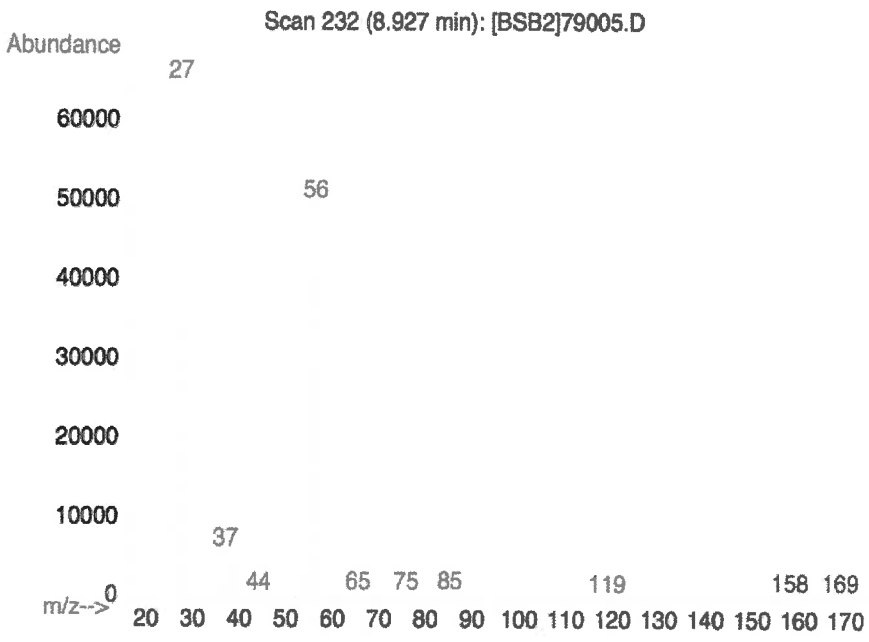
Weight(s) shown below were combined and diluted to (mL): 10.0

Formulated By:	Lawrence Barry	031725 DATE
Reviewed By:	Pedro L. Rentas	031725 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	0.05170	5004.1	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 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 WATER**

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, 2025

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

P271	**Use in ventilated area**	**H315**	**Causes skin and eye irritation.**
P302,332	**If on skin, wash with soap and water**	**P280**	**Use gloves, eye protection/face sheild**
		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)
Water	CAS#: 7732-18-5	> 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

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.
Hazardous Decomposition products	Carbon oxides

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

Water CAS#: 7732-18-5 TWA: 500 ppm

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	100°C	Specific Gravity (H2O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

	NA		0°C
Vapor Density (AIR = 1)	NA	Evaporation rate (Butyl Acetate = 1)	NA

Solubility in Water Completely miscible

Appearance and Odor CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	NA
Conditions to avoid	NA
Materials to avoid	NA

Hazardous decomposition products - No data available

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat	NA
LC50 Inhalation - Rat	NA
LD50 Dermal - Guinea pig	NA

Causes skin irritation.
Eye irritation

Section XII. ECOLOGICAL INFORMATION

LC50	NA
EC50	NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods
Proper shipping name: Water

IATA
Not dangerous goods
Proper shipping name: Water

Section XV. REGULATORY INFORMATION

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 Material Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 09/16/24 2 Vials

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 091424
Description: Acrolein

Expiration Date: 101424
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

Solvent(s): **Lot#**
Water 072324Q

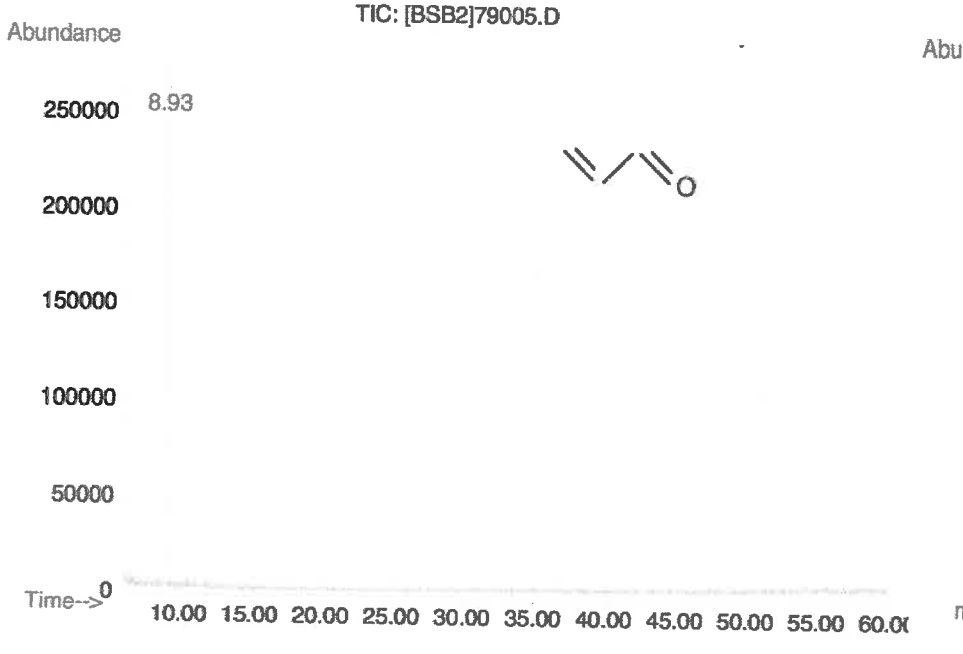
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

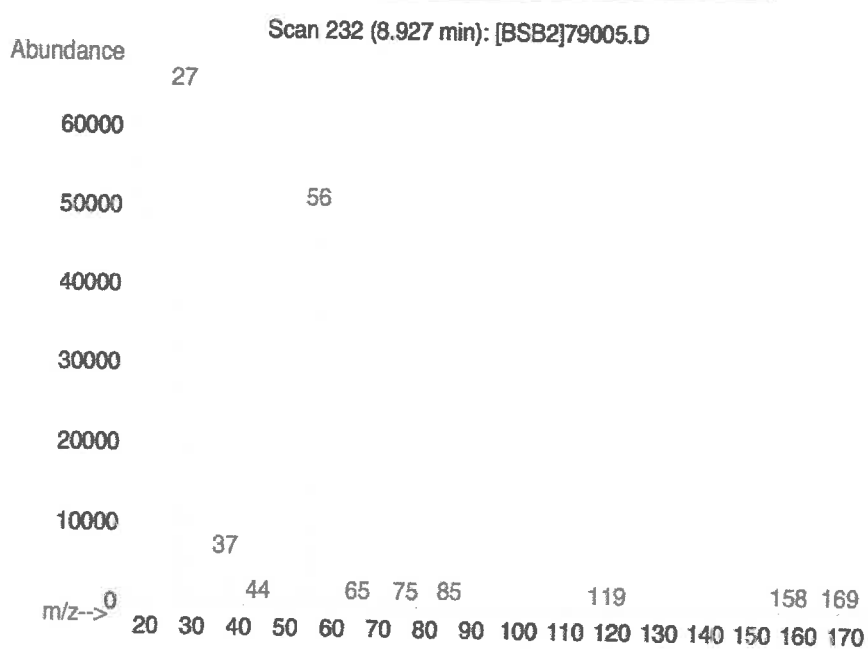
Justin Dippold 091424
Formulated By: Justin Dippold DATE

Pedro Rentas 091424
Reviewed By: Pedro L. Rentas DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05175	5008.9	52.5	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





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Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 09/16/24 2 Vials

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 091424
Description: Acrolein

Expiration Date: 101424
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

Solvent(s): **Lot#**
Water 072324Q

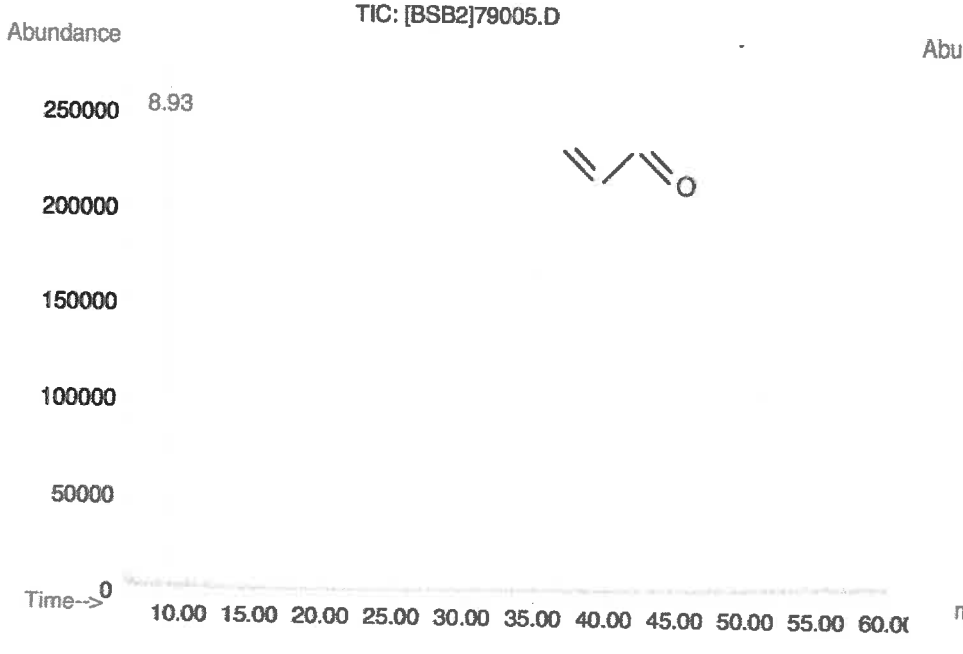
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

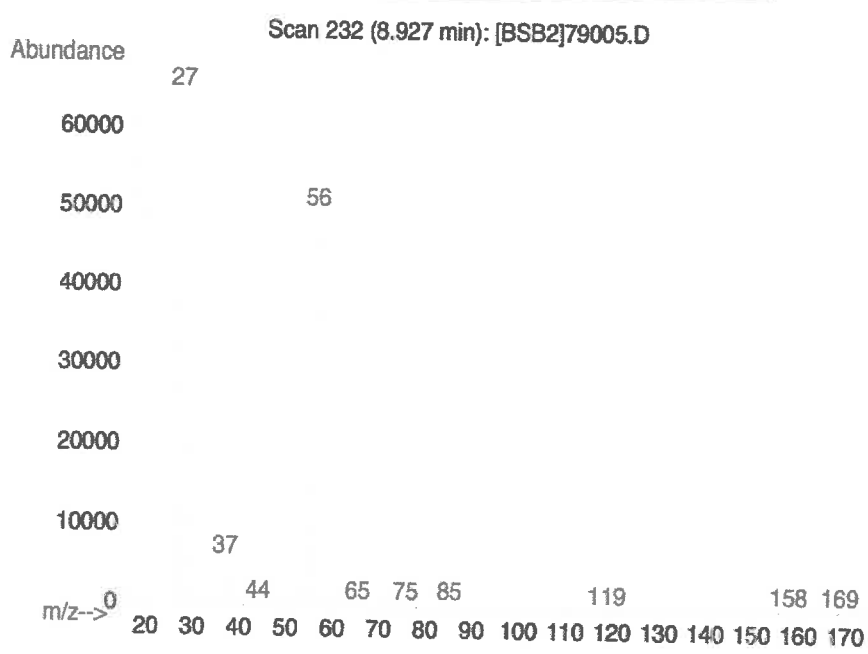
Justin Dippold 091424
Formulated By: Justin Dippold DATE

Pedro Rentas 091424
Reviewed By: Pedro L. Rentas DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05175	5008.9	52.5	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





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800-368-1131
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Certified Reference Material CRM

Rec 12/6/24
20 vial

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

Solvent(s): Methanol **Lot#** EJ143-US

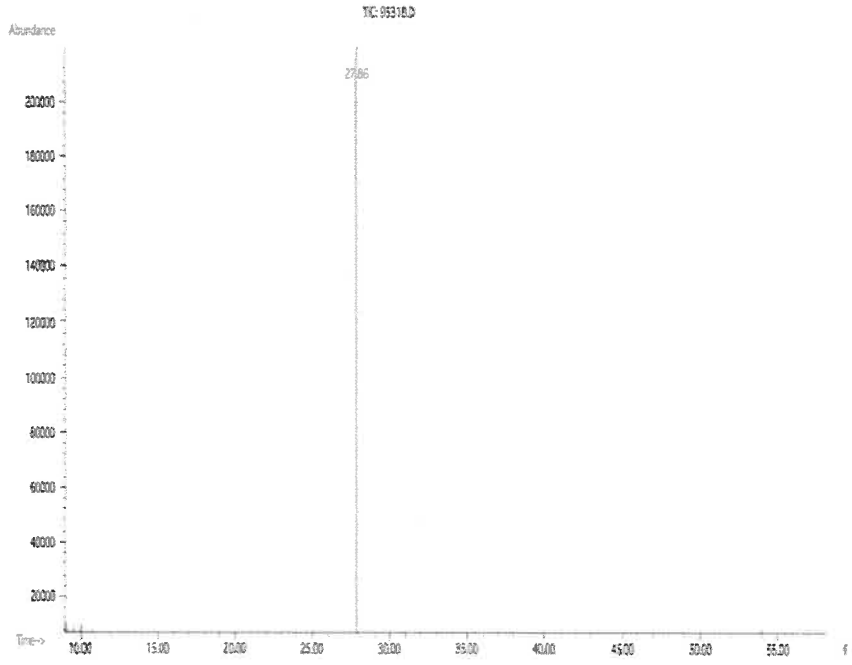
V14630 to V14649

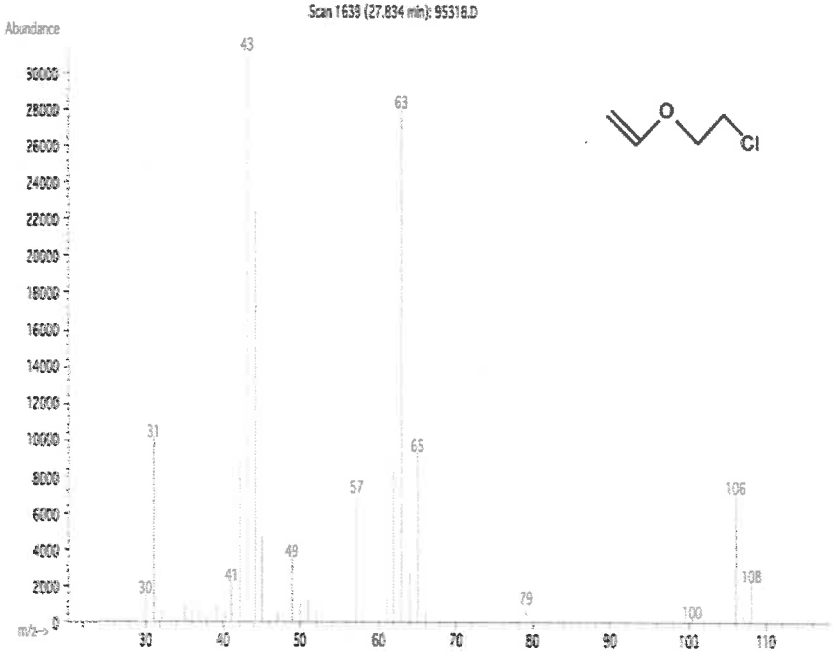
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

Formulated By:	Prashant Chauhan	120524 DATE
Reviewed By:	Pedro L. Rentas	120524 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.





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Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International Date Prepared/Revised	**1-352-323-3500** January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability — Stable under recommended storage conditions.
Possibility of hazardous reactions — Vapours may form explosive mixture with air.
Conditions to avoid — Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid — Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

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Certified Reference Material CRM

Rec 12/6/24
20 vial

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

Solvent(s): Methanol **Lot#** EJ143-US

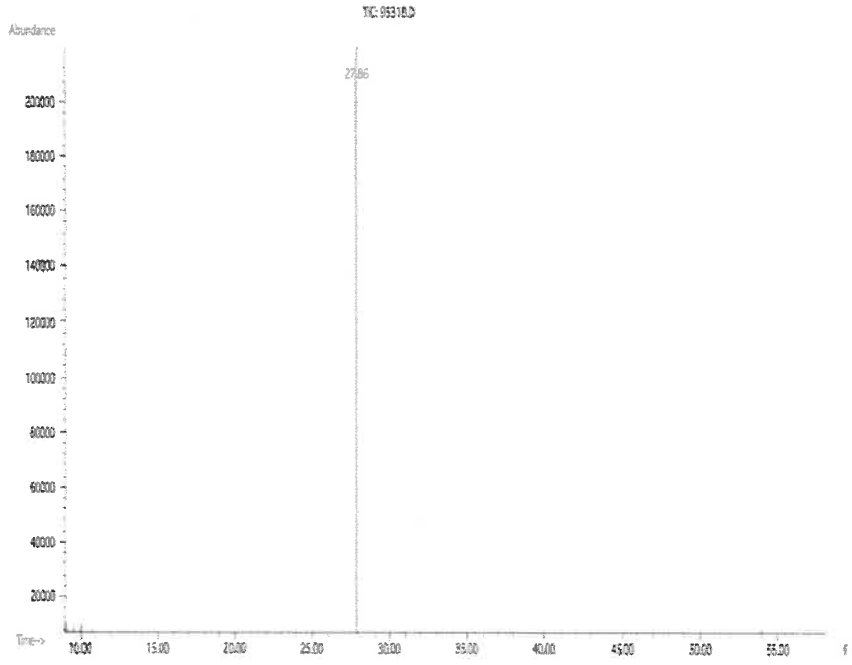
V14630 to V14649

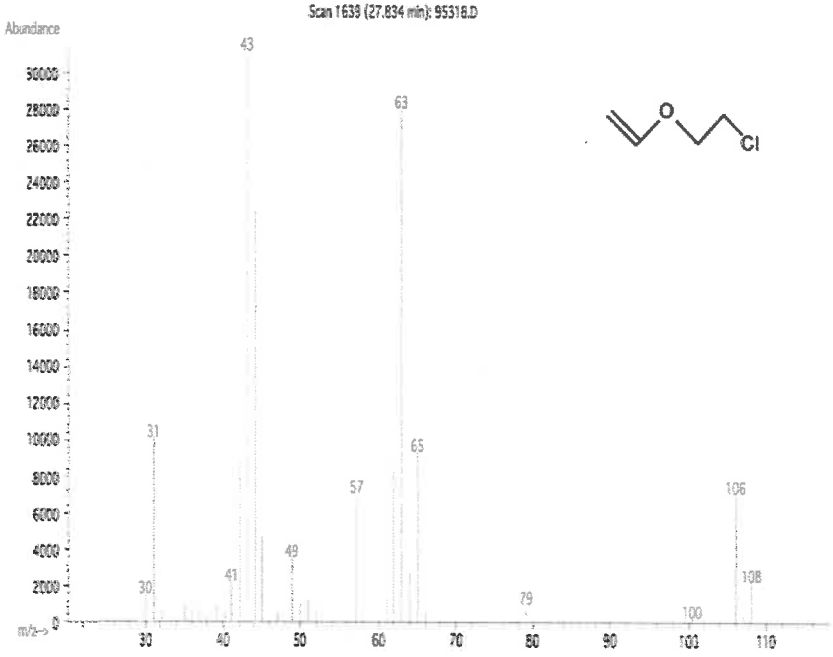
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

Formulated By:	Prashant Chauhan	120524 DATE
Reviewed By:	Pedro L. Rentas	120524 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.





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- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
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Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International Date Prepared/Revised	**1-352-323-3500** January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability — Stable under recommended storage conditions.
Possibility of hazardous reactions — Vapours may form explosive mixture with air.
Conditions to avoid — Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid — Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

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Certified Reference Material CRM

Rec 12/6/24
20 vial

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

Solvent(s): Methanol **Lot#** EJ143-US

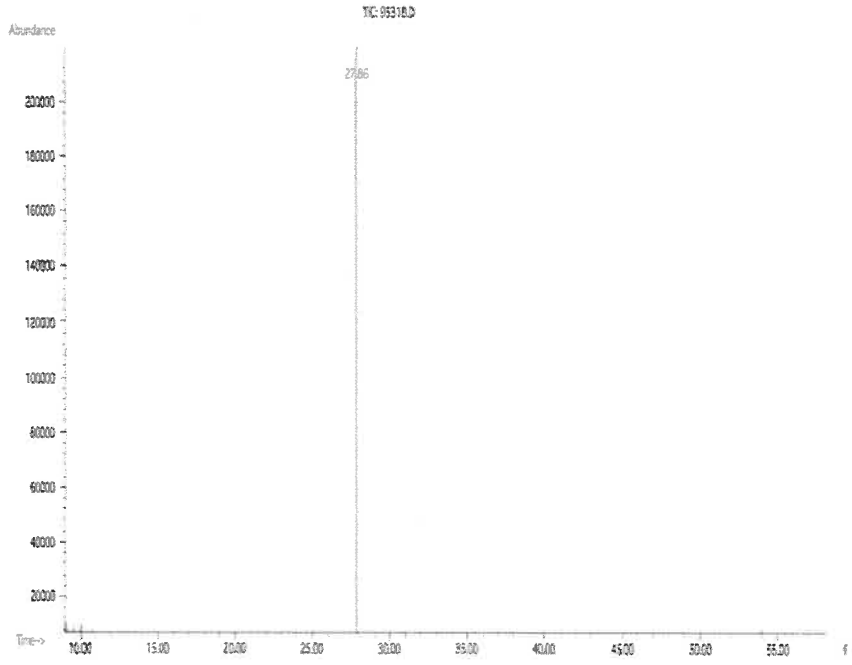
V14630 to V14649

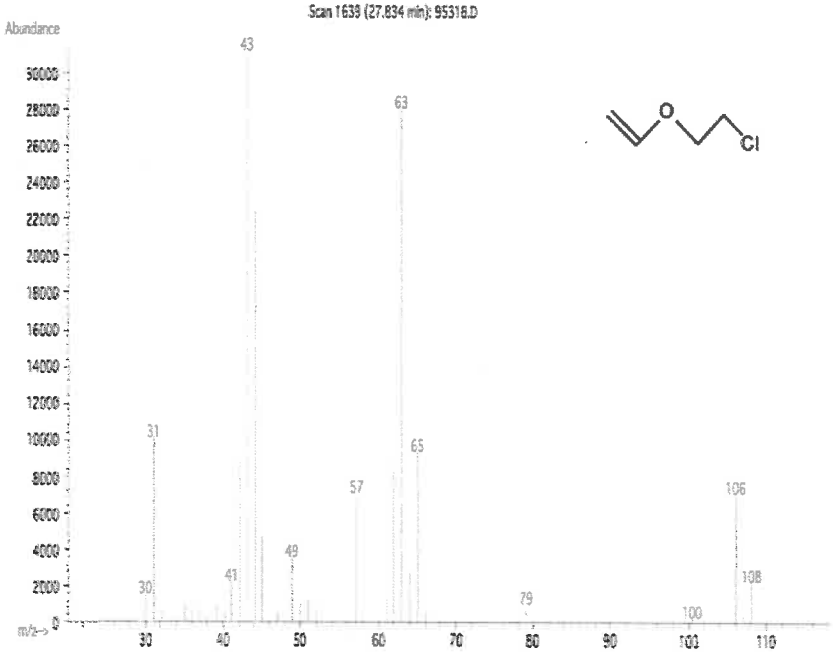
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

Formulated By:	Prashant Chauhan	120524 DATE
Reviewed By:	Pedro L. Rentas	120524 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.





- 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.
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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.

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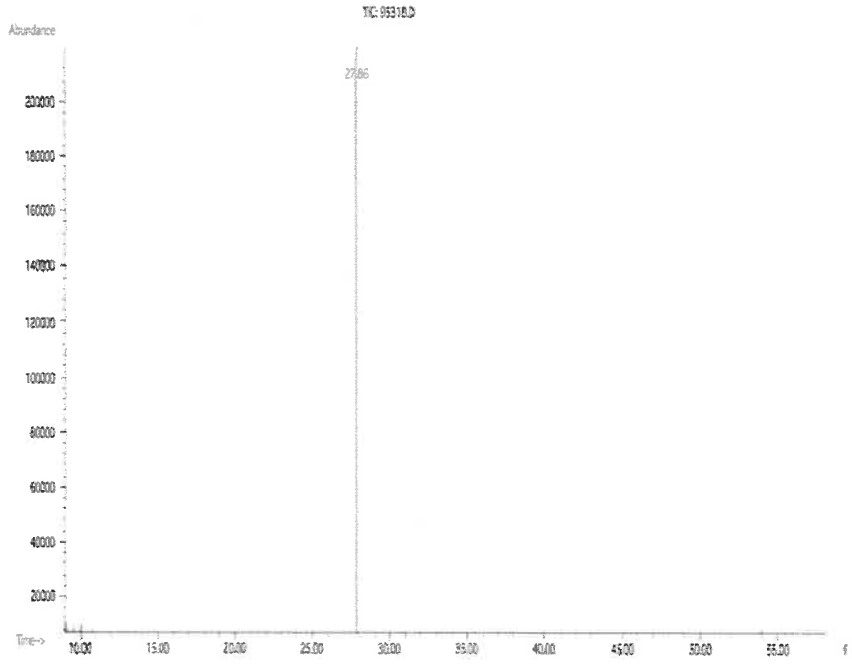

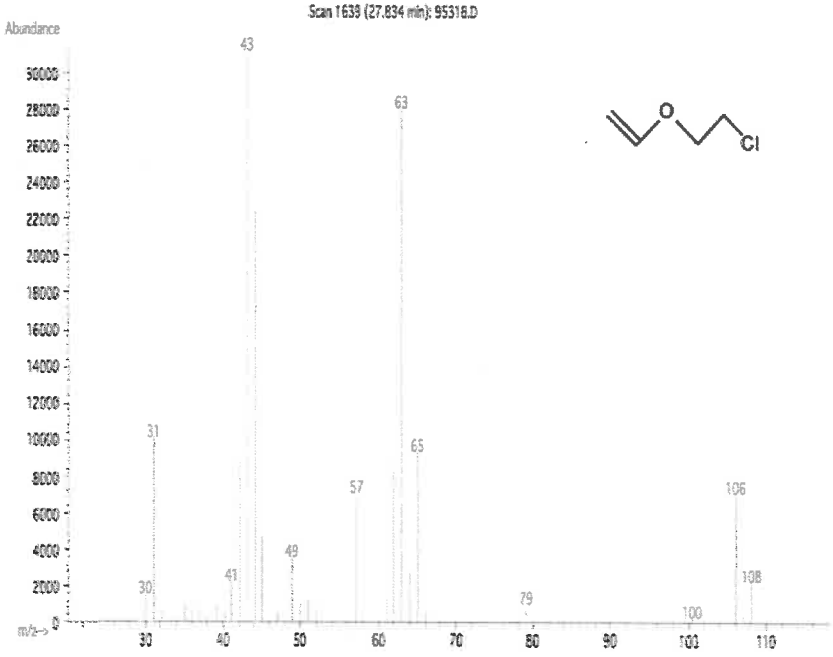

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110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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.)

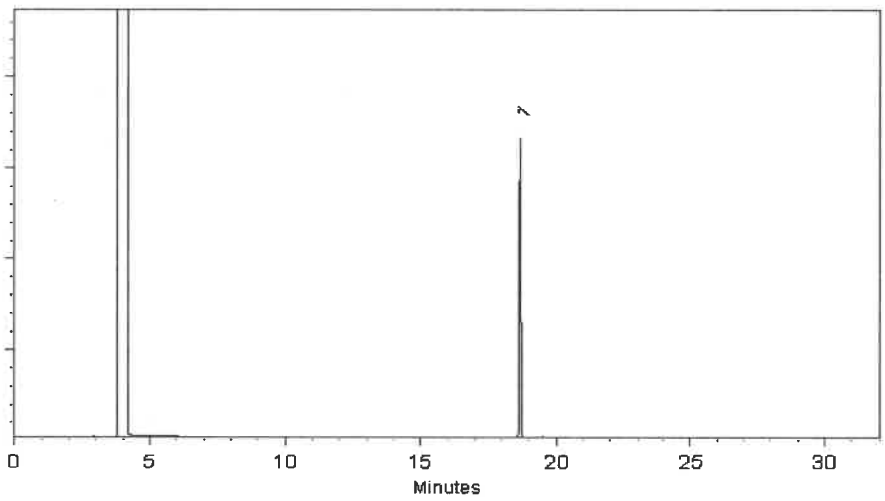
Inj. Temp:
200°C

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.
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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.:** A0193071

Description : Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 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	Bromochloromethane	74-97-5	00008541	99%	2,018.0 µg/mL	+/- 113.3890

* 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.)

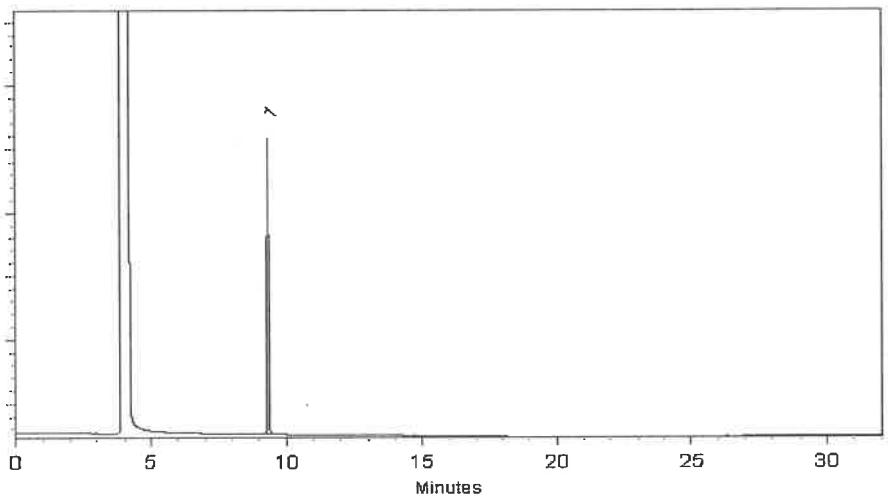
Inj. Temp:
200°C

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.

Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2022 **Balance Serial #** B707717271

Christie Mills - Operations Tech II - ARM QC

Date Passed: 03-Jan-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:

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  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0193071

Description : Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 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	Bromochloromethane	74-97-5	00008541	99%	2,018.0 µg/mL	+/- 113.3890

* 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.)

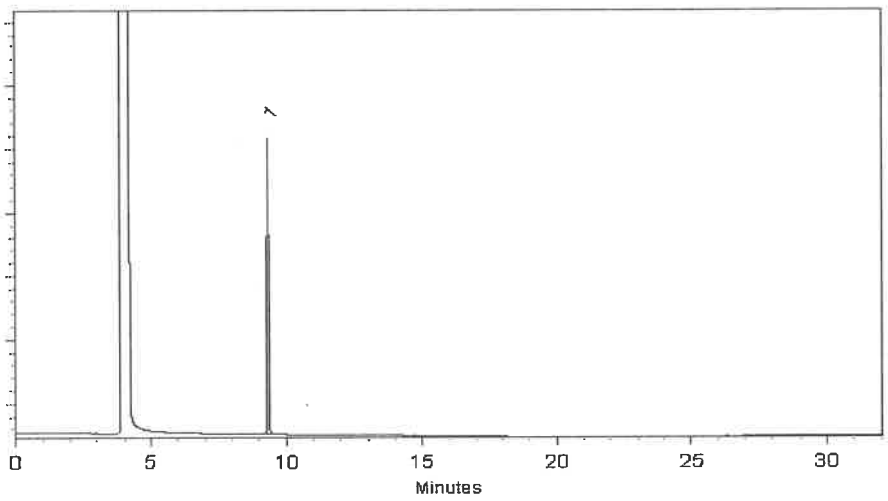
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



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Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2022 **Balance Serial #** B707717271

Christie Mills - Operations Tech II - ARM QC

Date Passed: 03-Jan-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.
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Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
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Certified Uncertainty Value Notes:

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Manufacturing Notes:

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Handling Notes:

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Catalog No. : 30225 **Lot No.:** A0193071

Description : Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 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	Bromochloromethane	74-97-5	00008541	99%	2,018.0 µg/mL	+/- 113.3890

* 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.)

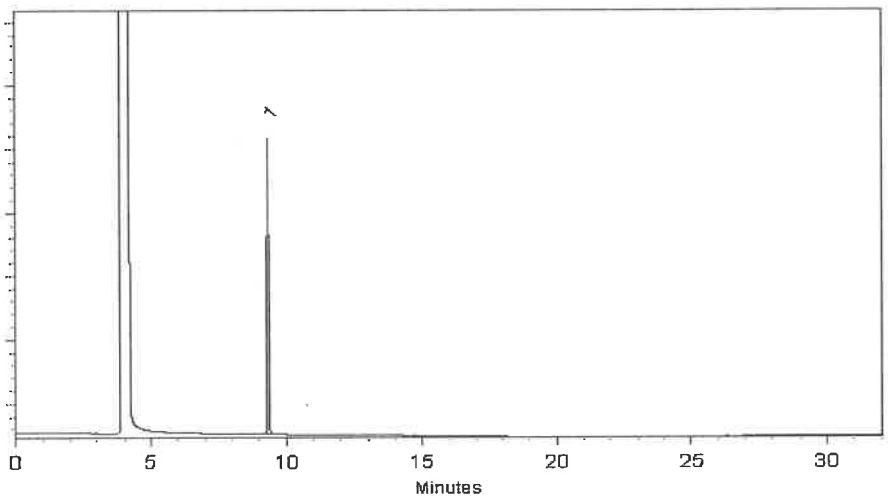
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



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Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2022 **Balance Serial #** B707717271

Christie Mills - Operations Tech II - ARM QC

Date Passed: 03-Jan-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

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Catalog No. : 30225 **Lot No.:** A0193071

Description : Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 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	Bromochloromethane	74-97-5	00008541	99%	2,018.0 µg/mL	+/- 113.3890

* 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.)

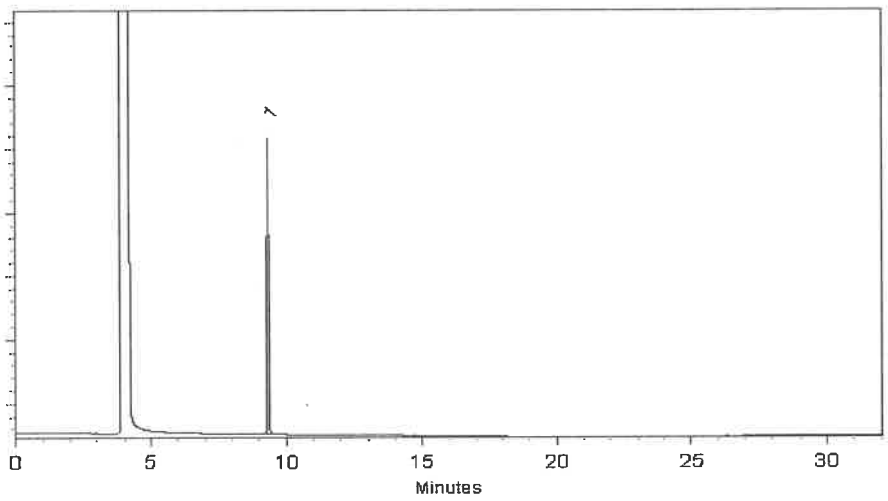
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



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Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2022 **Balance Serial #** B707717271

Christie Mills - Operations Tech II - ARM QC

Date Passed: 03-Jan-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

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Certified Uncertainty Value Notes:

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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Catalog No. : 555582 **Lot No.:** A0196865

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 : April 30, 2026 **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-32845	99%	25,036.0 µg/mL	+/- 1,417.9179
2	1-Bromo-4-fluorobenzene (BFB)	460-00-4	184975	99%	25,132.0 µg/mL	+/- 1,423.3549
3	Dibromofluoromethane	1868-53-7	022013	99%	25,040.0 µg/mL	+/- 1,418.1445
4	Toluene-d8	2037-26-5	PR-33397	99%	25,028.0 µg/mL	+/- 1,417.4648

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Russ Bookhamer - Operations Technician I

Date Mixed: 11-Apr-2023 **Balance:** 1127510105

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

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Purity Notes:

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Testing Laboratory
Certificate #3222.02

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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.)

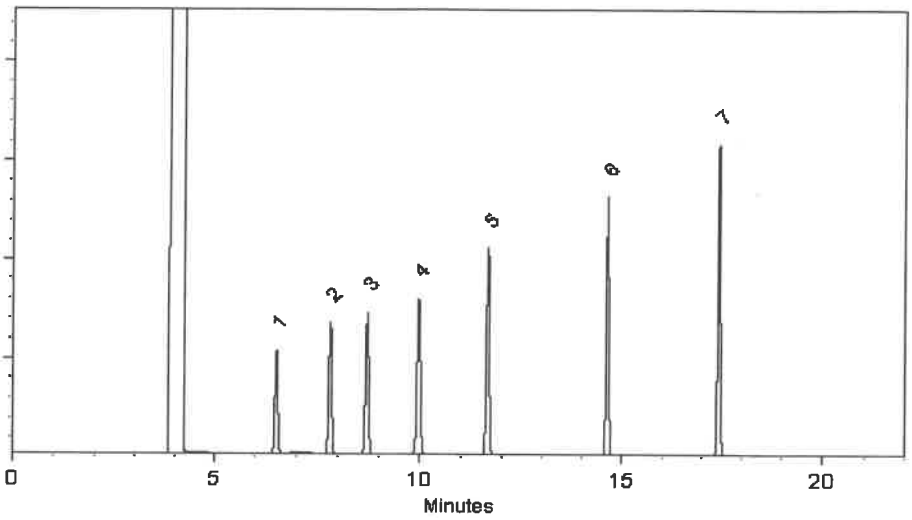
Inj. Temp:
200°C

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:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  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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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.)

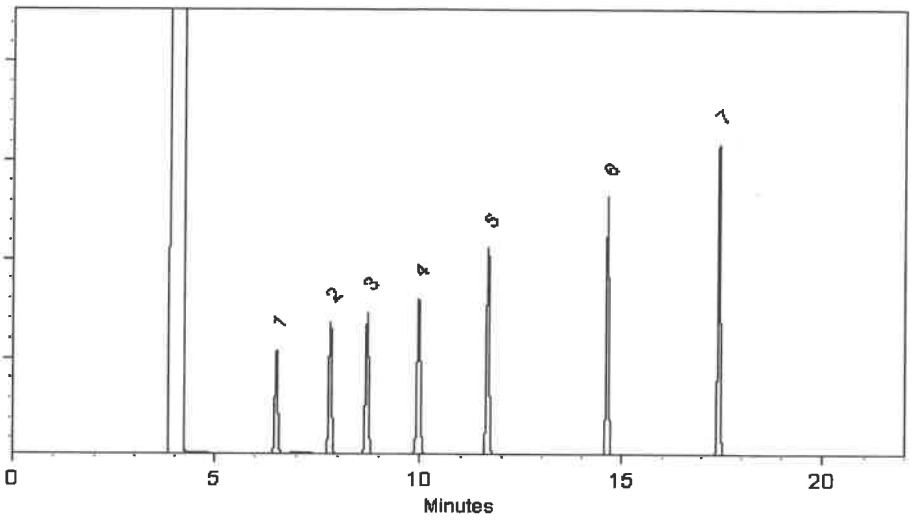
Inj. Temp:
200°C

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.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555581 **Lot No.:** A0210184

Description : Custom 8260 Internal Standard Mix

Custom 8260 Internal Standard Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2027 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	25,212.0 µg/mL	+/- 1,427.8857
2	1,4-Difluorobenzene	540-36-3	MKCS8657	99%	25,220.0 µg/mL	+/- 1,428.3388
3	Chlorobenzene-d5	3114-55-4	PR-31132	99%	25,116.0 µg/mL	+/- 1,422.4487
4	Pentafluorobenzene	363-72-4	MKCR9383	99%	25,180.0 µg/mL	+/- 1,426.0734

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

John Friedline - Operations Technician I

Date Mixed: 11-Apr-2024 **Balance:** 1127510105

REVIEWED

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- 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.)

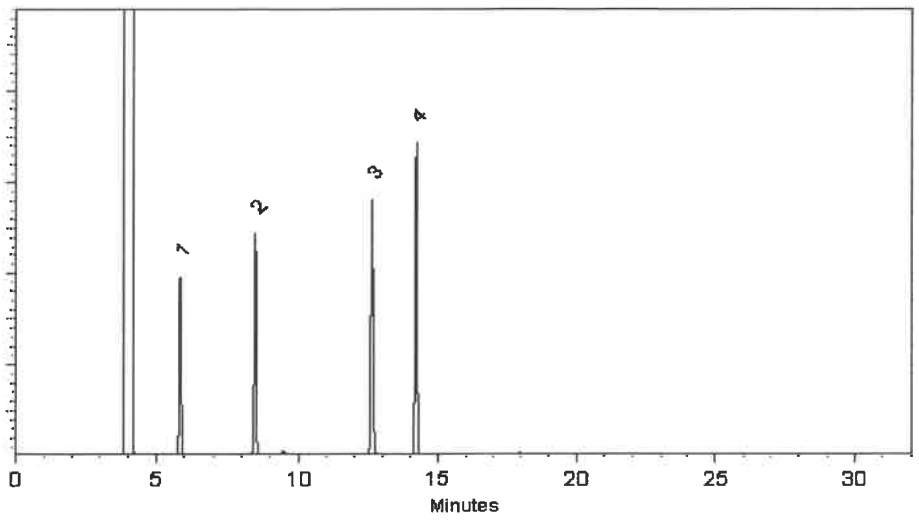
Inj. Temp:
200°C

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:

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  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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.)

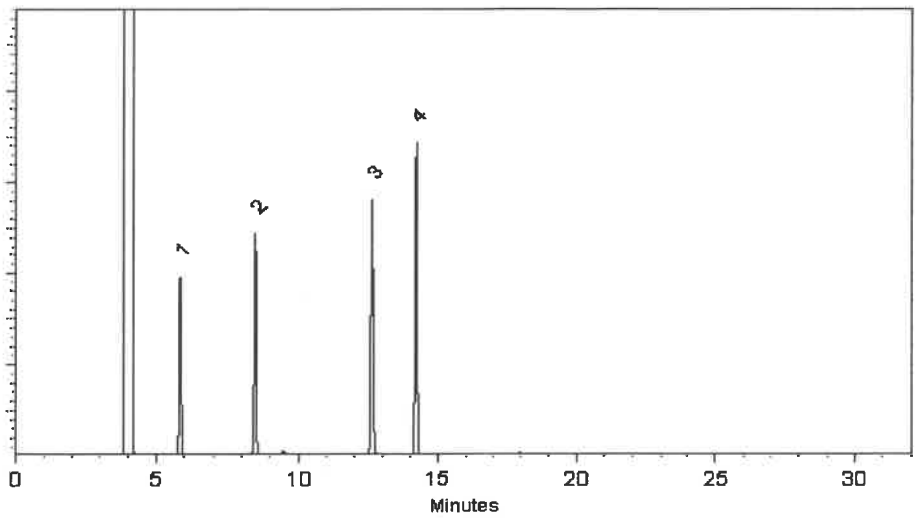
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



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Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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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. : 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.)

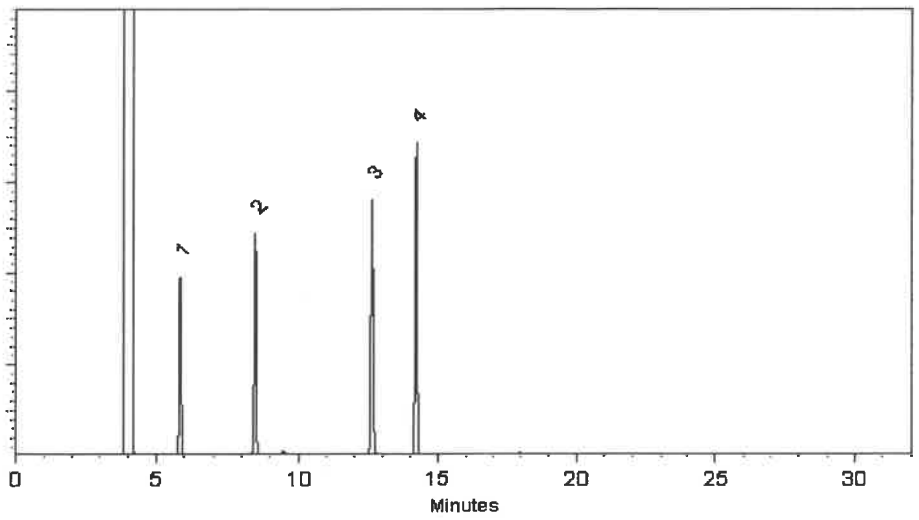
Inj. Temp:
200°C

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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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.

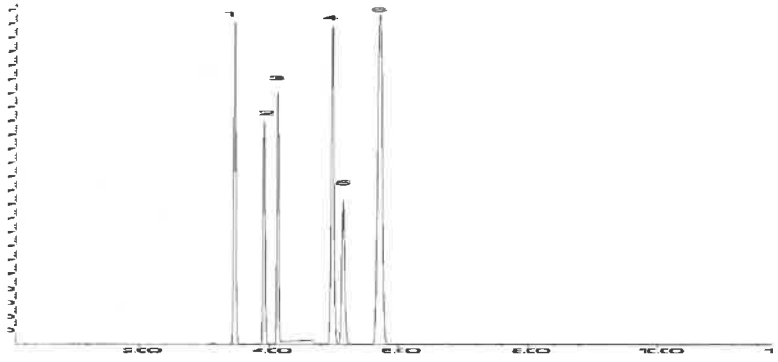
Inj. Temp:
200°C

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:

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- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

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  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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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
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6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCJ8658	99%	2,000.7 µg/mL	+/- 112.3992

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

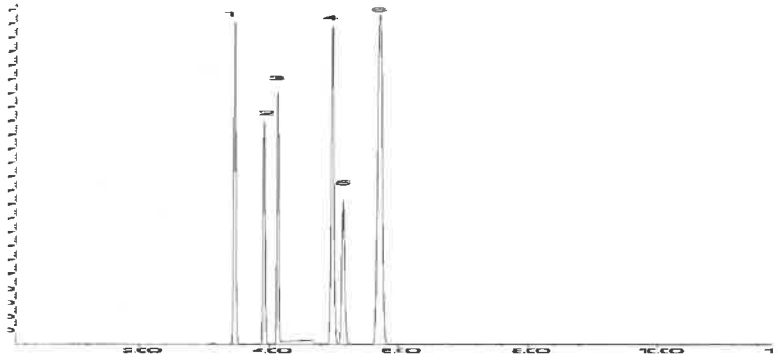
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD

Split Vent:
Split ratio 10:1

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 23-Sep-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 04-Oct-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
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- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30470 **Lot No.:** A0217535

Description : tert-Butanol Standard

tert-Butanol Std 50,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	tert-Butanol (TBA)	75-65-0	SHBQ8002-1	99%	50,007.5 µg/mL	+/- 717.6137

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

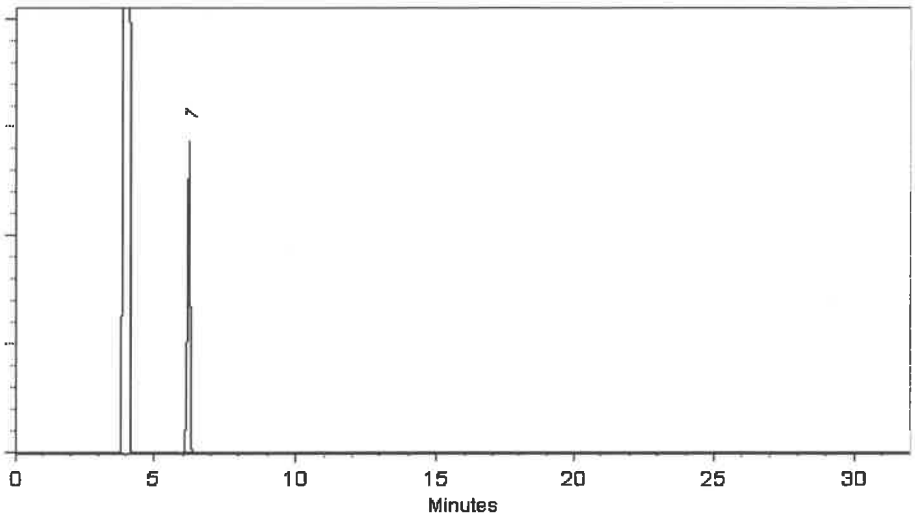
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



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Aaron Enyart - Operations Tech I

Date Mixed: 07-Oct-2024 **Balance Serial #** B251644995

Brittany Federinko - Operations Tech I

Date Passed: 09-Oct-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
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- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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CERTIFIED REFERENCE MATERIAL

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ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

gravimetric

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. : 555584 **Lot No.:** A0219012

Description : Custom CLP VOA Surrogate Standard Mix

Custom CLP VOA Surrogate Standard Mix 25,000µg/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

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%	25,228.0 µg/mL	+/- 1,428.7919
2	1-Bromo-4-fluorobenzene (BFB)	460-00-4	0000268853	99%	25,196.0 µg/mL	+/- 1,426.9795
3	Toluene-d8	2037-26-5	PR-34141	99%	25,228.0 µg/mL	+/- 1,428.7919

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Jess Hoy - Operations Tech I

Date Mixed: 12-Nov-2024 **Balance:** 1127510105

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

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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.
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Certified Uncertainty Value Notes:

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  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic

V14803 - V14822

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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. : 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.)

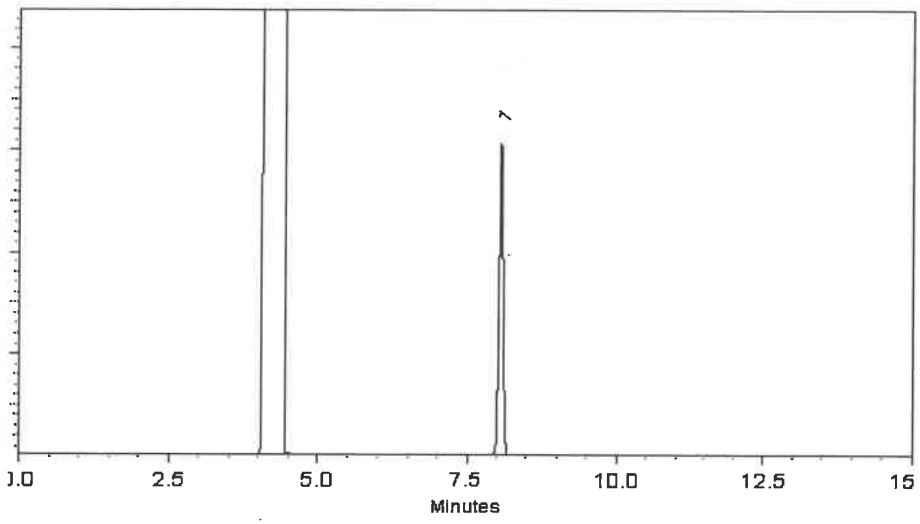
Inj. Temp:
200°C

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.

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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:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

Zoviy Rec 01/08/21

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic

V14803 - V14822

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555408-SL **Lot No.:** A0220471

Description : Custom Vinyl Acetate Standard

Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2026 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Vinyl acetate	108-05-4	RD240423RSR	99%	8,066.0 µg/mL	+/- 278.7979

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

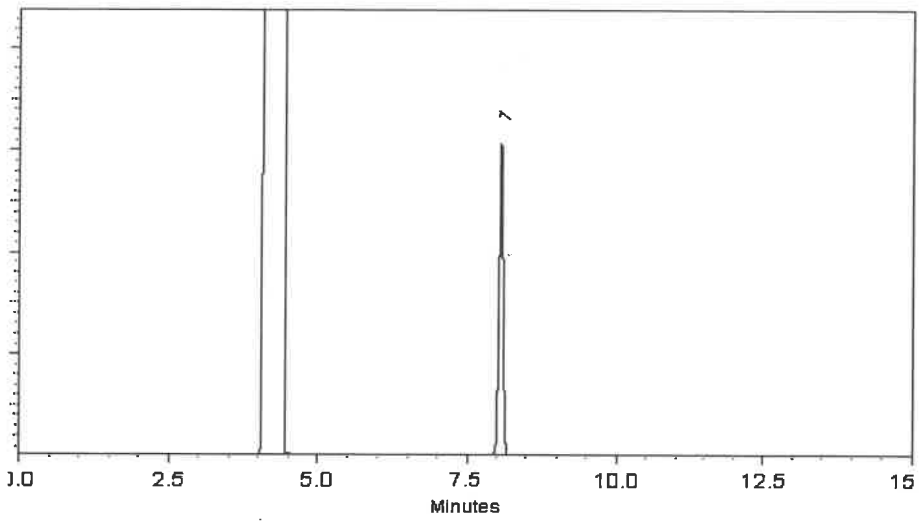
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ethan Winiarski - Operations Tech I

Date Mixed: 24-Dec-2024 **Balance Serial #** 1127510105

Dillan Murphy - Operations Technician I

Date Passed: 02-Jan-2025

REVIEWED

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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www.restek.com

Rec 03/12/25

CERTIFIED REFERENCE MATERIAL

10 vials

Certificate of Analysis

gravimetric

V14885 – to – V14894

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. : 555583 **Lot No.:** A0223136

Description : Custom CLP VOA Internal Standard Mix

Custom CLP VOA Internal Standard Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2028 **Storage:** 0°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-Difluorobenzene	540-36-3	MKCS8657	99%	25,024.0 µg/mL	+/- 1,417.2383
2	Bromochloromethane	74-97-5	S241017RSR	99%	25,060.0 µg/mL	+/- 1,419.2772
3	Chlorobenzene-d5	3114-55-4	PR-31132	99%	25,048.4 µg/mL	+/- 1,418.6202

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Penelope D. Riglin

Penelope Riglin - Operations Tech I

Date Mixed: 10-Mar-2025 **Balance:** 1128342314

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.

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- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

avantor™ | J.T.Baker®

Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
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	0.2 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.2
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

James T Ethier
Jamie Ethier
Vice President Global Quality

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

avantor™ | J.T.Baker®

V14883
V14884

Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
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500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

James T Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

SHIPPING DOCUMENTS

phenova® Certified Reference Materials | A Phenomenex® Company

Packing List

Date	Order #
03/03/2025	333289

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
3/5/2025 14:30

Customer PO #	Terms	PT Acct #	Customer #	Ship Via	F.O.B.
PO2-1517	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	WP0325	8264-04
1	1	0	PT-HG-WP	WP Mercury	WP0325	8264-05
1	1	0	PT-SNTI-WP	WP Tin & Titanium	WP0325	8264-38
1	1	0	PT-CR6-WP	WP Hexavalent Chromium	WP0325	8264-06
1	1	0	PT-DEM-WP	WP Demand	WP0325	8264-07
			PT-MINSET-WP	WP Minerals Set : (MIN1, MIN2 and COND)		
1	1	0	PT-MIN1-WP	WP Minerals 1 Only	WP0325	8264-08
1	1	0	PT-MIN2-WP	WP Minerals 2 Only	WP0325	8264-102
1	1	0	PT-COND-WP	WP Conductivity Only	WP0325	8264-72
1	1	0	PT-SOL-WP	WP Solids	WP0325	8264-09
			PT-NUTSET-WP	WP Nutrients Set : (NUT1, NUT2 and NUT3)		
1	1	0	PT-NUT1-WP	WP NUT1 Simple Nutrients Only	WP0325	8264-10
1	1	0	PT-NUT2-WP	WP NUT2 - Complex Nutrients	WP0325	8264-11
1	1	0	PT-NUT3-WP	WP NUT3 - Nitrite Only	WP0325	8264-69
1	1	0	PT-OGR1L-WP	WP Oil and Grease 1L	WP0325	8264-103
1	1	0	PT-CL-WP	WP Residual Chlorine	WP0325	8264-13
1	1	0	PT-PH-WP	WP pH	WP0325	8264-15
1	1	0	PT-CN-WP	WP Cyanide	WP0325	8264-14
1	1	0	PT-PHEN-WP	WP Phenolics	WP0325	8264-16

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Packing List

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03/03/2025	333289

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3/5/2025 14:30

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PO2-1517	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-S2-WP	WP Sulfide	WP0325	8264-22
1	1	0	PT-SSOL-WP	WP Settleable Solids	WP0325	8264-17
1	1	0	PT-TURB-WP	WP Turbidity	WP0325	8264-20
1	1	0	PT-VOA-WP	WP Volatiles	WP0325	8264-26
1	1	0	PT-BN-WP	WP Base Neutrals	WP0325	8264-27
1	1	0	PT-ACIDS-WP	WP Acids	WP0325	8264-28
1	1	0	PT-PEST-WP	WP Pesticides	WP0325	8264-29
1	1	0	PT-CHLR-WP	WP Chlordane	WP0325	8264-30
1	1	0	PT-TXP-WP	WP Toxaphene	WP0325	8264-31
1	1	0	PT-PCBW-WP	WP PCBs in Water	WP0325	8264-32
1	1	0	PT-HERB-WP	WP Herbicides	WP0325	8264-36
1	1	0	RR-TPH1L-WP	WP TPH 1L	R40367	R40367-104
1	1	0	RR-VSOL-WP	WP Volatile Solids	R40367	R40367-18
1	1	0	RR-SIO2-WP	WP Silica	R40367	R40367-21
1	1	0	RR-COL-WP	WP Color	R40367	R40367-51
1	1	0	RR-GAS-WP	WP Gasoline Range Organics	R40367	R40367-62
1	1	0	RR-DIES-WP	WP Diesel Range Organics	R40367	R40367-63
1	1	0	RR-8011-WP	WP EDB/DBCP/TCP	R40367	R40367-98
1	1	0	RR-PAH-WP	WP PAH-Low Level	R40433	R40433-37

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Packing List

Date	Order #
03/07/2025	335989

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
3/11/2025 9:55

Customer PO #	Terms	PT Acct #	Customer #	Ship Via	F.O.B.
Email: Sohil Jodhani	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	R40480	R40480-108

284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

QA Control Code: A2070148