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

DATA PACKAGE

VOLATILE ORGANICS

PROJECT NAME : FORMER SCHLUMBERGER STC PTC SITE # D3868221

JACOBS ENGINEERING GROUP, INC.

412 Mt. Kemble Ave

Downtown Building

Morristown, NJ - 07960

Phone No: 9732670555

ORDER ID : Q1501

ATTENTION : John Ynfante

Laboratory Certification ID # 20012

Table Of Contents for Q1501

Table Of Contents for Q1501

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Cover Page

Order ID : Q1501

Project ID : Former Schlumberger STC PTC Site # D3868221

Client : JACOBS Engineering Group, Inc.

Lab Sample Number	Client Sample Number
Q1501-01	MW-16B-87.5-030425
Q1501-02	MW-16B-87.5-030425-FD
Q1501-03	EB01-030525
Q1501-04	BR-05-465-030525
Q1501-05	BR-05-465-030525MS
Q1501-06	BR-05-465-030525MSD
Q1501-07	TB01-030525

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

Signature : APPROVED
By Nimisha Pandya, QA/QC Supervisor at 2:56 pm, Mar 12, 2025

Date: 3/11/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

JACOBS Engineering Group, Inc.
Project Name: Former Schlumberger STC PTC Site # D3868221
Project # N/A
Chemtech Project # Q1501
Test Name: VOCMS Group3

A. Number of Samples and Date of Receipt:
7 Water samples were received on 03/05/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: SVOC-SIMGroup1 and VOCMS Group3. This data package contains results for VOCMS Group3.

C. Analytical Techniques:
The analysis perform ed on instrument MSVOA_X were done using GC colu mn DB-624UI 20m 0.18mm 1.0 um. Cat#121-1324UIThe analysis of VOCMS Group3 was based on method 8260D.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria except for
BR-05-465-030525 [Dibromofluoromethane - 62%]
BR-05-465-030525RE [Dibromofluoromethane - 64%],
BR-05-465-030525MS [Dibromofluoromethane - 0%] and
BR-05-465-030525MSD [Dibromofluoromethane - 0%] these compounds did not meet the NJDKQP criteria and in-house criteria, sample was reanalyzed to confirm the failure and reported, MS and MSD surrogate failure confirm with parent sample.

The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.

The MS {Q1501-05MS} with File ID: VX045163.D recoveries met the requirements for all compounds except for 1,1,2-Trichloroethane[47%], 1,1-Dichloroethene[140%],these compounds did not meet the NJDKQP criteria but met the in-house criteria, while Tetrachloroethene[178%] and Trichloroethene[190%] these compounds did not meet the NJDKQP criteria and in-house criteria due to matrix interference..

The MSD {Q1501-06MSD} with File ID: VX045164.D recoveries met the acceptable requirements except for 1,1,2-Trichloroethane[31%], 1,1-Dichloroethene[146%],these compounds did not meet the NJDKQP criteria but met the in-house criteria, while

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Tetrachloroethene[171%] and Trichloroethene[183%] these compounds did not meet the NJDKQP criteria and in-house criteria due to matrix interference..

The RPD for {Q1501-06MSD} with File ID: VX045164.D met criteria except for 1,1,2-Trichloroethane[41%] this compound did not meet the NJDKQP criteria and in-house criteria due to difference in results of MS and MSD.

The Blank Spike met requirements for all samples.
The Blank Spike Duplicate met requirements for all 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.

E. Additional Comments:

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

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 p ackage is in compliance with the te rms and conditions of the contract, both technically and for com pleteness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____ **APPROVED**
By Nimisha Pandya, QA/QC Supervisor at 2:57 pm, Mar 12, 2025

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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

QA Control # A3040960

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: Q1501 MATRIX: Water

METHOD: 8260D

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications BFB Meet Criteria (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements. The 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.

The Surrogate recoveries met the acceptable criteria except for
BR-05-465-030525 [Dibromofluoromethane - 62%]
BR-05-465-030525RE [Dibromofluoromethane - 64%],
BR-05-465-030525MS [Dibromofluoromethane - 0%] and
BR-05-465-030525MSD [Dibromofluoromethane - 0%] these compounds did not meet the NJDKQP criteria and in-house criteria, sample was reanalyzed to confirm the failure and reported, MS and MSD surrogate failure confirm with parent sample.

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

		NA	NO	YES
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 MS {Q1501-05MS} with File ID: VX045163.D recoveries met the requirements for all compounds except for 1,1,2-Trichloroethane[47%], 1,1-Dichloroethene[140%],these compounds did not meet the NJDKQP criteria but met the in-house criteria, while Tetrachloroethene[178%] and Trichloroethene[190%] these compounds did not meet the NJDKQP criteria and in-house criteria due to matrix interference..

The MSD {Q1501-06MSD} with File ID: VX045164.D recoveries met the acceptable requirements except for 1,1,2-Trichloroethane[31%], 1,1-Dichloroethene[146%],these compounds did not meet the NJDKQP criteria but met the in-house criteria, while Tetrachloroethene[171%] and Trichloroethene[183%] these compounds did not meet the NJDKQP criteria and in-house criteria due to matrix interference..

The RPD for {Q1501-06MSD} with File ID: VX045164.D met criteria except for 1,1,2-Trichloroethane[41%]this compound did not meet the NJDKQP criteria and in-house criteria due to difference in results of MS and MSD.

9.	Internal Standard Area/Retention Time Shift Meet Criteria			✓

Comments:

10.	Analysis Holding Time Met			✓

If not met, list number of days exceeded for each sample:

ADDITIONAL COMMENTS:

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

QA REVIEW

REVIEWED
By Sohil Jodhani, QA/QC Director at 9:41 am, Mar 12, 2025

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q1501

	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:** **03/11/2025**

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LAB CHRONICLE

OrderID:	Q1501	**OrderDate:**	3/5/2025 3:36:00 PM
Client:	JACOBS Engineering Group, Inc.	**Project:**	Former Schlumberger STC PTC Site # D3868221
Contact:	John Ynfante	**Location:**	I21,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1501-01	**MW-16B-87.5-030425**	**Water**			**03/04/25**			**03/05/25**
			VOCMS Group3	8260-Low			03/06/25	
Q1501-02	**MW-16B-87.5-030425 -FD**	**Water**			**03/04/25**			**03/05/25**
			VOCMS Group3	8260-Low			03/06/25	
Q1501-03	**EB01-030525**	**Water**			**03/05/25**			**03/05/25**
			VOCMS Group3	8260-Low			03/05/25	
Q1501-04	**BR-05-465-030525**	**Water**			**03/05/25**			**03/05/25**
			VOCMS Group3	8260-Low			03/06/25	
Q1501-04RE	**BR-05-465-030525RE**	**Water**			**03/05/25**			**03/05/25**
			VOCMS Group3	8260-Low			03/06/25	
Q1501-07	**TB01-030525**	**Water**			**03/05/25**			**03/05/25**
			VOCMS Group3	8260-Low			03/05/25	

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Hit Summary Sheet
SW-846

SDG No.: Q1501

Client: JACOBS Engineering Group, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:								
				0				
			Total Voc :					
			Total Concentration:					

QC SUMMARY

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

SDG No.: Q1501

Client: JACOBS Engineering Group, Inc.

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery	Qual	Limits Low	Limits High
Q1501-01	MW-16B-87.5-030425	1,2-Dichloroethane-d4	50	51.0	102		70 (74)	130 (125)
		Dibromofluoromethane	50	49.8	100		70 (75)	130 (124)
		Toluene-d8	50	50.5	101		70 (86)	130 (113)
		4-Bromofluorobenzene	50	48.8	98		70 (77)	130 (121)
Q1501-02	MW-16B-87.5-030425-FD	1,2-Dichloroethane-d4	50	52.0	104		70 (74)	130 (125)
		Dibromofluoromethane	50	51.3	103		70 (75)	130 (124)
		Toluene-d8	50	52.2	104		70 (86)	130 (113)
		4-Bromofluorobenzene	50	53.2	106		70 (77)	130 (121)
Q1501-03	EB01-030525	1,2-Dichloroethane-d4	50	53.2	106		70 (74)	130 (125)
		Dibromofluoromethane	50	51.2	102		70 (75)	130 (124)
		Toluene-d8	50	52.1	104		70 (86)	130 (113)
		4-Bromofluorobenzene	50	53.3	107		70 (77)	130 (121)
Q1501-04	BR-05-465-030525	1,2-Dichloroethane-d4	50	53.0	106		70 (74)	130 (125)
		Dibromofluoromethane	50	31.2	62	*	70 (75)	130 (124)
		Toluene-d8	50	51.5	103		70 (86)	130 (113)
		4-Bromofluorobenzene	50	52.0	104		70 (77)	130 (121)
Q1501-04RE	BR-05-465-030525RE	1,2-Dichloroethane-d4	50	51.5	103		70 (74)	130 (125)
		Dibromofluoromethane	50	32.1	64	*	70 (75)	130 (124)
		Toluene-d8	50	50.8	102		70 (86)	130 (113)
		4-Bromofluorobenzene	50	53.9	108		70 (77)	130 (121)
Q1501-05MS	BR-05-465-030525MS	1,2-Dichloroethane-d4	50	51.4	103		70 (74)	130 (125)
		Dibromofluoromethane	50	0	0	*	70 (75)	130 (124)
		Toluene-d8	50	53.2	106		70 (86)	130 (113)
		4-Bromofluorobenzene	50	54.7	109		70 (77)	130 (121)
Q1501-06MSD	BR-05-465-030525MSD	1,2-Dichloroethane-d4	50	49.2	98		70 (74)	130 (125)
		Dibromofluoromethane	50	0	0	*	70 (75)	130 (124)
		Toluene-d8	50	48.1	96		70 (86)	130 (113)
		4-Bromofluorobenzene	50	48.8	98		70 (77)	130 (121)
Q1501-07	TB01-030525	1,2-Dichloroethane-d4	50	52.5	105		70 (74)	130 (125)
		Dibromofluoromethane	50	50.5	101		70 (75)	130 (124)
		Toluene-d8	50	51.8	104		70 (86)	130 (113)
		4-Bromofluorobenzene	50	53.9	108		70 (77)	130 (121)
VX0305WBL01	VX0305WBL01	1,2-Dichloroethane-d4	50	52.7	105		70 (74)	130 (125)
		Dibromofluoromethane	50	51.0	102		70 (75)	130 (124)
		Toluene-d8	50	51.0	102		70 (86)	130 (113)
		4-Bromofluorobenzene	50	51.5	103		70 (77)	130 (121)
VX0305WBS01	VX0305WBS01	1,2-Dichloroethane-d4	50	48.4	97		70 (74)	130 (125)
		Dibromofluoromethane	50	49.3	99		70 (75)	130 (124)
		Toluene-d8	50	50.0	100		70 (86)	130 (113)
		4-Bromofluorobenzene	50	49.5	99		70 (77)	130 (121)
VX0306WBL01	VX0306WBL01	1,2-Dichloroethane-d4	50	53.9	108		70 (74)	130 (125)
		Dibromofluoromethane	50	52.4	105		70 (75)	130 (124)
		Toluene-d8	50	52.3	105		70 (86)	130 (113)
		4-Bromofluorobenzene	50	51.8	104		70 (77)	130 (121)
VX0306WBS01	VX0306WBS01	1,2-Dichloroethane-d4	50	50.2	100		70 (74)	130 (125)
		Dibromofluoromethane	50	50.9	102		70 (75)	130 (124)
		Toluene-d8	50	50.3	101		70 (86)	130 (113)
		4-Bromofluorobenzene	50	49.2	98		70 (77)	130 (121)

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1501

Client: JACOBS Engineering Group, Inc.

Analytical Method: SW8260-Low

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID : Q1501-05MS	**Client Sample ID :** BR-05-465-030525MS							**Datafile :** VX045163.D			
Vinyl chloride	50	0	47.4	ug/L	95				70 (69)	130 (125)	
1,1-Dichloroethene	50	0	70.0	ug/L	140	*			70 (53)	130 (162)	
1,1-Dichloroethane	50	0	50.2	ug/L	100				70 (78)	130 (122)	
cis-1,2-Dichloroethene	50	0	50.6	ug/L	101				70 (82)	130 (124)	
1,1,1-Trichloroethane	50	0	49.9	ug/L	100				70 (83)	130 (117)	
Benzene	50	0	51.7	ug/L	103				70 (81)	130 (128)	
1,2-Dichloroethane	50	0	51.6	ug/L	103				70 (76)	130 (120)	
Trichloroethene	50	0	94.9	ug/L	190	*			70 (28)	130 (175)	
1,1,2-Trichloroethane	50	0	23.6	ug/L	47	*			70 (27)	130 (175)	
Tetrachloroethene	50	0	88.9	ug/L	178	*			70 (48)	130 (153)	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1501

Client: JACOBS Engineering Group, Inc.

Analytical Method: SW8260-Low

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID : Q1501-06MSD	**Client Sample ID :** BR-05-465-030525MSD							**Datafile :** VX045164.D			
Vinyl chloride	50	0	43.3	ug/L	87		9		70 (69)	130 (125)	20 (20)
1,1-Dichloroethene	50	0	73.0	ug/L	146	*	4		70 (53)	130 (162)	20 (20)
1,1-Dichloroethane	50	0	48.8	ug/L	98		3		70 (78)	130 (122)	20 (20)
cis-1,2-Dichloroethene	50	0	48.8	ug/L	98		4		70 (82)	130 (124)	20 (20)
1,1,1-Trichloroethane	50	0	49.4	ug/L	99		1		70 (83)	130 (117)	20 (20)
Benzene	50	0	49.0	ug/L	98		5		70 (81)	130 (128)	20 (20)
1,2-Dichloroethane	50	0	49.8	ug/L	100		4		70 (76)	130 (120)	20 (20)
Trichloroethene	50	0	91.5	ug/L	183	*	4		70 (28)	130 (175)	20 (20)
1,1,2-Trichloroethane	50	0	15.6	ug/L	31	*	41	*	70 (27)	130 (175)	20 (20)
Tetrachloroethene	50	0	85.3	ug/L	171	*	4		70 (48)	130 (153)	20 (20)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1501

Client: JACOBS Engineering Group, Inc.

Analytical Method: SW8260-Low **Datafile :** VX045130.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0305WBS01	Vinyl chloride	20	16.6	ug/L	83			70 (65)	130 (117)	
	1,1-Dichloroethene	20	17.5	ug/L	88			70 (74)	130 (110)	
	1,1-Dichloroethane	20	17.5	ug/L	88			70 (78)	130 (112)	
	cis-1,2-Dichloroethene	20	17.7	ug/L	89			70 (77)	130 (110)	
	1,1,1-Trichloroethane	20	17.8	ug/L	89			70 (80)	130 (108)	
	Benzene	20	18.2	ug/L	91			70 (82)	130 (109)	
	1,2-Dichloroethane	20	17.8	ug/L	89			70 (80)	130 (115)	
	Trichloroethene	20	17.5	ug/L	88			70 (77)	130 (113)	
	1,1,2-Trichloroethane	20	17.8	ug/L	89			70 (83)	130 (112)	
	Tetrachloroethene	20	18.5	ug/L	93			70 (67)	130 (123)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1501

Client: JACOBS Engineering Group, Inc.

Analytical Method: SW8260-Low **Datafile :** VX045158.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0306WBS01	Vinyl chloride	20	19.4	ug/L	97			70 (65)	130 (117)	
	1,1-Dichloroethene	20	21.3	ug/L	106			70 (74)	130 (110)	
	1,1-Dichloroethane	20	21.0	ug/L	105			70 (78)	130 (112)	
	cis-1,2-Dichloroethene	20	21.2	ug/L	106			70 (77)	130 (110)	
	1,1,1-Trichloroethane	20	21.1	ug/L	106			70 (80)	130 (108)	
	Benzene	20	21.5	ug/L	108			70 (82)	130 (109)	
	1,2-Dichloroethane	20	21.4	ug/L	107			70 (80)	130 (115)	
	Trichloroethene	20	20.8	ug/L	104			70 (77)	130 (113)	
	1,1,2-Trichloroethane	20	20.2	ug/L	101			70 (83)	130 (112)	
	Tetrachloroethene	20	22.2	ug/L	111			70 (67)	130 (123)	

( ) = LABORATORY INHOUSE LIMIT

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX0305WBL01

Lab Name: CHEMTECH Contract: JACO05

Lab Code: CHEM Case No.: Q1501 SAS No.: Q1501 SDG NO.: Q1501

Lab File ID: VX045129.D Lab Sample ID: VX0305WBL01

Date Analyzed: 03/05/2025 Time Analyzed: 10:03

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
VX0305WBS01	VX0305WBS01	VX045130.D	03/05/2025
EB01-030525	Q1501-03	VX045146.D	03/05/2025
TB01-030525	Q1501-07	VX045147.D	03/05/2025

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX0306WBL01

Lab Name: CHEMTECH Contract: JACO05

Lab Code: CHEM Case No.: Q1501 SAS No.: Q1501 SDG NO.: Q1501

Lab File ID: VX045157.D Lab Sample ID: VX0306WBL01

Date Analyzed: 03/06/2025 Time Analyzed: 10:46

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
VX0306WBS01	VX0306WBS01	VX045158.D	03/06/2025
MW-16B-87.5-030425	Q1501-01	VX045159.D	03/06/2025
MW-16B-87.5-030425-FD	Q1501-02	VX045160.D	03/06/2025
BR-05-465-030525	Q1501-04	VX045162.D	03/06/2025
BR-05-465-030525MS	Q1501-05MS	VX045163.D	03/06/2025
BR-05-465-030525MSD	Q1501-06MSD	VX045164.D	03/06/2025
BR-05-465-030525RE	Q1501-04RE	VX045167.D	03/06/2025

COMMENTS:

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: JACO05

Lab Code: CHEM Case No.: Q1501 SAS No.: Q1501 SDG NO.: Q1501

Lab File ID: VX045067.D BFB Injection Date: 02/28/2025

Instrument ID: MSVOA_X BFB Injection Time: 01:03

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.7
75	30.0 - 60.0% of mass 95	53.6
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.7 (1) 1
174	50.0 - 100.0% of mass 95	73.8
175	5.0 - 9.0% of mass 174	5.8 (7.9) 1
176	95.0 - 101.0% of mass 174	70.6 (95.6) 1
177	5.0 - 9.0% of mass 176	4.3 (6.2) 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
VSTDICC001	VSTDICC001	VX045068.D	02/28/2025	01:27
VSTDICC005	VSTDICC005	VX045069.D	02/28/2025	02:13
VSTDICC020	VSTDICC020	VX045070.D	02/28/2025	02:37
VSTDICCC050	VSTDICCC050	VX045071.D	02/28/2025	03:00
VSTDICC100	VSTDICC100	VX045072.D	02/28/2025	03:23
VSTDICC150	VSTDICC150	VX045073.D	02/28/2025	03:47

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH
Contract: JACO05
Lab Code: CHEM
Case No.: Q1501
SAS No.: Q1501
SDG NO.: Q1501
Lab File ID: VX045126.D
BFB Injection Date: 03/05/2025
Instrument ID: MSVOA_X
BFB Injection Time: 08:40
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
75	30.0 - 60.0% of mass 95	53.5
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.1
173	Less than 2.0% of mass 174	0.8 (1.1) 1
174	50.0 - 100.0% of mass 95	77
175	5.0 - 9.0% of mass 174	5.1 (6.7) 1
176	95.0 - 101.0% of mass 174	73.3 (95.1) 1
177	5.0 - 9.0% of mass 176	5 (6.9) 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
VSTDCCC050	VSTDCCC050	VX045127.D	03/05/2025	09:12
VX0305WBL01	VX0305WBL01	VX045129.D	03/05/2025	10:03
VX0305WBS01	VX0305WBS01	VX045130.D	03/05/2025	10:26
EB01-030525	Q1501-03	VX045146.D	03/05/2025	16:42
TB01-030525	Q1501-07	VX045147.D	03/05/2025	17:05

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH
Contract: JACO05
Lab Code: CHEM
Case No.: Q1501
SAS No.: Q1501
SDG NO.: Q1501
Lab File ID: VX045154.D
BFB Injection Date: 03/06/2025
Instrument ID: MSVOA_X
BFB Injection Time: 09:09
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	21.5
75	30.0 - 60.0% of mass 95	54
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.8 (1.1) 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	67.9 (96.1) 1
177	5.0 - 9.0% of mass 176	4.5 (6.6) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VX045155.D	03/06/2025	09:56
VX0306WBL01	VX0306WBL01	VX045157.D	03/06/2025	10:46
VX0306WBS01	VX0306WBS01	VX045158.D	03/06/2025	11:10
MW-16B-87.5-030425	Q1501-01	VX045159.D	03/06/2025	11:36
MW-16B-87.5-030425-FD	Q1501-02	VX045160.D	03/06/2025	12:00
BR-05-465-030525	Q1501-04	VX045162.D	03/06/2025	12:46
BR-05-465-030525MS	Q1501-05MS	VX045163.D	03/06/2025	13:09
BR-05-465-030525MSD	Q1501-06MSD	VX045164.D	03/06/2025	13:33
BR-05-465-030525RE	Q1501-04RE	VX045167.D	03/06/2025	14:43

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: JACO05

Lab Code: CHEM Case No.: Q1501 SAS No.: Q1501 SDG NO.: Q1501

Lab File ID: VX045127.D Date Analyzed: 03/05/2025

Instrument ID: MSVOA_X Time Analyzed: 09:12

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	112291	5.54	190470	6.75	164207	10.05
UPPER LIMIT	224582	6.044	380940	7.251	328414	10.549
LOWER LIMIT	56145.5	5.044	95235	6.251	82103.5	9.549
EPA SAMPLE NO.						
EB01-030525	76618	5.55	152804	6.76	141933	10.06
TB01-030525	75698	5.55	149796	6.76	139795	10.06
VX0305WBL01	68143	5.54	136785	6.76	125445	10.05
VX0305WBS01	98769	5.54	177910	6.76	153160	10.06

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

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

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

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: JACO05

Lab Code: CHEM Case No.: Q1501 SAS No.: Q1501 SDG NO.: Q1501

Lab File ID: VX045127.D Date Analyzed: 03/05/2025

Instrument ID: MSVOA_X Time Analyzed: 09:12

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

	IS4 AREA #	RT #				
12 HOUR STD	74481	12.018				
UPPER LIMIT	148962	12.518				
LOWER LIMIT	37240.5	11.518				
EPA SAMPLE NO.						
EB01-030525	61013	12.02				
TB01-030525	59512	12.02				
VX0305WBL01	50961	12.02				
VX0305WBS01	68669	12.02				

IS4 = 1,4-Dichlorobenzene-d4

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

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

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: JACO05

Lab Code: CHEM Case No.: Q1501 SAS No.: Q1501 SDG NO.: Q1501

Lab File ID: VX045155.D Date Analyzed: 03/06/2025

Instrument ID: MSVOA_X Time Analyzed: 09:56

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	99532	5.54	175834	6.76	153746	10.05
UPPER LIMIT	199064	6.044	351668	7.257	307492	10.549
LOWER LIMIT	49766	5.044	87917	6.257	76873	9.549
EPA SAMPLE NO.						
MW-16B-87.5-030425	72795	5.54	143393	6.76	125824	10.06
MW-16B-87.5-030425-FD	75969	5.54	150240	6.76	138477	10.05
BR-05-465-030525	75251	5.55	148139	6.76	137077	10.06
BR-05-465-030525RE	75979	5.55	147971	6.76	137883	10.05
BR-05-465-030525MS	101112	5.54	179083	6.76	156313	10.06
BR-05-465-030525MSD	100565	5.55	182698	6.76	154927	10.05
VX0306WBL01	71177	5.54	139793	6.76	129041	10.05
VX0306WBS01	97102	5.54	175752	6.76	147757	10.05

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

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

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

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: JACO05

Lab Code: CHEM Case No.: Q1501 SAS No.: Q1501 SDG NO.: Q1501

Lab File ID: VX045155.D Date Analyzed: 03/06/2025

Instrument ID: MSVOA_X Time Analyzed: 09:56

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

	IS4 AREA #	RT #				
12 HOUR STD	69403	12.018				
UPPER LIMIT	138806	12.518				
LOWER LIMIT	34701.5	11.518				
EPA SAMPLE NO.						
MW-16B-87.5-030425	52705	12.02				
MW-16B-87.5-030425-FD	59093	12.02				
BR-05-465-030525	55408	12.02				
BR-05-465-030525RE	58504	12.02				
BR-05-465-030525MS	67219	12.02				
BR-05-465-030525MSD	68360	12.02				
VX0306WBL01	53719	12.02				
VX0306WBS01	67123	12.02				

IS4 = 1,4-Dichlorobenzene-d4

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

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

SAMPLE DATA

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	03/04/25
Project:	Former Schlumberger STC PTC Site # D3868221	Date Received:	03/05/25
Client Sample ID:	MW-16B-87.5-030425	SDG No.:	Q1501
Lab Sample ID:	Q1501-01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045159.D	1		03/06/25 11:36	VX030625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	1.00	ug/L
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	1.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.1		70 (74) - 130 (125)	102%	SPK: 50
1868-53-7	Dibromofluoromethane	49.8		70 (75) - 130 (124)	100%	SPK: 50
2037-26-5	Toluene-d8	50.5		70 (86) - 130 (113)	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.8		70 (77) - 130 (121)	98%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	72800	5.543			
540-36-3	1,4-Difluorobenzene	143000	6.757			
3114-55-4	Chlorobenzene-d5	126000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	52700	12.024			

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

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

Sample Results: **VX045159.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
Data File : VX045159.D
Acq On : 06 Mar 2025 11:36
Operator : JC/MD
Sample : Q1501-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
MW-16B-87.5-030425

Quant Time: Mar 07 01:36:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.543	168	72795	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	143393	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	125824	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	52705	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	59112	51.051	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 102.100%			
35) Dibromofluoromethane	5.385	113	47786	49.838	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 99.680%			
50) Toluene-d8	8.646	98	175482	50.482	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.960%			
62) 4-Bromofluorobenzene	11.079	95	56245	48.829	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 97.660%			
Target Compounds						Qvalue
16) Acetone	2.385	43	6724	12.516	ug/l	93

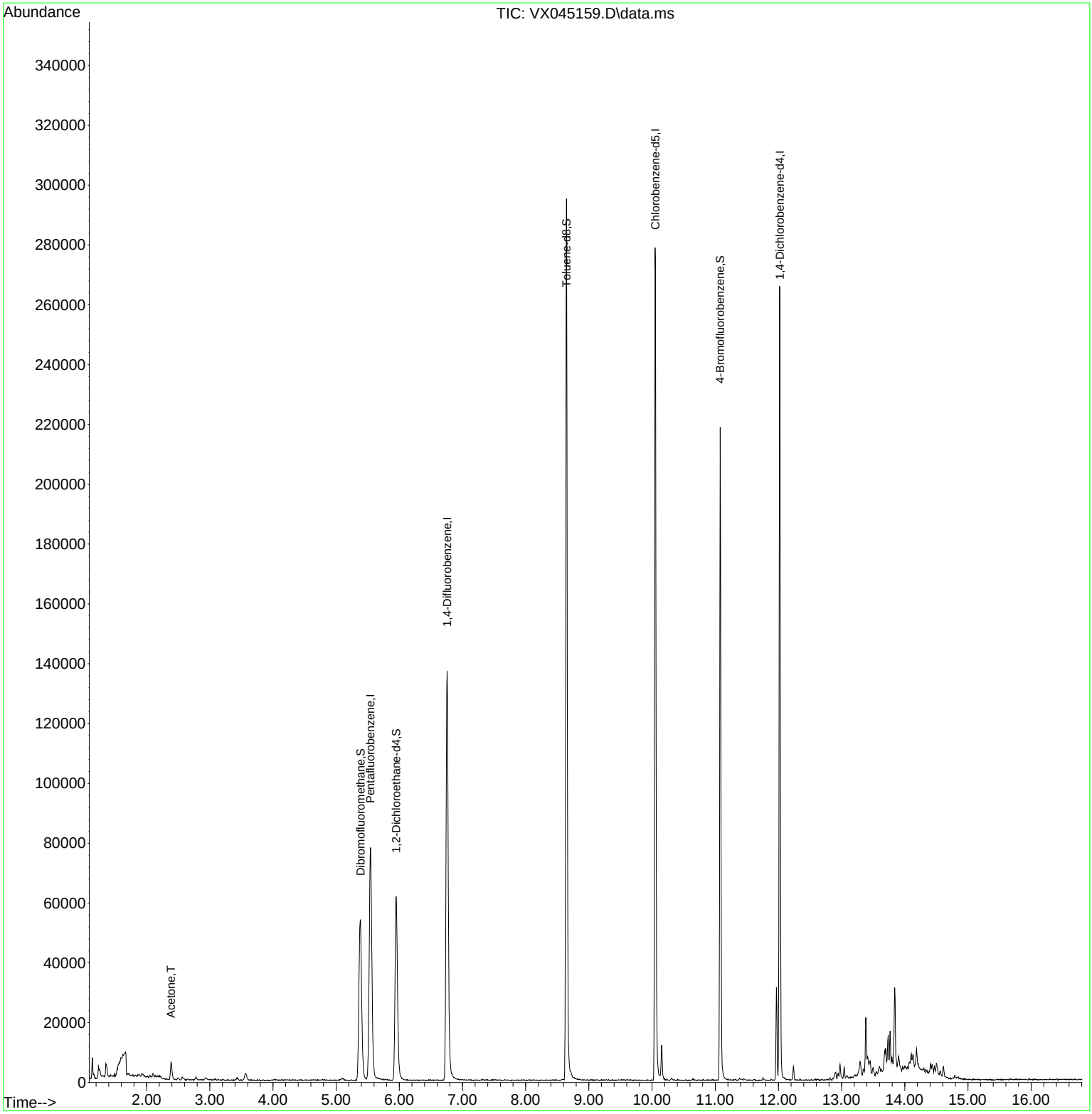
(#) = qualifier out of range (m) = manual integration (+) = signals summed

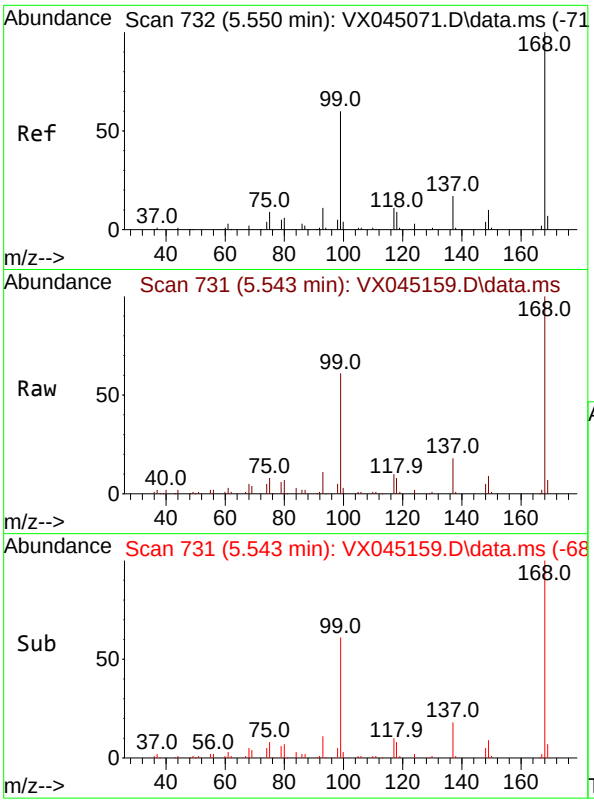
Sample Results: **VX045159.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
Data File : VX045159.D
Acq On : 06 Mar 2025 11:36
Operator : JC/MD
Sample : Q1501-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
MW-16B-87.5-030425

Quant Time: Mar 07 01:36:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration



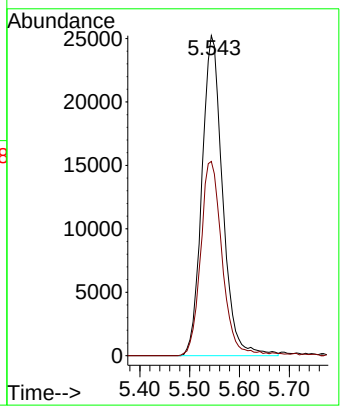


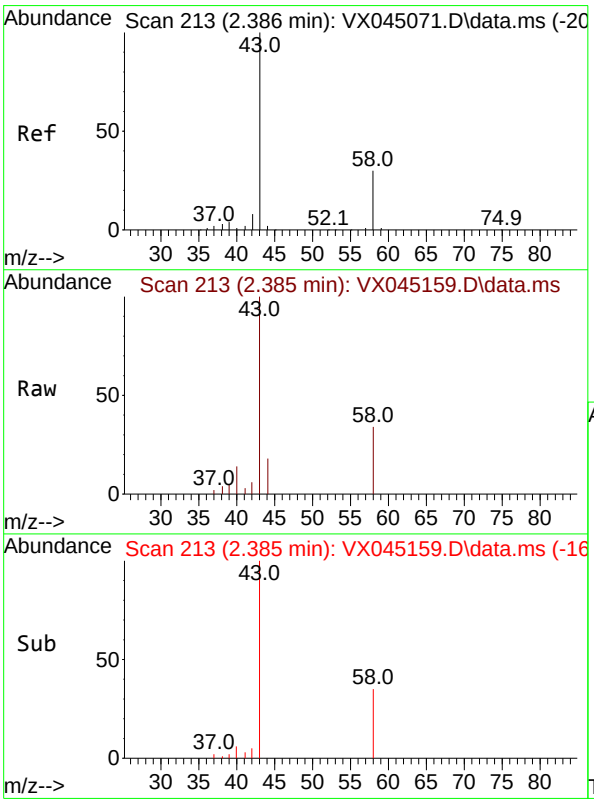
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.543 min Scan# 7
Delta R.T. -0.007 min
Lab File: VX045159.D
Acq: 06 Mar 2025 11:36

Instrument :
MSVOA_X
ClientSampleId :
MW-16B-87.5-030425

Tgt Ion:168 Resp: 72795

Ion	Ratio	Lower	Upper
168	100		
99	60.7	48.2	72.4

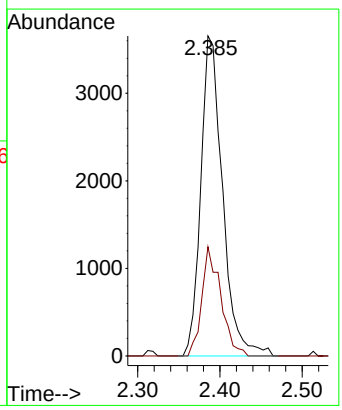


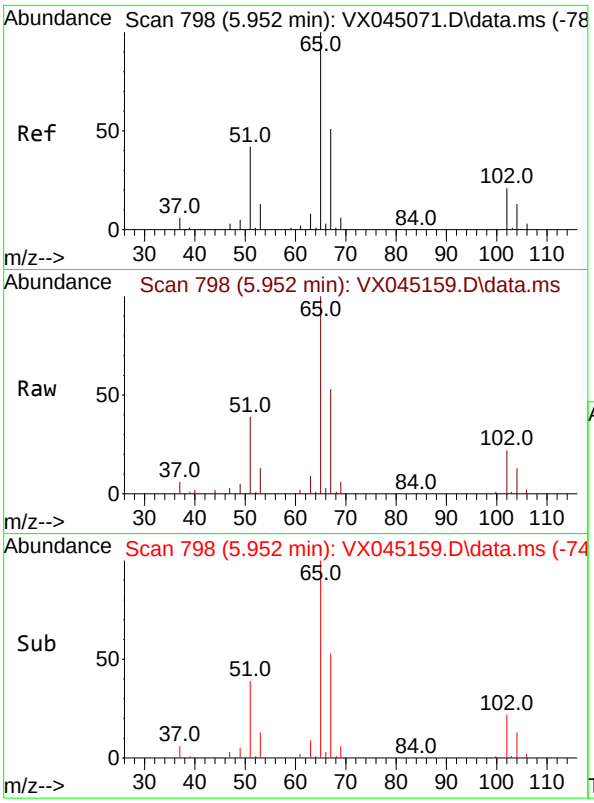


#16
Acetone
Concen: 12.516 ug/l
RT: 2.385 min Scan# 213
Delta R.T. -0.000 min
Lab File: VX045159.D
Acq: 06 Mar 2025 11:36

Tgt Ion: 43 Resp: 6724

Ion	Ratio	Lower	Upper
43	100		
58	34.1	24.2	36.4



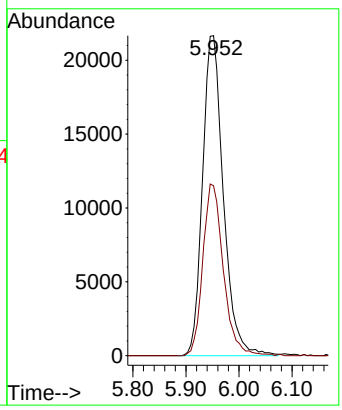


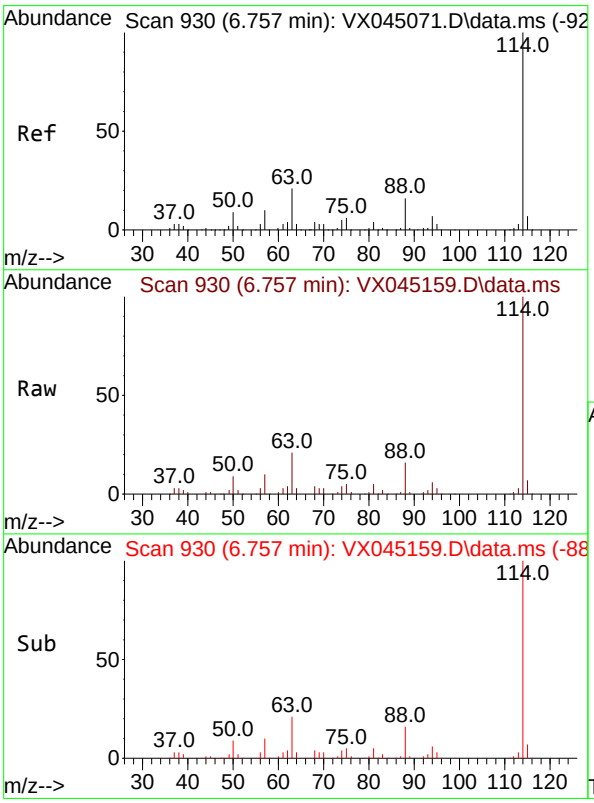
#33
1,2-Dichloroethane-d4
Concen: 51.051 ug/l
RT: 5.952 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045159.D
Acq: 06 Mar 2025 11:36

Instrument :
MSVOA_X
ClientSampleId :
MW-16B-87.5-030425

Tgt Ion: 65 Resp: 59112

Ion	Ratio	Lower	Upper
65	100		
67	52.8	0.0	106.2

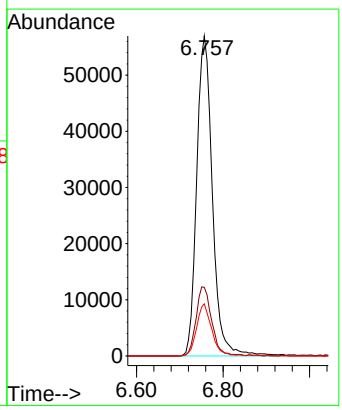


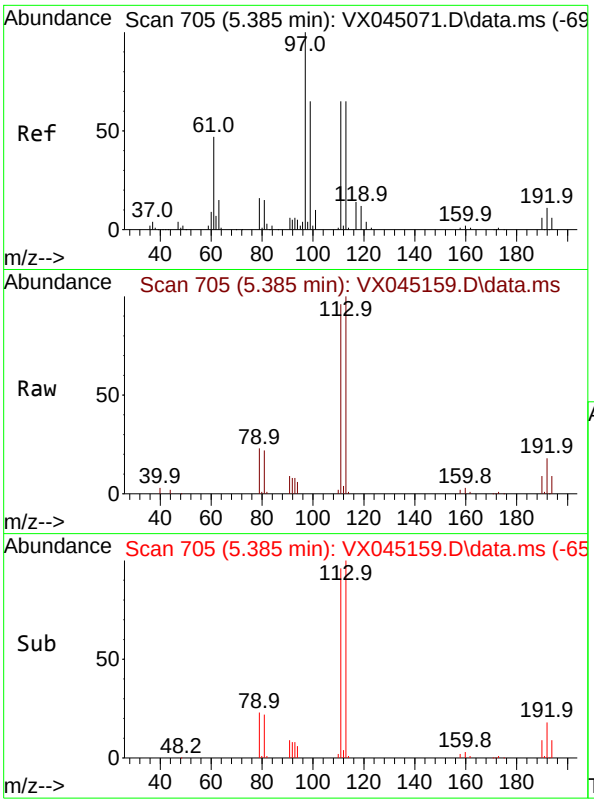


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX045159.D
Acq: 06 Mar 2025 11:36

Tgt Ion:114 Resp: 143393

Ion	Ratio	Lower	Upper
114	100		
63	21.5	0.0	41.8
88	16.3	0.0	32.8



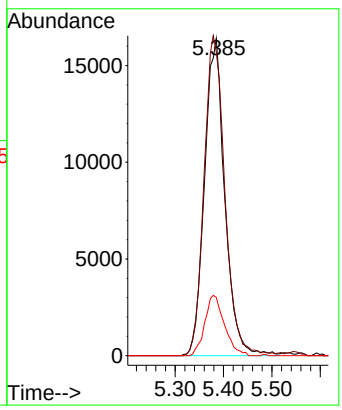


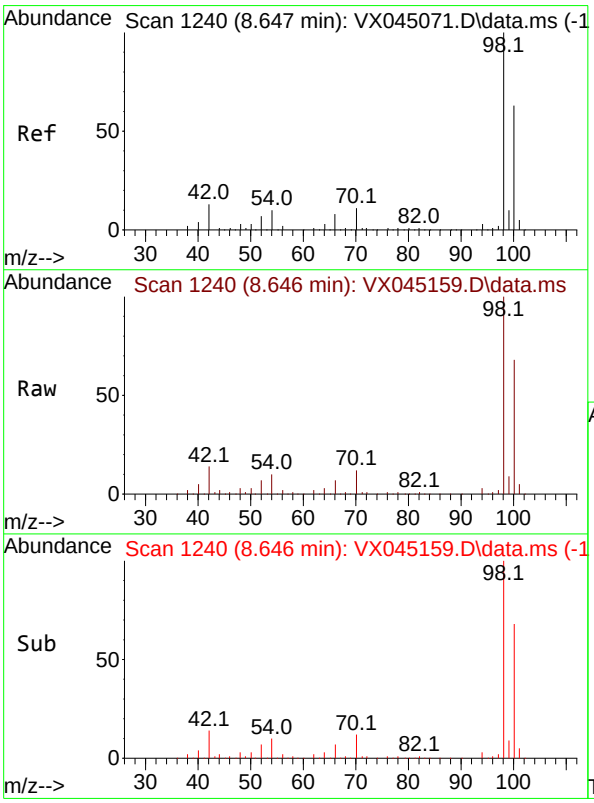
#35
Dibromofluoromethane
Concen: 49.838 ug/l
RT: 5.385 min Scan# 7(
Delta R.T. -0.000 min
Lab File: VX045159.D
Acq: 06 Mar 2025 11:36

Instrument :
MSVOA_X
ClientSampleId :
MW-16B-87.5-030425

Tgt Ion:113 Resp: 47786

Ion	Ratio	Lower	Upper
113	100		
111	103.3	81.8	122.6
192	18.4	14.3	21.5

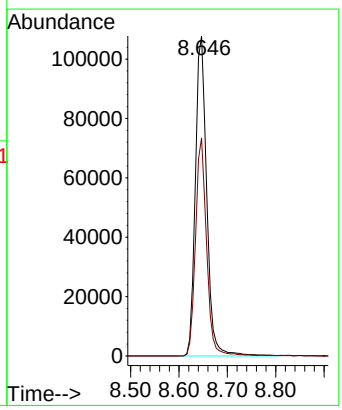


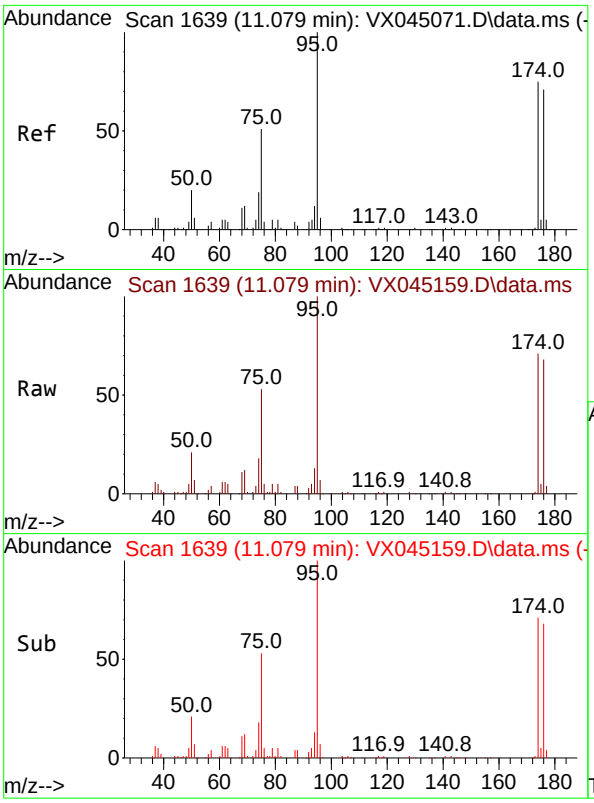


#50
Toluene-d8
Concen: 50.482 ug/l
RT: 8.646 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX045159.D
Acq: 06 Mar 2025 11:36

Tgt Ion: 98 Resp: 175482

Ion	Ratio	Lower	Upper
98	100		
100	66.1	52.0	78.0



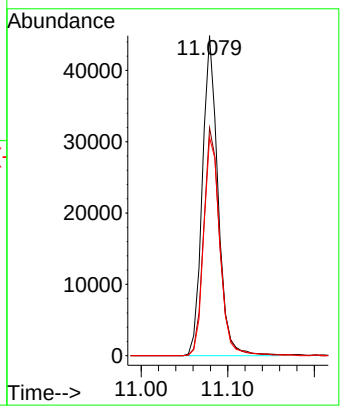


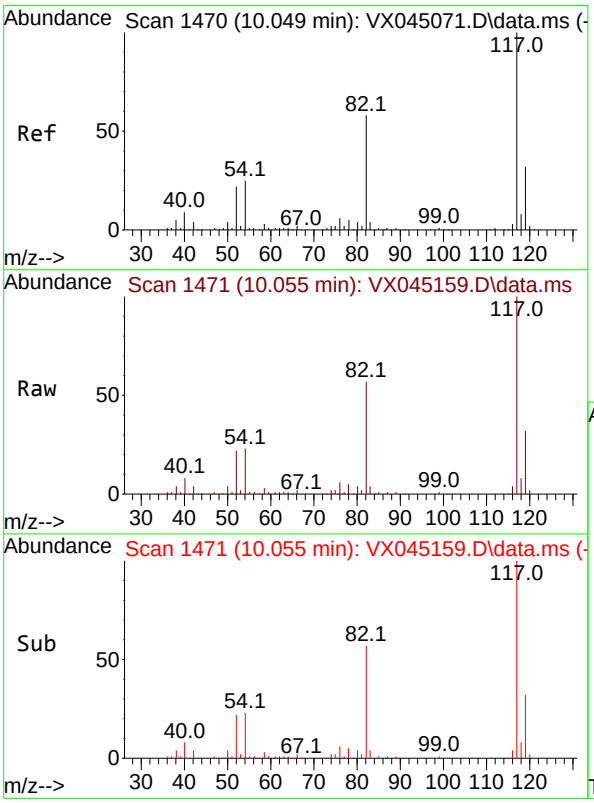
#62
4-Bromofluorobenzene
Concen: 48.829 ug/l
RT: 11.079 min Scan# 1(
Delta R.T. -0.000 min
Lab File: VX045159.D
Acq: 06 Mar 2025 11:36

Instrument :
MSVOA_X
ClientSampleId :
MW-16B-87.5-030425

Tgt Ion: 95 Resp: 56245

Ion	Ratio	Lower	Upper
95	100		
174	73.2	0.0	148.2
176	70.9	0.0	141.4

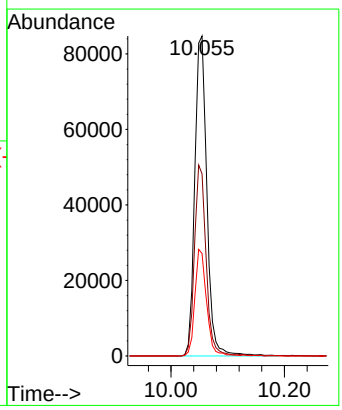


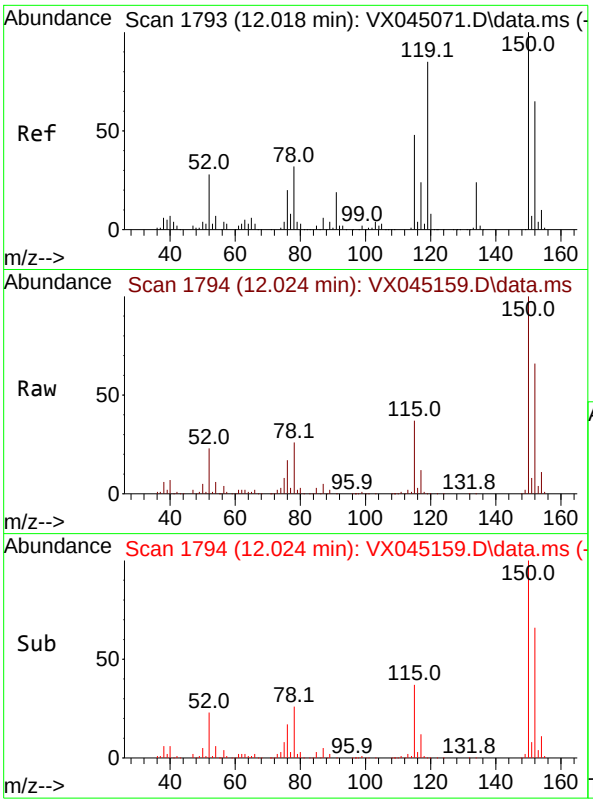


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.006 min
Lab File: VX045159.D
Acq: 06 Mar 2025 11:36

Tgt Ion:117 Resp: 125824

Ion	Ratio	Lower	Upper
117	100		
82	56.9	46.3	69.5
119	32.0	25.7	38.5



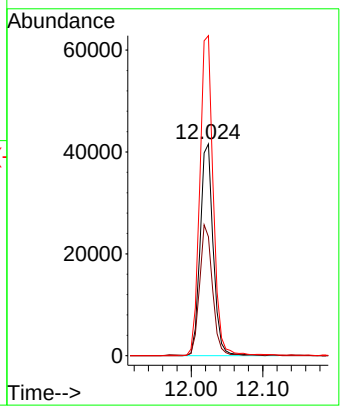


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045159.D
Acq: 06 Mar 2025 11:36

Instrument :
MSVOA_X
ClientSampleId :
MW-16B-87.5-030425

Tgt Ion:152 Resp: 52705

Ion	Ratio	Lower	Upper
152	100		
115	61.2	44.2	132.6
150	155.1	0.0	349.0



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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	03/04/25
Project:	Former Schlumberger STC PTC Site # D3868221	Date Received:	03/05/25
Client Sample ID:	MW-16B-87.5-030425-FD	SDG No.:	Q1501
Lab Sample ID:	Q1501-02	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045160.D	1		03/06/25 12:00	VX030625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	1.00	ug/L
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	1.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.0		70 (74) - 130 (125)	104%	SPK: 50
1868-53-7	Dibromofluoromethane	51.3		70 (75) - 130 (124)	103%	SPK: 50
2037-26-5	Toluene-d8	52.2		70 (86) - 130 (113)	104%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.2		70 (77) - 130 (121)	106%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	76000	5.544			
540-36-3	1,4-Difluorobenzene	150000	6.757			
3114-55-4	Chlorobenzene-d5	138000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	59100	12.018			

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

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

Sample Results: **VX045160.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
Data File : VX045160.D
Acq On : 06 Mar 2025 12:00
Operator : JC/MD
Sample : Q1501-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
MW-16B-87.5-030425-FD

Quant Time: Mar 07 00:39:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	75969	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	150240	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	138477	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	59093	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	62783	51.956	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 103.920%			
35) Dibromofluoromethane	5.385	113	51551	51.314	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.620%			
50) Toluene-d8	8.647	98	190091	52.193	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 104.380%			
62) 4-Bromofluorobenzene	11.079	95	64236	53.225	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 106.440%			
Target Compounds						Qvalue
16) Acetone	2.380	43	7022	12.525	ug/l #	88

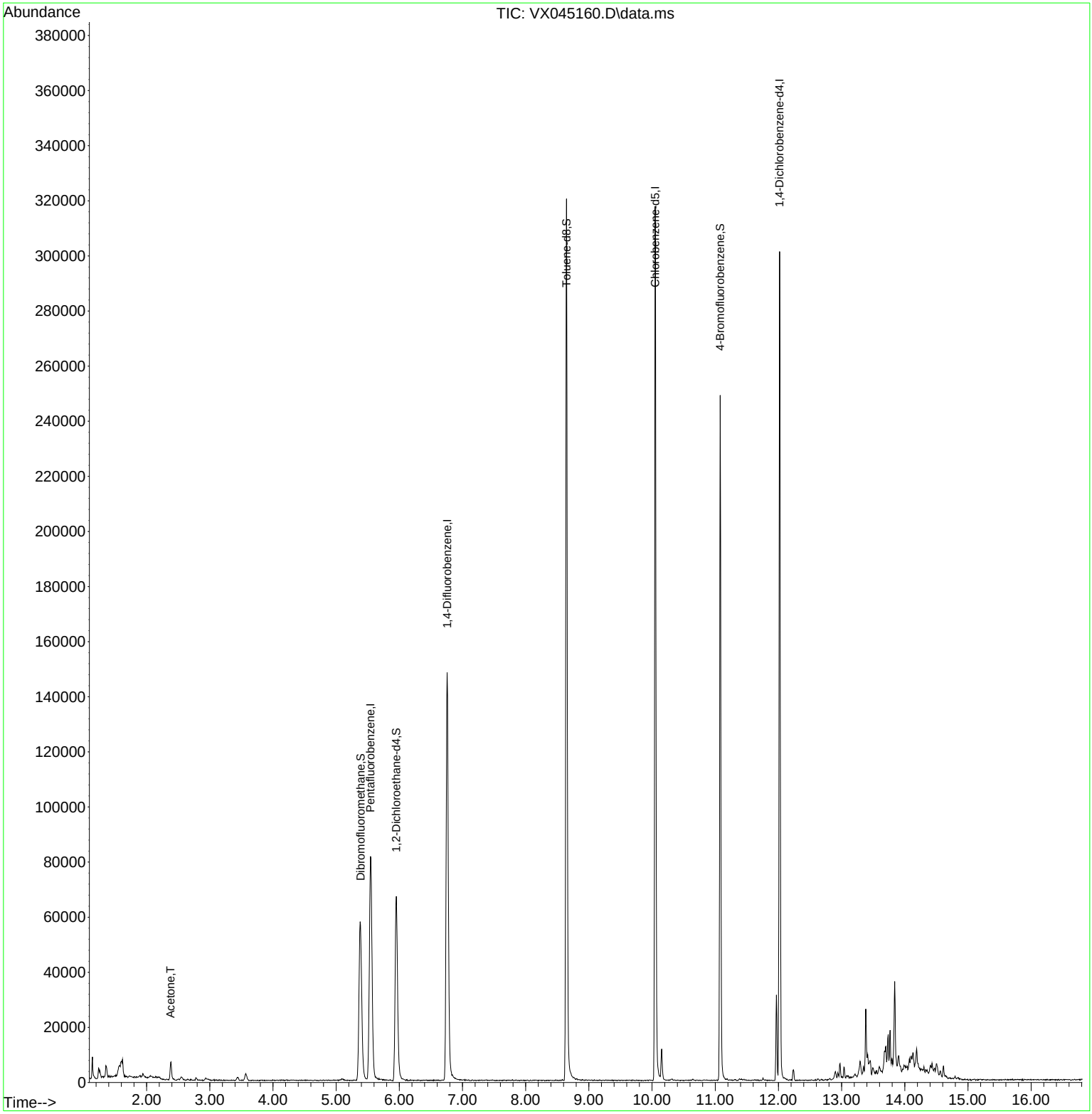
(#) = qualifier out of range (m) = manual integration (+) = signals summed

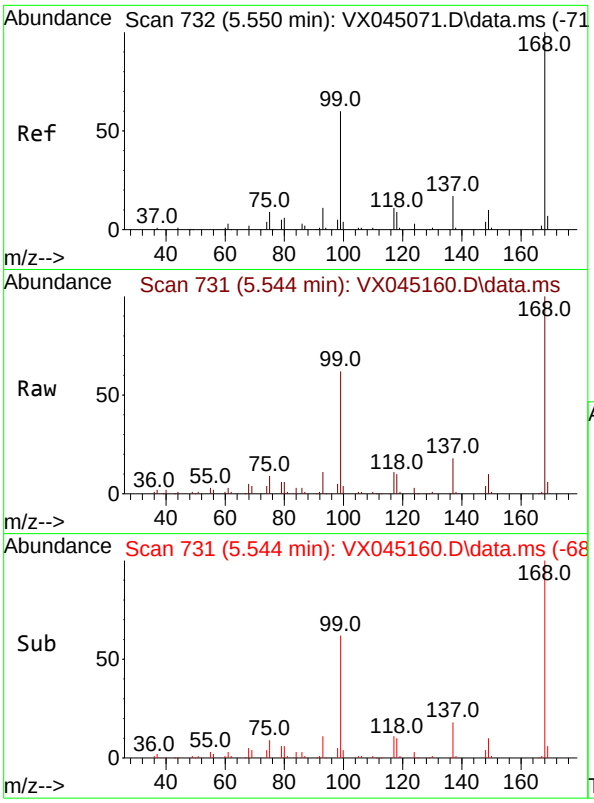
Sample Results: **VX045160.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
Data File : VX045160.D
Acq On : 06 Mar 2025 12:00
Operator : JC/MD
Sample : Q1501-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
MW-16B-87.5-030425-FD

Quant Time: Mar 07 00:39:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration



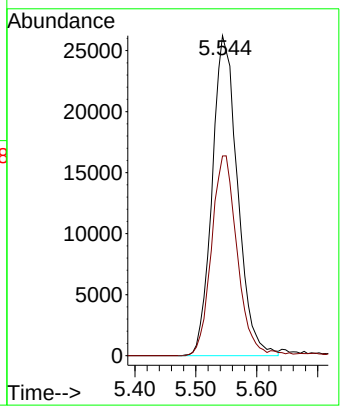


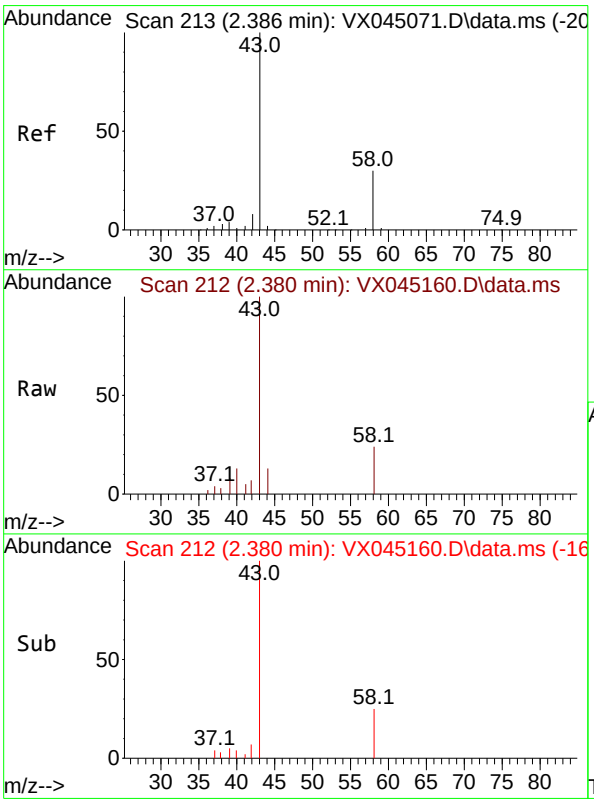
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045160.D
Acq: 06 Mar 2025 12:00

Instrument :
MSVOA_X
ClientSampleId :
MW-16B-87.5-030425-FD

Tgt Ion:168 Resp: 75969

Ion	Ratio	Lower	Upper
168	100		
99	62.4	48.2	72.4

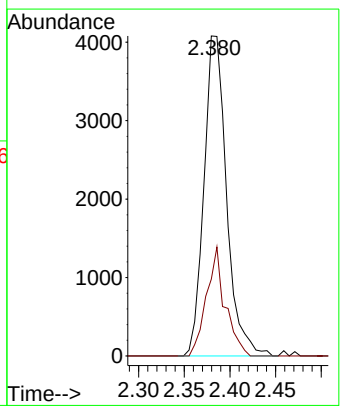


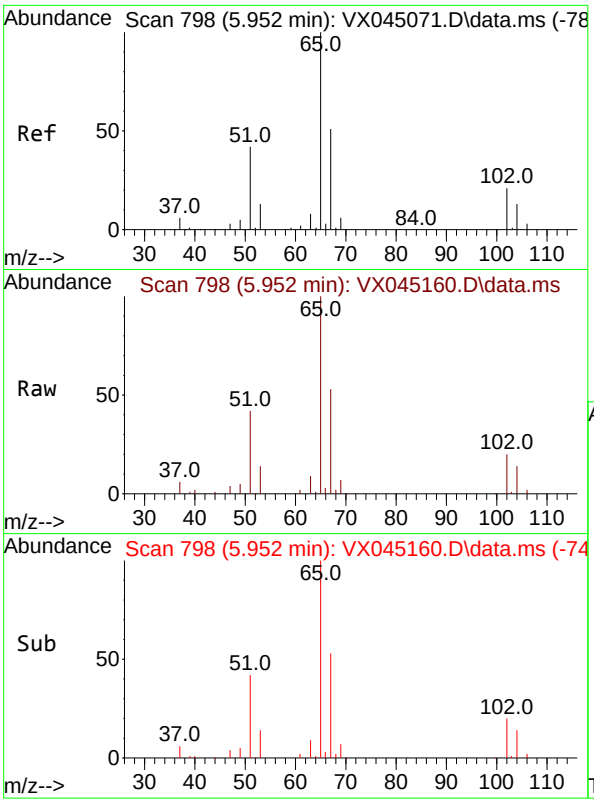


#16
Acetone
Concen: 12.525 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX045160.D
Acq: 06 Mar 2025 12:00

Tgt Ion: 43 Resp: 7022

Ion	Ratio	Lower	Upper
43	100		
58	24.0	24.2	36.4#



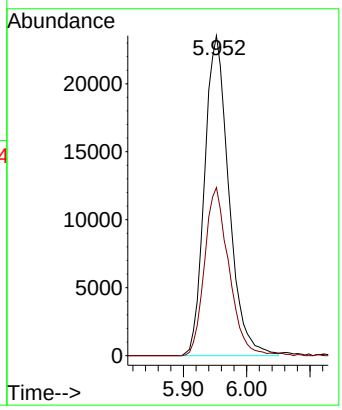


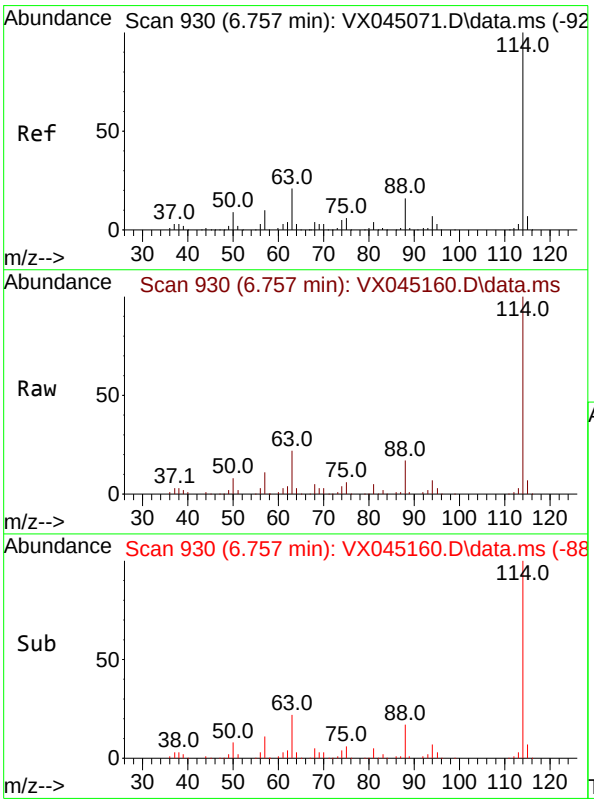
#33
1,2-Dichloroethane-d4
Concen: 51.956 ug/l
RT: 5.952 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045160.D
Acq: 06 Mar 2025 12:00

Instrument :
MSVOA_X
ClientSampleId :
MW-16B-87.5-030425-FD

Tgt Ion: 65 Resp: 62783

Ion	Ratio	Lower	Upper
65	100		
67	53.0	0.0	106.2

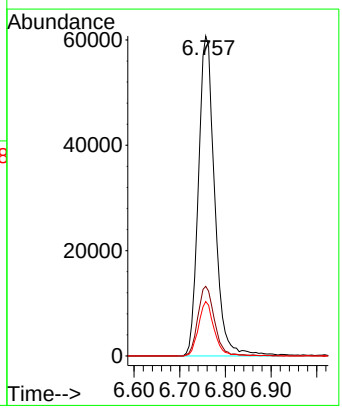


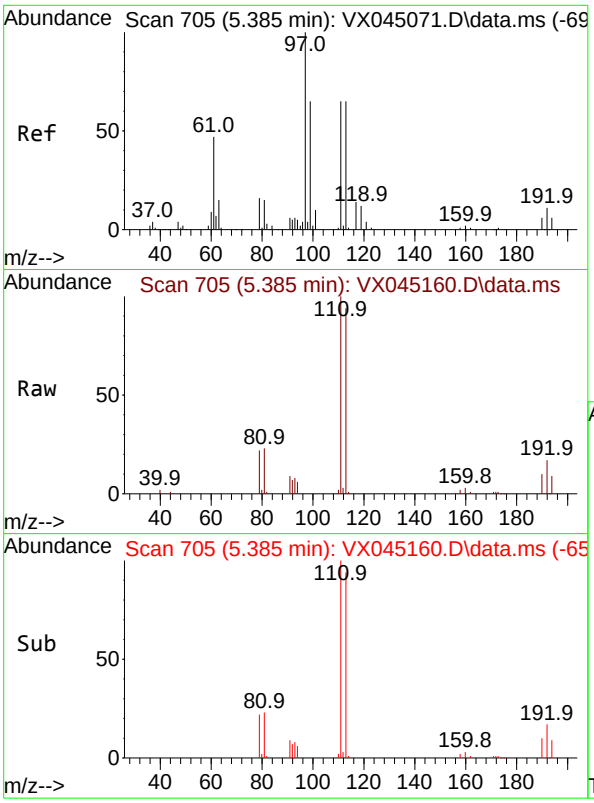


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX045160.D
Acq: 06 Mar 2025 12:00

Tgt Ion:114 Resp: 150240

Ion	Ratio	Lower	Upper
114	100		
63	21.8	0.0	41.8
88	17.0	0.0	32.8



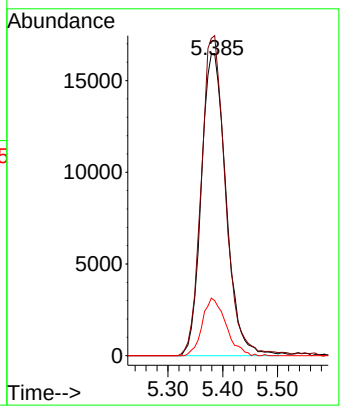


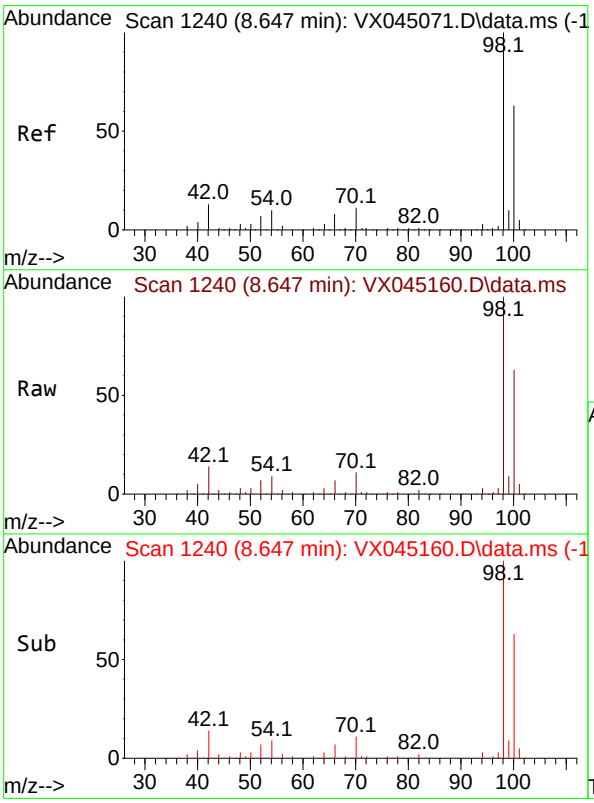
#35
Dibromofluoromethane
Concen: 51.314 ug/l
RT: 5.385 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045160.D
Acq: 06 Mar 2025 12:00

Instrument :
MSVOA_X
ClientSampleId :
MW-16B-87.5-030425-FD

Tgt Ion:113 Resp: 51551

Ion	Ratio	Lower	Upper
113	100		
111	103.9	81.8	122.6
192	18.2	14.3	21.5

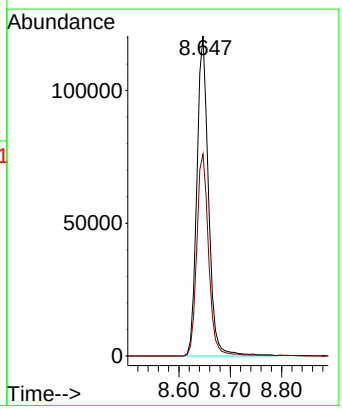


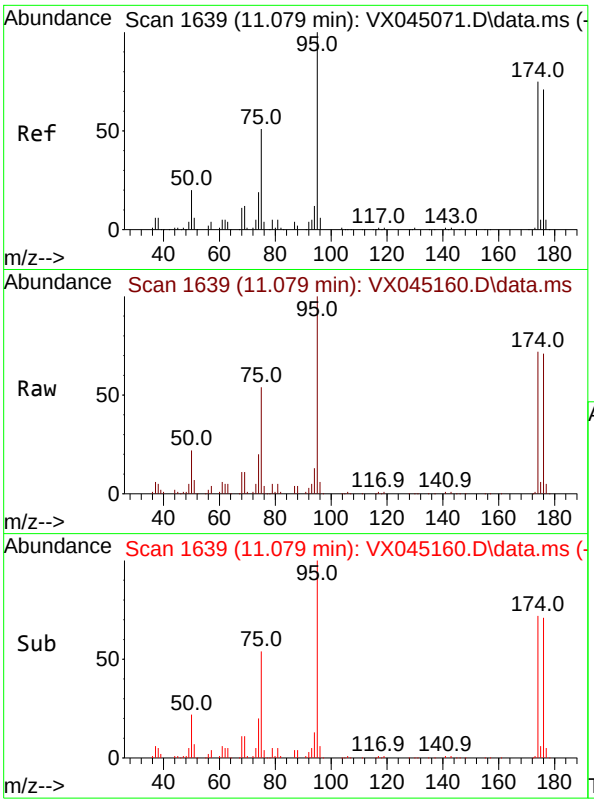


#50
Toluene-d8
Concen: 52.193 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX045160.D
Acq: 06 Mar 2025 12:00

Tgt Ion: 98 Resp: 190091

Ion	Ratio	Lower	Upper
98	100		
100	64.3	52.0	78.0



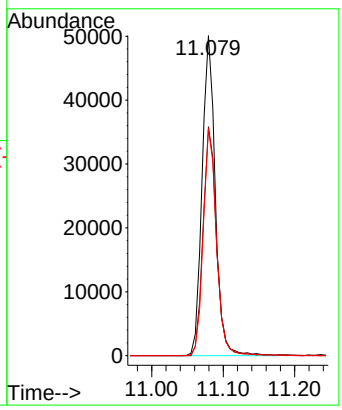


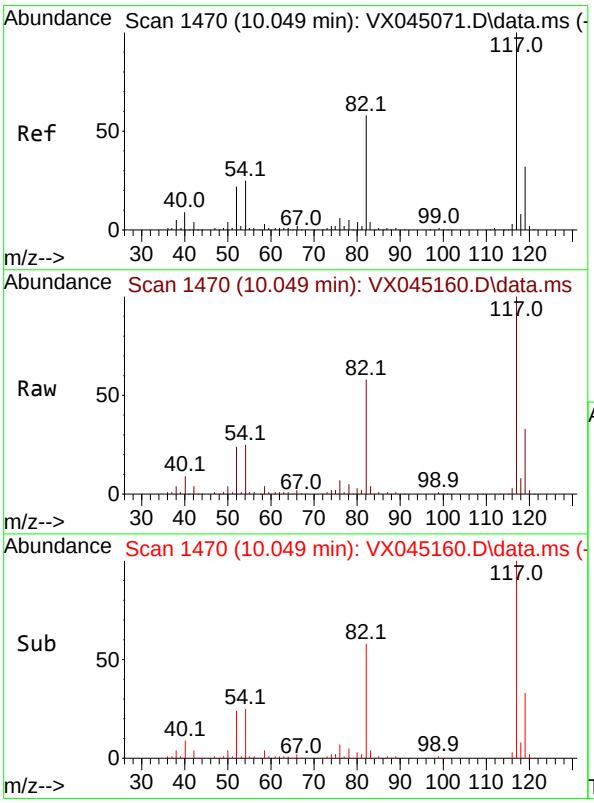
#62
4-Bromofluorobenzene
Concen: 53.225 ug/l
RT: 11.079 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045160.D
Acq: 06 Mar 2025 12:00

Instrument :
MSVOA_X
ClientSampleId :
MW-16B-87.5-030425-FD

Tgt Ion: 95 Resp: 64236

Ion	Ratio	Lower	Upper
95	100		
174	72.9	0.0	148.2
176	71.2	0.0	141.4

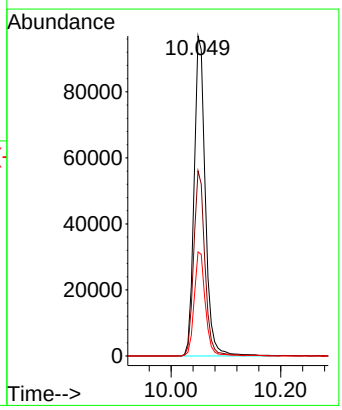


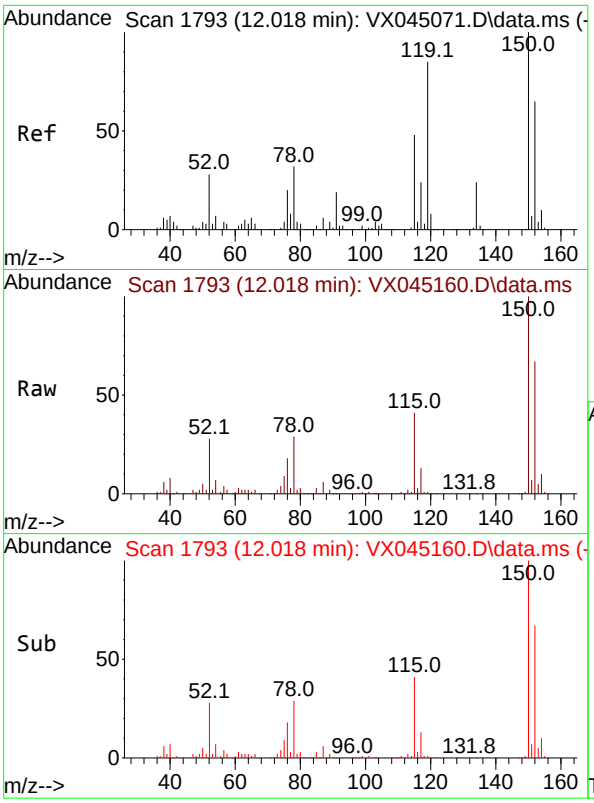


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. -0.000 min
Lab File: VX045160.D
Acq: 06 Mar 2025 12:00

Tgt Ion:117 Resp: 138477

Ion	Ratio	Lower	Upper
117	100		
82	57.8	46.3	69.5
119	32.5	25.7	38.5



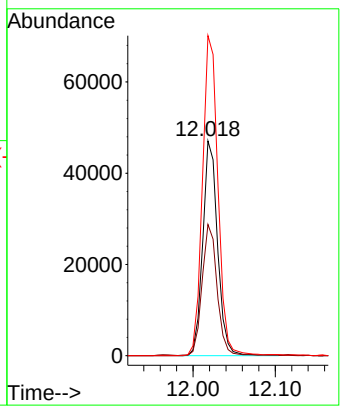


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045160.D
Acq: 06 Mar 2025 12:00

Instrument :
MSVOA_X
ClientSampleId :
MW-16B-87.5-030425-FD

Tgt Ion:152 Resp: 59093

Ion	Ratio	Lower	Upper
152	100		
115	62.1	44.2	132.6
150	155.0	0.0	349.0



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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	03/05/25
Project:	Former Schlumberger STC PTC Site # D3868221	Date Received:	03/05/25
Client Sample ID:	EB01-030525	SDG No.:	Q1501
Lab Sample ID:	Q1501-03	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045146.D	1		03/05/25 16:42	VX030525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	1.00	ug/L
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	1.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.2		70 (74) - 130 (125)	106%	SPK: 50
1868-53-7	Dibromofluoromethane	51.2		70 (75) - 130 (124)	102%	SPK: 50
2037-26-5	Toluene-d8	52.1		70 (86) - 130 (113)	104%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.3		70 (77) - 130 (121)	107%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	76600	5.55			
540-36-3	1,4-Difluorobenzene	153000	6.757			
3114-55-4	Chlorobenzene-d5	142000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	61000	12.018			

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\VX030525\
Data File : VX045146.D
Acq On : 05 Mar 2025 16:42
Operator : JC/MD
Sample : Q1501-03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
EB01-030525

Quant Time: Mar 06 01:09:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene	5.550	168	76618	50.000 ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	152804	50.000 ug/l	0.00
63) Chlorobenzene-d5	10.055	117	141933	50.000 ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	61013	50.000 ug/l	0.00
System Monitoring Compounds					
33) 1,2-Dichloroethane-d4	5.952	65	64818	53.185 ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 106.380%		
35) Dibromofluoromethane	5.379	113	52313	51.199 ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.400%		
50) Toluene-d8	8.647	98	192904	52.077 ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 104.160%		
62) 4-Bromofluorobenzene	11.079	95	65419	53.296 ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 106.600%		
Target Compounds					Qvalue
11) Tert butyl alcohol	2.971	59	2345	10.158 ug/l #	87
16) Acetone	2.380	43	1127	1.993 ug/l #	76

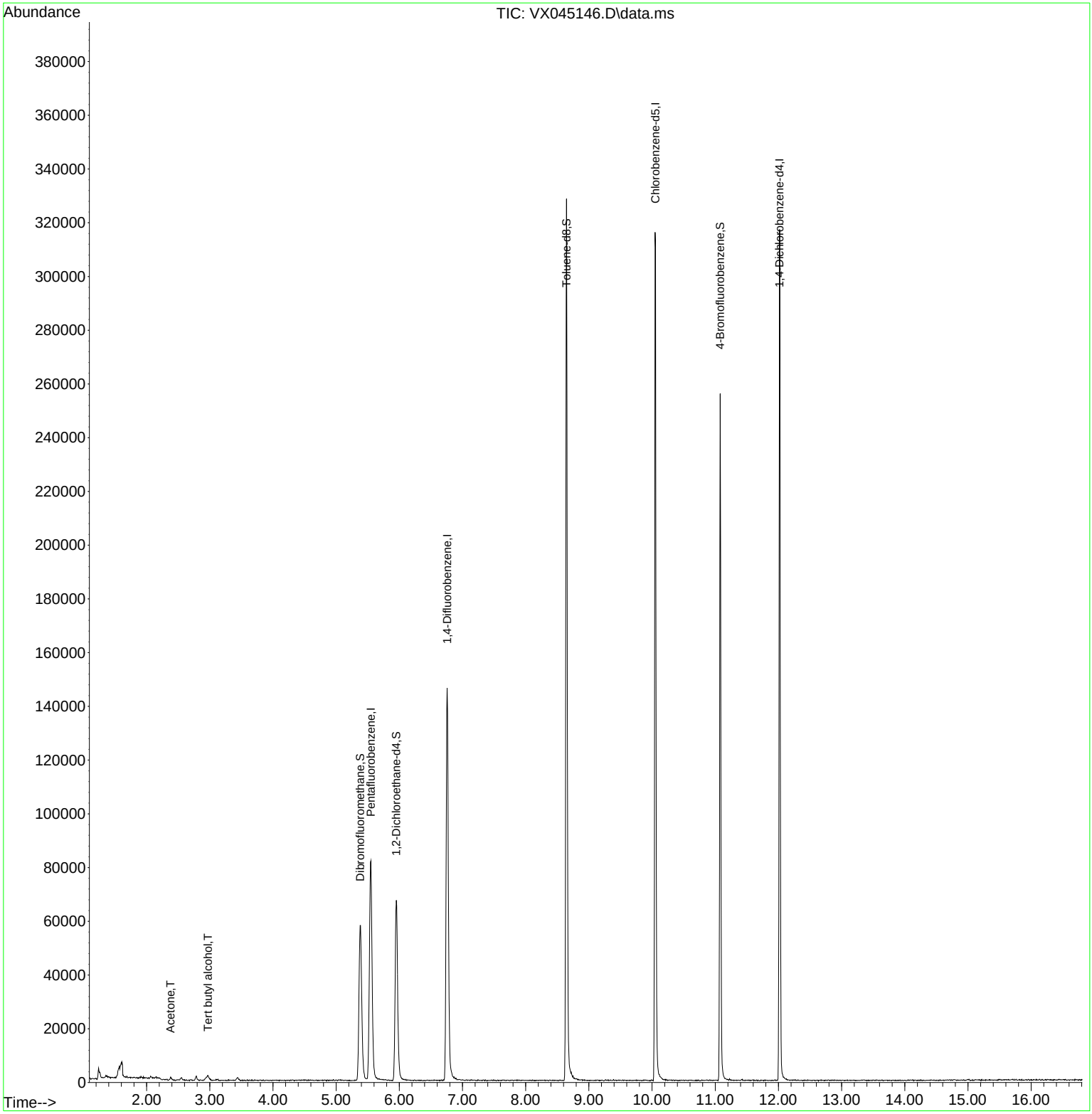
(#) = qualifier out of range (m) = manual integration (+) = signals summed

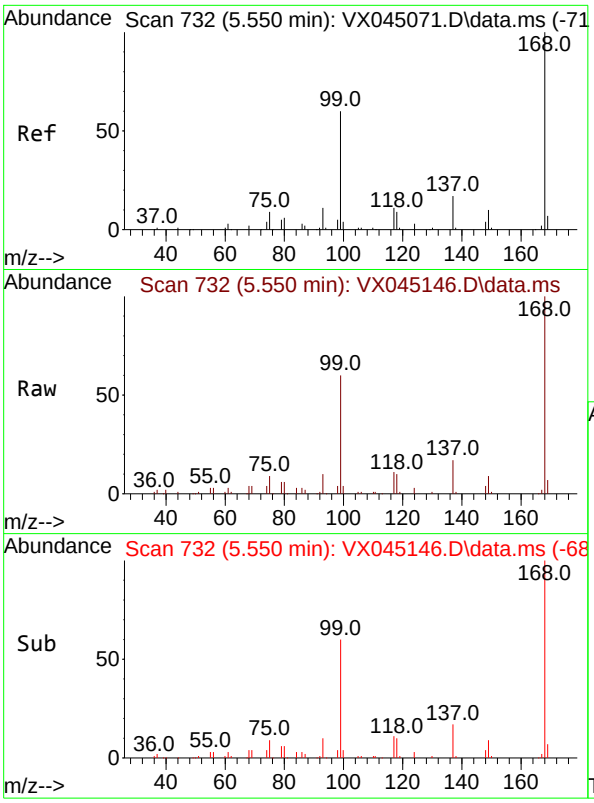
Sample Results: **VX045146.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030525\
Data File : VX045146.D
Acq On : 05 Mar 2025 16:42
Operator : JC/MD
Sample : Q1501-03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
EB01-030525

Quant Time: Mar 06 01:09:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration



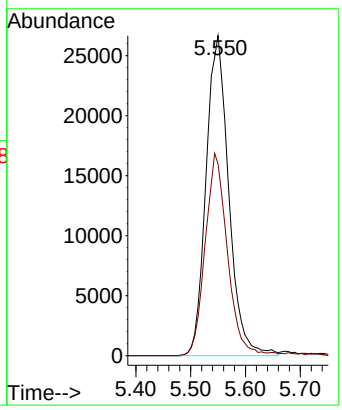


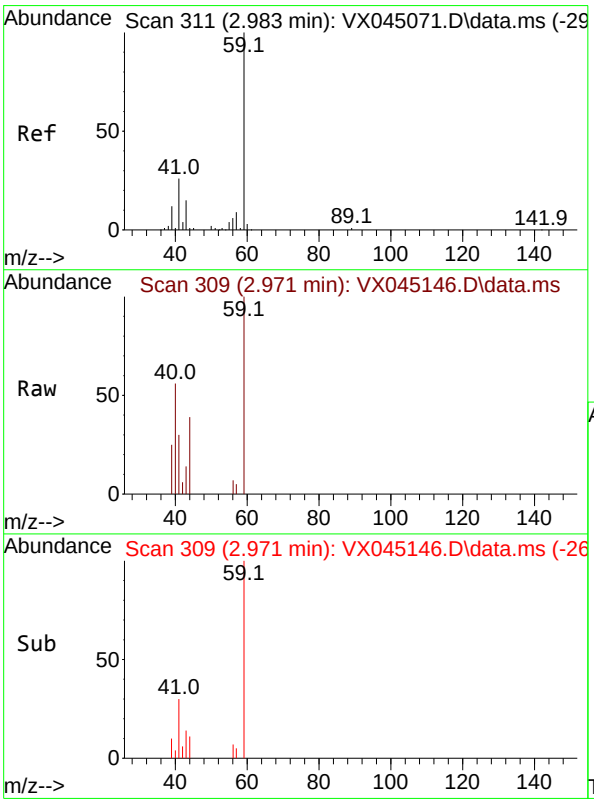
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045146.D
Acq: 05 Mar 2025 16:42

Instrument :
MSVOA_X
ClientSampleId :
EB01-030525

Tgt Ion:168 Resp: 76618

Ion	Ratio	Lower	Upper
168	100		
99	59.9	48.2	72.4

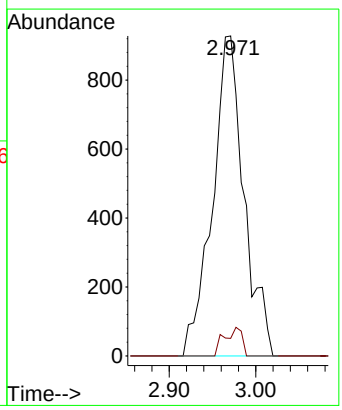


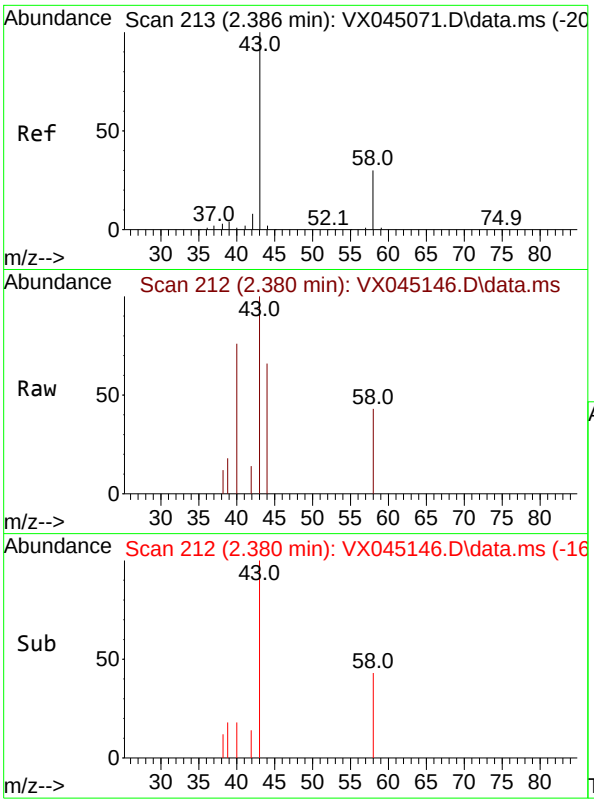


#11
Tert butyl alcohol
Concen: 10.158 ug/l
RT: 2.971 min Scan# 309
Delta R.T. -0.012 min
Lab File: VX045146.D
Acq: 05 Mar 2025 16:42

Tgt Ion: 59 Resp: 2345

Ion	Ratio	Lower	Upper
59	100		
57	5.0	7.8	11.8#



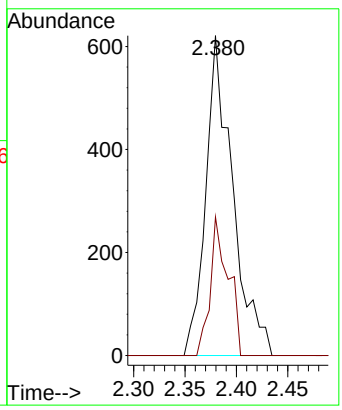


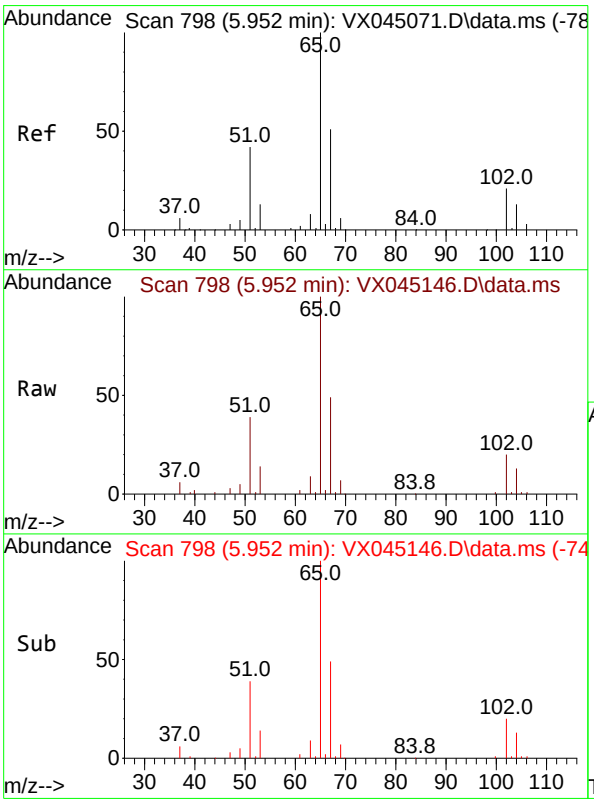
#16
Acetone
Concen: 1.993 ug/l
RT: 2.380 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX045146.D
Acq: 05 Mar 2025 16:42

Instrument :
MSVOA_X
ClientSampleId :
EB01-030525

Tgt Ion: 43 Resp: 1127

Ion	Ratio	Lower	Upper
43	100		
58	43.3	24.2	36.4#

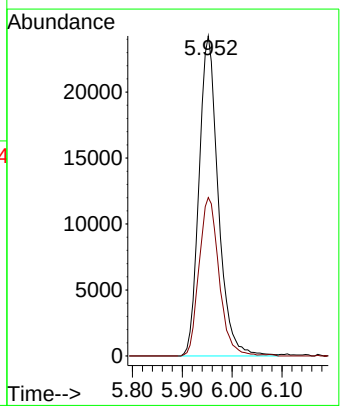


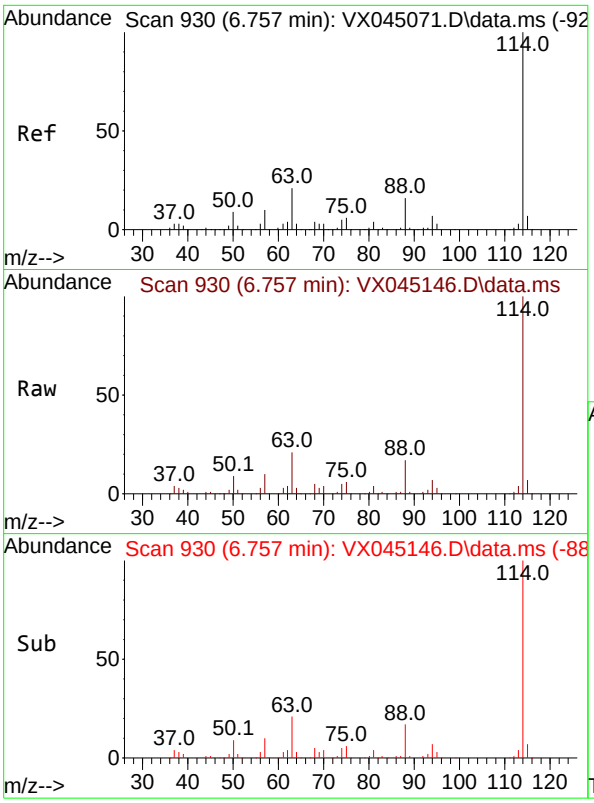


#33
1,2-Dichloroethane-d4
Concen: 53.185 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.000 min
Lab File: VX045146.D
Acq: 05 Mar 2025 16:42

Tgt Ion: 65 Resp: 64818

Ion	Ratio	Lower	Upper
65	100		
67	51.5	0.0	106.2



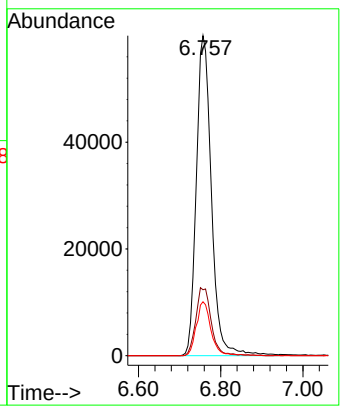


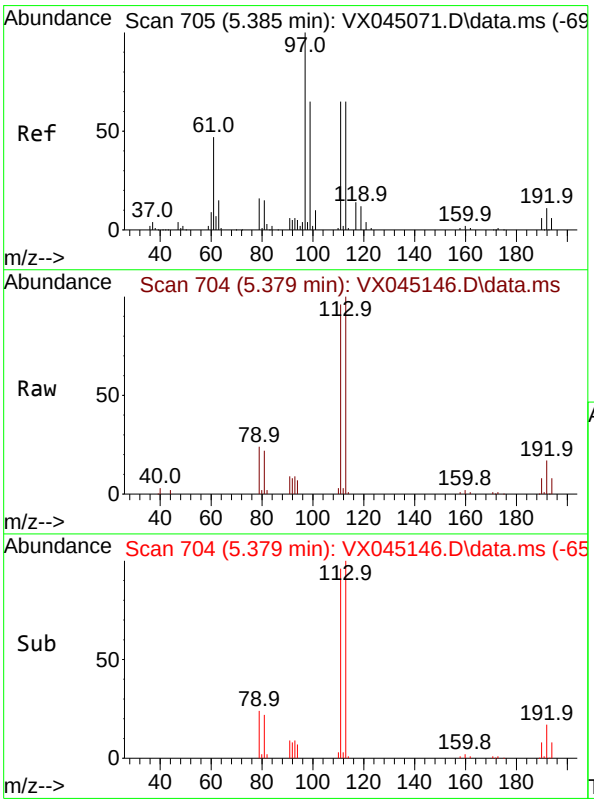
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX045146.D
Acq: 05 Mar 2025 16:42

Instrument :
MSVOA_X
ClientSampleId :
EB01-030525

Tgt Ion:114 Resp: 152804

Ion	Ratio	Lower	Upper
114	100		
63	20.6	0.0	41.8
88	16.8	0.0	32.8

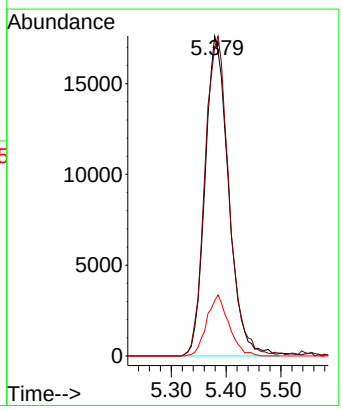


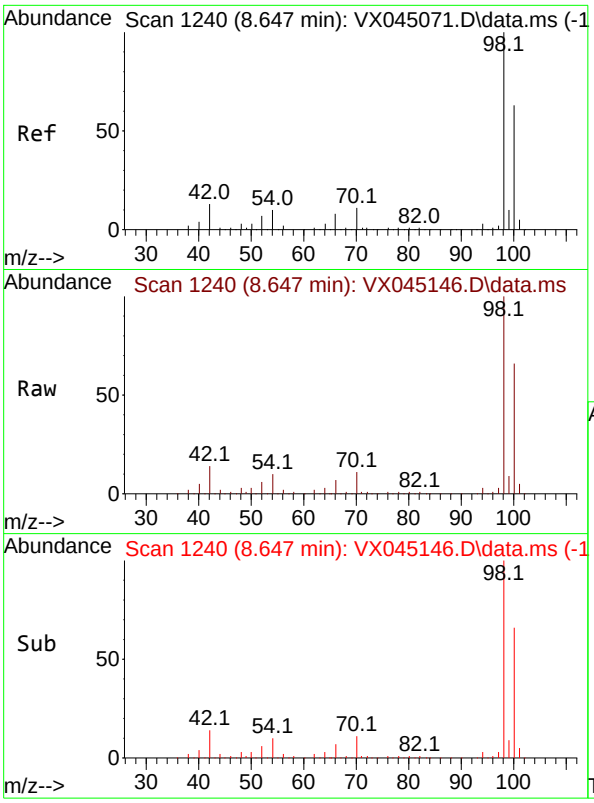


#35
Dibromofluoromethane
Concen: 51.199 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.006 min
Lab File: VX045146.D
Acq: 05 Mar 2025 16:42

Tgt Ion:113 Resp: 52313

Ion	Ratio	Lower	Upper
113	100		
111	102.4	81.8	122.6
192	18.0	14.3	21.5



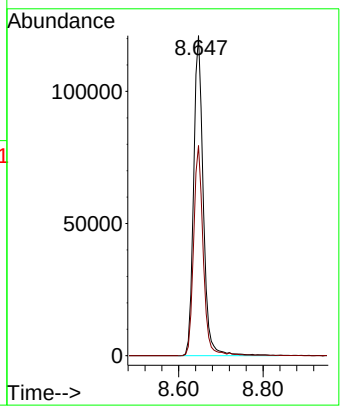


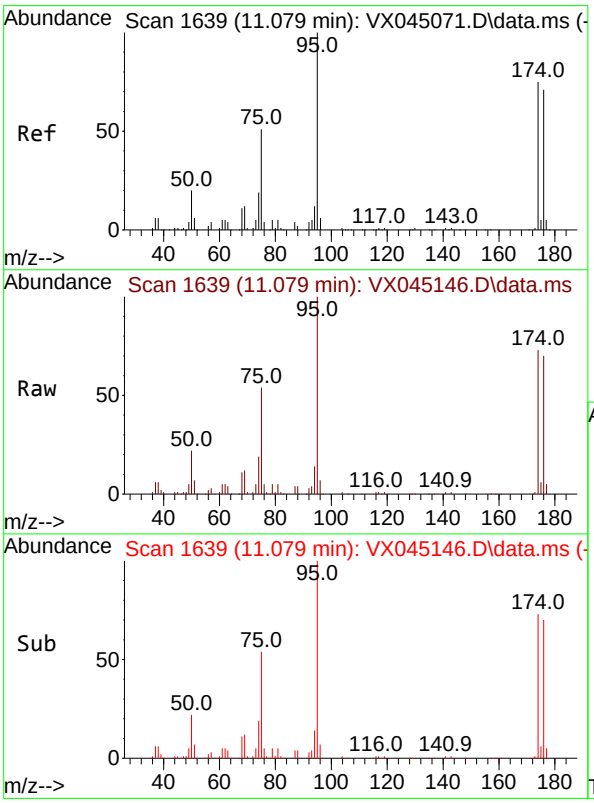
#50
Toluene-d8
Concen: 52.077 ug/l
RT: 8.647 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045146.D
Acq: 05 Mar 2025 16:42

Instrument :
MSVOA_X
ClientSampleId :
EB01-030525

Tgt Ion: 98 Resp: 192904

Ion	Ratio	Lower	Upper
98	100		
100	64.2	52.0	78.0

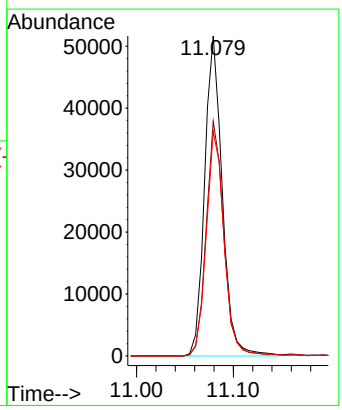


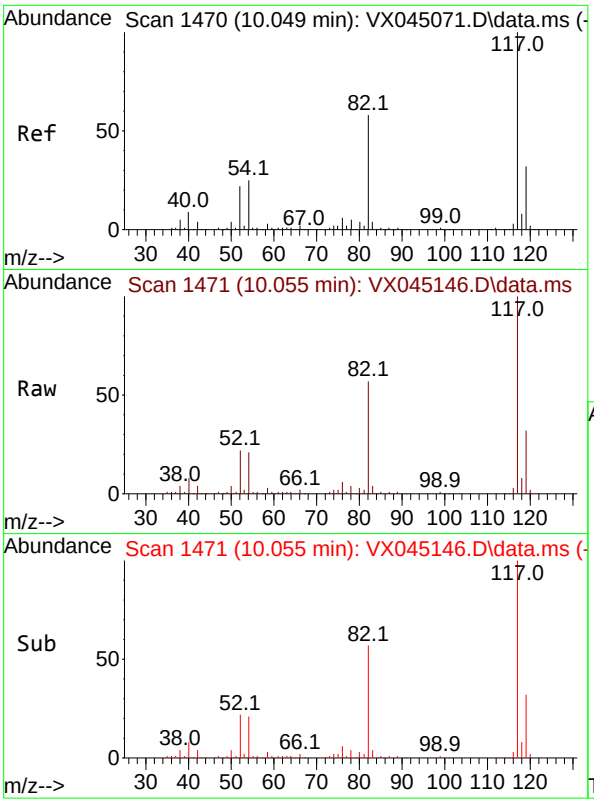


#62
4-Bromofluorobenzene
Concen: 53.296 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX045146.D
Acq: 05 Mar 2025 16:42

Tgt Ion: 95 Resp: 65419

Ion	Ratio	Lower	Upper
95	100		
174	73.4	0.0	148.2
176	71.6	0.0	141.4



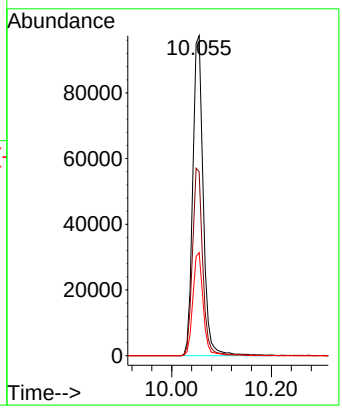


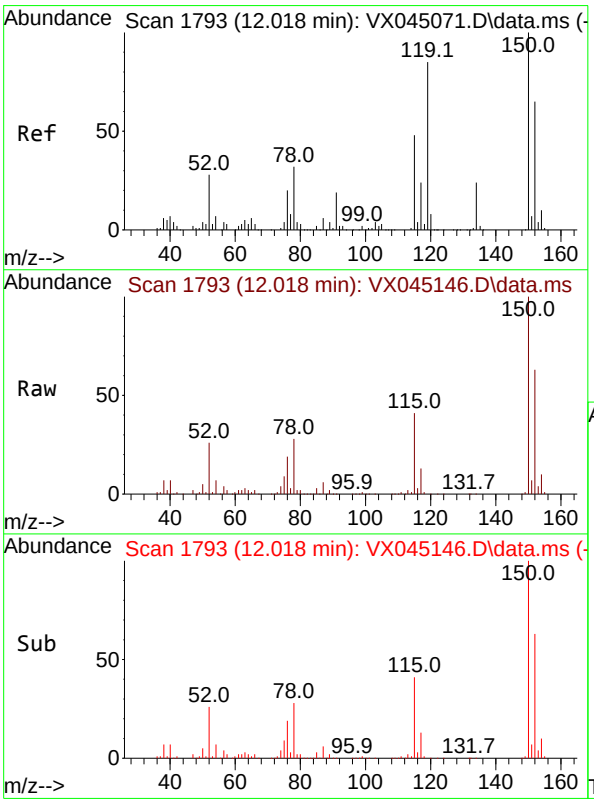
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045146.D
Acq: 05 Mar 2025 16:42

Instrument :
MSVOA_X
ClientSampleId :
EB01-030525

Tgt Ion:117 Resp: 141933

Ion	Ratio	Lower	Upper
117	100		
82	57.5	46.3	69.5
119	32.2	25.7	38.5

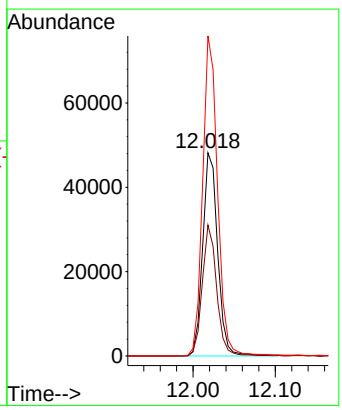




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX045146.D
Acq: 05 Mar 2025 16:42

Tgt Ion:152 Resp: 61013

Ion	Ratio	Lower	Upper
152	100		
115	61.9	44.2	132.6
150	156.6	0.0	349.0



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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	03/05/25
Project:	Former Schlumberger STC PTC Site # D3868221	Date Received:	03/05/25
Client Sample ID:	BR-05-465-030525	SDG No.:	Q1501
Lab Sample ID:	Q1501-04	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045162.D	1		03/06/25 12:46	VX030625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	1.00	ug/L
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	1.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.0		70 (74) - 130 (125)	106%	SPK: 50
1868-53-7	Dibromofluoromethane	31.2	*	70 (75) - 130 (124)	62%	SPK: 50
2037-26-5	Toluene-d8	51.5		70 (86) - 130 (113)	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.0		70 (77) - 130 (121)	104%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	75300	5.549			
540-36-3	1,4-Difluorobenzene	148000	6.757			
3114-55-4	Chlorobenzene-d5	137000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	55400	12.018			

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\VX030625\
Data File : VX045162.D
Acq On : 06 Mar 2025 12:46
Operator : JC/MD
Sample : Q1501-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525

Quant Time: Mar 07 00:40:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.549	168	75251	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	148139	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	137077	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	55408	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	63460	53.017	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 106.040%			
35) Dibromofluoromethane	5.385	113	30932	31.227	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 62.460%#			
50) Toluene-d8	8.646	98	184959	51.504	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 103.000%			
62) 4-Bromofluorobenzene	11.079	95	61883	52.003	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 104.000%			
Target Compounds						Qvalue
16) Acetone	2.385	43	26153	47.092	ug/l	94
18) Methyl Acetate	2.702	43	37730	28.241	ug/l	100
20) Methylene Chloride	2.782	84	625	0.568	ug/l #	72
25) 2-Butanone	4.574	43	4764	5.699	ug/l #	85
52) Toluene	8.720	92	26485	10.523	ug/l	98

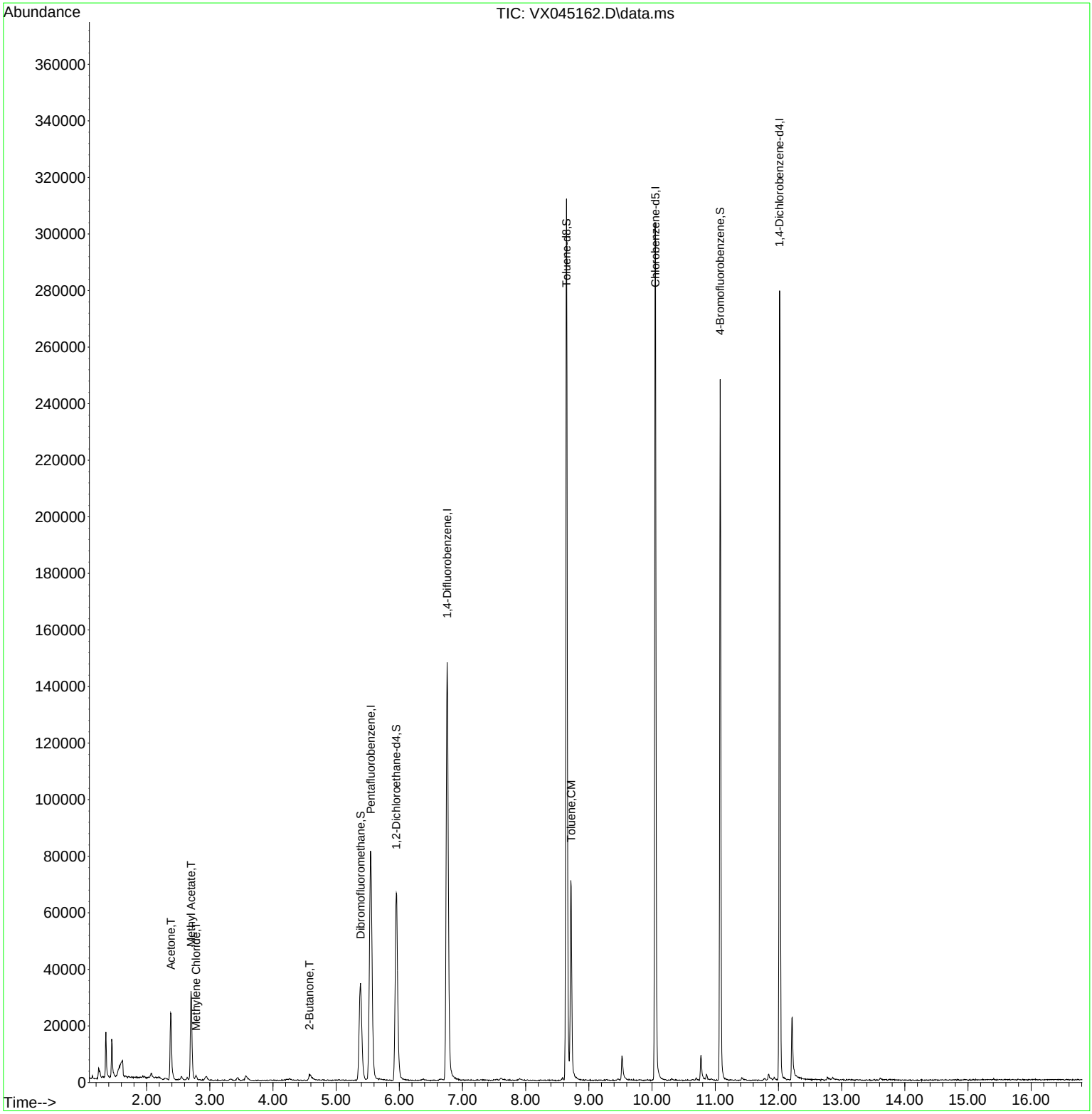
(#) = qualifier out of range (m) = manual integration (+) = signals summed

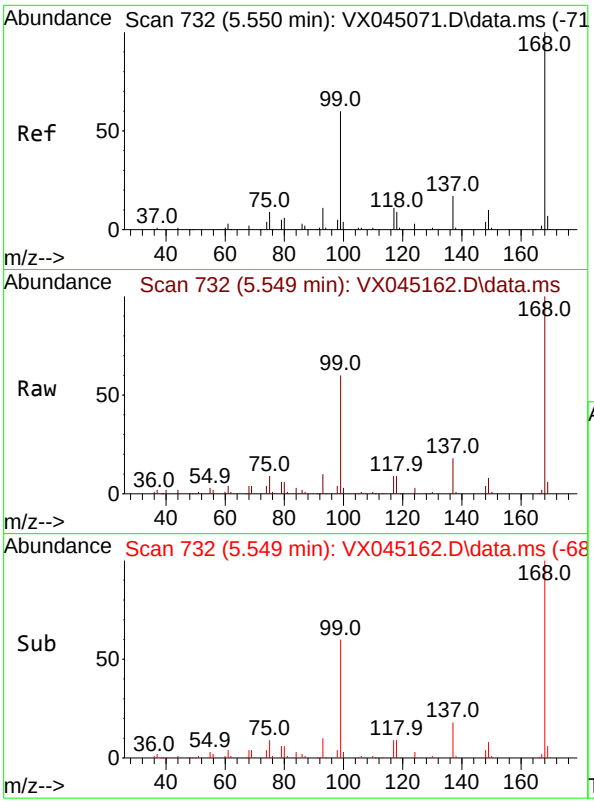
Sample Results: **VX045162.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
Data File : VX045162.D
Acq On : 06 Mar 2025 12:46
Operator : JC/MD
Sample : Q1501-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525

Quant Time: Mar 07 00:40:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration



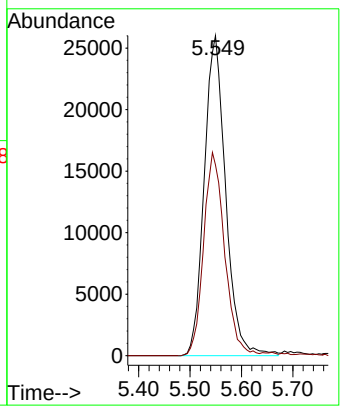


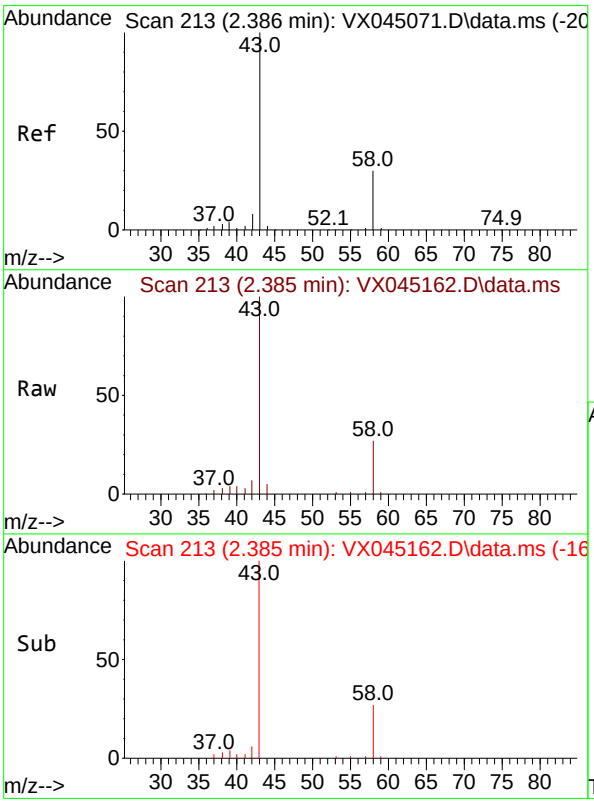
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.549 min Scan# 7
Delta R.T. -0.001 min
Lab File: VX045162.D
Acq: 06 Mar 2025 12:46

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525

Tgt Ion:168 Resp: 75251

Ion	Ratio	Lower	Upper
168	100		
99	59.6	48.2	72.4

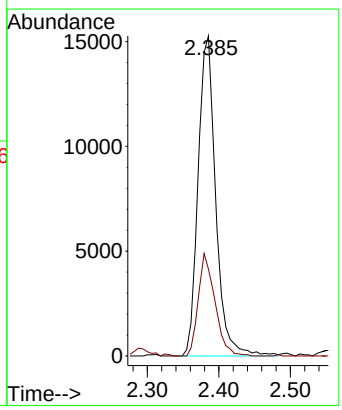


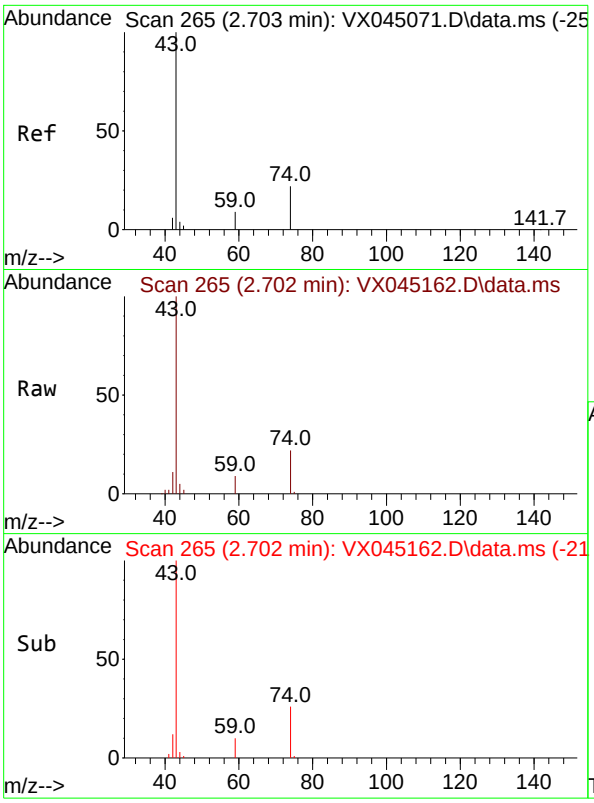


#16
Acetone
Concen: 47.092 ug/l
RT: 2.385 min Scan# 213
Delta R.T. -0.000 min
Lab File: VX045162.D
Acq: 06 Mar 2025 12:46

Tgt Ion: 43 Resp: 26153

Ion	Ratio	Lower	Upper
43	100		
58	27.2	24.2	36.4



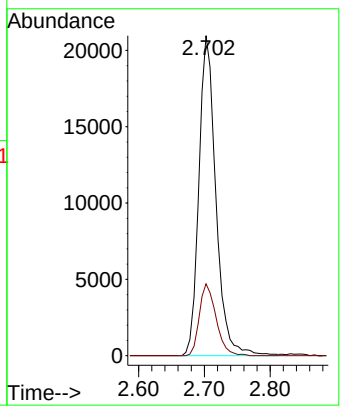


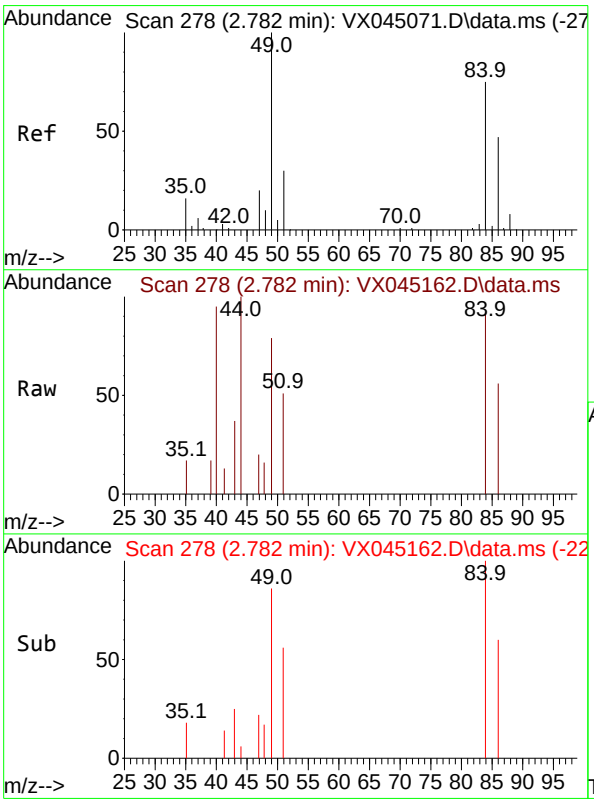
#18
Methyl Acetate
Concen: 28.241 ug/l
RT: 2.702 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045162.D
Acq: 06 Mar 2025 12:46

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525

Tgt Ion: 43 Resp: 37730

Ion	Ratio	Lower	Upper
43	100		
74	22.0	17.4	26.2

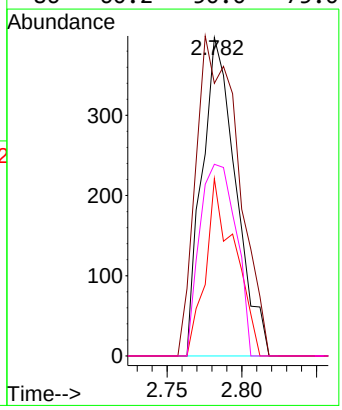


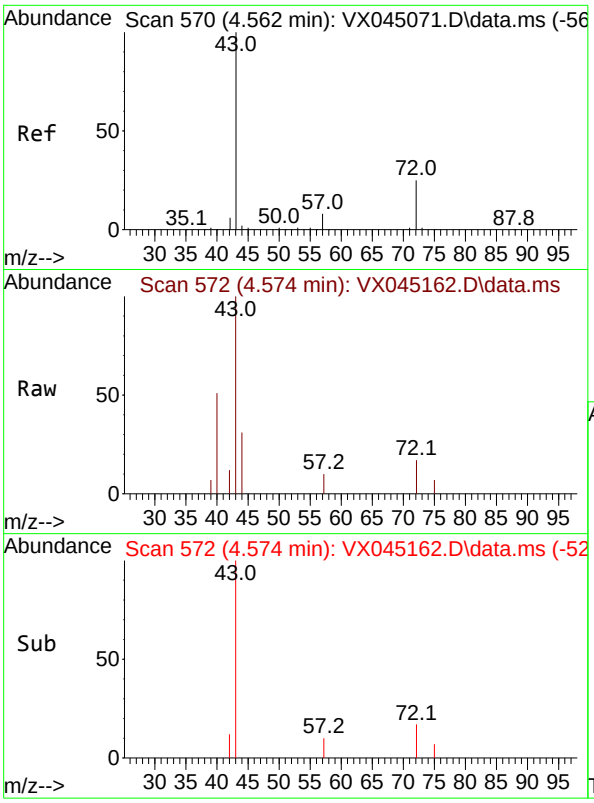


#20
Methylene Chloride
Concen: 0.568 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX045162.D
Acq: 06 Mar 2025 12:46

Tgt Ion: 84 Resp: 625

Ion	Ratio	Lower	Upper
84	100		
49	85.6	106.5	159.7#
51	55.7	32.1	48.1#
86	60.2	50.0	75.0



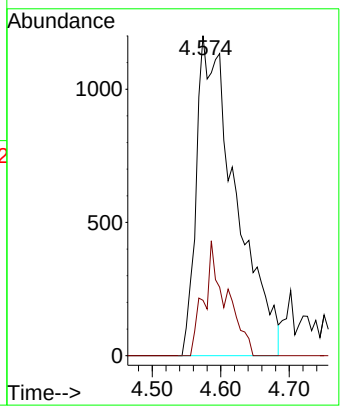


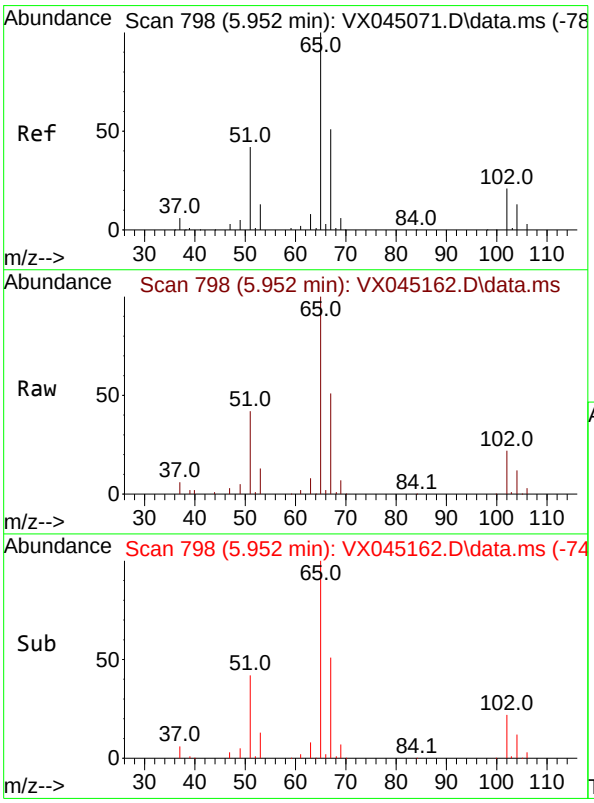
#25
2-Butanone
Concen: 5.699 ug/l
RT: 4.574 min Scan# 5
Delta R.T. 0.012 min
Lab File: VX045162.D
Acq: 06 Mar 2025 12:46

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525

Tgt Ion: 43 Resp: 4764

Ion	Ratio	Lower	Upper
43	100		
72	17.3	20.0	30.0#

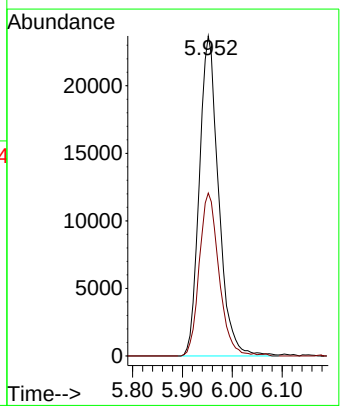


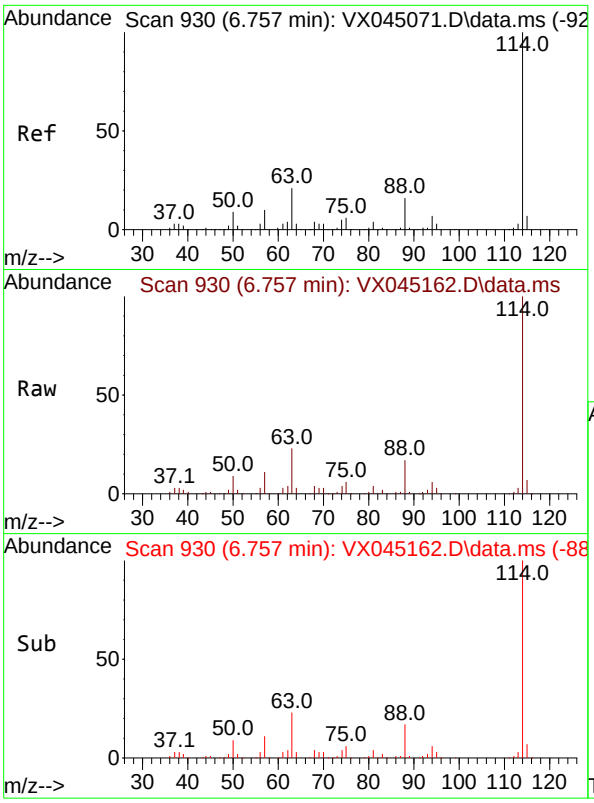


#33
1,2-Dichloroethane-d4
Concen: 53.017 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.000 min
Lab File: VX045162.D
Acq: 06 Mar 2025 12:46

Tgt Ion: 65 Resp: 63460

Ion	Ratio	Lower	Upper
65	100		
67	52.0	0.0	106.2



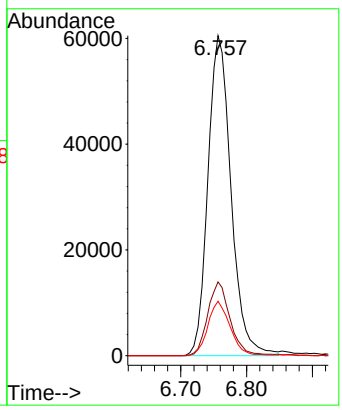


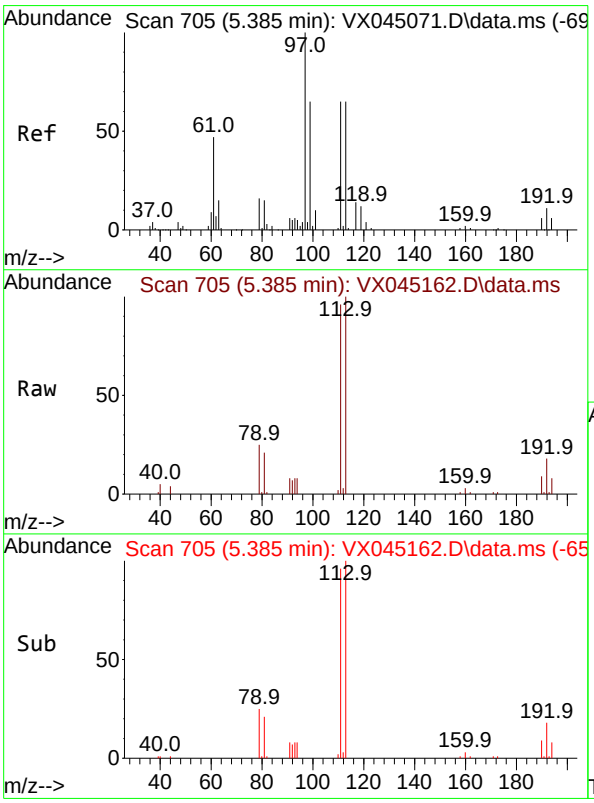
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX045162.D
Acq: 06 Mar 2025 12:46

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525

Tgt Ion:114 Resp: 148139

Ion	Ratio	Lower	Upper
114	100		
63	23.0	0.0	41.8
88	17.0	0.0	32.8

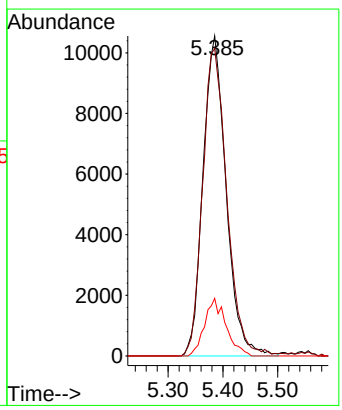


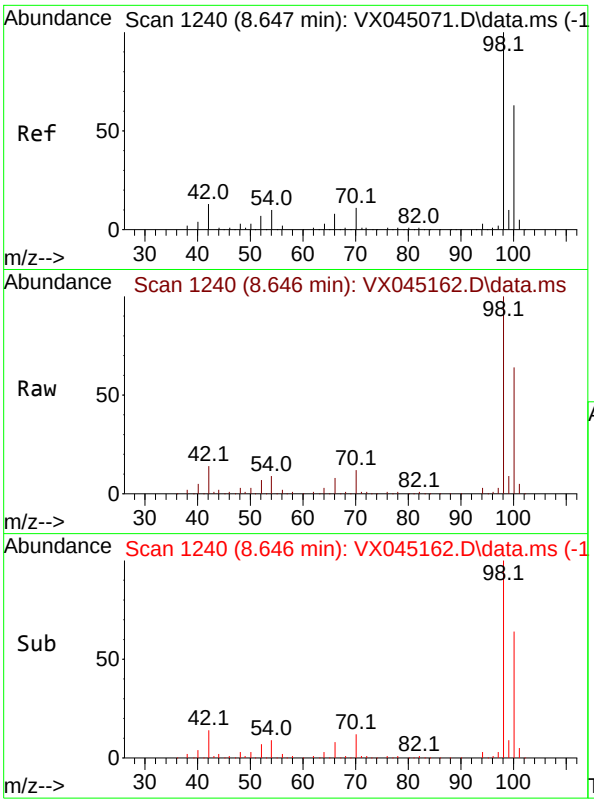


#35
Dibromofluoromethane
Concen: 31.227 ug/l
RT: 5.385 min Scan# 705
Delta R.T. -0.000 min
Lab File: VX045162.D
Acq: 06 Mar 2025 12:46

Tgt Ion:113 Resp: 30932

Ion	Ratio	Lower	Upper
113	100		
111	101.0	81.8	122.6
192	16.7	14.3	21.5



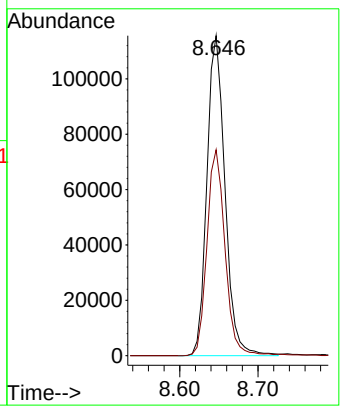


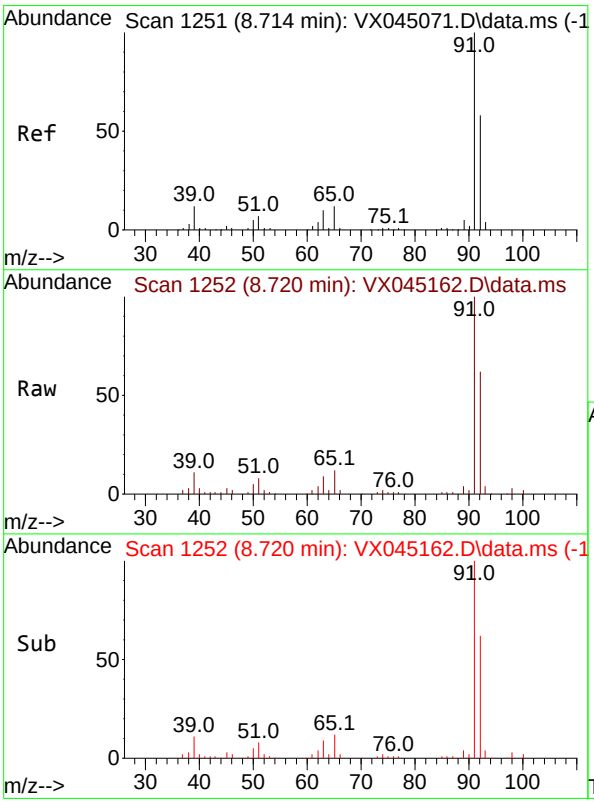
#50
Toluene-d8
Concen: 51.504 ug/l
RT: 8.646 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045162.D
Acq: 06 Mar 2025 12:46

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525

Tgt Ion: 98 Resp: 184959

Ion	Ratio	Lower	Upper
98	100		
100	64.8	52.0	78.0

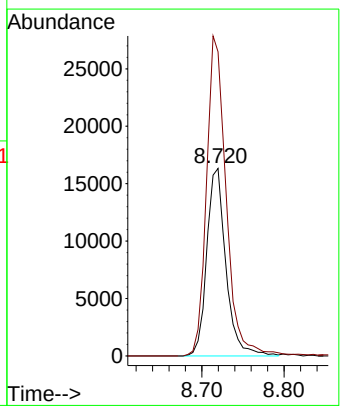


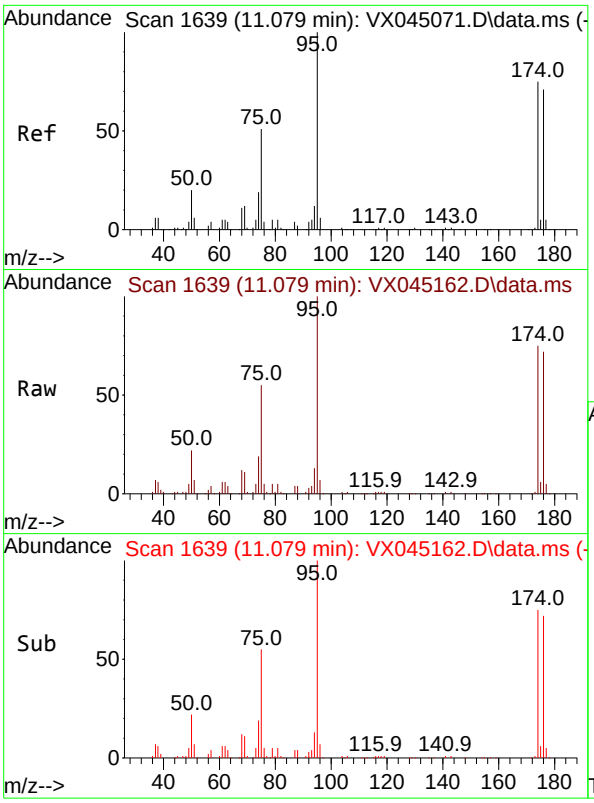


#52
Toluene
Concen: 10.523 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.006 min
Lab File: VX045162.D
Acq: 06 Mar 2025 12:46

Tgt Ion: 92 Resp: 26485

Ion	Ratio	Lower	Upper
92	100		
91	176.0	138.9	208.3



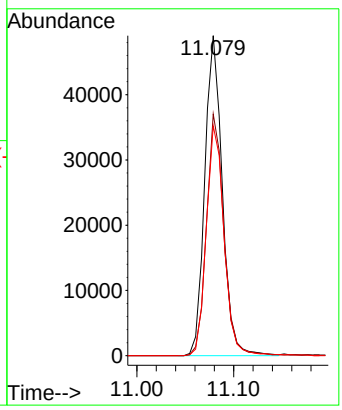


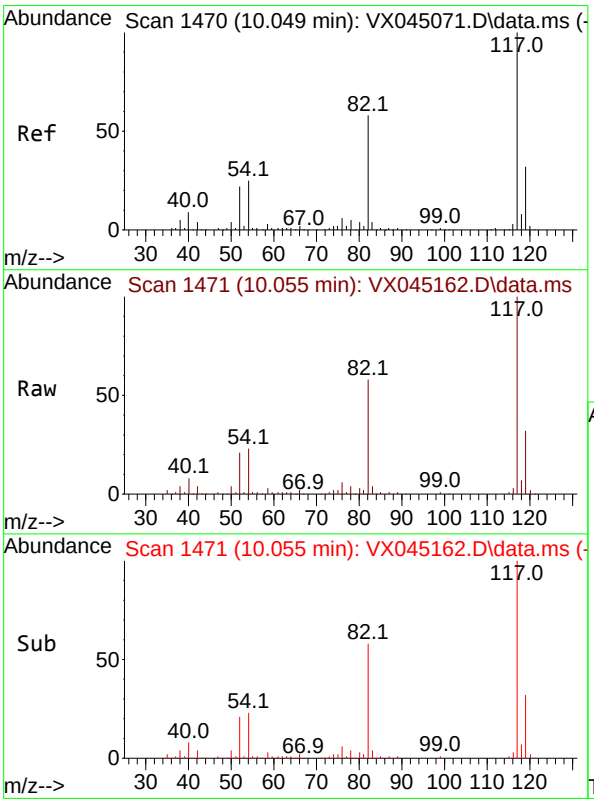
#62
4-Bromofluorobenzene
Concen: 52.003 ug/l
RT: 11.079 min Scan# 1(
Delta R.T. -0.000 min
Lab File: VX045162.D
Acq: 06 Mar 2025 12:46

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525

Tgt Ion: 95 Resp: 61883

Ion	Ratio	Lower	Upper
95	100		
174	75.0	0.0	148.2
176	73.0	0.0	141.4

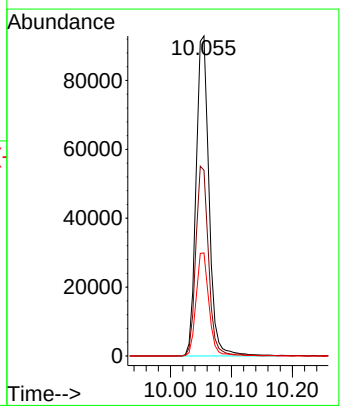


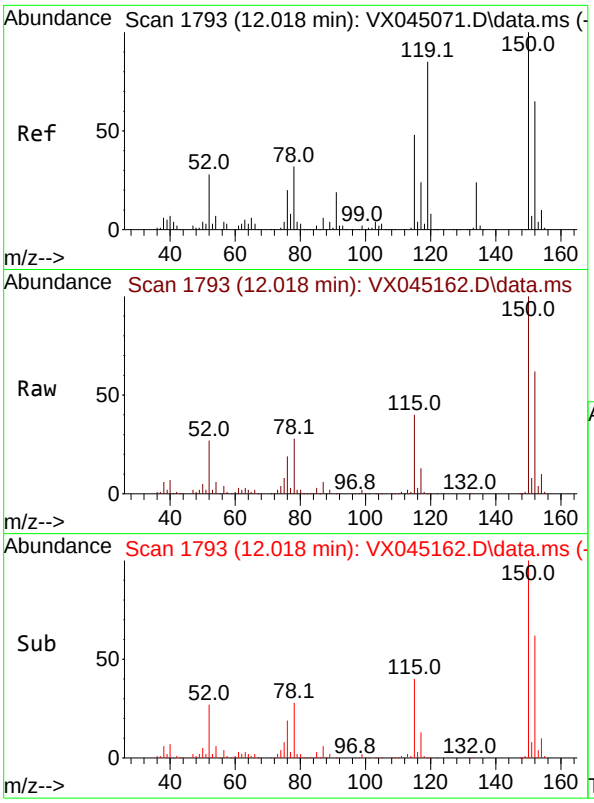


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.006 min
Lab File: VX045162.D
Acq: 06 Mar 2025 12:46

Tgt Ion:117 Resp: 137077

Ion	Ratio	Lower	Upper
117	100		
82	58.1	46.3	69.5
119	32.2	25.7	38.5



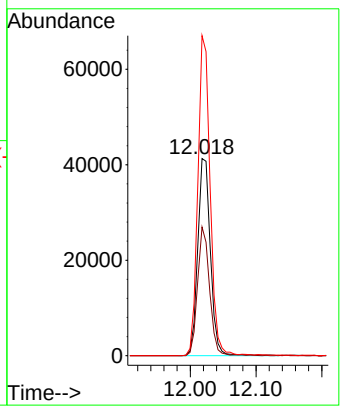


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045162.D
Acq: 06 Mar 2025 12:46

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525

Tgt Ion:152 Resp: 55408

Ion	Ratio	Lower	Upper
152	100		
115	61.3	44.2	132.6
150	157.0	0.0	349.0



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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	03/05/25
Project:	Former Schlumberger STC PTC Site # D3868221	Date Received:	03/05/25
Client Sample ID:	BR-05-465-030525RE	SDG No.:	Q1501
Lab Sample ID:	Q1501-04RE	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045167.D	1		03/06/25 14:43	VX030625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	1.00	ug/L
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	1.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.6		70 (74) - 130 (125)	103%	SPK: 50
1868-53-7	Dibromofluoromethane	32.1	*	70 (75) - 130 (124)	64%	SPK: 50
2037-26-5	Toluene-d8	50.8		70 (86) - 130 (113)	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.9		70 (77) - 130 (121)	108%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	76000	5.55			
540-36-3	1,4-Difluorobenzene	148000	6.757			
3114-55-4	Chlorobenzene-d5	138000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	58500	12.018			

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\VX030625\
Data File : VX045167.D
Acq On : 06 Mar 2025 14:43
Operator : JC/MD
Sample : Q1501-04RE
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525RE

Quant Time: Mar 07 02:57:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	75979	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	147971	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	137883	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	58504	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	62306	51.554	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 103.100%			
35) Dibromofluoromethane	5.379	113	31722	32.060	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 64.120%#			
50) Toluene-d8	8.647	98	182099	50.765	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.540%			
62) 4-Bromofluorobenzene	11.079	95	64082	53.912	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 107.820%			
Target Compounds						Qvalue
16) Acetone	2.379	43	25436	45.362	ug/l	100
18) Methyl Acetate	2.709	43	1458	1.081	ug/l	92
20) Methylene Chloride	2.794	84	548	0.493	ug/l #	78
25) 2-Butanone	4.580	43	4121	4.882	ug/l #	88
52) Toluene	8.720	92	25294	10.061	ug/l	98

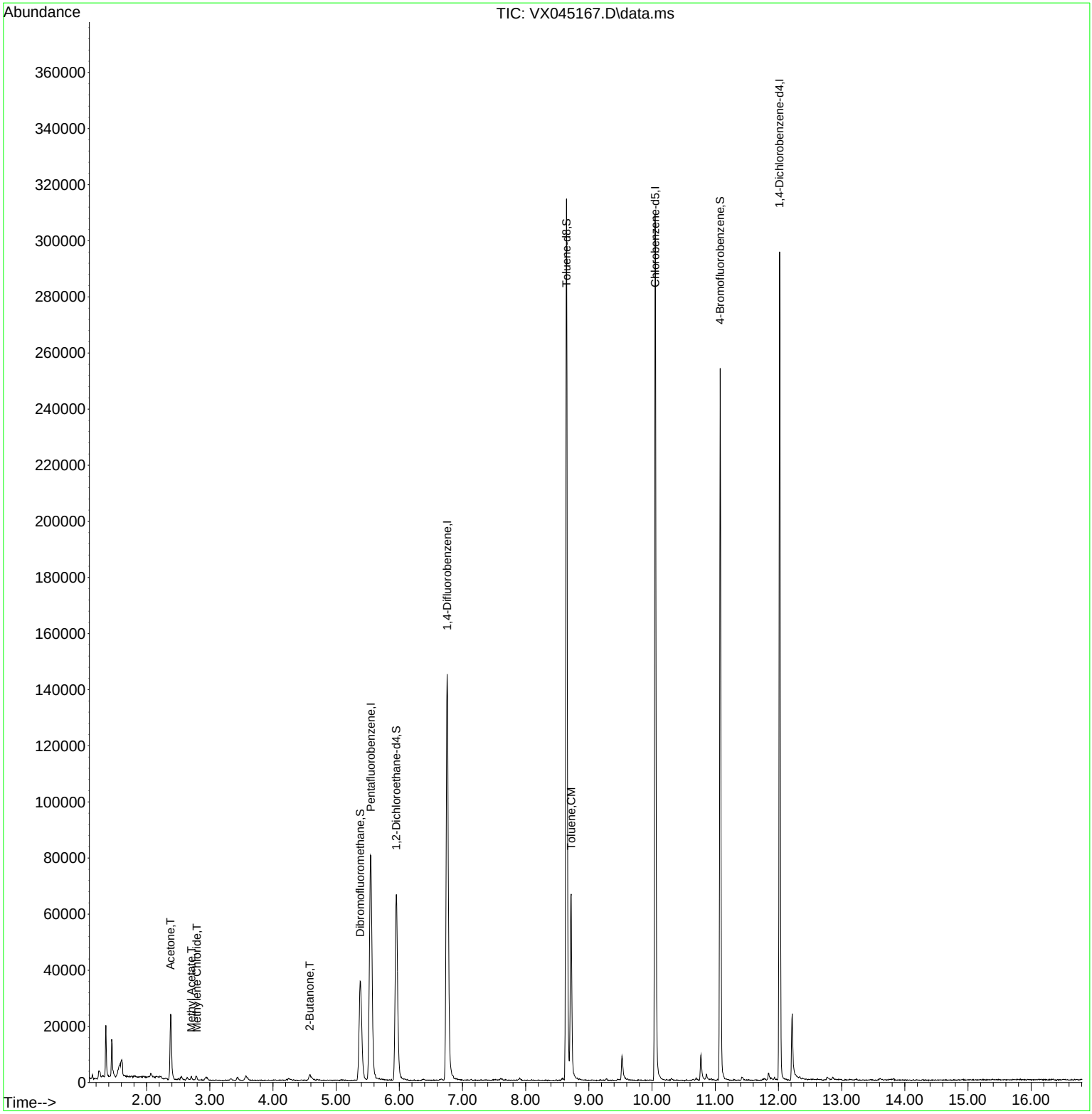
(#) = qualifier out of range (m) = manual integration (+) = signals summed

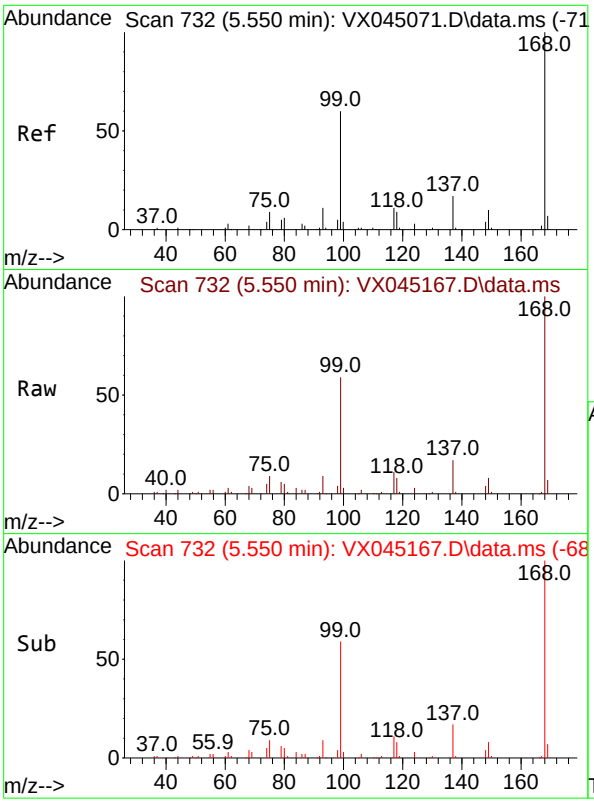
Sample Results: **VX045167.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
Data File : VX045167.D
Acq On : 06 Mar 2025 14:43
Operator : JC/MD
Sample : Q1501-04RE
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525RE

Quant Time: Mar 07 02:57:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration



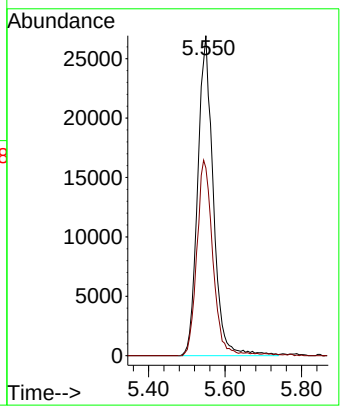


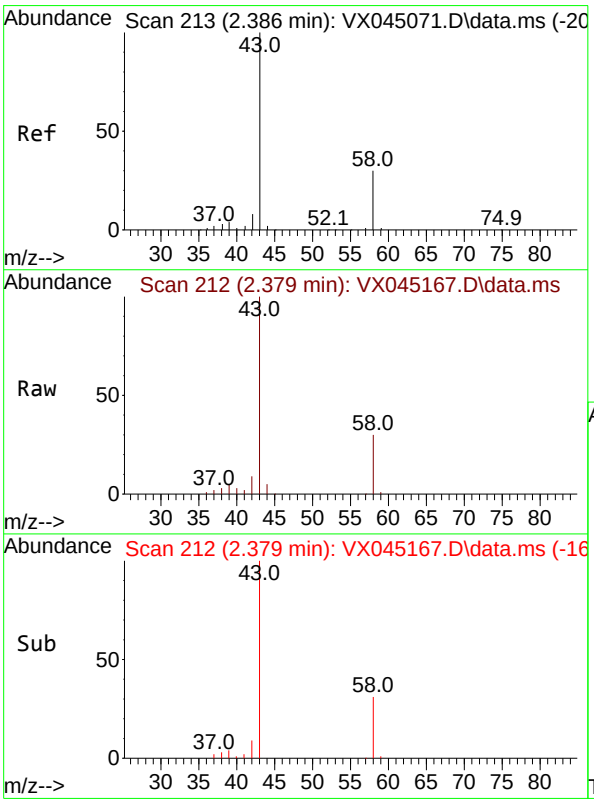
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045167.D
Acq: 06 Mar 2025 14:43

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525RE

Tgt Ion:168 Resp: 75979

Ion	Ratio	Lower	Upper
168	100		
99	58.7	48.2	72.4

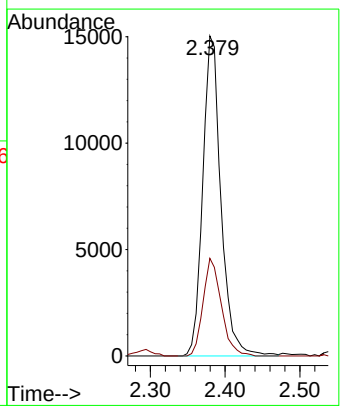


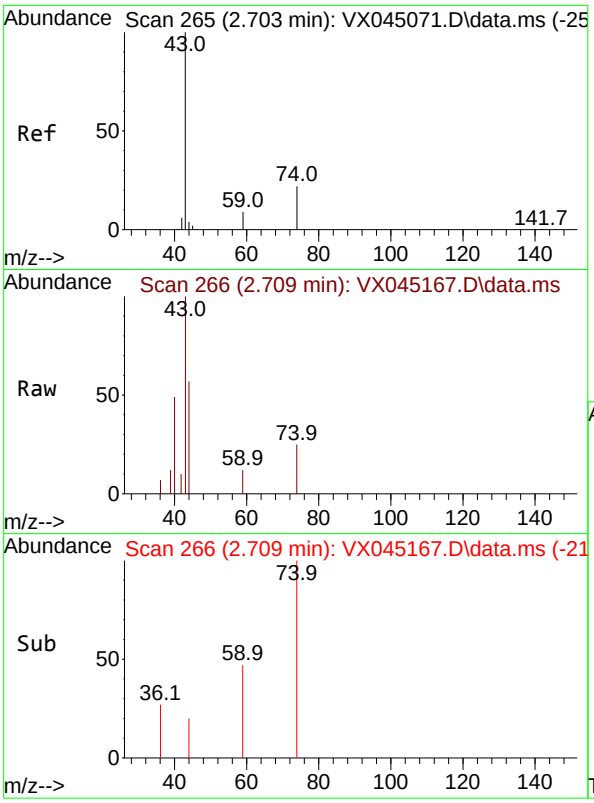


#16
Acetone
Concen: 45.362 ug/l
RT: 2.379 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX045167.D
Acq: 06 Mar 2025 14:43

Tgt Ion: 43 Resp: 25436

Ion	Ratio	Lower	Upper
43	100		
58	30.5	24.2	36.4



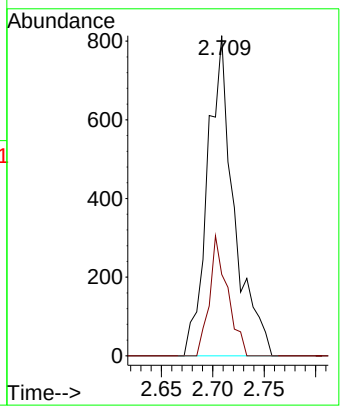


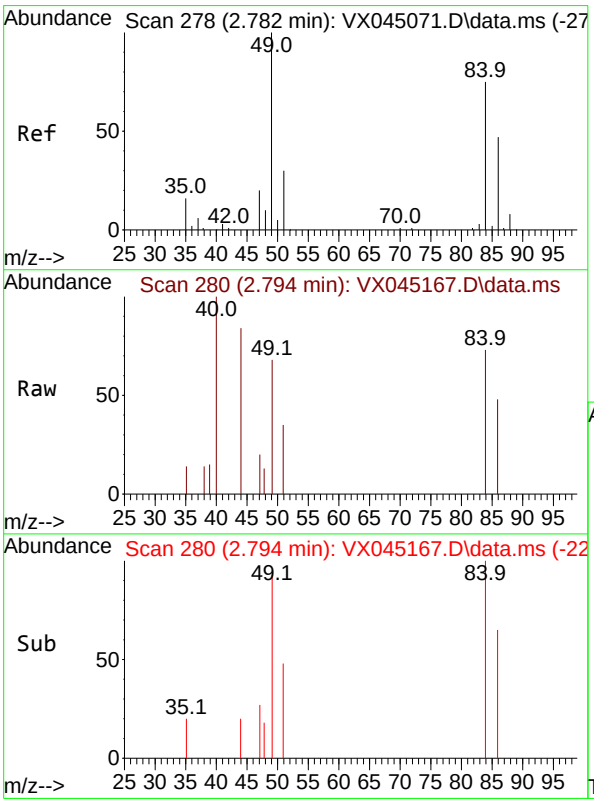
#18
Methyl Acetate
Concen: 1.081 ug/l
RT: 2.709 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX045167.D
Acq: 06 Mar 2025 14:43

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525RE

Tgt Ion: 43 Resp: 1458

Ion	Ratio	Lower	Upper
43	100		
74	25.4	17.4	26.2

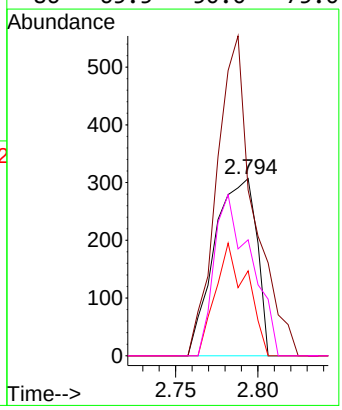


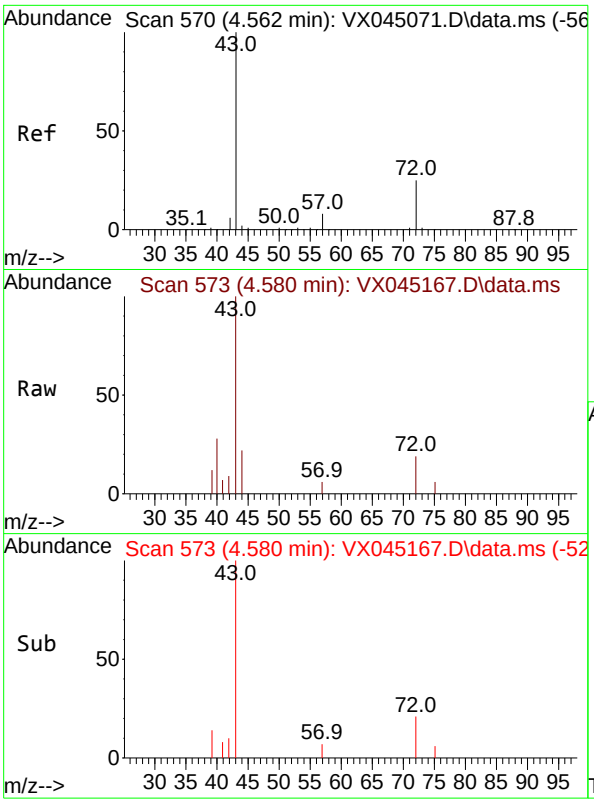


#20
Methylene Chloride
Concen: 0.493 ug/l
RT: 2.794 min Scan# 280
Delta R.T. 0.012 min
Lab File: VX045167.D
Acq: 06 Mar 2025 14:43

Tgt Ion: 84 Resp: 548

Ion	Ratio	Lower	Upper
84	100		
49	93.5	106.5	159.7#
51	47.9	32.1	48.1
86	65.5	50.0	75.0



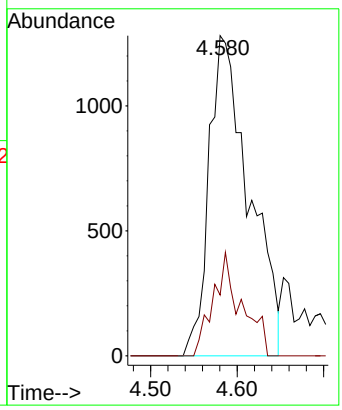


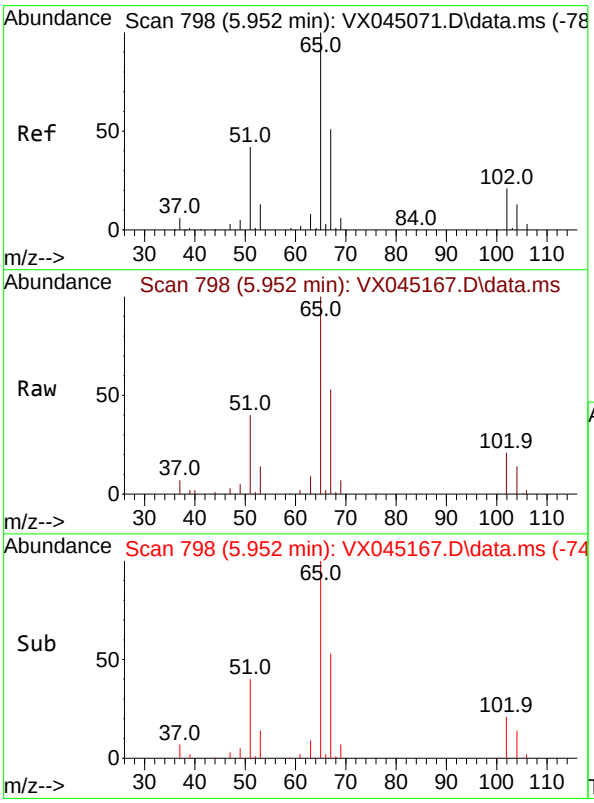
#25
2-Butanone
Concen: 4.882 ug/l
RT: 4.580 min Scan# 5
Delta R.T. 0.018 min
Lab File: VX045167.D
Acq: 06 Mar 2025 14:43

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525RE

Tgt Ion: 43 Resp: 4121

Ion	Ratio	Lower	Upper
43	100		
72	19.0	20.0	30.0#

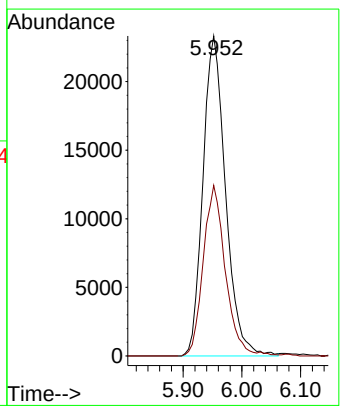


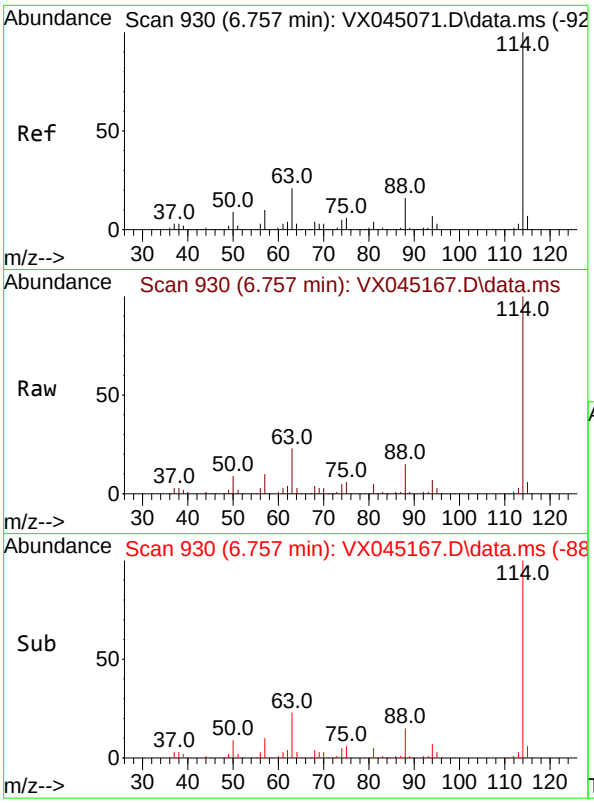


#33
1,2-Dichloroethane-d4
Concen: 51.554 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.000 min
Lab File: VX045167.D
Acq: 06 Mar 2025 14:43

Tgt Ion: 65 Resp: 62306

Ion	Ratio	Lower	Upper
65	100		
67	52.2	0.0	106.2



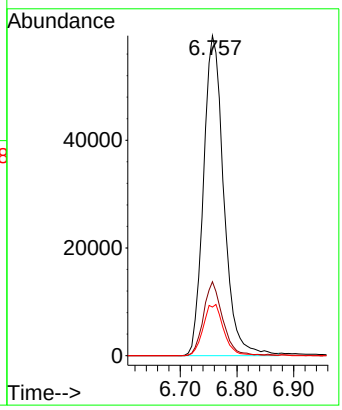


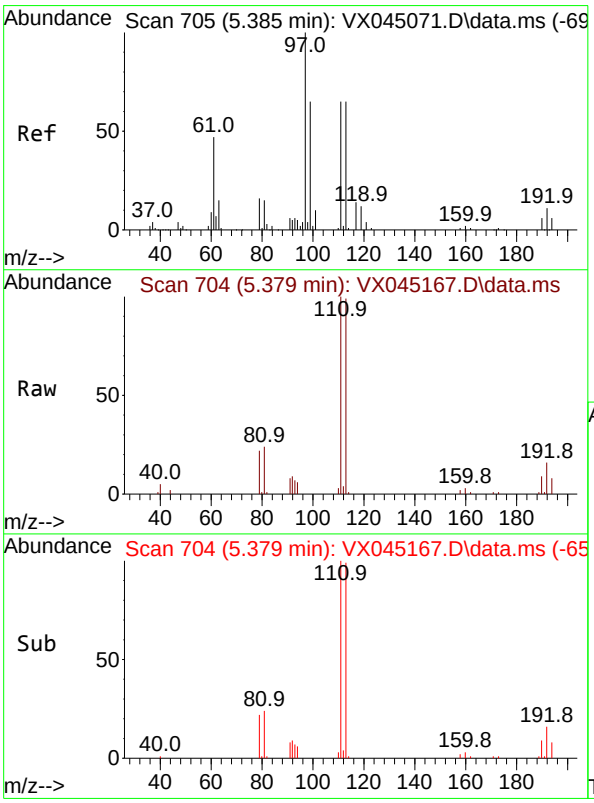
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX045167.D
Acq: 06 Mar 2025 14:43

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525RE

Tgt Ion:114 Resp: 147971

Ion	Ratio	Lower	Upper
114	100		
63	23.1	0.0	41.8
88	15.2	0.0	32.8

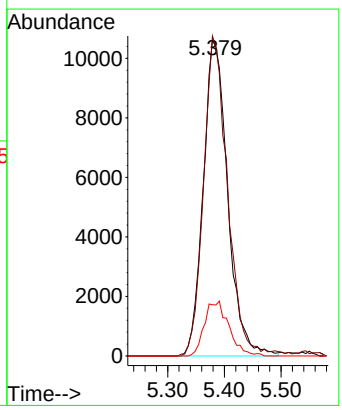


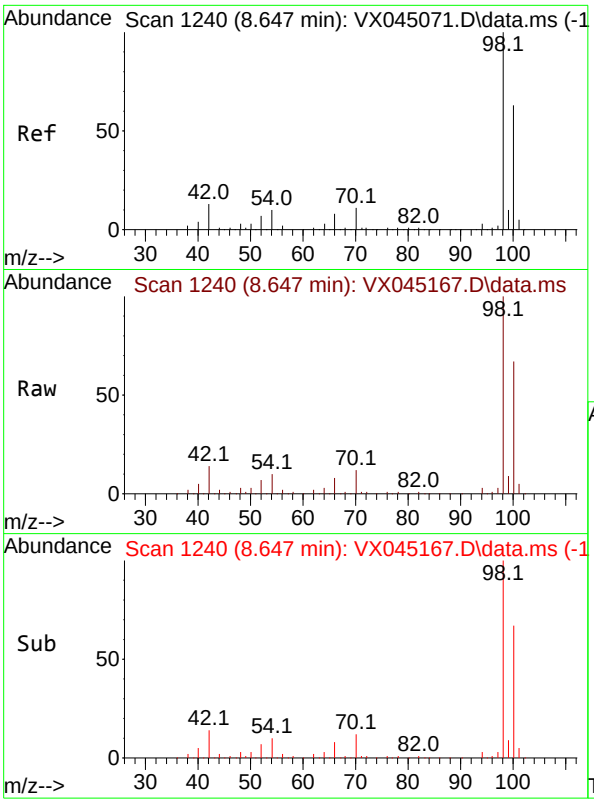


#35
Dibromofluoromethane
Concen: 32.060 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.006 min
Lab File: VX045167.D
Acq: 06 Mar 2025 14:43

Tgt Ion:113 Resp: 31722

Ion	Ratio	Lower	Upper
113	100		
111	99.2	81.8	122.6
192	17.4	14.3	21.5



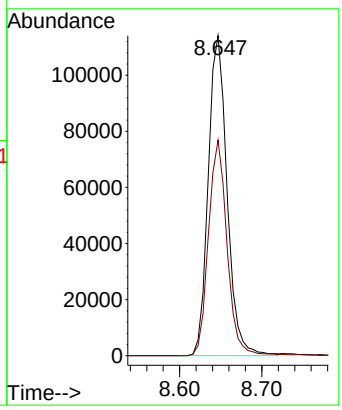


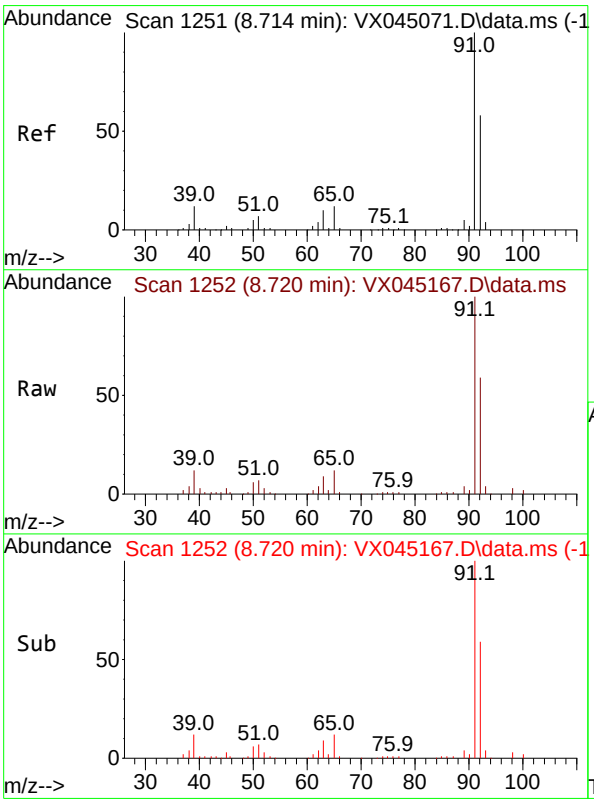
#50
Toluene-d8
Concen: 50.765 ug/l
RT: 8.647 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045167.D
Acq: 06 Mar 2025 14:43

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525RE

Tgt Ion: 98 Resp: 182099

Ion	Ratio	Lower	Upper
98	100		
100	66.4	52.0	78.0

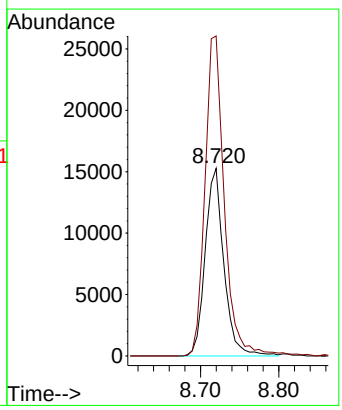


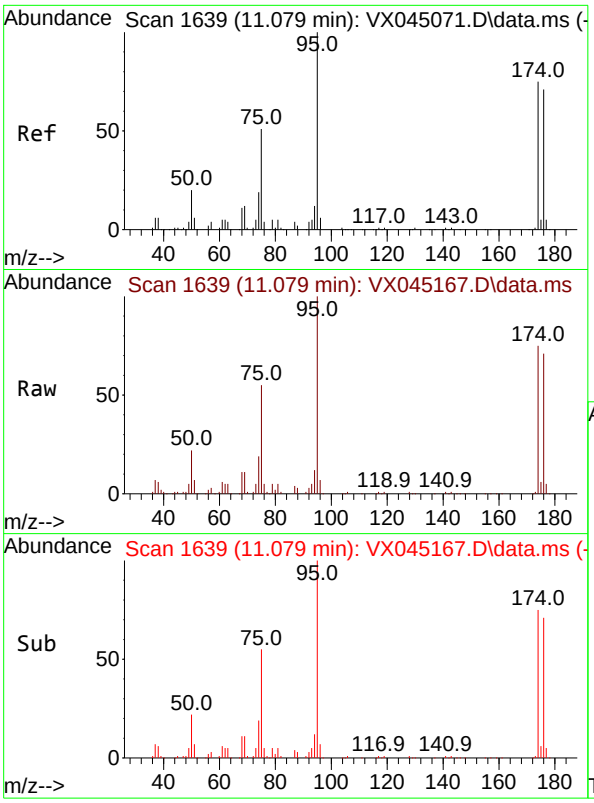


#52
Toluene
Concen: 10.061 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.006 min
Lab File: VX045167.D
Acq: 06 Mar 2025 14:43

Tgt Ion: 92 Resp: 25294

Ion	Ratio	Lower	Upper
92	100		
91	176.8	138.9	208.3



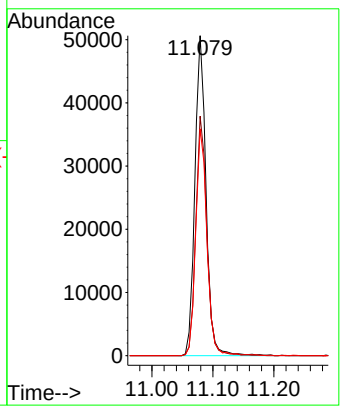


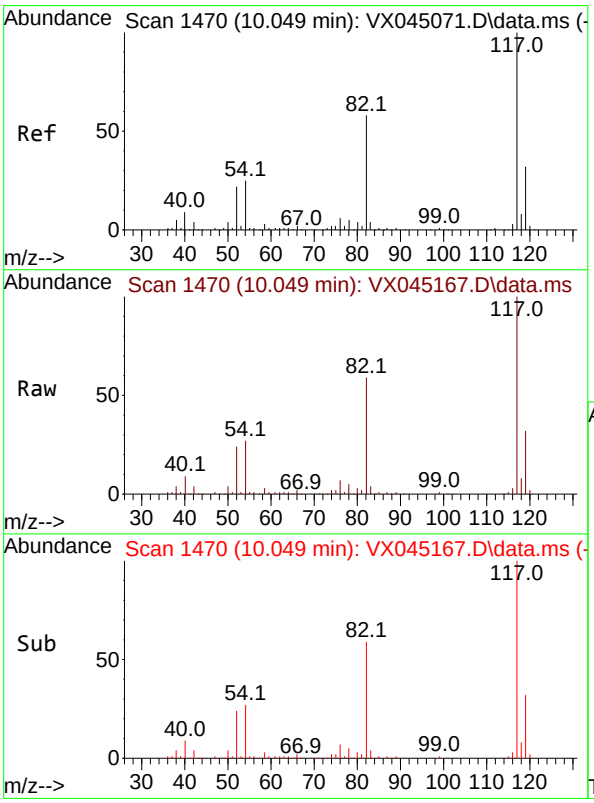
#62
4-Bromofluorobenzene
Concen: 53.912 ug/l
RT: 11.079 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045167.D
Acq: 06 Mar 2025 14:43

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525RE

Tgt Ion: 95 Resp: 64082

Ion	Ratio	Lower	Upper
95	100		
174	74.5	0.0	148.2
176	71.4	0.0	141.4

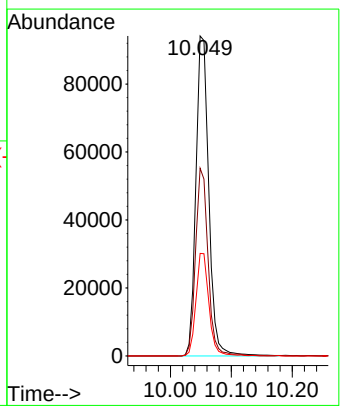


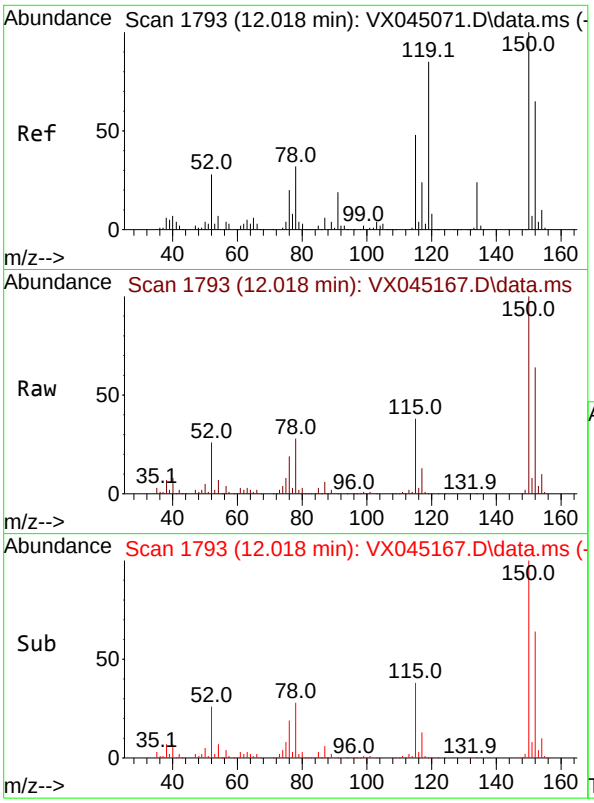


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. -0.000 min
Lab File: VX045167.D
Acq: 06 Mar 2025 14:43

Tgt Ion:117 Resp: 137883

Ion	Ratio	Lower	Upper
117	100		
82	58.7	46.3	69.5
119	32.0	25.7	38.5



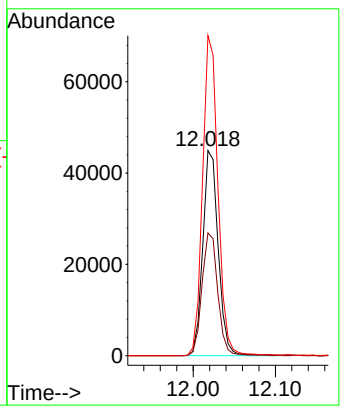


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045167.D
Acq: 06 Mar 2025 14:43

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525RE

Tgt Ion:152 Resp: 58504

Ion	Ratio	Lower	Upper
152	100		
115	61.3	44.2	132.6
150	155.7	0.0	349.0



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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	03/05/25
Project:	Former Schlumberger STC PTC Site # D3868221	Date Received:	03/05/25
Client Sample ID:	TB01-030525	SDG No.:	Q1501
Lab Sample ID:	Q1501-07	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045147.D	1		03/05/25 17:05	VX030525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	1.00	ug/L
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	1.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.5		70 (74) - 130 (125)	105%	SPK: 50
1868-53-7	Dibromofluoromethane	50.5		70 (75) - 130 (124)	101%	SPK: 50
2037-26-5	Toluene-d8	51.8		70 (86) - 130 (113)	104%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.9		70 (77) - 130 (121)	108%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	75700	5.55			
540-36-3	1,4-Difluorobenzene	150000	6.757			
3114-55-4	Chlorobenzene-d5	140000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	59500	12.018			

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\VX030525\
Data File : VX045147.D
Acq On : 05 Mar 2025 17:05
Operator : JC/MD
Sample : Q1501-07
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB01-030525

Quant Time: Mar 06 01:09:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	75698	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	149796	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	139795	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	59512	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	63165	52.459	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 104.920%			
35) Dibromofluoromethane	5.385	113	50535	50.452	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.900%			
50) Toluene-d8	8.647	98	188258	51.843	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 103.680%			
62) 4-Bromofluorobenzene	11.079	95	64827	53.874	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 107.740%			

Target Compounds Qvalue

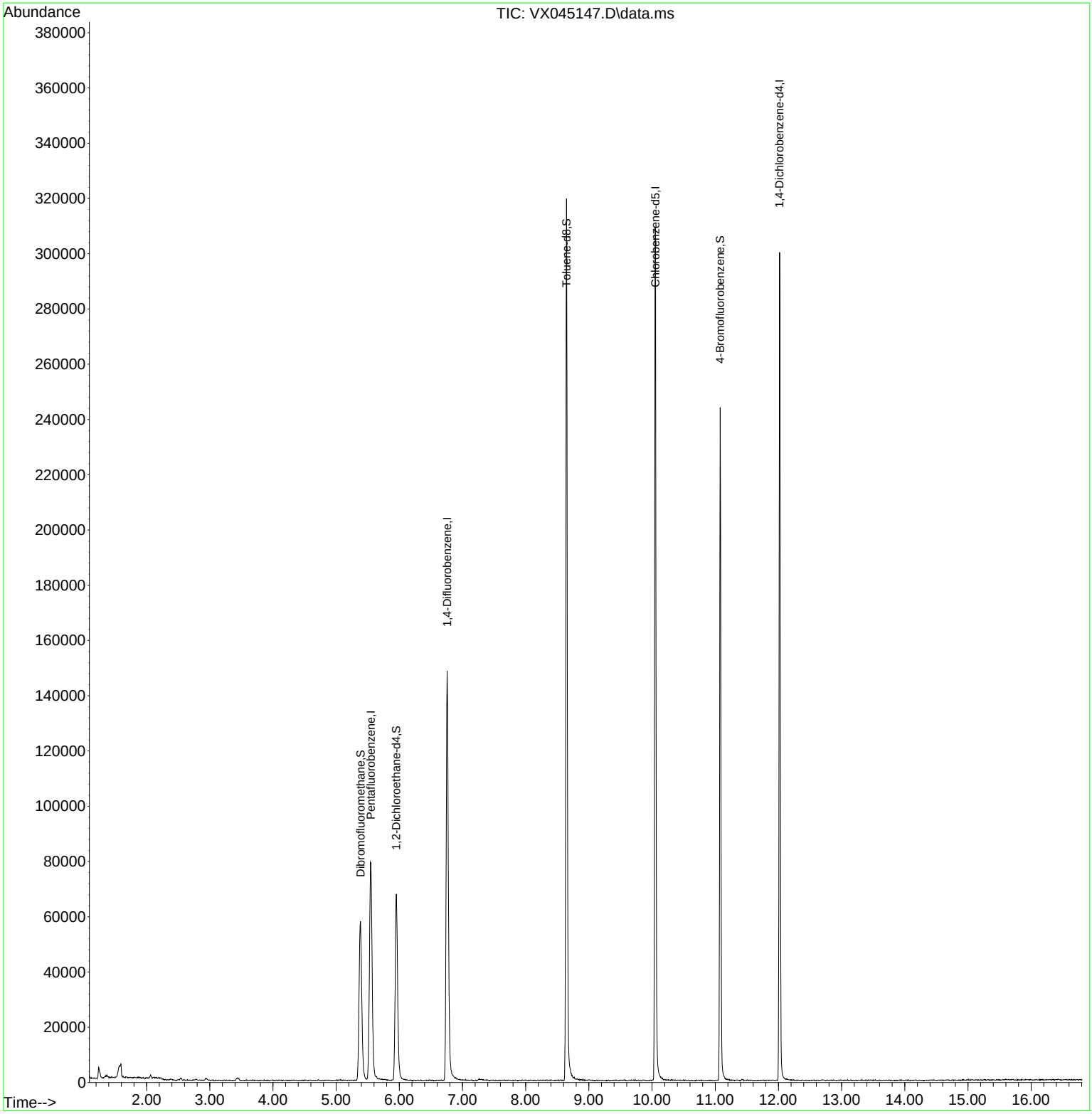
(#) = qualifier out of range (m) = manual integration (+) = signals summed

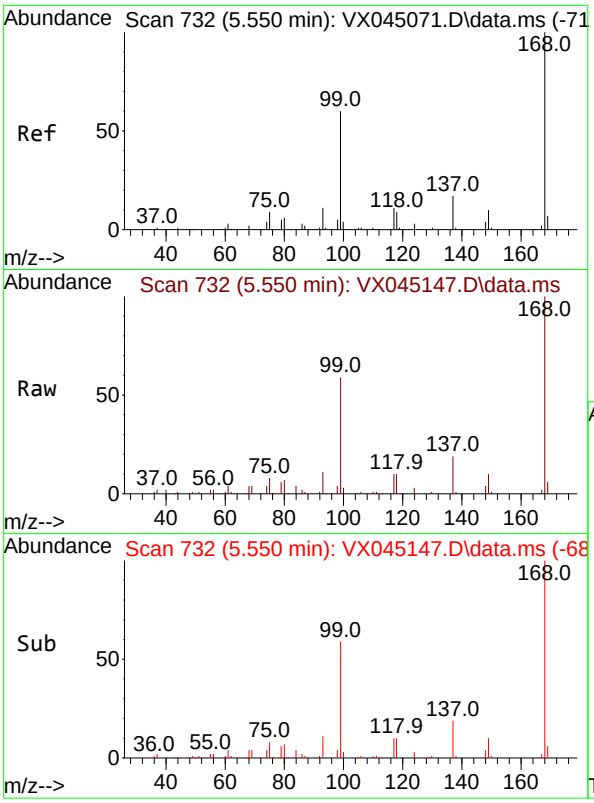
Sample Results: **VX045147.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030525\
Data File : VX045147.D
Acq On : 05 Mar 2025 17:05
Operator : JC/MD
Sample : Q1501-07
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB01-030525

Quant Time: Mar 06 01:09:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration



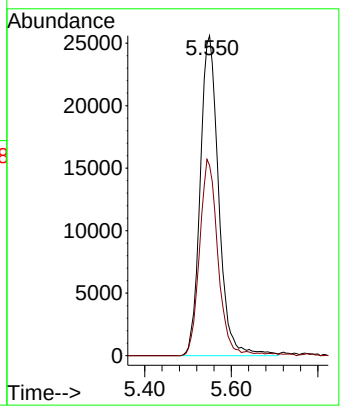


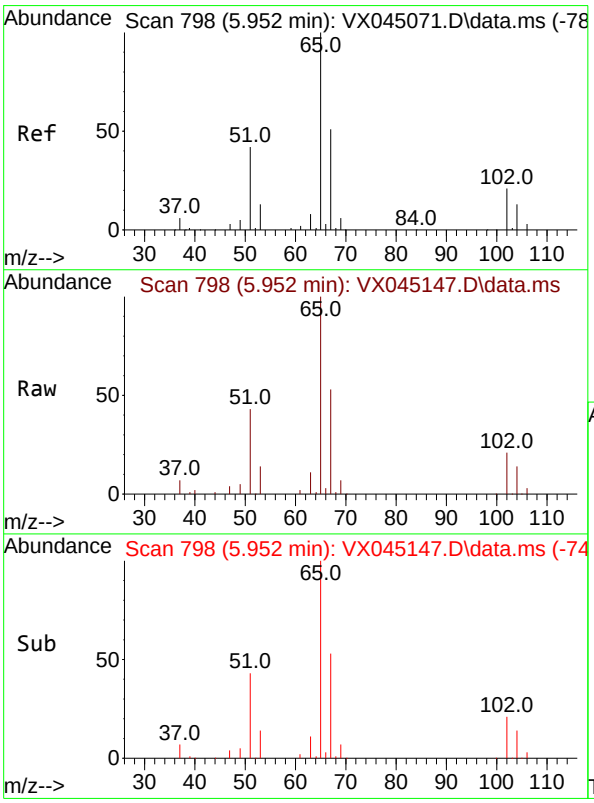
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045147.D
Acq: 05 Mar 2025 17:05

Instrument :
MSVOA_X
ClientSampleId :
TB01-030525

Tgt Ion:168 Resp: 75698

Ion	Ratio	Lower	Upper
168	100		
99	59.4	48.2	72.4

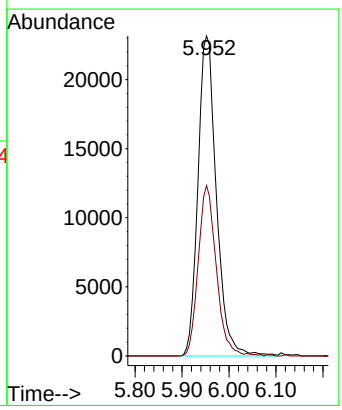


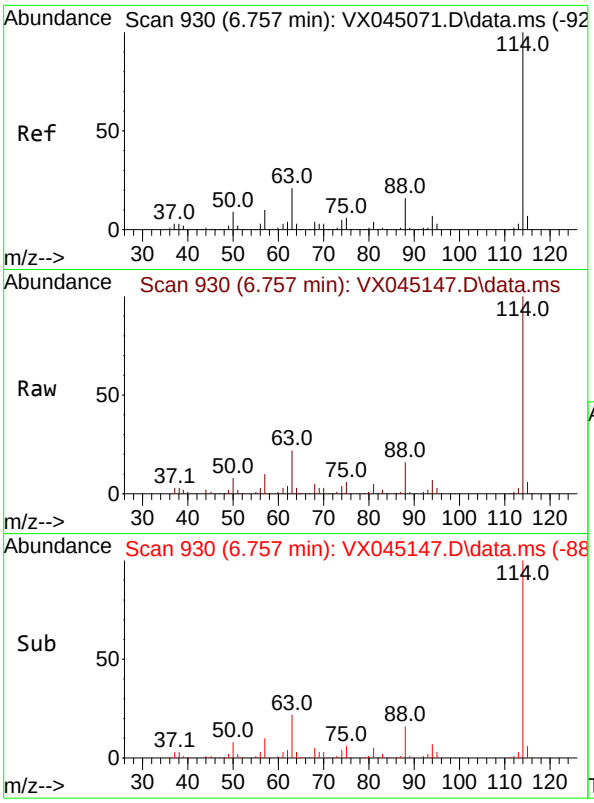


#33
1,2-Dichloroethane-d4
Concen: 52.459 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.000 min
Lab File: VX045147.D
Acq: 05 Mar 2025 17:05

Tgt Ion: 65 Resp: 63165

Ion	Ratio	Lower	Upper
65	100		
67	52.2	0.0	106.2



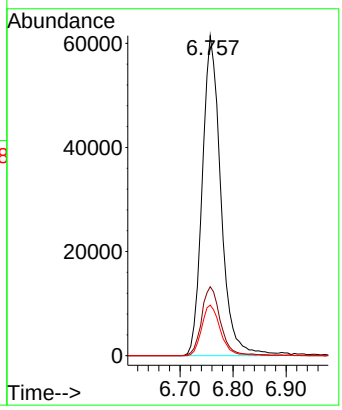


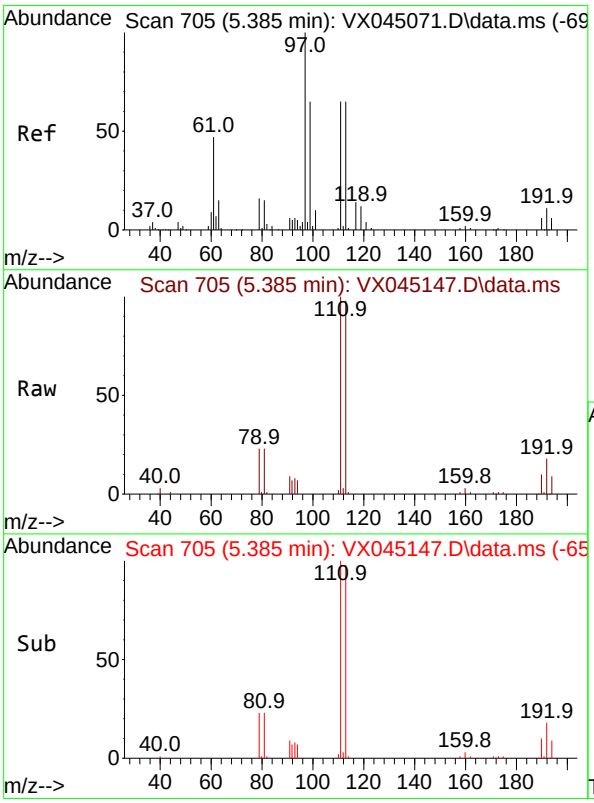
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX045147.D
Acq: 05 Mar 2025 17:05

Instrument :
MSVOA_X
ClientSampleId :
TB01-030525

Tgt Ion:114 Resp: 149796

Ion	Ratio	Lower	Upper
114	100		
63	21.5	0.0	41.8
88	15.8	0.0	32.8

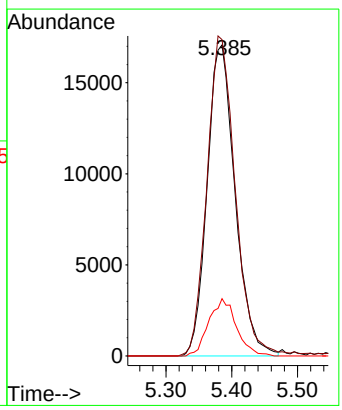


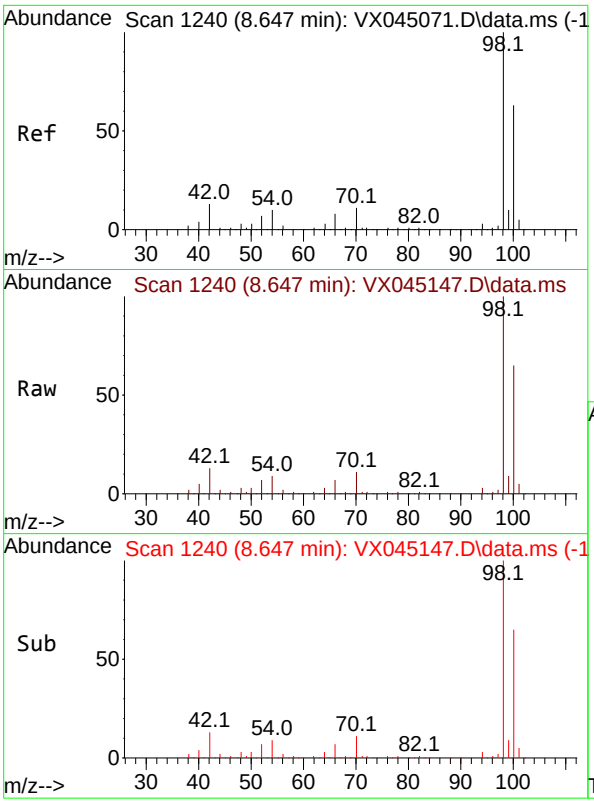


#35
Dibromofluoromethane
Concen: 50.452 ug/l
RT: 5.385 min Scan# 705
Delta R.T. -0.000 min
Lab File: VX045147.D
Acq: 05 Mar 2025 17:05

Tgt Ion:113 Resp: 50535

Ion	Ratio	Lower	Upper
113	100		
111	104.4	81.8	122.6
192	18.2	14.3	21.5



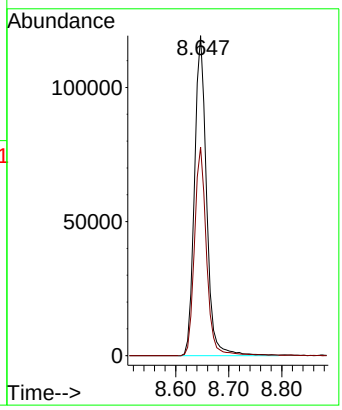


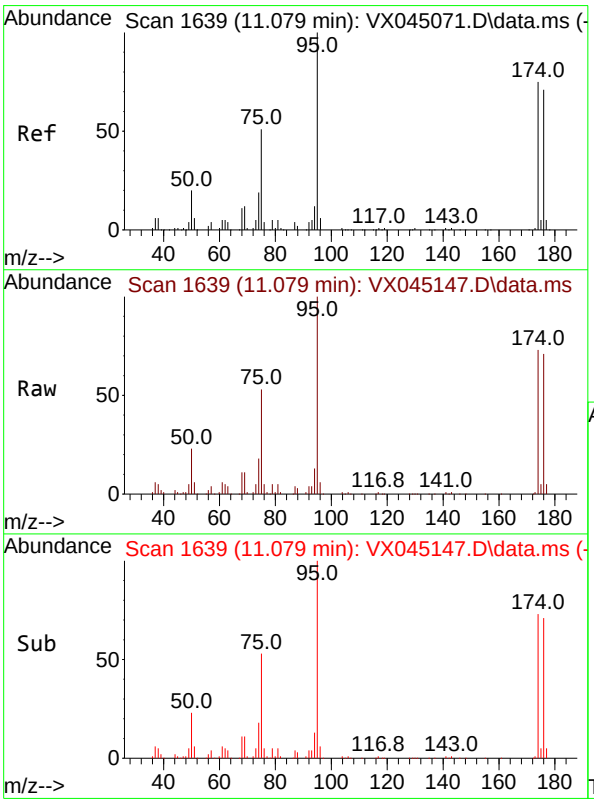
#50
Toluene-d8
Concen: 51.843 ug/l
RT: 8.647 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045147.D
Acq: 05 Mar 2025 17:05

Instrument :
MSVOA_X
ClientSampleId :
TB01-030525

Tgt Ion: 98 Resp: 188258

Ion	Ratio	Lower	Upper
98	100		
100	64.9	52.0	78.0

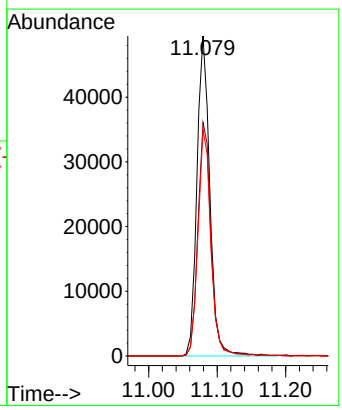


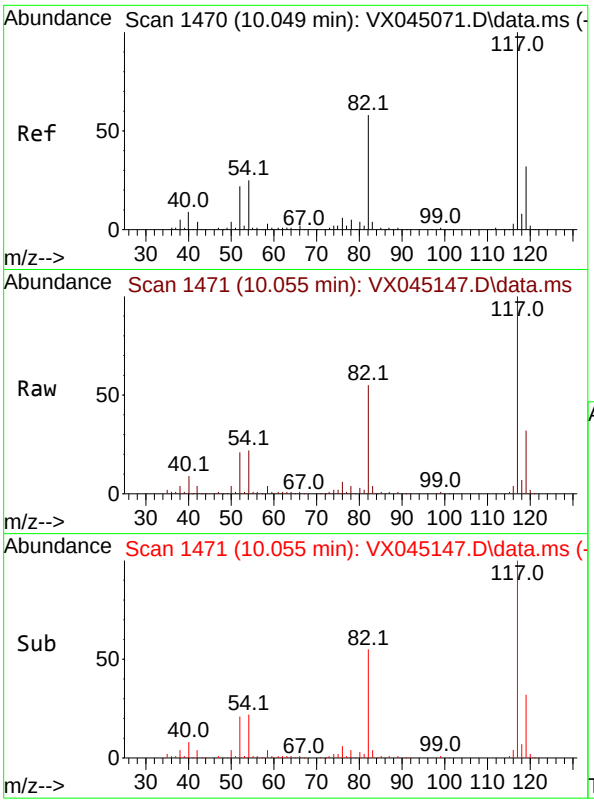


#62
4-Bromofluorobenzene
Concen: 53.874 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX045147.D
Acq: 05 Mar 2025 17:05

Tgt Ion: 95 Resp: 64827

Ion	Ratio	Lower	Upper
95	100		
174	73.8	0.0	148.2
176	70.7	0.0	141.4



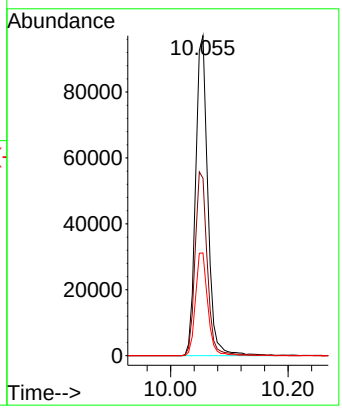


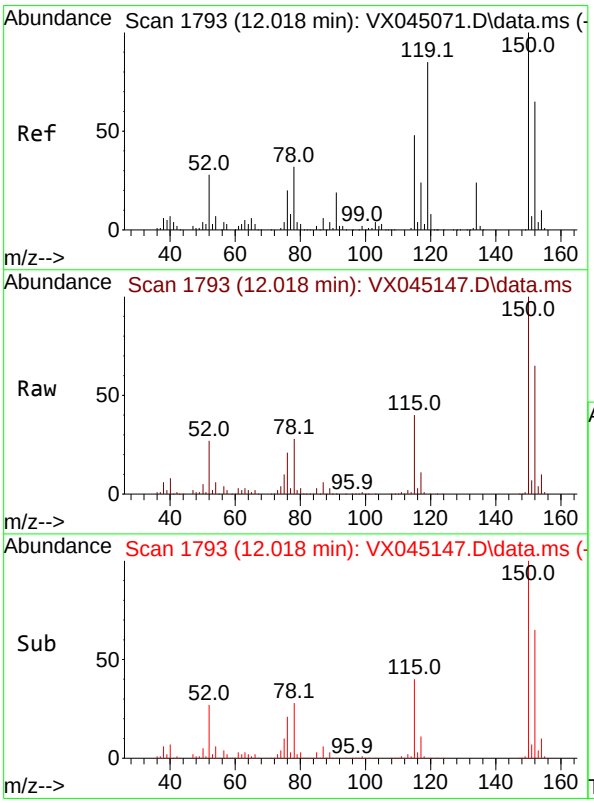
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045147.D
Acq: 05 Mar 2025 17:05

Instrument :
MSVOA_X
ClientSampleId :
TB01-030525

Tgt Ion:117 Resp: 139795

Ion	Ratio	Lower	Upper
117	100		
82	55.5	46.3	69.5
119	32.1	25.7	38.5

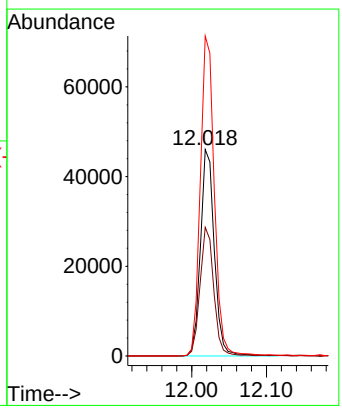




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX045147.D
Acq: 05 Mar 2025 17:05

Tgt Ion:152 Resp: 59512

Ion	Ratio	Lower	Upper
152	100		
115	61.8	44.2	132.6
150	156.2	0.0	349.0



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: JACO05

Lab Code: CHEM Case No.: Q1501 SAS No.: Q1501 SDG No.: Q1501

Instrument ID: MSVOA_X Calibration Date(s): 02/28/2025 02/28/2025

Heated Purge: (Y/N) N Calibration Time(s): 01:27 03:47

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

LAB FILE ID: RRF001 = VX045068.D RRF005 = VX045069.D RRF020 = VX045070.D
RRF050 = VX045071.D RRF100 = VX045072.D RRF150 = VX045073.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Vinyl Chloride	0.773	0.755	0.774	0.761	0.765	0.758	0.764	1
1,1-Dichloroethene	0.609	0.620	0.612	0.623	0.620	0.603	0.614	1.3
1,1-Dichloroethane	1.200	1.223	1.280	1.242	1.270	1.264	1.247	2.5
cis-1,2-Dichloroethene	0.687	0.746	0.765	0.762	0.767	0.769	0.749	4.2
1,1,1-Trichloroethane	0.908	0.992	1.009	1.024	1.044	1.025	1.000	4.8
Benzene	1.321	1.459	1.491	1.496	1.497	1.424	1.448	4.7
1,2-Dichloroethane	0.487	0.525	0.545	0.528	0.524	0.520	0.521	3.6
Trichloroethene	0.319	0.351	0.339	0.341	0.354	0.336	0.340	3.7
1,1,2-Trichloroethane	0.346	0.348	0.371	0.356	0.341	0.336	0.350	3.6
Tetrachloroethene	0.315	0.326	0.319	0.324	0.329	0.309	0.320	2.3
1,2-Dichloroethane-d4		0.836	0.784	0.757	0.783	0.817	0.795	3.9
Dibromofluoromethane		0.329	0.335	0.329	0.340	0.338	0.334	1.5
Toluene-d8		1.237	1.191	1.210	1.219	1.203	1.212	1.4
4-Bromofluorobenzene		0.383	0.393	0.402	0.410	0.421	0.402	3.7

* 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.

Response Factor Report MSVOA_X2

Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\
Method File : 82X022825W.M
Title : SW846 8260
Last Update : Fri Feb 28 06:45:16 2025
Response Via : Initial Calibration

Calibration Files
1 =VX045068.D 5 =VX045069.D 20 =VX045070.D 50 =VX045071.D 100 =VX045072.D 150 =VX045073.D

		Compound	1	5	20	50	100	150	Avg	%RSD
1)	I	Pentafluorobenzene	----------ISTD----------							
2)	T	Dichlorodifluo...	0.624	0.646	0.646	0.627	0.626	0.607	0.629	2.38
3)	P	Chloromethane	0.755	0.821	0.828	0.753	0.721	0.744	0.770	5.68
4)	C	Vinyl Chloride	0.773	0.755	0.774	0.761	0.765	0.758	0.764	1.03#
5)	T	Bromomethane		0.337	0.298	0.292	0.284	0.291	0.300	7.01
6)	T	Chloroethane	0.373	0.421	0.366	0.373	0.297	0.286	0.352	14.54
7)	T	Trichlorofluor...	0.978	1.061	1.050	1.050	0.982	0.948	1.011	4.73
8)	T	Diethyl Ether	0.406	0.402	0.409	0.387	0.387	0.383	0.396	2.83
9)	T	1,1,2-Trichlor...	0.526	0.613	0.595	0.594	0.596	0.563	0.581	5.41
10)	T	Methyl Iodide		0.607	0.758	0.769	0.758	0.739	0.726	9.28
11)	T	Tert butyl alc...		0.189	0.161	0.134	0.133	0.136	0.151	16.19
12)	CM	1,1-Dichloroet...	0.609	0.620	0.612	0.623	0.620	0.603	0.614	1.27#
13)	T	Acrolein		0.162	0.173	0.174	0.178	0.184	0.174	4.53
14)	T	Allyl chloride	1.140	1.047	1.104	1.107	1.091	1.072	1.094	2.92
15)	T	Acrylonitrile	0.396	0.398	0.432	0.410	0.387	0.399	0.404	3.90
16)	T	Acetone	0.414	0.363	0.384	0.351	0.345	0.356	0.369	7.04
17)	T	Carbon Disulfide	1.584	1.582	1.587	1.660	1.708	1.698	1.636	3.62
18)	T	Methyl Acetate	0.954	0.835	0.903	0.867	0.869	0.899	0.888	4.59
19)	T	Methyl tert-bu...	1.955	1.913	2.127	2.083	2.132	2.158	2.061	4.97
20)	T	Methylene Chlo...	0.806	0.730	0.752	0.698	0.694	0.706	0.731	5.84
21)	T	trans-1,2-Dich...	0.540	0.619	0.603	0.631	0.634	0.616	0.607	5.73
22)	T	Diisopropyl ether	1.959	2.156	2.321	2.291	2.310	2.307	2.224	6.46
23)	T	Vinyl Acetate	1.486	1.655	1.961	1.973	2.012	2.049	1.856	12.38
24)	P	1,1-Dichloroet...	1.200	1.223	1.280	1.242	1.270	1.264	1.247	2.45
25)	T	2-Butanone	0.476	0.545	0.610	0.579	0.553	0.570	0.555	8.09
26)	T	2,2-Dichloropr...	0.519	0.562	0.588	0.597	0.617	0.626	0.585	6.74
27)	T	cis-1,2-Dichlo...	0.687	0.746	0.765	0.762	0.767	0.769	0.749	4.21
28)	T	Bromochloromet...	0.557	0.633	0.613	0.603	0.563	0.596	0.594	4.97
29)	T	Tetrahydrofuran	0.362	0.376	0.398	0.373	0.361	0.368	0.373	3.61
30)	C	Chloroform	1.206	1.247	1.278	1.246	1.230	1.225	1.239	1.97#
31)	T	Cyclohexane		1.021	1.087	1.108	1.142	1.052	1.082	4.35
32)	T	1,1,1-Trichlor...	0.908	0.992	1.009	1.024	1.044	1.025	1.000	4.83
33)	S	1,2-Dichloroet...		0.836	0.784	0.757	0.783	0.817	0.795	3.91
34)	I	1,4-Difluorobenzene	----------ISTD----------							
35)	S	Dibromofluorom...		0.329	0.335	0.329	0.340	0.338	0.334	1.53
36)	T	1,1-Dichloropr...	0.446	0.462	0.444	0.469	0.476	0.455	0.459	2.77
37)	T	Ethyl Acetate	0.589	0.538	0.607	0.606	0.609	0.596	0.591	4.53
38)	T	Carbon Tetrach...	0.463	0.463	0.447	0.468	0.489	0.463	0.465	2.96
39)	T	Methylcyclohexane	0.464	0.530	0.560	0.585	0.607	0.550	0.549	9.07
40)	TM	Benzene	1.321	1.459	1.491	1.496	1.497	1.424	1.448	4.72
41)	T	Methacrylonitrile	0.284	0.293	0.337	0.340	0.332	0.330	0.319	7.59
42)	TM	1,2-Dichloroet...	0.487	0.525	0.545	0.528	0.524	0.520	0.521	3.63
43)	T	Isopropyl Acetate	0.675	0.800	0.940	0.929	0.935	0.964	0.874	12.98
44)	TM	Trichloroethene	0.319	0.351	0.339	0.341	0.354	0.336	0.340	3.72
45)	C	1,2-Dichloropr...	0.354	0.378	0.382	0.371	0.376	0.373	0.372	2.68#
46)	T	Dibromomethane	0.236	0.265	0.272	0.269	0.269	0.268	0.263	5.10
47)	T	Bromodichlorom...	0.478	0.503	0.536	0.524	0.528	0.528	0.516	4.23
48)	T	Methyl methacr...	0.352	0.422	0.460	0.463	0.458	0.475	0.438	10.46
49)	T	1,4-Dioxane	0.008	0.009	0.010	0.009	0.009	0.009	0.009	6.46
50)	S	Toluene-d8		1.237	1.191	1.210	1.219	1.203	1.212	1.43
51)	T	4-Methyl-2-Pen...	0.535	0.570	0.647	0.610	0.579	0.579	0.587	6.52
52)	CM	Toluene	0.716	0.872	0.892	0.898	0.874	0.845	0.849	8.03#
53)	T	t-1,3-Dichloro...	0.304	0.389	0.436	0.469	0.490	0.502	0.431	17.30
54)	T	cis-1,3-Dichlo...	0.404	0.463	0.509	0.535	0.555	0.553	0.503	11.80
55)	T	1,1,2-Trichlor...	0.346	0.348	0.371	0.356	0.341	0.336	0.350	3.63
56)	T	Ethyl methacry...	0.396	0.500	0.562	0.570	0.577	0.586	0.532	13.74

Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\
Method File : 82X022825W.M

57)	T	1,3-Dichloropr...	0.560	0.623	0.643	0.620	0.597	0.588	0.605	4.90
58)	T	2-Chloroethyl ...	0.218	0.239	0.271	0.284	0.273	0.270	0.259	9.71
59)	T	2-Hexanone	0.349	0.412	0.476	0.448	0.431	0.436	0.425	10.08
60)	T	Dibromochlorom...	0.305	0.349	0.390	0.384	0.385	0.380	0.366	9.01
61)	T	1,2-Dibromoethane	0.311	0.352	0.371	0.356	0.355	0.350	0.349	5.73
62)	S	4-Bromofluorob...		0.383	0.393	0.402	0.410	0.421	0.402	3.67
63)	I	Chlorobenzene-d5	----------ISTD----------							
64)	T	Tetrachloroethene	0.315	0.326	0.319	0.324	0.329	0.309	0.320	2.33
65)	PM	Chlorobenzene	0.968	1.054	1.090	1.092	1.100	1.045	1.058	4.68
66)	T	1,1,1,2-Tetrac...	0.337	0.331	0.357	0.356	0.372	0.362	0.352	4.39
67)	C	Ethyl Benzene	1.566	1.794	1.889	1.952	1.972	1.888	1.843	8.11#
68)	T	m/p-Xylenes	0.555	0.672	0.711	0.724	0.715	0.673	0.675	9.27
69)	T	o-Xylene	0.609	0.689	0.702	0.706	0.707	0.670	0.681	5.52
70)	T	Styrene	0.879	1.060	1.170	1.181	1.183	1.134	1.101	10.75
71)	P	Bromoform	0.209	0.234	0.276	0.276	0.300	0.300	0.266	13.94
72)	I	1,4-Dichlorobenzen...	----------ISTD----------							
73)	T	Isopropylbenzene	3.397	4.034	3.999	4.135	4.006	3.845	3.903	6.79
74)	T	N-amyl acetate	1.349	1.578	1.890	1.977	2.078	2.116	1.831	16.62
75)	P	1,1,2,2-Tetrac...	1.395	1.479	1.513	1.419	1.391	1.396	1.432	3.60
76)	T	1,2,3-Trichlor...	1.181	1.201	1.193	1.147	1.131	1.130	1.164	2.73
77)	T	Bromobenzene	0.899	0.947	0.939	0.939	0.910	0.891	0.921	2.57
78)	T	n-propylbenzene	3.451	4.375	4.577	4.805	4.696	4.548	4.409	11.14
79)	T	2-Chlorotoluene	2.788	2.888	2.828	2.869	2.770	2.702	2.808	2.45
80)	T	1,3,5-Trimethy...	2.611	3.211	3.373	3.384	3.224	3.131	3.156	9.01
81)	T	trans-1,4-Dich...		0.268	0.313	0.339	0.376	0.405	0.340	15.78
82)	T	4-Chlorotoluene	2.800	3.015	3.078	3.234	3.140	3.092	3.060	4.80
83)	T	tert-Butylbenzene	3.029	3.256	3.342	3.375	3.292	3.160	3.242	3.96
84)	T	1,2,4-Trimethy...	2.646	3.202	3.380	3.378	3.258	3.188	3.175	8.57
85)	T	sec-Butylbenzene	3.000	3.847	4.137	4.215	4.125	3.978	3.884	11.65
86)	T	p-Isopropyltol...	2.511	2.986	3.266	3.424	3.369	3.275	3.139	10.91
87)	T	1,3-Dichlorobe...	1.502	1.652	1.710	1.668	1.675	1.649	1.643	4.40
88)	T	1,4-Dichlorobe...	1.605	1.702	1.665	1.687	1.669	1.643	1.662	2.06
89)	T	n-Butylbenzene	1.905	2.359	2.788	3.013	3.099	3.057	2.703	17.67
90)	T	Hexachloroethane	0.470	0.498	0.568	0.605	0.633	0.633	0.568	12.30
91)	T	1,2-Dichlorobe...	1.479	1.695	1.735	1.668	1.687	1.622	1.648	5.50
92)	T	1,2-Dibromo-3-...	0.237	0.243	0.285	0.289	0.300	0.320	0.279	11.64
93)	T	1,2,4-Trichlor...	0.668	0.821	0.978	1.009	1.074	1.080	0.938	17.32
94)	T	Hexachlorobuta...	0.356	0.369	0.390	0.392	0.406	0.395	0.385	4.77
95)	T	Naphthalene	2.573	3.115	3.866	3.902	4.091	4.082	3.605	17.21
96)	T	1,2,3-Trichlor...	0.747	0.897	1.032	1.059	1.107	1.096	0.990	14.23

(#) = Out of Range

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045068.D
Acq On : 28 Feb 2025 01:27
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Feb 28 06:28:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:18:23 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene	5.550	168	102761	50.000 ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	188642	50.000 ug/l	0.00
63) Chlorobenzene-d5	10.049	117	159886	50.000 ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	64845	50.000 ug/l	0.00
System Monitoring Compounds					
33) 1,2-Dichloroethane-d4	0.000	65	0d	0.000 ug/l	
Spiked Amount 50.000	Range 74 - 125		Recovery	= 0.000%#	
35) Dibromofluoromethane	0.000	113	0d	0.000 ug/l	
Spiked Amount 50.000	Range 75 - 124		Recovery	= 0.000%#	
50) Toluene-d8	0.000	98	0d	0.000 ug/l	
Spiked Amount 50.000	Range 86 - 113		Recovery	= 0.000%#	
62) 4-Bromofluorobenzene	0.000	95	0d	0.000 ug/l	
Spiked Amount 50.000	Range 77 - 121		Recovery	= 0.000%#	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.166	85	1282	1.007 ug/l	90
3) Chloromethane	1.301	50	1552	0.975 ug/l	91
4) Vinyl Chloride	1.368	62	1588	1.008 ug/l #	85
6) Chloroethane	1.673	64	766m	0.992 ug/l	
7) Trichlorofluoromethane	1.880	101	2011	0.957 ug/l	97
8) Diethyl Ether	2.130	74	835	1.045 ug/l	80
9) 1,1,2-Trichlorotrifluo...	2.319	101	1081	0.884 ug/l	87
12) 1,1-Dichloroethene	2.313	96	1251	0.991 ug/l	92
14) Allyl chloride	2.660	41	2343	1.055 ug/l	93
15) Acrylonitrile	3.075	53	4067	4.931 ug/l	99
16) Acetone	2.380	43	4259	5.635 ug/l	100
17) Carbon Disulfide	2.502	76	3256	0.956 ug/l #	92
18) Methyl Acetate	2.703	43	1960	1.066 ug/l	93
19) Methyl tert-butyl Ether	3.111	73	4017	0.943 ug/l	91
20) Methylene Chloride	2.782	84	1656	1.095 ug/l	98
21) trans-1,2-Dichloroethene	3.093	96	1109	0.869 ug/l	91
22) Diisopropyl ether	3.764	45	4026	0.871 ug/l #	80
23) Vinyl Acetate	3.727	43	15271	3.971 ug/l	97
24) 1,1-Dichloroethane	3.605	63	2467	0.958 ug/l #	83
25) 2-Butanone	4.587	43	4894	4.252 ug/l	96
26) 2,2-Dichloropropane	4.471	77	1066	0.872 ug/l #	56
27) cis-1,2-Dichloroethene	4.501	96	1412	0.902 ug/l #	19
28) Bromochloromethane	4.885	49	1144	0.958 ug/l #	54
29) Tetrahydrofuran	5.032	42	3719	4.809 ug/l #	34
30) Chloroform	5.093	83	2478	0.978 ug/l	92
32) 1,1,1-Trichloroethane	5.373	97	1867	0.893 ug/l #	52
36) 1,1-Dichloropropene	5.690	75	1681	0.967 ug/l #	84
37) Ethyl Acetate	4.739	43	2223m	0.988 ug/l	
38) Carbon Tetrachloride	5.672	117	1747m	0.987 ug/l	
39) Methylcyclohexane	7.385	83	1750	0.831 ug/l	88
40) Benzene	6.031	78	4984	0.907 ug/l	99
41) Methacrylonitrile	4.958	41	1072m	0.879 ug/l	
42) 1,2-Dichloroethane	6.099	62	1837	0.924 ug/l	78
43) Isopropyl Acetate	6.355	43	2545	0.767 ug/l #	95
44) Trichloroethene	7.129	130	1202	0.933 ug/l	65
45) 1,2-Dichloropropane	7.434	63	1334	0.971 ug/l #	82

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045068.D
Acq On : 28 Feb 2025 01:27
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Feb 28 06:28:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:18:23 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
46) Dibromomethane	7.586	93	891	0.897 ug/l	92
47) Bromodichloromethane	7.818	83	1802	0.927 ug/l #	85
48) Methyl methacrylate	7.714	41	1328m	0.825 ug/l	
49) 1,4-Dioxane	7.684	88	639	18.144 ug/l #	81
51) 4-Methyl-2-Pentanone	8.574	43	10091	4.567 ug/l	95
52) Toluene	8.720	92	2700	0.841 ug/l	97
53) t-1,3-Dichloropropene	8.994	75	1147	0.700 ug/l #	85
54) cis-1,3-Dichloropropene	8.373	75	1525	0.804 ug/l #	90
55) 1,1,2-Trichloroethane	9.153	97	1306	1.004 ug/l #	90
56) Ethyl methacrylate	9.135	69	1494	0.748 ug/l #	93
57) 1,3-Dichloropropane	9.311	76	2112	0.920 ug/l	97
58) 2-Chloroethyl Vinyl ether	8.251	63	4115	4.320 ug/l	95
59) 2-Hexanone	9.439	43	6582	4.153 ug/l	96
60) Dibromochloromethane	9.519	129	1152	0.835 ug/l	98
61) 1,2-Dibromoethane	9.610	107	1174	0.890 ug/l	97
64) Tetrachloroethene	9.275	164	1006	0.986 ug/l #	88
65) Chlorobenzene	10.080	112	3094	0.908 ug/l	90
66) 1,1,1,2-Tetrachloroethane	10.159	131	1078	0.978 ug/l #	65
67) Ethyl Benzene	10.195	91	5008	0.846 ug/l #	85
68) m/p-Xylenes	10.305	106	3552	1.630 ug/l	97
69) o-Xylene	10.640	106	1949	0.891 ug/l	95
70) Styrene	10.665	104	2810	0.802 ug/l	97
71) Bromoform	10.799	173	667	0.768 ug/l #	92
73) Isopropylbenzene	10.964	105	4405	0.858 ug/l	96
74) N-amyl acetate	10.854	43	1750	0.732 ug/l #	87
75) 1,1,2,2-Tetrachloroethane	11.213	83	1809	0.954 ug/l	88
76) 1,2,3-Trichloropropane	11.244	75	1531m	1.015 ug/l	
77) Bromobenzene	11.201	156	1166	0.972 ug/l	91
78) n-propylbenzene	11.305	91	4475	0.773 ug/l	97
79) 2-Chlorotoluene	11.366	91	3616	0.986 ug/l	98
80) 1,3,5-Trimethylbenzene	11.451	105	3386	0.815 ug/l	94
82) 4-Chlorotoluene	11.457	91	3631	0.904 ug/l	99
83) tert-Butylbenzene	11.713	119	3928	0.929 ug/l	96
84) 1,2,4-Trimethylbenzene	11.756	105	3432	0.827 ug/l	95
85) sec-Butylbenzene	11.890	105	3891	0.752 ug/l	100
86) p-Isopropyltoluene	12.012	119	3257	0.797 ug/l	94
87) 1,3-Dichlorobenzene	11.976	146	1948	0.913 ug/l	96
88) 1,4-Dichlorobenzene	12.043	146	2082m	0.962 ug/l	
89) n-Butylbenzene	12.335	91	2470	0.691 ug/l	93
90) Hexachloroethane	12.536	117	609	0.805 ug/l	94
91) 1,2-Dichlorobenzene	12.335	146	1918	0.890 ug/l	98
92) 1,2-Dibromo-3-Chloropr...	12.945	75	308	0.859 ug/l	82
93) 1,2,4-Trichlorobenzene	13.591	180	866	0.706 ug/l	93
94) Hexachlorobutadiene	13.725	225	462	0.917 ug/l	94
95) Naphthalene	13.780	128	3337	0.707 ug/l #	94
96) 1,2,3-Trichlorobenzene	13.963	180	969	0.759 ug/l	93

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

Quantitation Report (QT Reviewed)

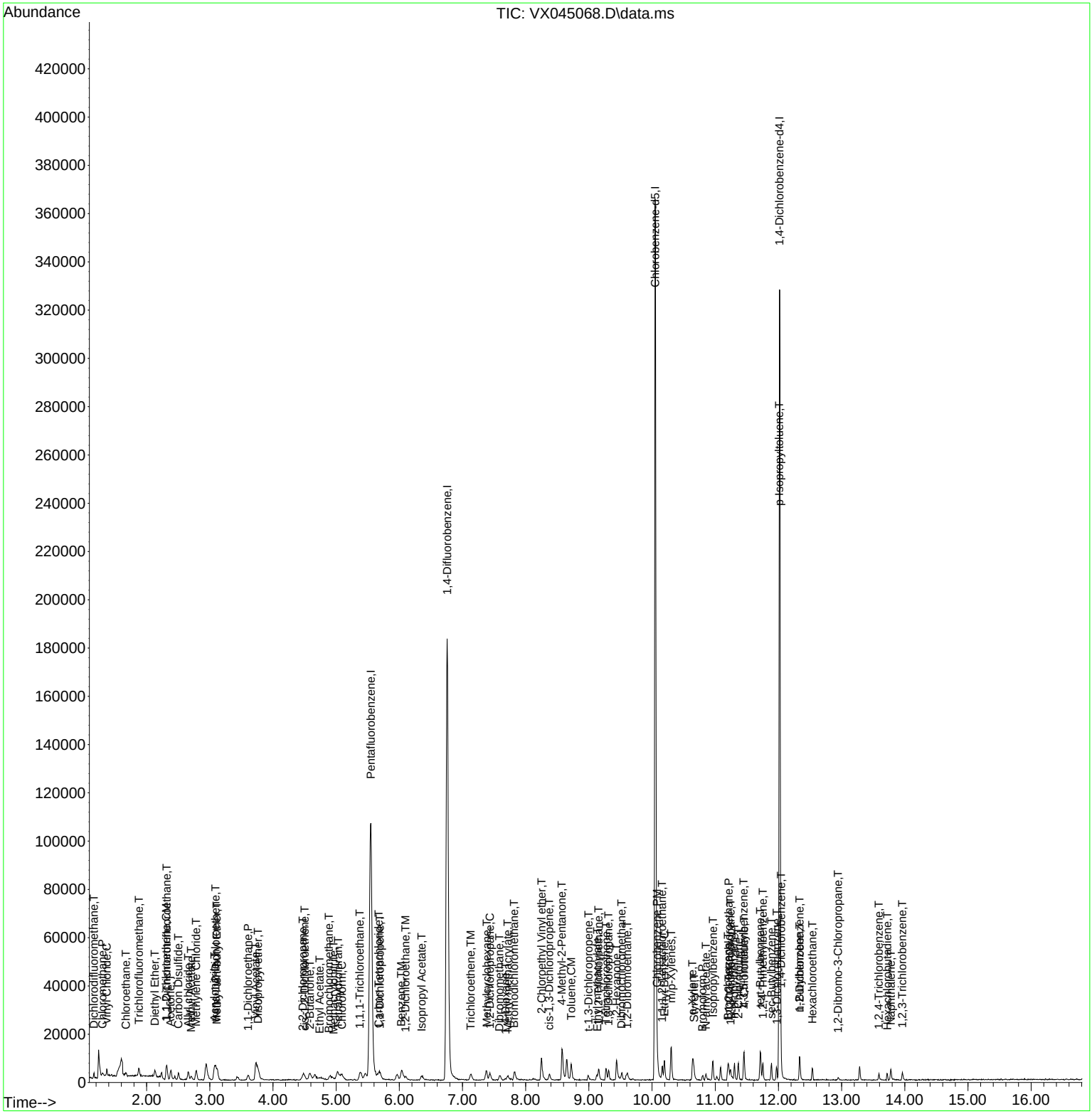
ICAL Form

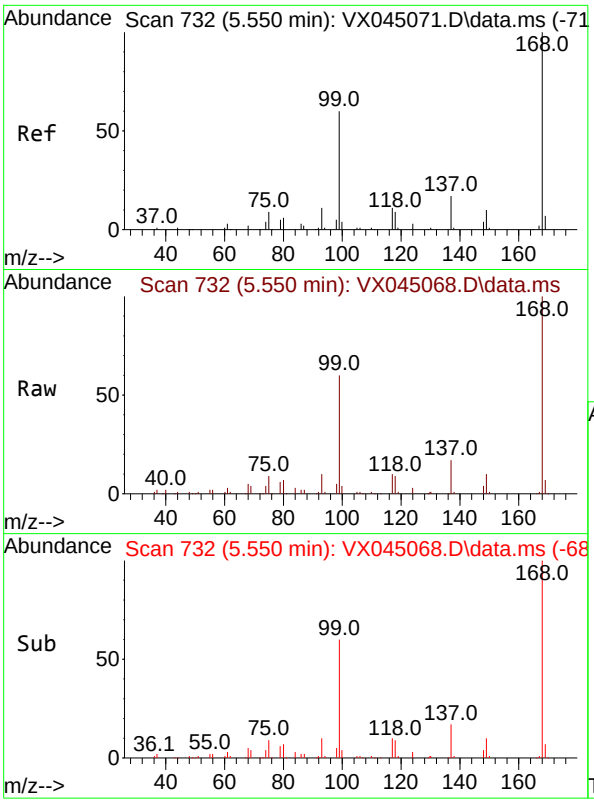
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045068.D
Acq On : 28 Feb 2025 01:27
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Feb 28 06:28:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:18:23 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion:168 Resp: 10276

Ion	Ratio	Lower	Upper
168	100		
99	59.9	48.2	72.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
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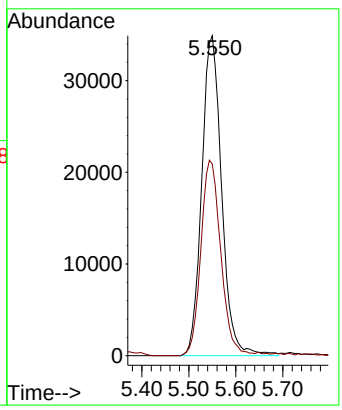
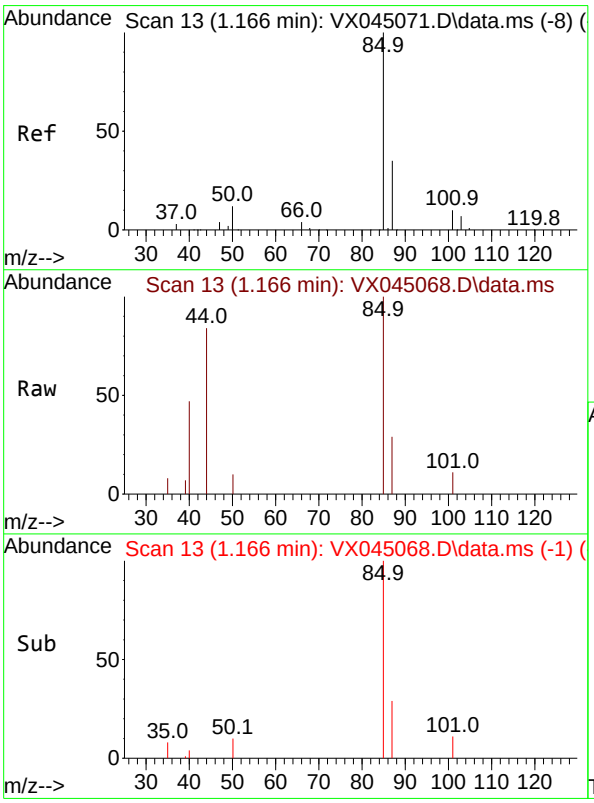
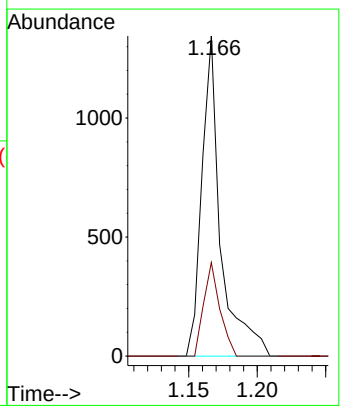


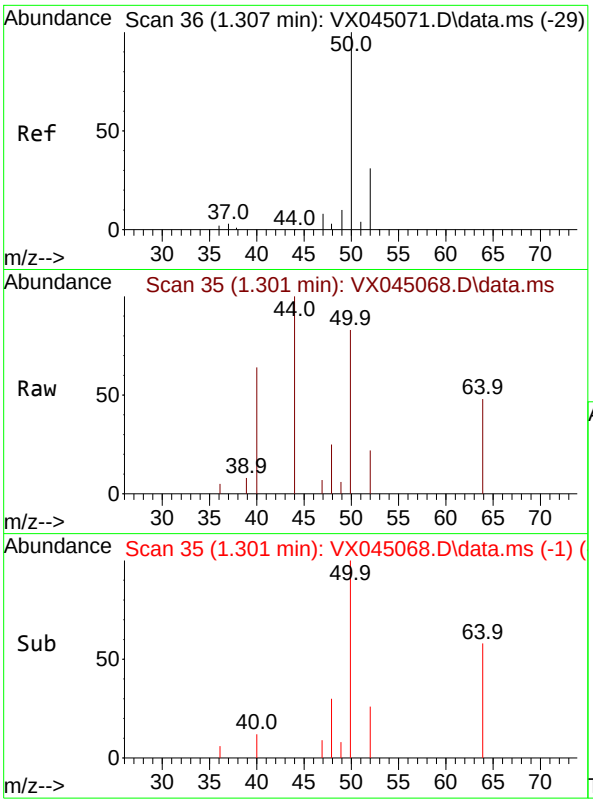


#2
Dichlorodifluoromethane
Concen: 1.007 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 85 Resp: 1282

Ion	Ratio	Lower	Upper
85	100		
87	29.2	17.4	52.3





#3
Chloromethane
Concen: 0.975 ug/l
RT: 1.301 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 50 Resp: 155

Ion	Ratio	Lower	Upper
50	100		
52	26.3	25.0	37.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

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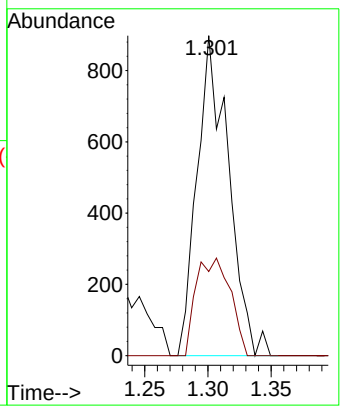
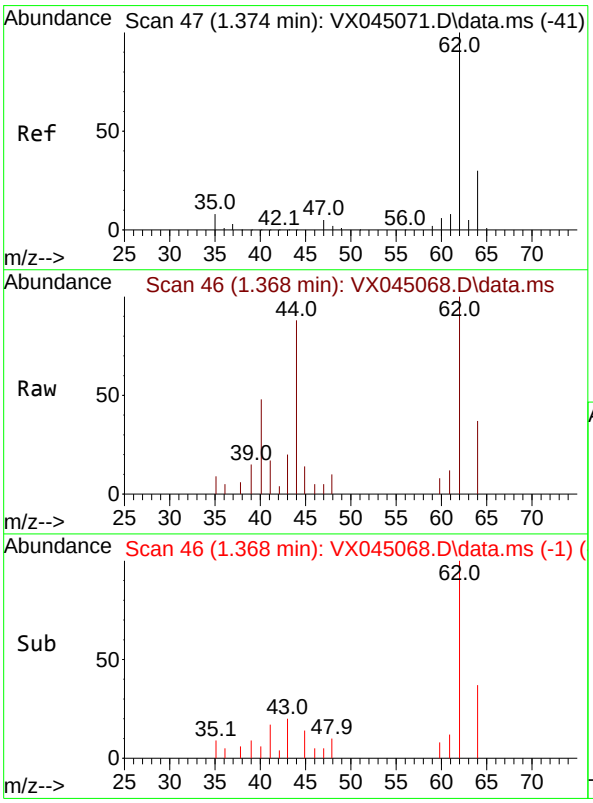
Supervised By :Mahesh Dadoda 02/28/2025

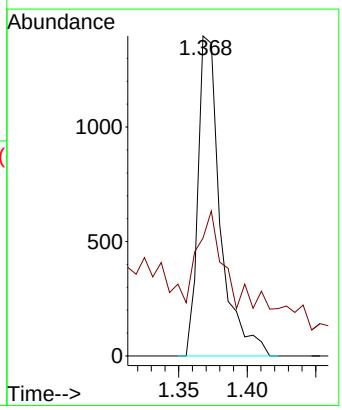


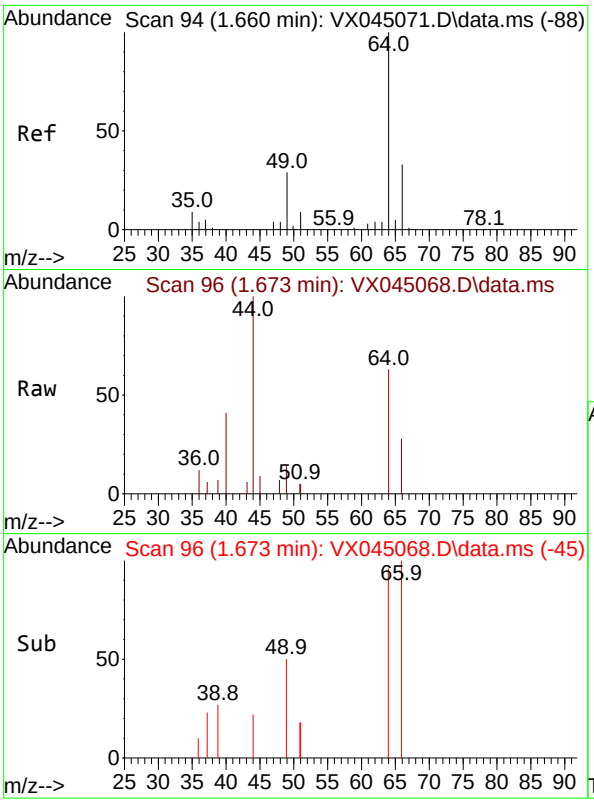


#4
Vinyl Chloride
Concen: 1.008 ug/l
RT: 1.368 min Scan# 46
Delta R.T. -0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 62 Resp: 1588

Ion	Ratio	Lower	Upper
62	100		
64	22.0	24.3	36.5#





#6
Chloroethane
Concen: 0.992 ug/l m
RT: 1.673 min Scan# 9
Delta R.T. 0.012 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

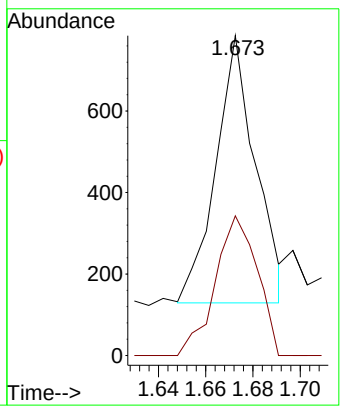
Tgt Ion: 64 Resp: 76

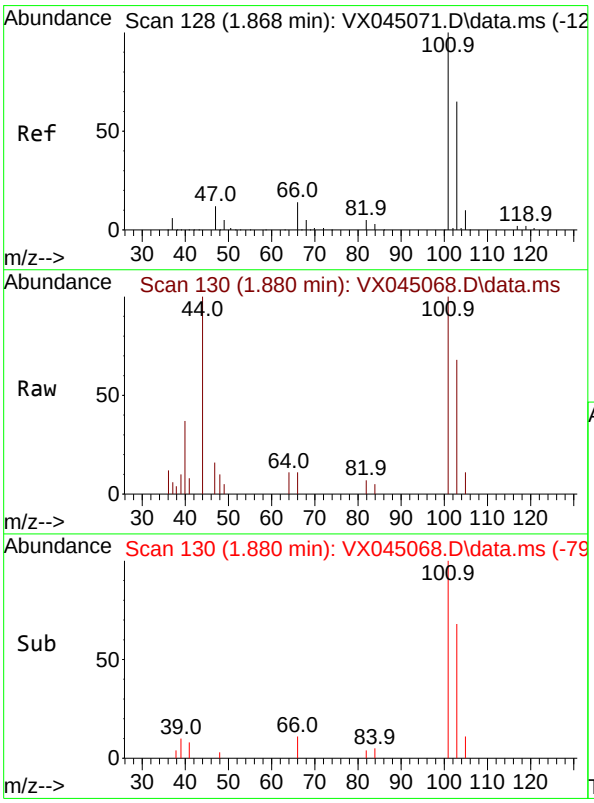
Ion	Ratio	Lower	Upper
64	100		
66	43.7	26.7	40.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

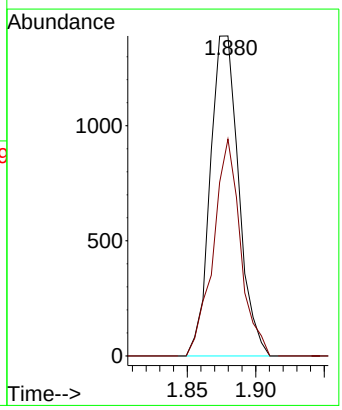


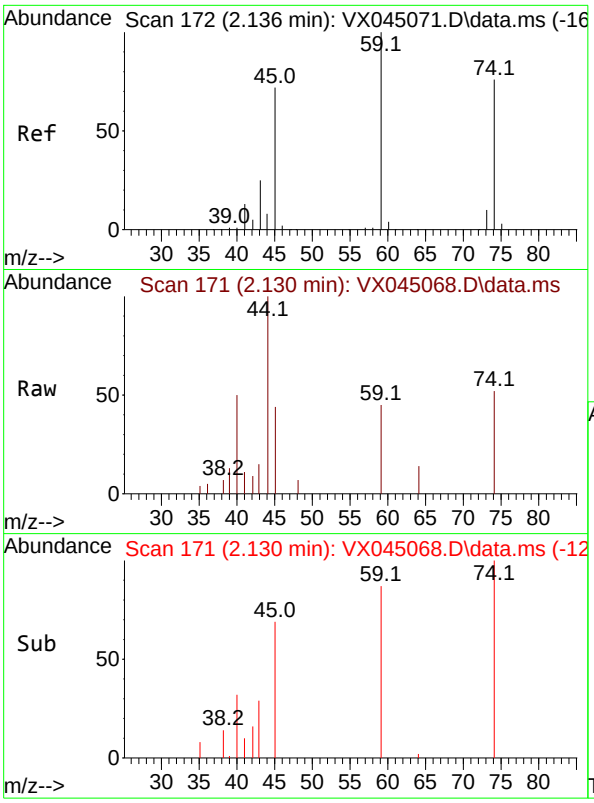


#7
Trichlorofluoromethane
Concen: 0.957 ug/l
RT: 1.880 min Scan# 130
Delta R.T. 0.012 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion:101 Resp: 2011

Ion	Ratio	Lower	Upper
101	100		
103	67.8	52.1	78.1





#8
Diethyl Ether
Concen: 1.045 ug/l
RT: 2.130 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 74 Resp: 83

Ion	Ratio	Lower	Upper
74	100		
45	123.5	51.5	154.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

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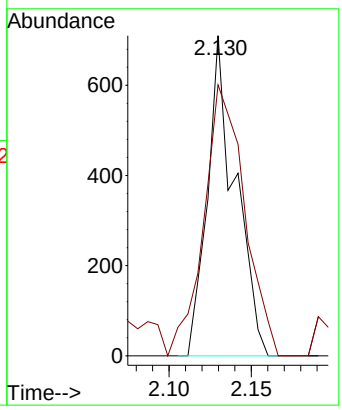
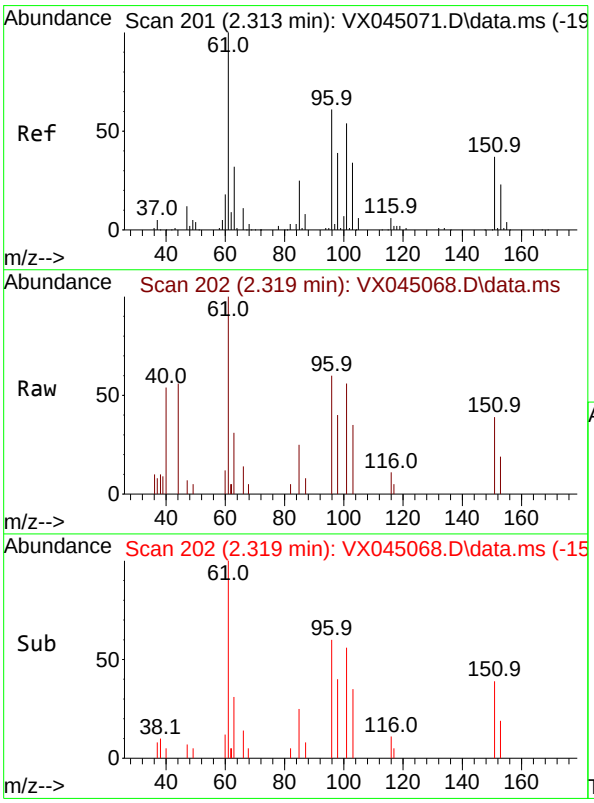
Supervised By :Mahesh Dadoda 02/28/2025

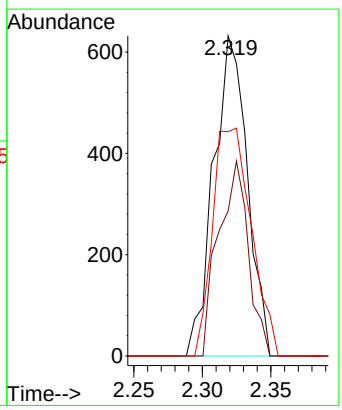


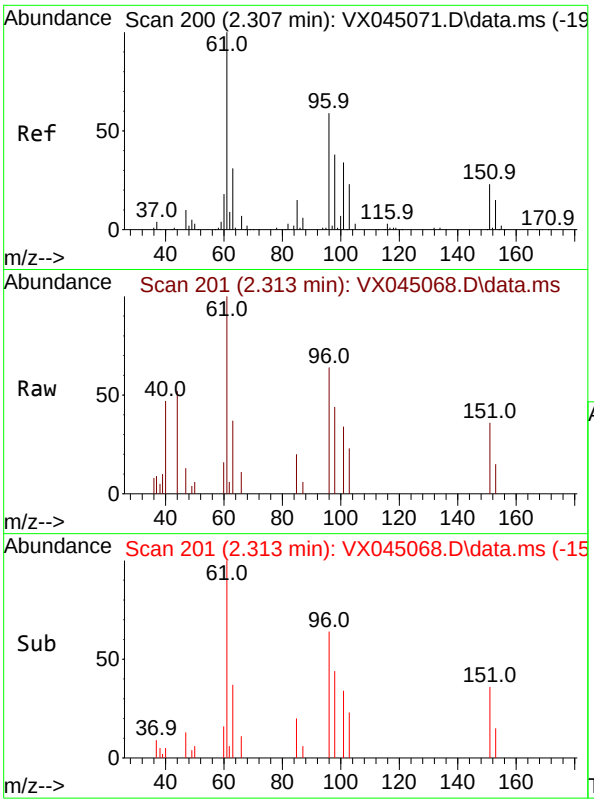


#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.884 ug/l
RT: 2.319 min Scan# 202
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion:101 Resp: 1081

Ion	Ratio	Lower	Upper
101	100		
85	53.7	36.2	54.4
151	81.9	56.4	84.6





#12
1,1-Dichloroethene
Concen: 0.991 ug/l
RT: 2.313 min Scan# 2(
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 96 Resp: 125:

Ion	Ratio	Lower	Upper
96	100		
61	157.4	134.6	202.0
98	70.0	51.0	76.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

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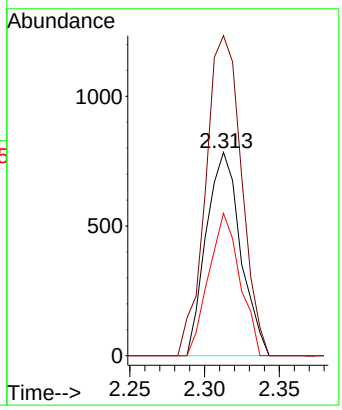
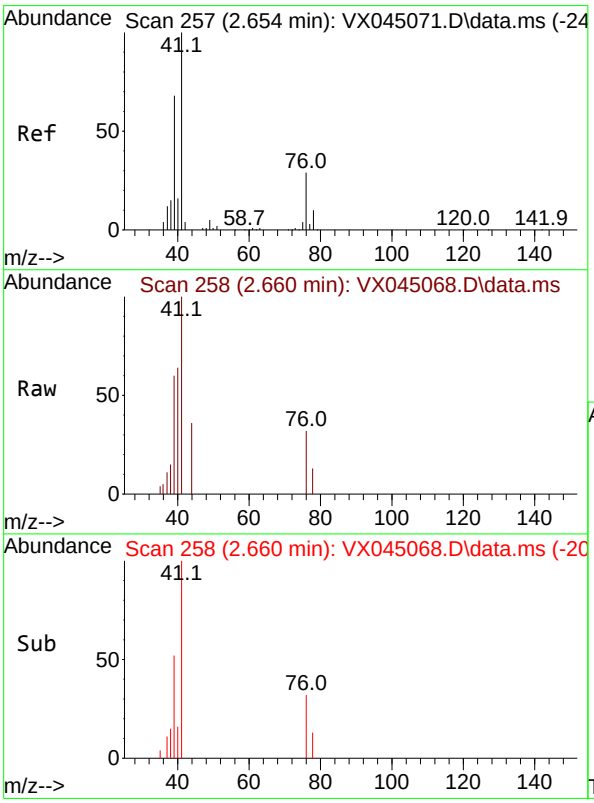
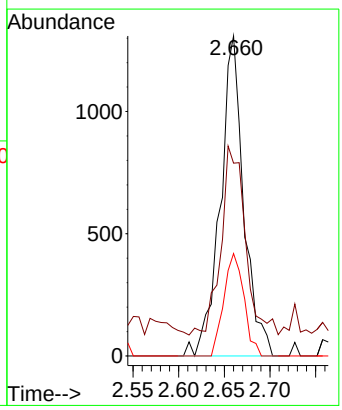


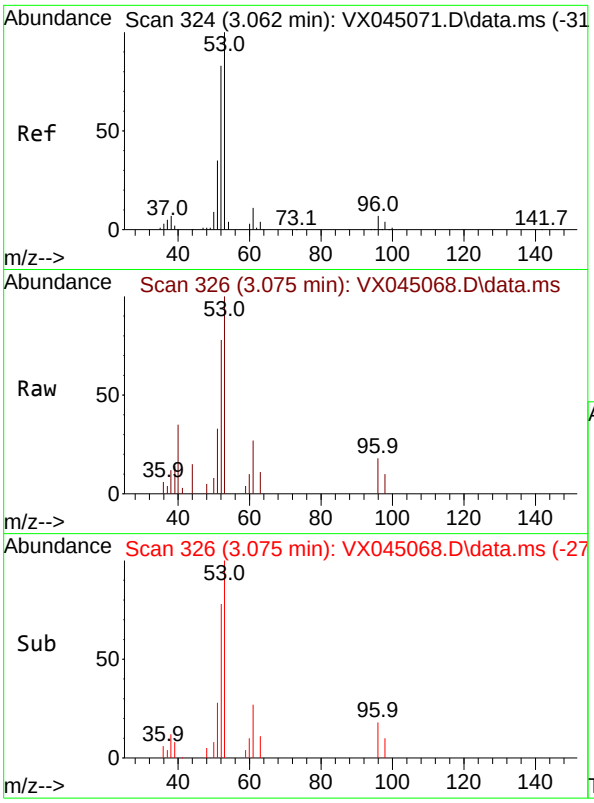


#14
Allyl chloride
Concen: 1.055 ug/l
RT: 2.660 min Scan# 258
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 41 Resp: 2343

Ion	Ratio	Lower	Upper
41	100		
39	62.3	53.8	80.8
76	27.4	25.2	37.8





#15
Acrylonitrile
Concen: 4.931 ug/l
RT: 3.075 min Scan# 3
Delta R.T. 0.012 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

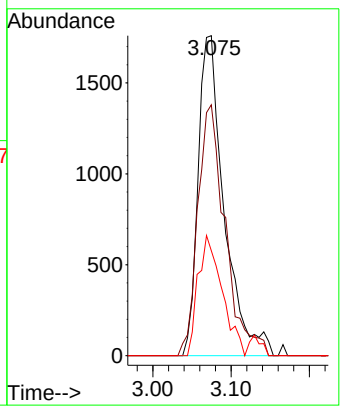
Tgt Ion: 53 Resp: 406

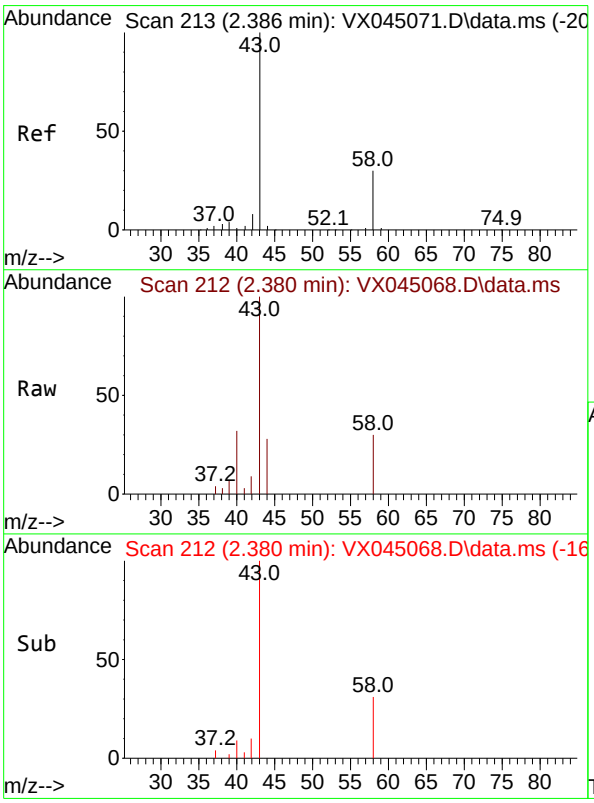
Ion	Ratio	Lower	Upper
53	100		
52	82.6	66.2	99.2
51	34.6	29.0	43.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

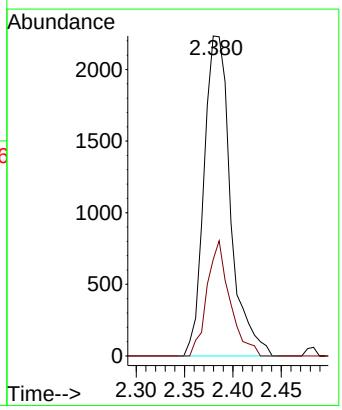


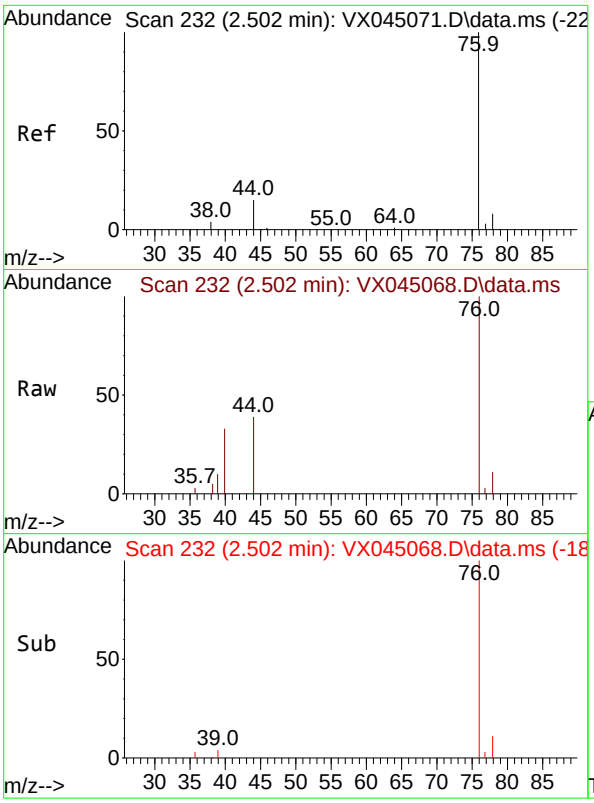


#16
Acetone
Concen: 5.635 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 43 Resp: 4259

Ion	Ratio	Lower	Upper
43	100		
58	30.2	24.2	36.4





#17
Carbon Disulfide
Concen: 0.956 ug/l
RT: 2.502 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

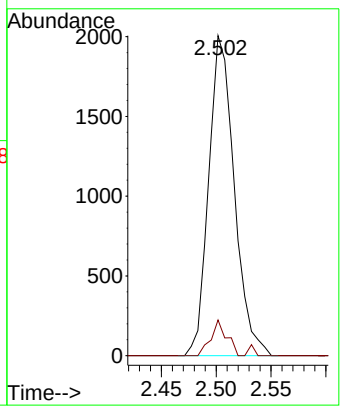
Tgt Ion: 76 Resp: 325

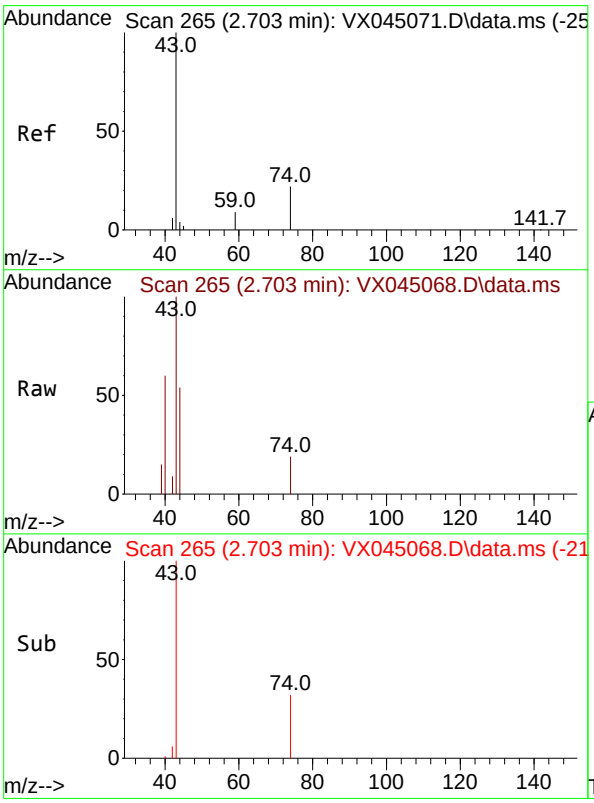
Ion	Ratio	Lower	Upper
76	100		
78	11.2	6.6	9.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

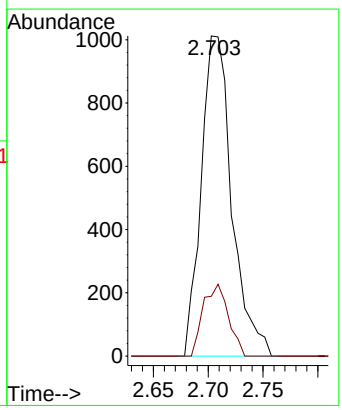


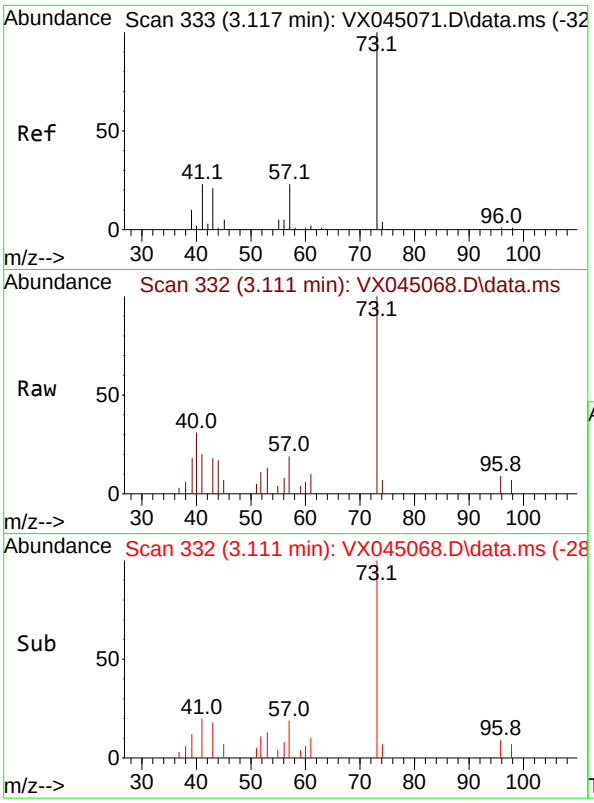


#18
Methyl Acetate
Concen: 1.066 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 43 Resp: 1960

Ion	Ratio	Lower	Upper
43	100		
74	18.5	17.4	26.2





#19
Methyl tert-butyl Ether
Concen: 0.943 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 73 Resp: 401

Ion	Ratio	Lower	Upper
73	100		
57	19.0	18.5	27.7

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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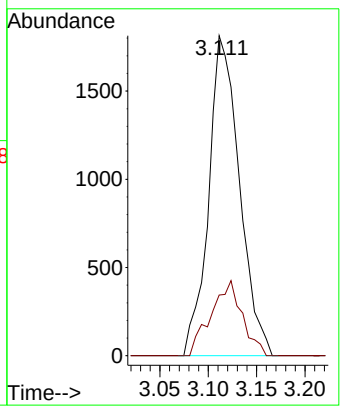
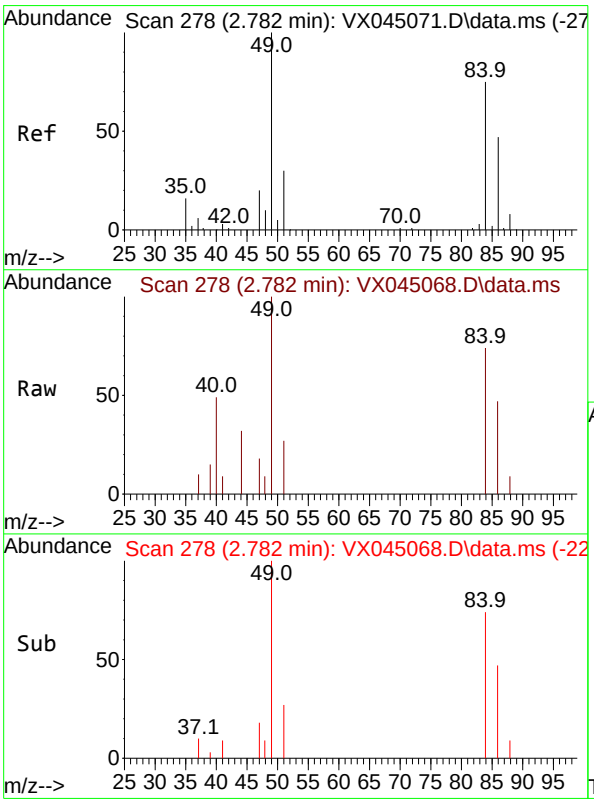
Supervised By :Mahesh Dadoda 02/28/2025

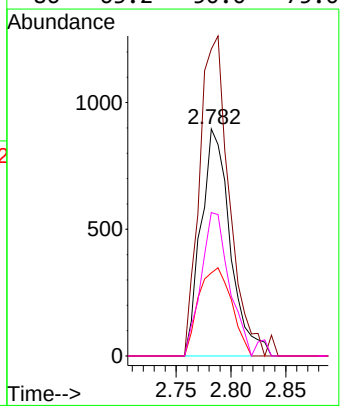


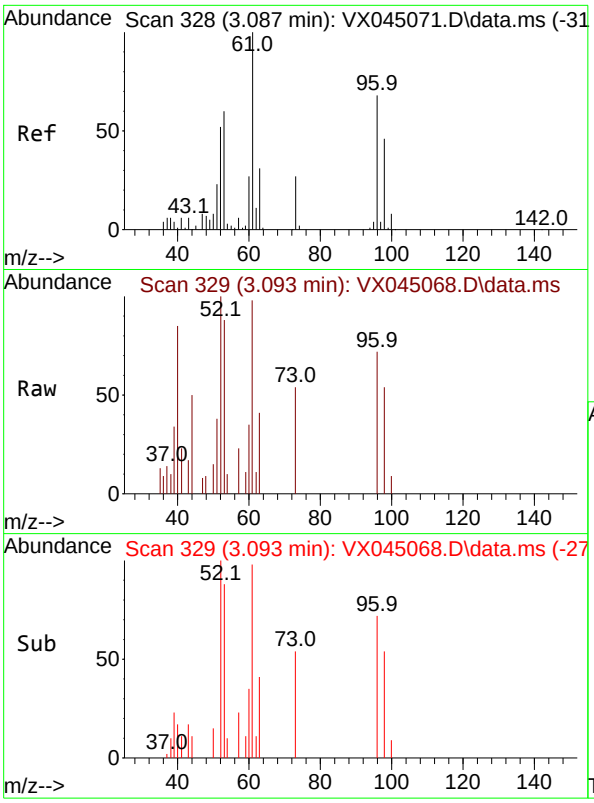


#20
Methylene Chloride
Concen: 1.095 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 84 Resp: 1656

Ion	Ratio	Lower	Upper
84	100		
49	135.2	106.5	159.7
51	36.6	32.1	48.1
86	63.2	50.0	75.0





#21
trans-1,2-Dichloroethene
Concen: 0.869 ug/l
RT: 3.093 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 96 Resp: 110

Ion	Ratio	Lower	Upper
96	100		
61	136.4	117.0	175.4
98	75.6	53.4	80.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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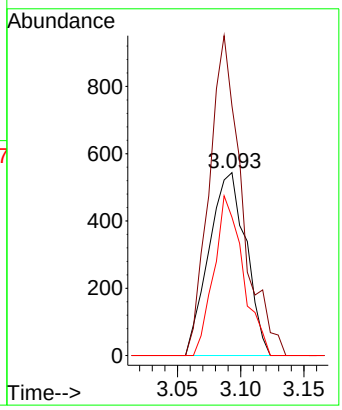
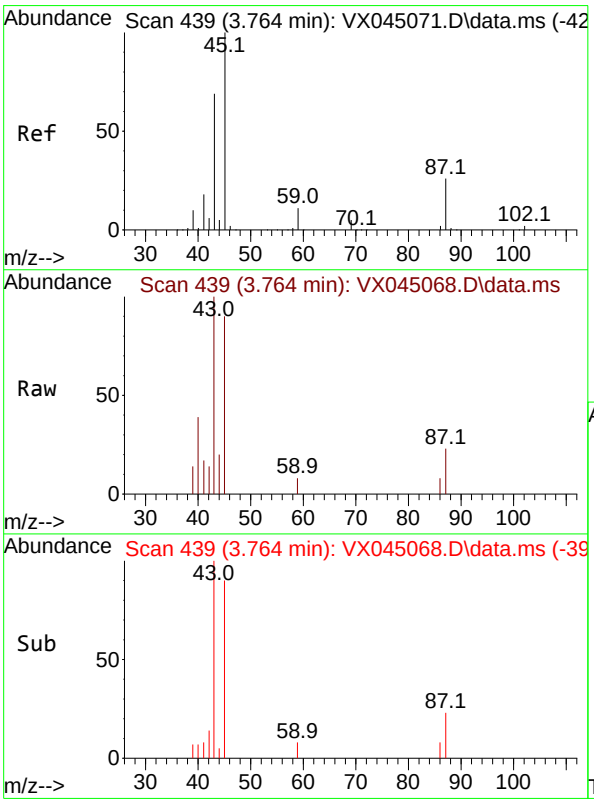
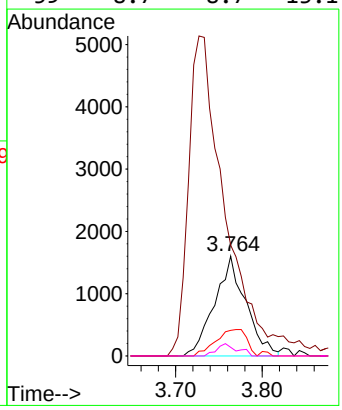


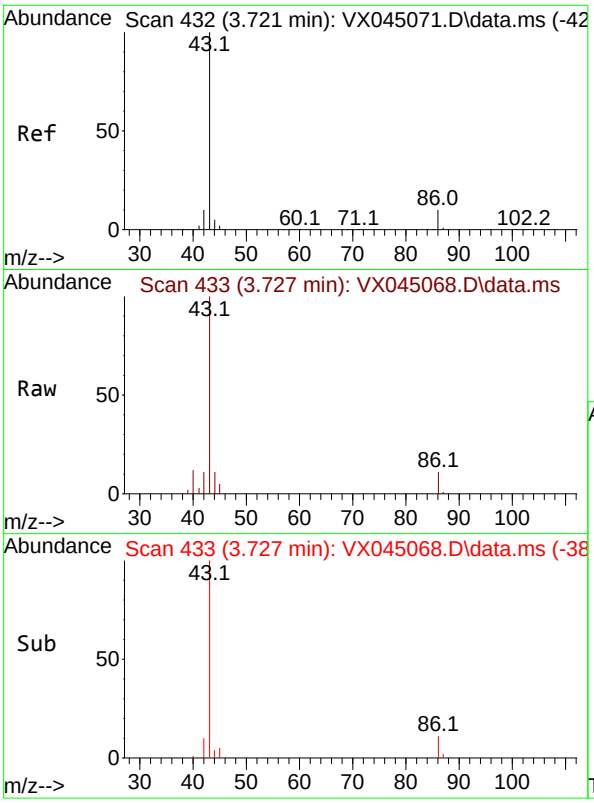


#22
Diisopropyl ether
Concen: 0.871 ug/l
RT: 3.764 min Scan# 439
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 45 Resp: 4026

Ion	Ratio	Lower	Upper
45	100		
43	91.9	54.9	82.3#
87	25.6	21.0	31.4
59	8.7	8.7	13.1





#23
Vinyl Acetate
Concen: 3.971 ug/l
RT: 3.727 min Scan# 4
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 43 Resp: 1527

Ion	Ratio	Lower	Upper
43	100		
86	11.1	8.1	12.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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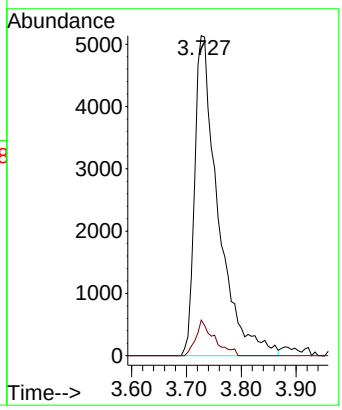
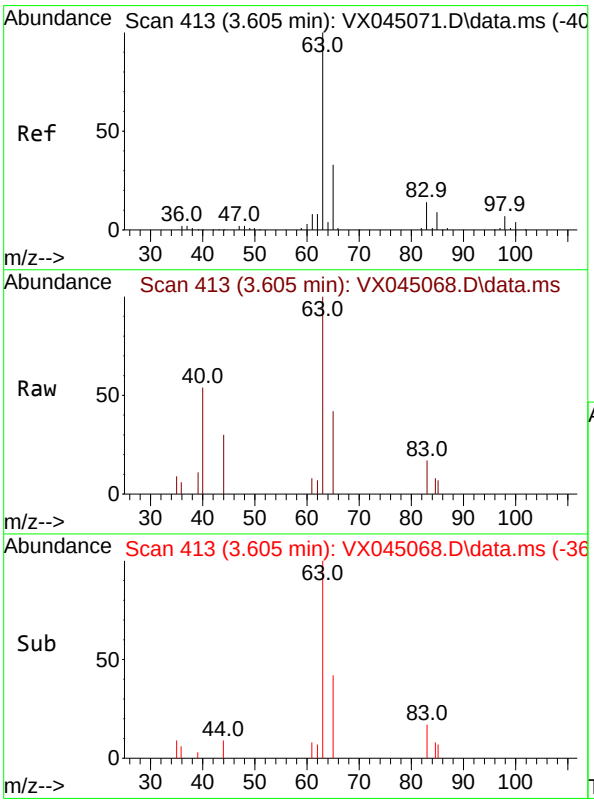
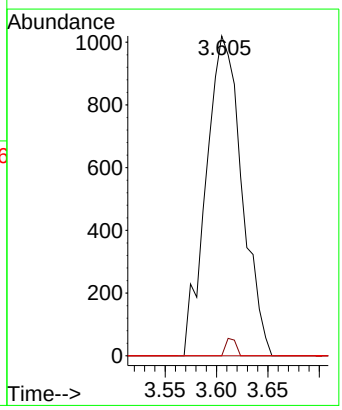


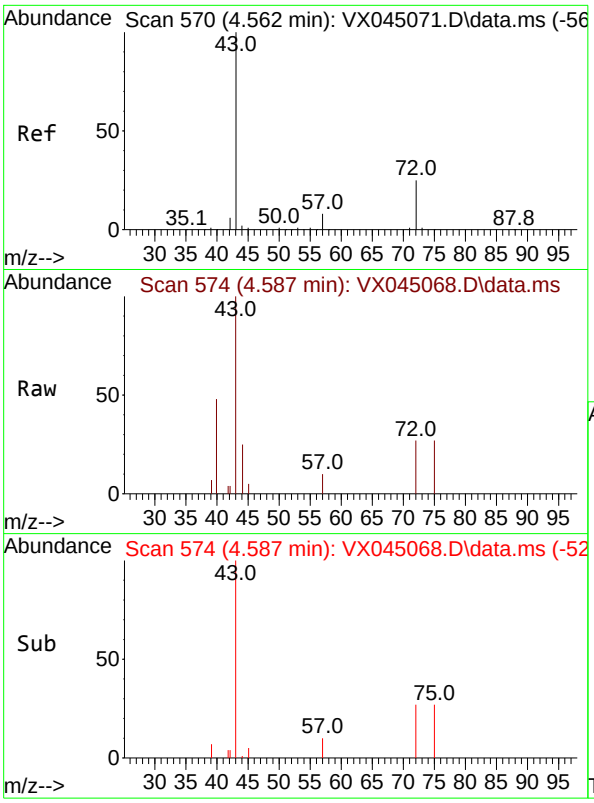


#24
1,1-Dichloroethane
Concen: 0.958 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 63 Resp: 2467

Ion	Ratio	Lower	Upper
63	100		
98	0.0	3.4	10.2#
100	0.0	2.1	6.5#





#25
2-Butanone
Concen: 4.252 ug/l
RT: 4.587 min Scan# 5
Delta R.T. 0.024 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 43 Resp: 489

Ion	Ratio	Lower	Upper
43	100		
72	27.2	20.0	30.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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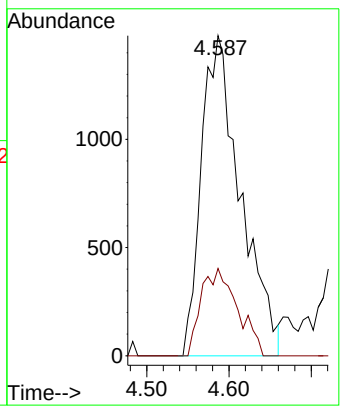
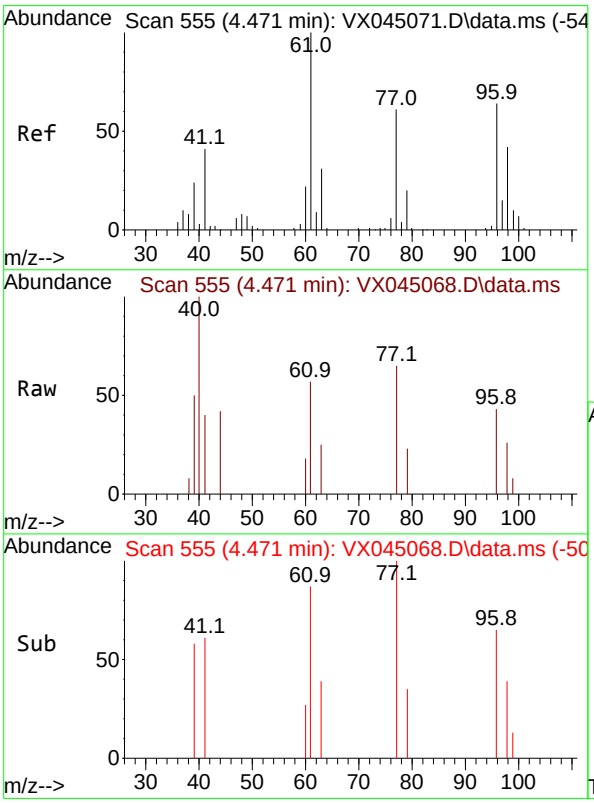
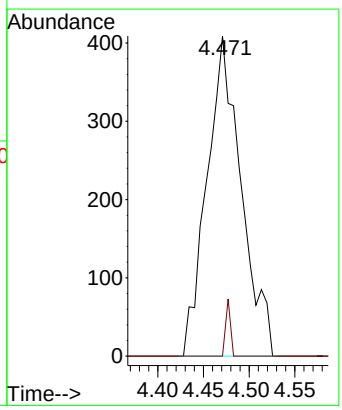


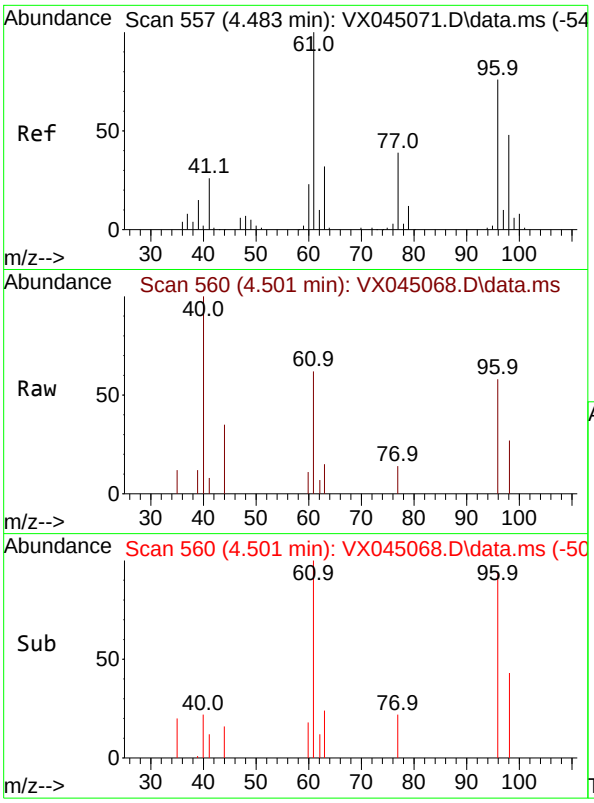


#26
2,2-Dichloropropane
Concen: 0.872 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 77 Resp: 1066

Ion	Ratio	Lower	Upper
77	100		
97	2.5	12.4	37.0#





#27
cis-1,2-Dichloroethene
Concen: 0.902 ug/l
RT: 4.501 min Scan# 5
Delta R.T. 0.018 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 96 Resp: 141

Ion	Ratio	Lower	Upper
96	100		
61	0.0	0.0	283.2
98	59.1	0.0	128.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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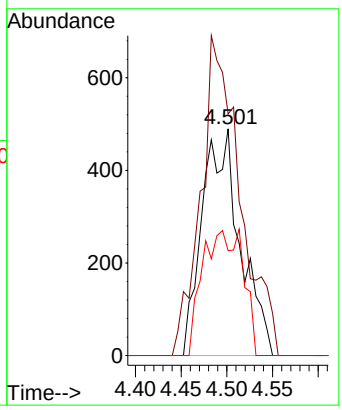
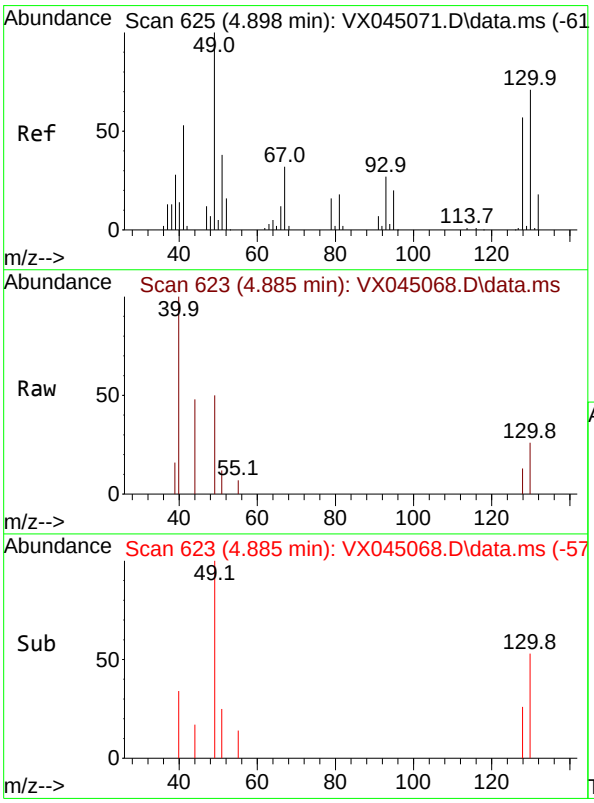
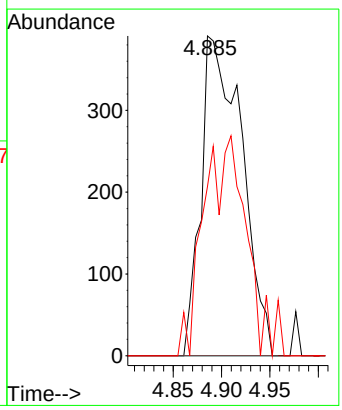


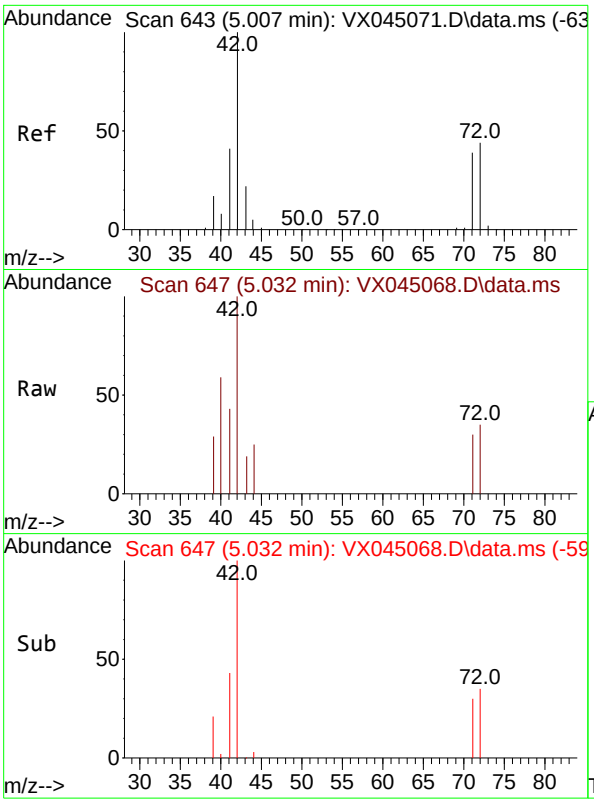


#28
Bromochloromethane
Concen: 0.958 ug/l
RT: 4.885 min Scan# 623
Delta R.T. -0.012 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 49 Resp: 1144

Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.4
130	31.5	56.1	84.1#





#29
Tetrahydrofuran
Concen: 4.809 ug/l
RT: 5.032 min Scan# 64
Delta R.T. 0.024 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 42 Resp: 3719

Ion	Ratio	Lower	Upper
42	100		
72	0.0	34.1	51.1#
71	0.0	31.4	47.0#

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
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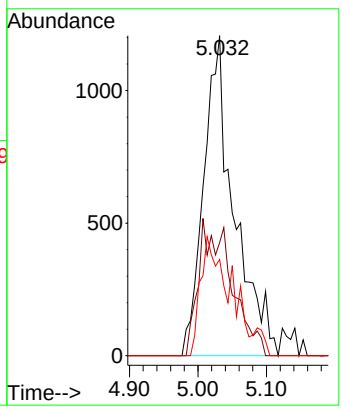
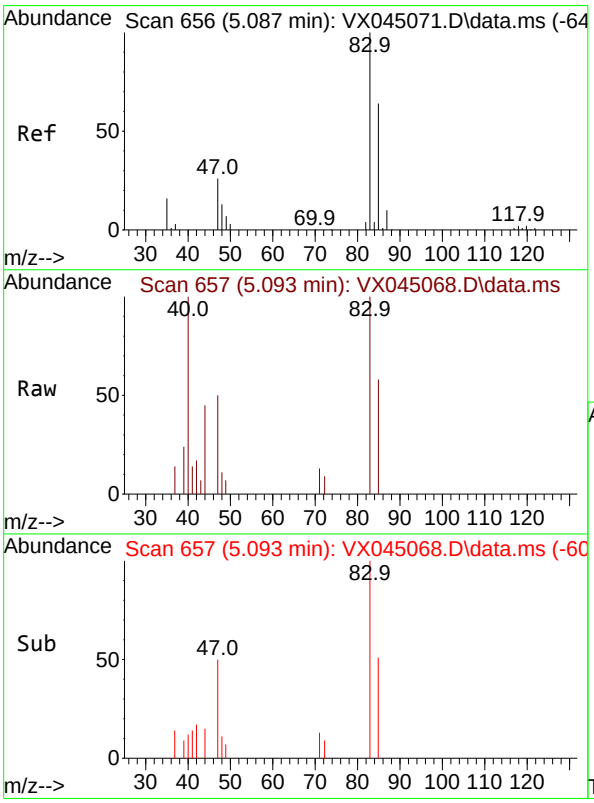
Supervised By :Mahesh Dadoda 02/28/2025

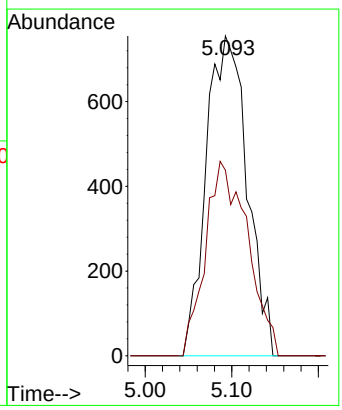


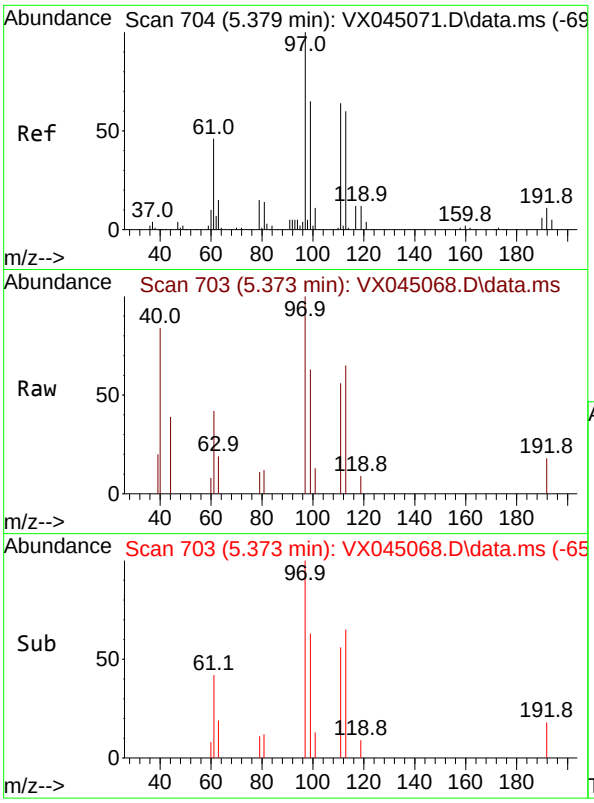


#30
Chloroform
Concen: 0.978 ug/l
RT: 5.093 min Scan# 657
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 83 Resp: 2478

Ion	Ratio	Lower	Upper
83	100		
85	58.0	51.4	77.2





#32
1,1,1-Trichloroethane
Concen: 0.893 ug/l
RT: 5.373 min Scan# 7(
Delta R.T. -0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 97 Resp: 186

Ion	Ratio	Lower	Upper
97	100		
99	0.0	51.6	77.4#
61	50.0	38.4	57.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
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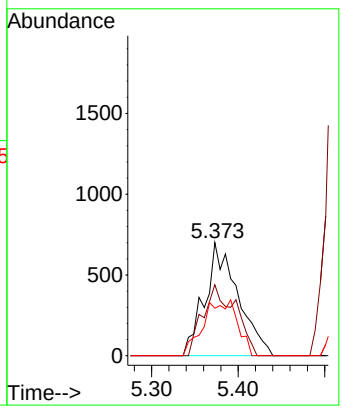
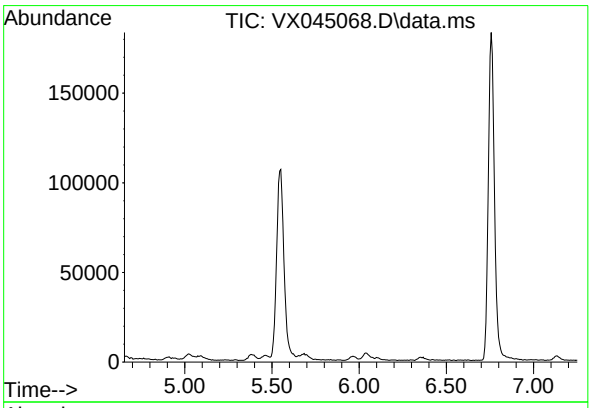


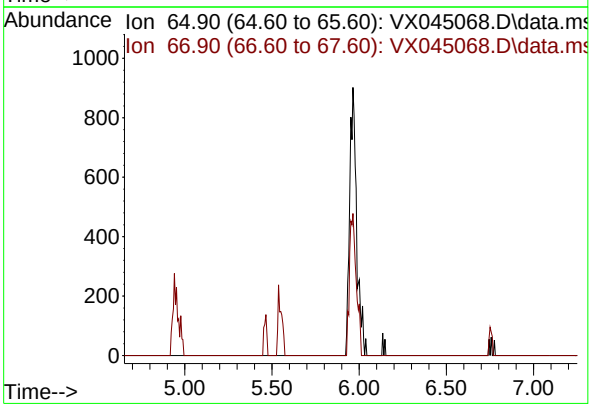


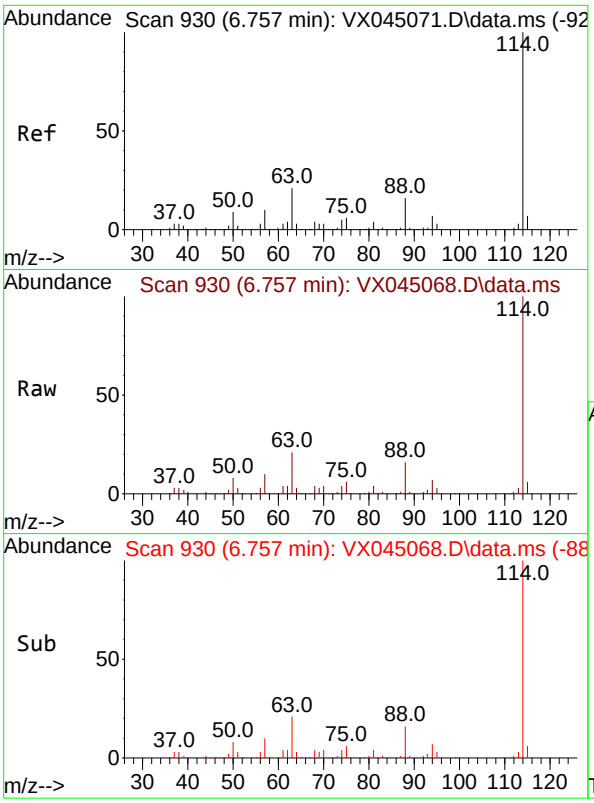
#33
1,2-Dichloroethane-d4
Concen: 0.000 ug/l
Expected RT: 5.95 min

Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 65

Sig	Exp Ratio
65	100
67	53.1





#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 9
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion:114 Resp: 18864

Ion	Ratio	Lower	Upper
114	100		
63	21.4	0.0	41.8
88	16.0	0.0	32.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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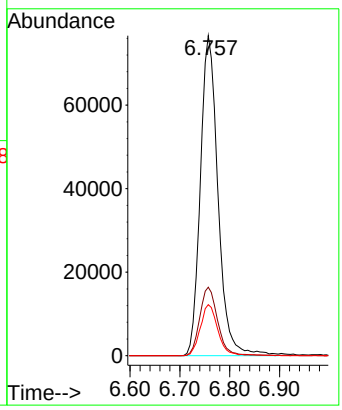
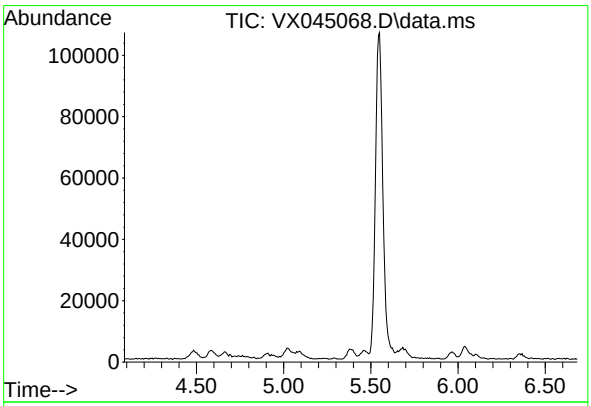


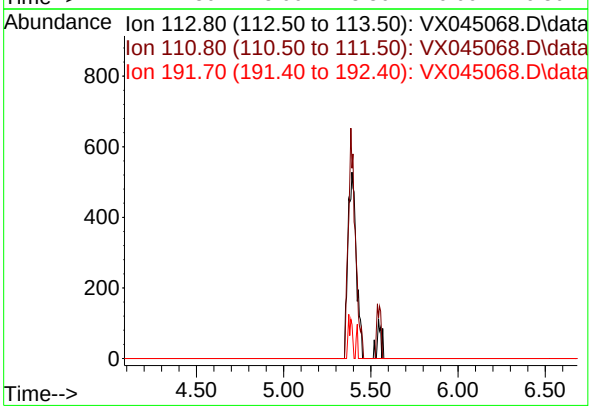


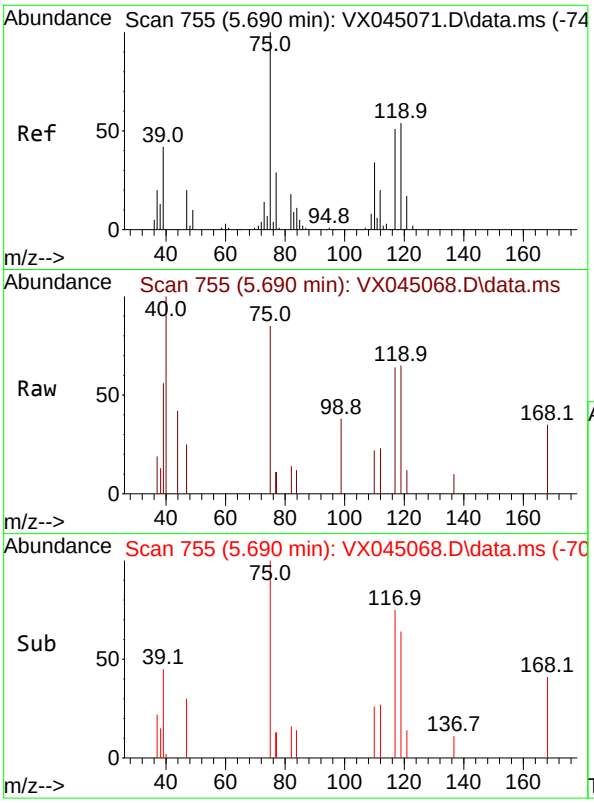
#35
Dibromofluoromethane
Concen: 0.000 ug/l
Expected RT: 5.39 min

Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 113

Sig	Exp Ratio
113	100
111	102.2
192	17.9





#36
1,1-Dichloropropene
Concen: 0.967 ug/l
RT: 5.690 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 75 Resp: 168

Ion	Ratio	Lower	Upper
75	100		
110	29.6	16.9	50.6
77	16.4	24.5	36.7#

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
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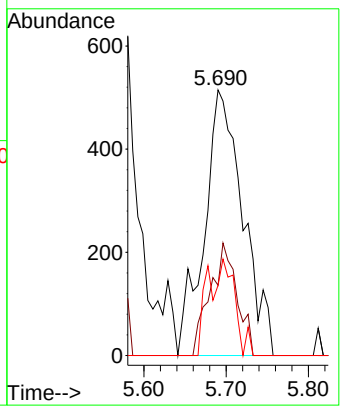
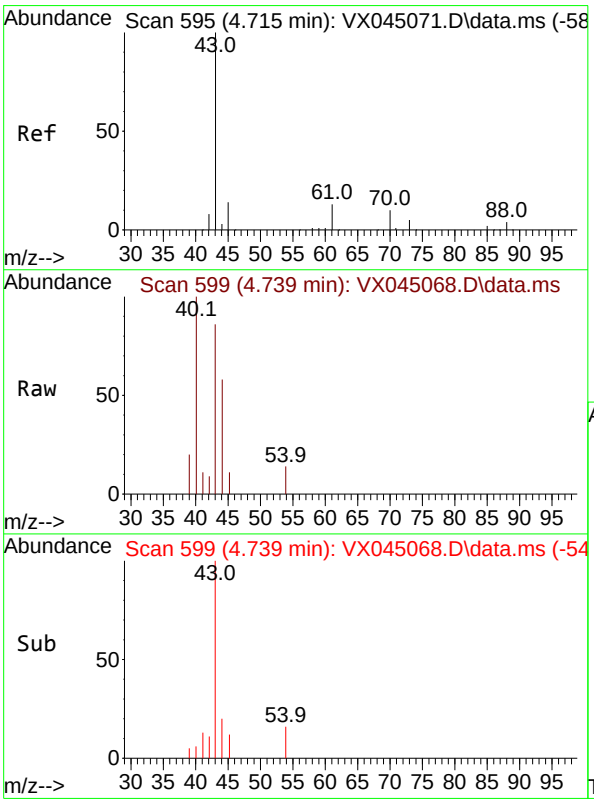
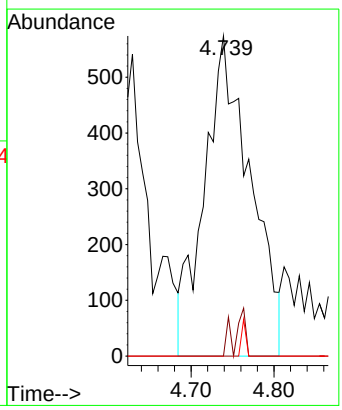


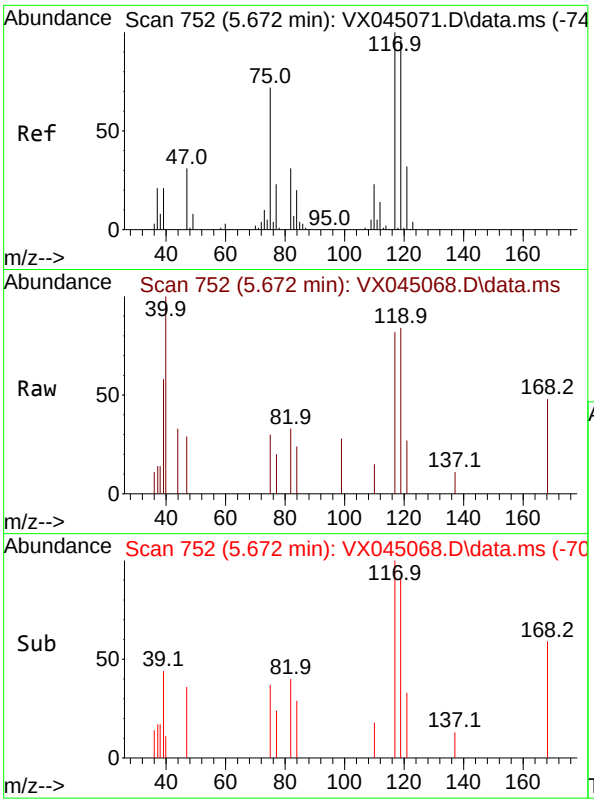


#37
Ethyl Acetate
Concen: 0.988 ug/l m
RT: 4.739 min Scan# 599
Delta R.T. 0.024 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 43 Resp: 2223

Ion	Ratio	Lower	Upper
43	100		
61	0.0	10.8	16.2#
70	0.0	7.7	11.5#





#38
Carbon Tetrachloride
Concen: 0.987 ug/l m
RT: 5.672 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

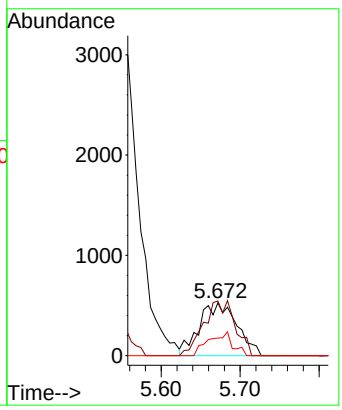
Tgt Ion:117 Resp: 174

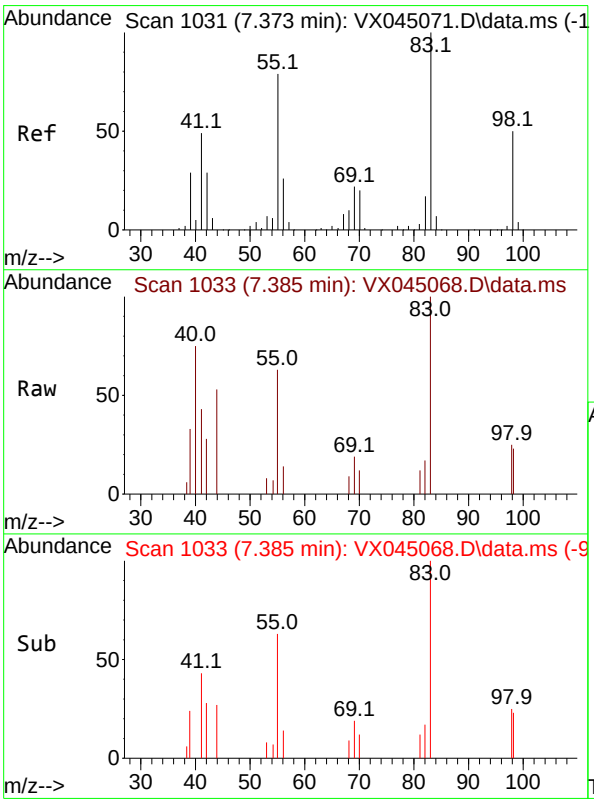
Ion	Ratio	Lower	Upper
117	100		
119	103.4	76.7	115.1
121	33.2	25.5	38.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

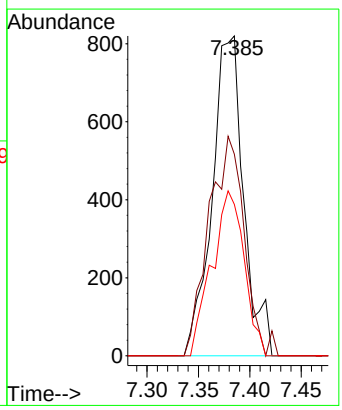


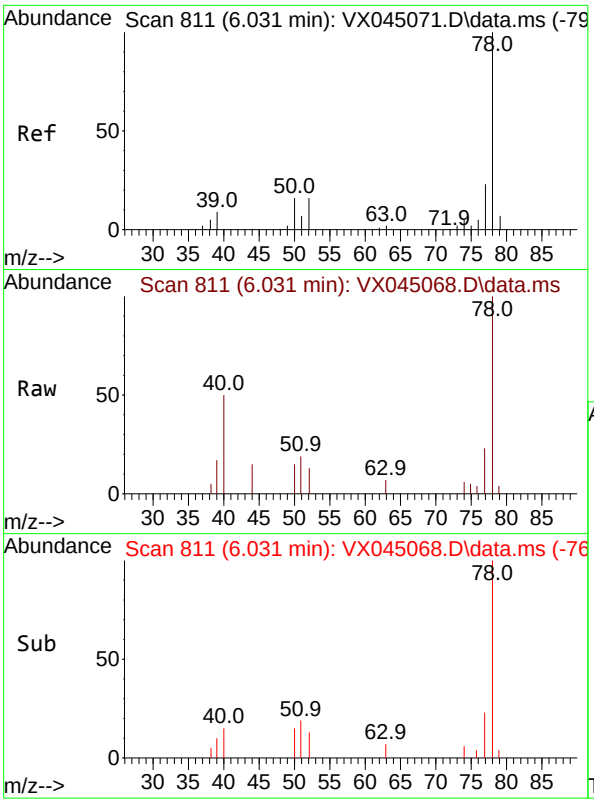


#39
Methylcyclohexane
Concen: 0.831 ug/l
RT: 7.385 min Scan# 1033
Delta R.T. 0.012 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 83 Resp: 1750

Ion	Ratio	Lower	Upper
83	100		
55	63.0	63.0	94.4
98	47.3	39.7	59.5





#40
Benzene
Concen: 0.907 ug/l
RT: 6.031 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 78 Resp: 498

Ion	Ratio	Lower	Upper
78	100		
77	23.2	18.8	28.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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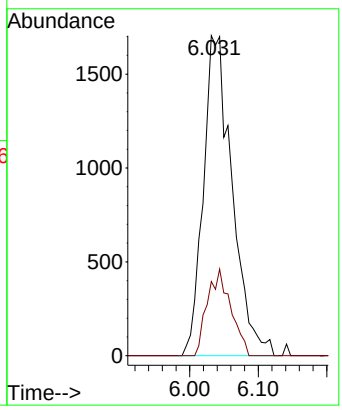
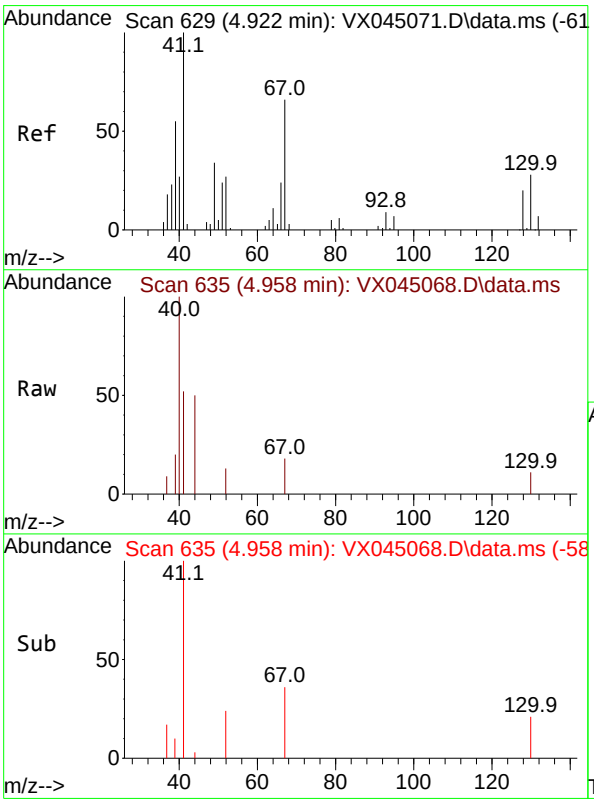
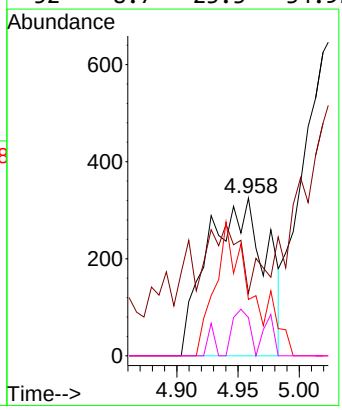


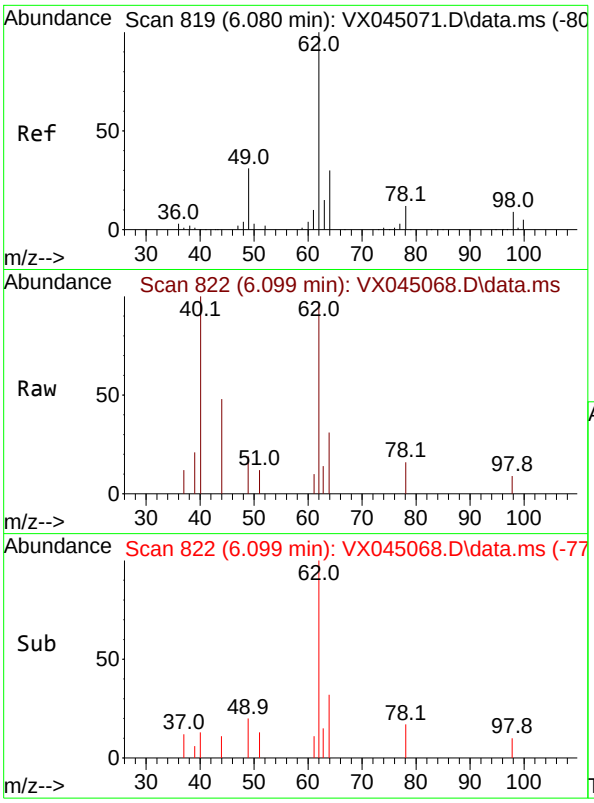


#41
Methacrylonitrile
Concen: 0.879 ug/l m
RT: 4.958 min Scan# 635
Delta R.T. 0.037 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 41 Resp: 1072

Ion	Ratio	Lower	Upper
41	100		
39	29.2	44.6	67.0#
67	53.9	53.9	80.9#
52	8.7	23.3	34.9#





#42
1,2-Dichloroethane
Concen: 0.924 ug/l
RT: 6.099 min Scan# 8
Delta R.T. 0.018 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 62 Resp: 183

Ion	Ratio	Lower	Upper
62	100		
98	1.2	0.0	18.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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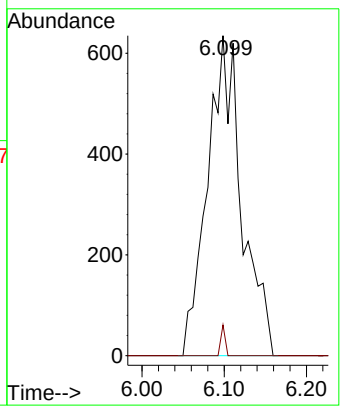
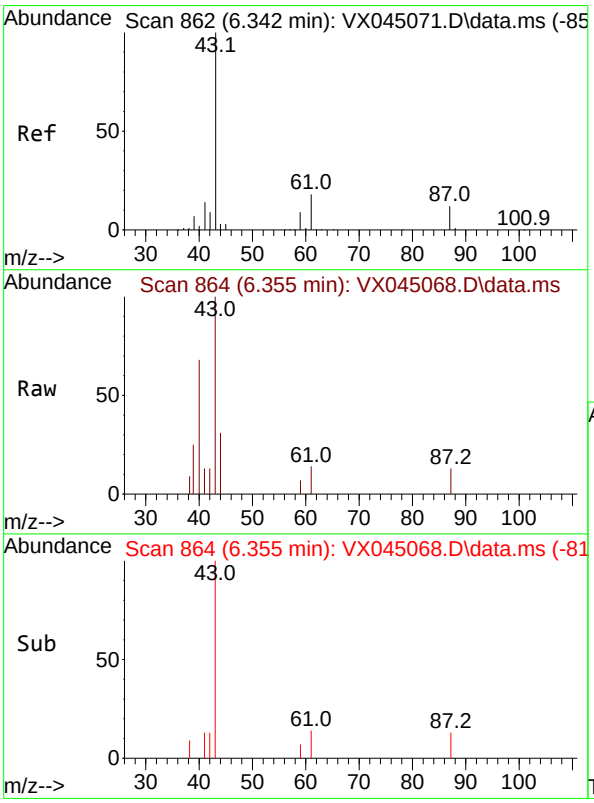
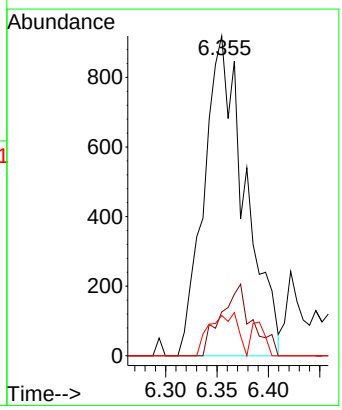


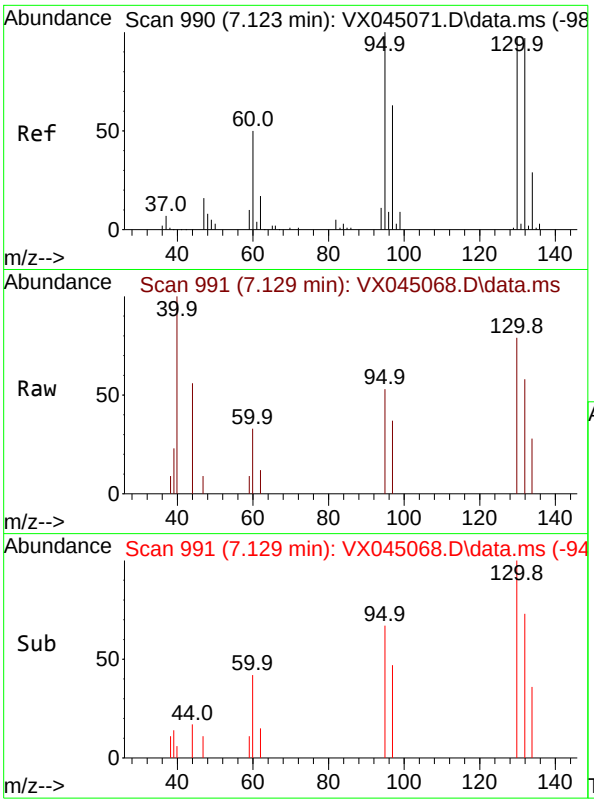


#43
Isopropyl Acetate
Concen: 0.767 ug/l
RT: 6.355 min Scan# 864
Delta R.T. 0.012 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 43 Resp: 2545

Ion	Ratio	Lower	Upper
43	100		
61	17.0	14.9	22.3
87	9.2	9.4	14.2#





#44
Trichloroethene
Concen: 0.933 ug/l
RT: 7.129 min Scan# 9
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion:130 Resp: 120

Ion	Ratio	Lower	Upper
130	100		
95	67.0	0.0	205.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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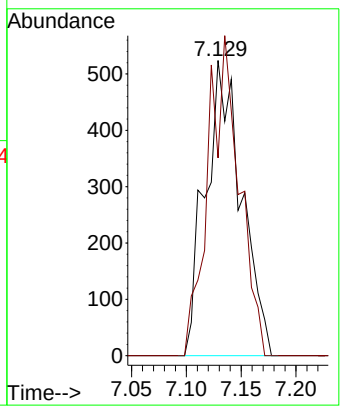
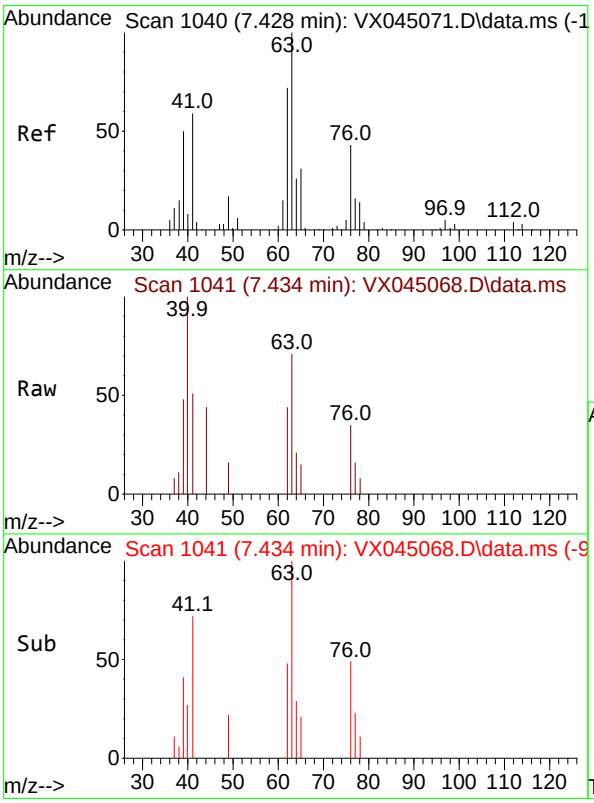
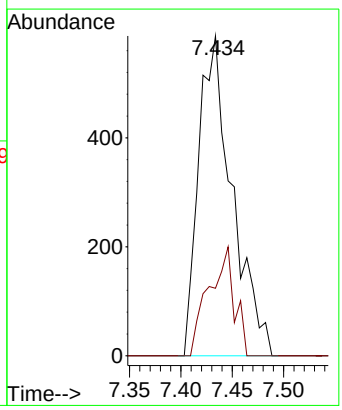


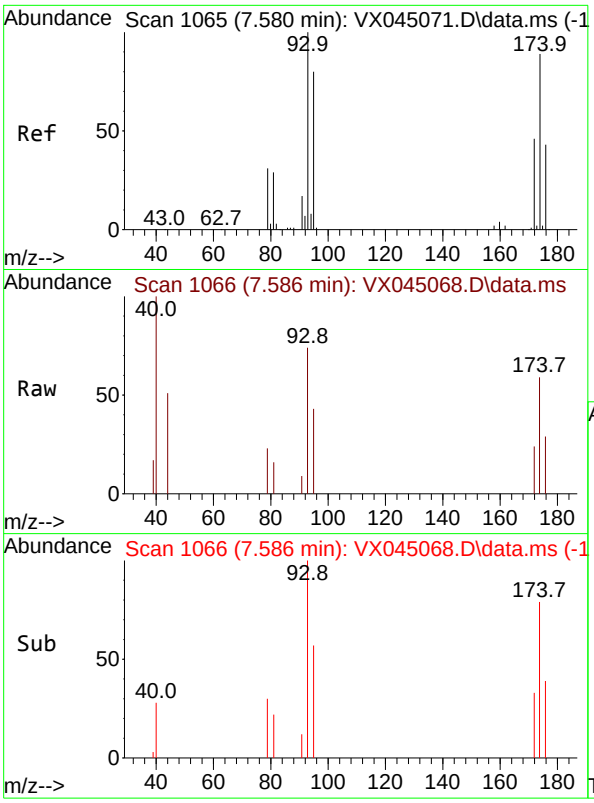


#45
1,2-Dichloropropane
Concen: 0.971 ug/l
RT: 7.434 min Scan# 1041
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 63 Resp: 1334

Ion	Ratio	Lower	Upper
63	100		
65	21.1	24.7	37.1#





#46
Dibromomethane
Concen: 0.897 ug/l
RT: 7.586 min Scan# 1(
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 93 Resp: 89:

Ion	Ratio	Lower	Upper
93	100		
95	80.9	65.8	98.8
174	102.8	72.2	108.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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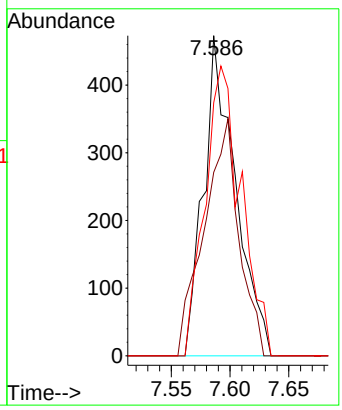
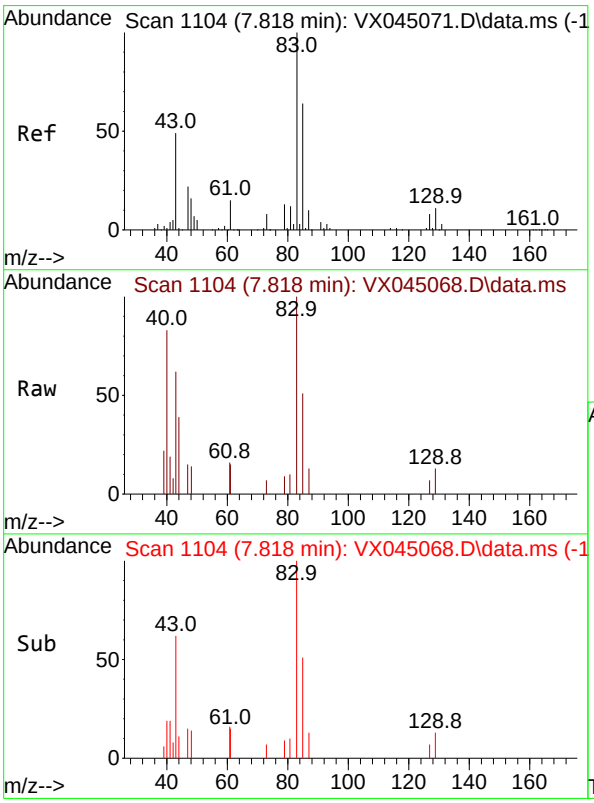
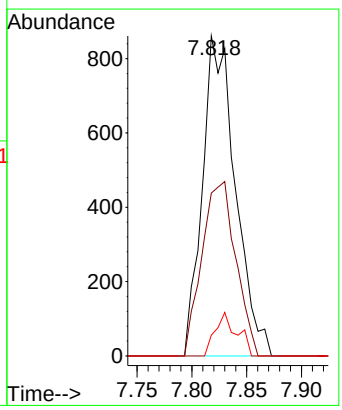


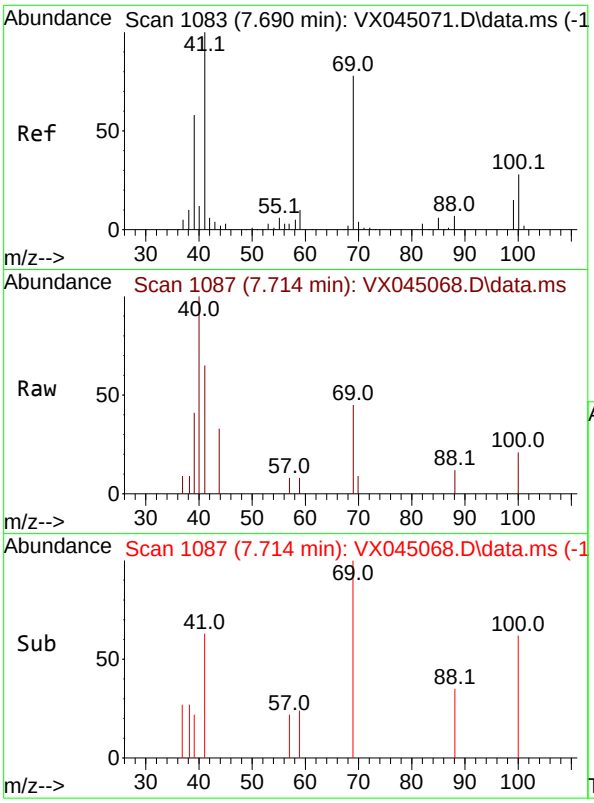


#47
Bromodichloromethane
Concen: 0.927 ug/l
RT: 7.818 min Scan# 1104
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 83 Resp: 1802

Ion	Ratio	Lower	Upper
83	100		
85	50.9	51.1	76.7#
127	6.5	6.4	9.6





#48
Methyl methacrylate
Concen: 0.825 ug/l m
RT: 7.714 min Scan# 1(
Delta R.T. 0.024 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 41 Resp: 132

Ion	Ratio	Lower	Upper
41	100		
69	41.4	63.0	94.6#
39	20.7	47.5	71.3#

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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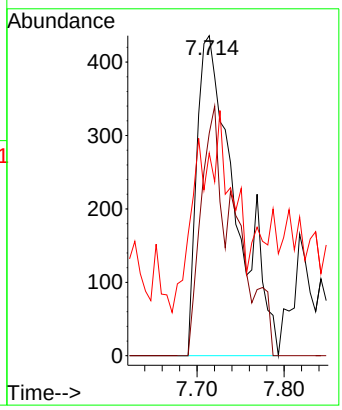
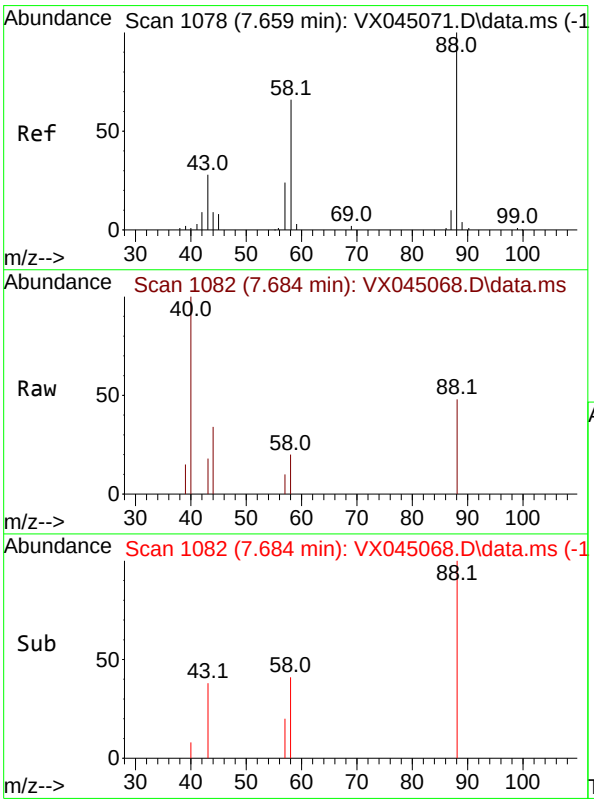
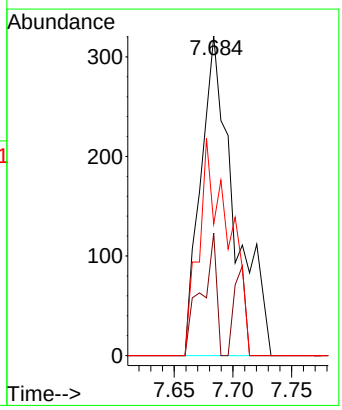


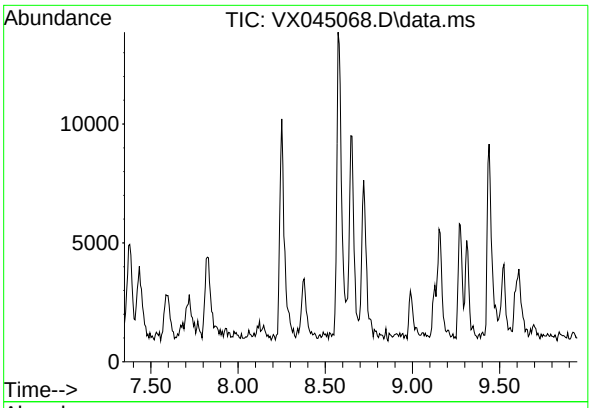


#49
1,4-Dioxane
Concen: 18.144 ug/l
RT: 7.684 min Scan# 1082
Delta R.T. 0.024 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 88 Resp: 639

Ion	Ratio	Lower	Upper
88	100		
43	17.2	28.7	43.1#
58	59.9	55.8	83.8





#50
Toluene-d8
Concen: 0.000 ug/l
Expected RT: 8.65 min

Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 98

Sig	Exp Ratio
98	100
100	65.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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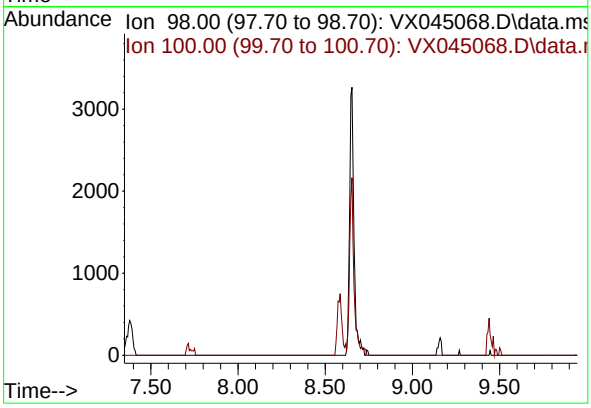
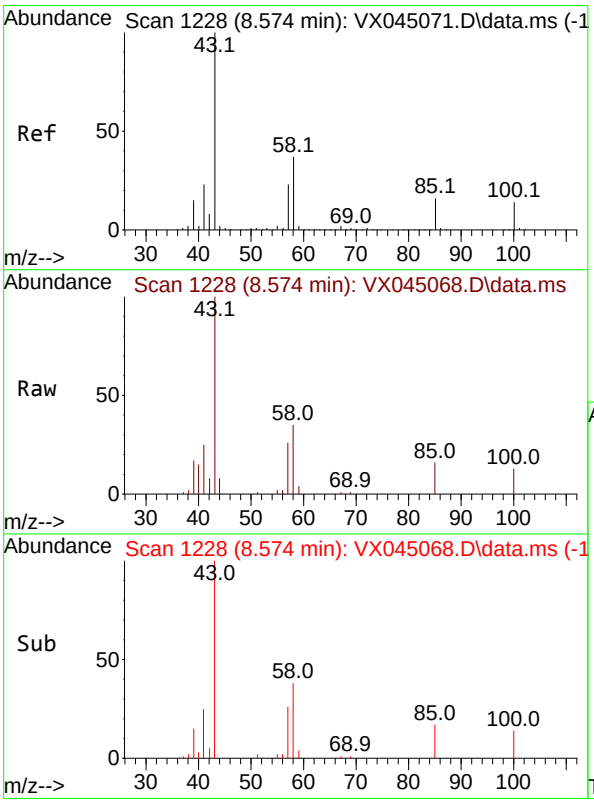
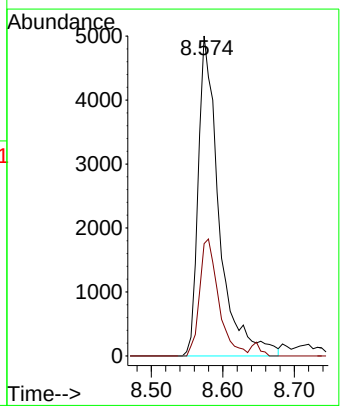


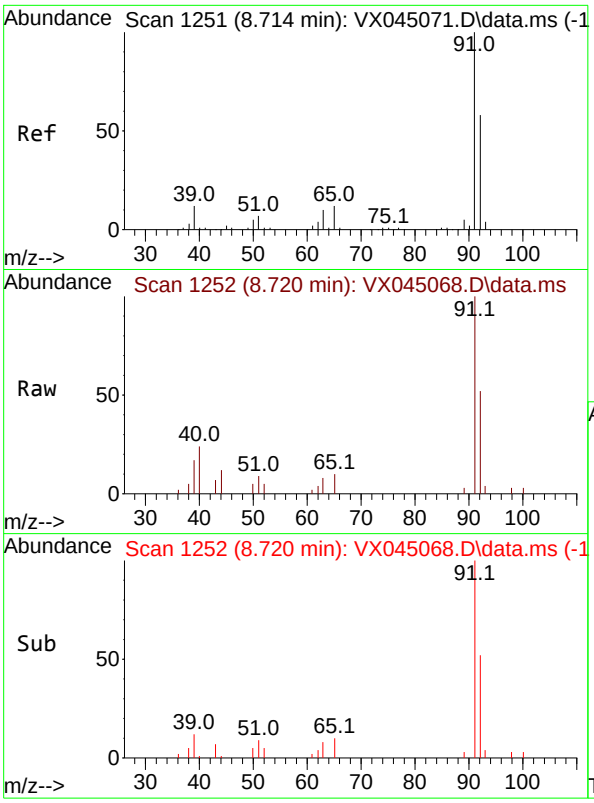


#51
4-Methyl-2-Pentanone
Concen: 4.567 ug/l
RT: 8.574 min Scan# 1228
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 43 Resp: 10091

Ion	Ratio	Lower	Upper
43	100		
58	33.5	29.2	43.8





#52
Toluene
Concen: 0.841 ug/l
RT: 8.720 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 92 Resp: 270

Ion	Ratio	Lower	Upper
92	100		
91	177.7	138.9	208.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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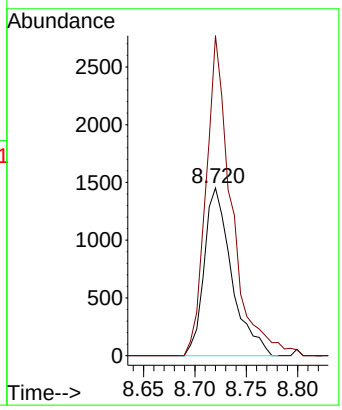
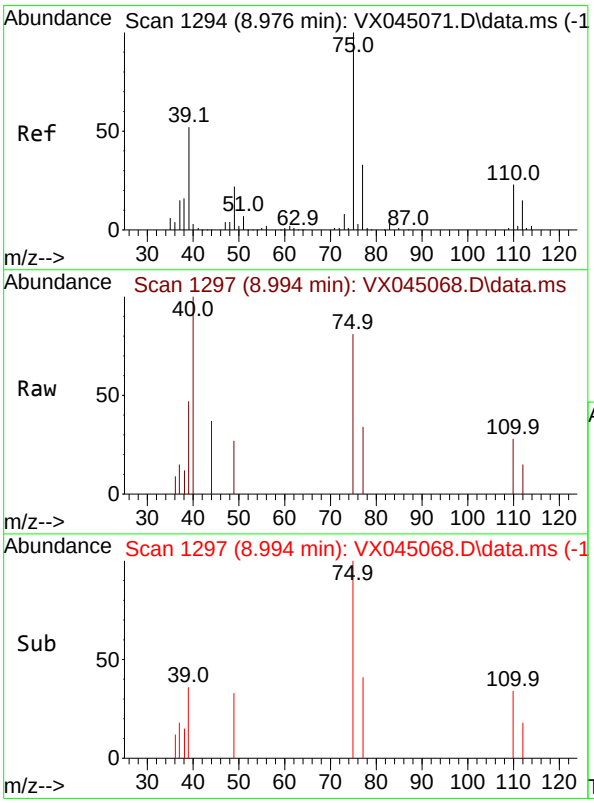
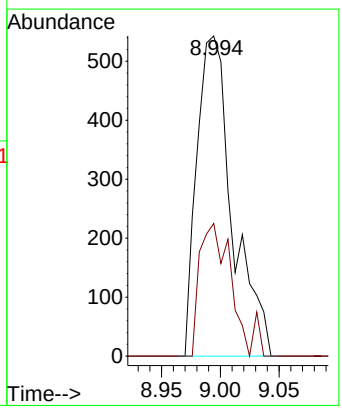


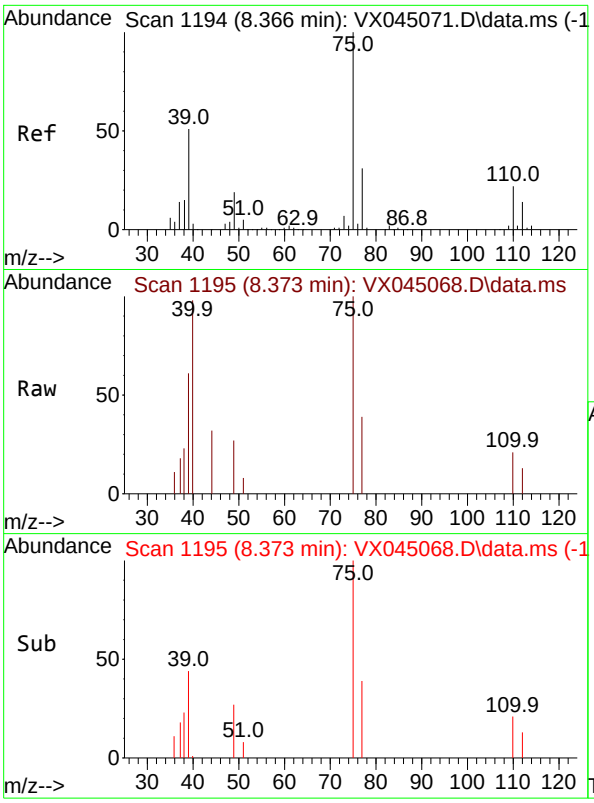


#53
t-1,3-Dichloropropene
Concen: 0.700 ug/l
RT: 8.994 min Scan# 1297
Delta R.T. 0.018 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 75 Resp: 1147

Ion	Ratio	Lower	Upper
75	100		
77	41.4	26.5	39.7#





#54
cis-1,3-Dichloropropene
Concen: 0.804 ug/l
RT: 8.373 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 75 Resp: 152

Ion	Ratio	Lower	Upper
75	100		
77	38.6	24.7	37.1#
39	45.1	40.7	61.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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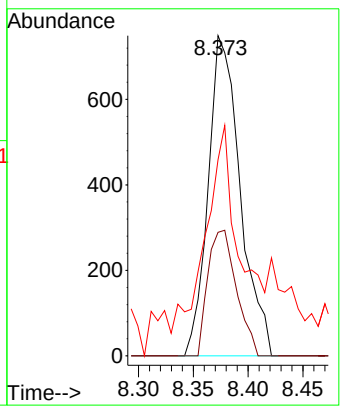
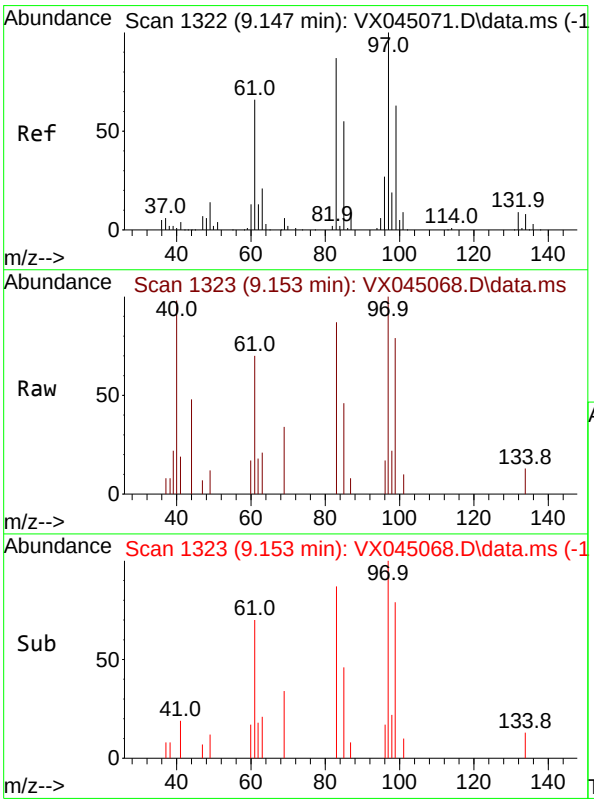
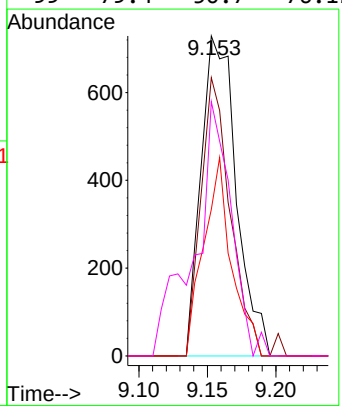


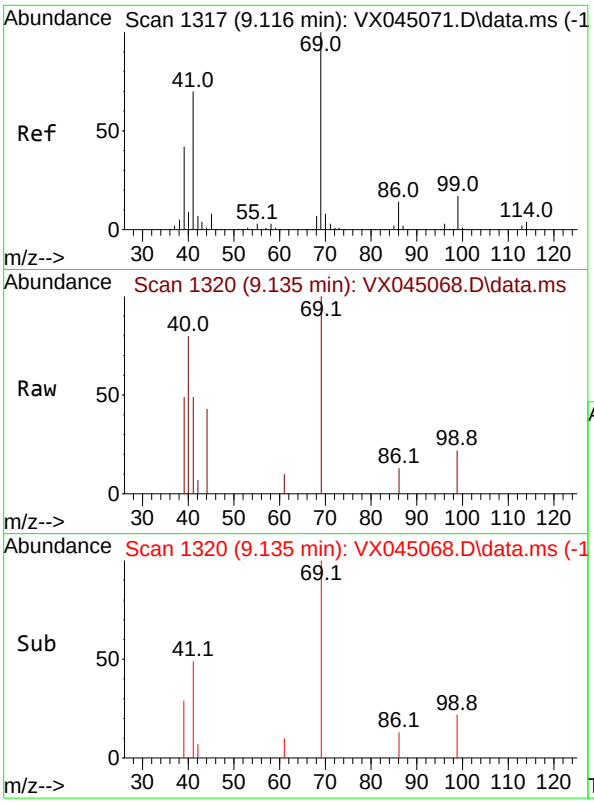


#55
1,1,2-Trichloroethane
Concen: 1.004 ug/l
RT: 9.153 min Scan# 1323
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 97 Resp: 1306

Ion	Ratio	Lower	Upper
97	100		
83	87.0	69.4	104.2
85	45.8	44.1	66.1
99	79.4	50.7	76.1#





#56
Ethyl methacrylate
Concen: 0.748 ug/l
RT: 9.135 min Scan# 1
Delta R.T. 0.018 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 69 Resp: 1494

Ion	Ratio	Lower	Upper
69	100		
41	71.5	57.0	85.4
39	54.6	34.2	51.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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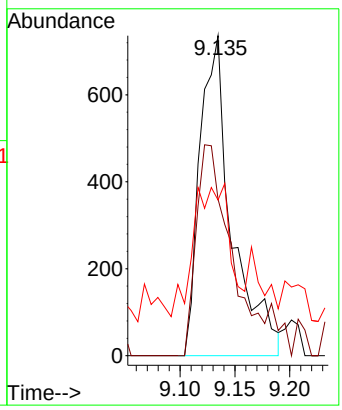
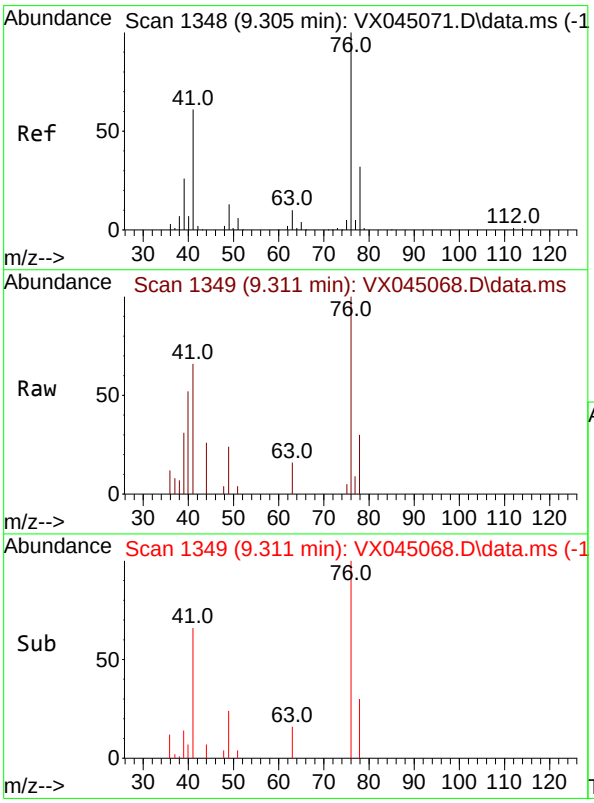
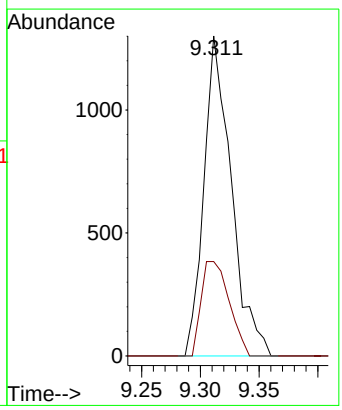


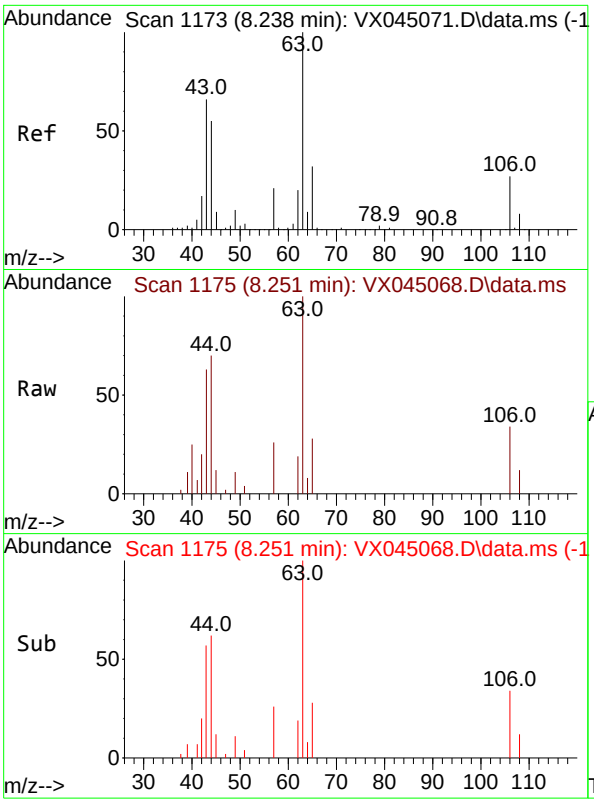


#57
1,3-Dichloropropane
Concen: 0.920 ug/l
RT: 9.311 min Scan# 1349
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 76 Resp: 2112

Ion	Ratio	Lower	Upper
76	100		
78	30.1	25.5	38.3





#58
2-Chloroethyl Vinyl ether
Concen: 4.320 ug/l
RT: 8.251 min Scan# 1
Delta R.T. 0.012 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 63 Resp: 411

Ion	Ratio	Lower	Upper
63	100		
106	29.2	21.5	32.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
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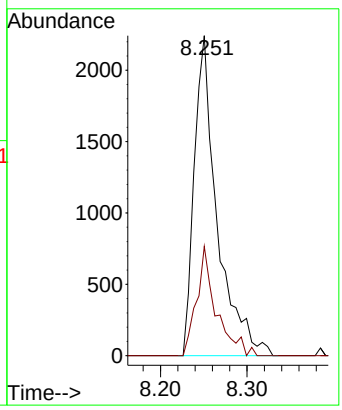
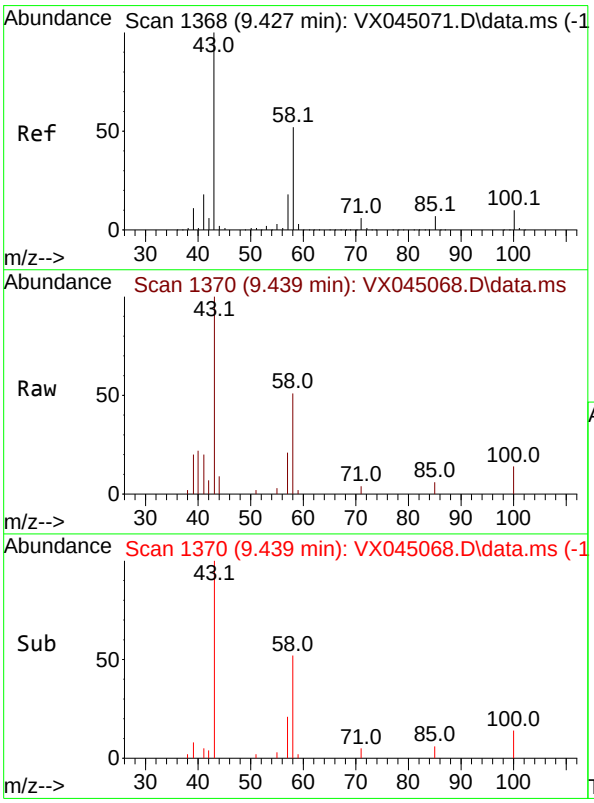
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

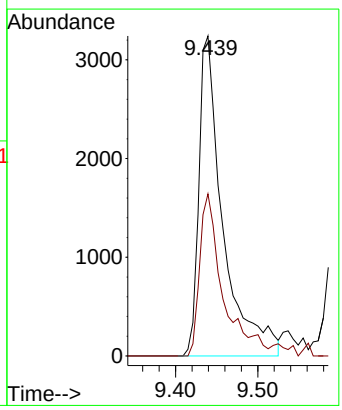


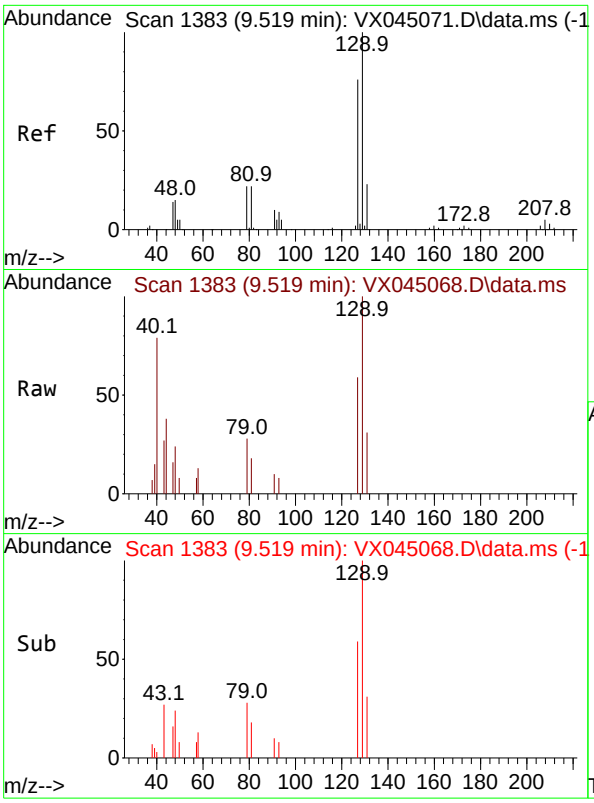


#59
2-Hexanone
Concen: 4.153 ug/l
RT: 9.439 min Scan# 1370
Delta R.T. 0.012 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 43 Resp: 6582

Ion	Ratio	Lower	Upper
43	100		
58	48.7	25.9	77.6





#60
Dibromochloromethane
Concen: 0.835 ug/l
RT: 9.519 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion:129 Resp: 115

Ion	Ratio	Lower	Upper
129	100		
127	75.2	38.5	115.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
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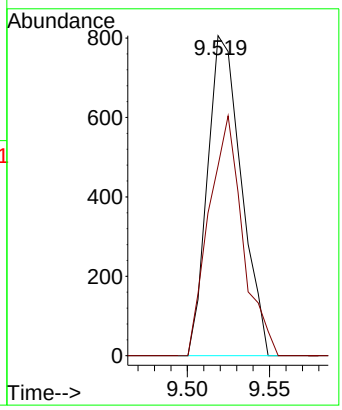
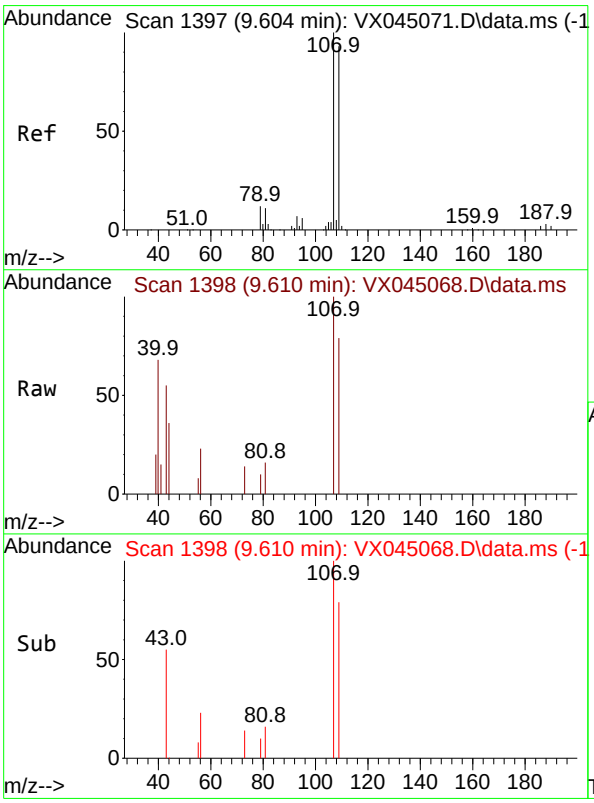
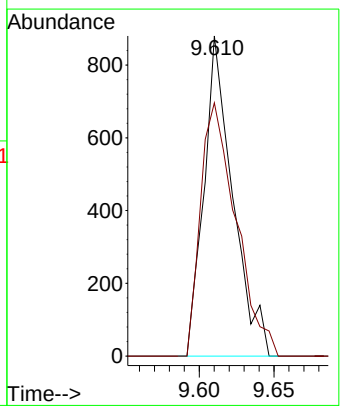


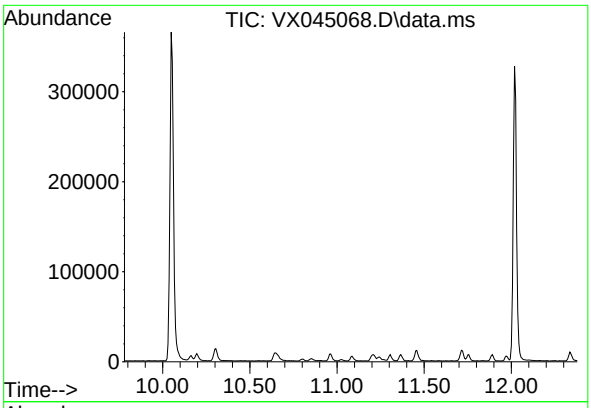


#61
1,2-Dibromoethane
Concen: 0.890 ug/l
RT: 9.610 min Scan# 1398
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion:107 Resp: 1174

Ion	Ratio	Lower	Upper
107	100		
109	97.6	76.1	114.1





#62
4-Bromofluorobenzene
Concen: 0.000 ug/l
Expected RT: 11.08 min

Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 95

Sig	Exp Ratio
95	100
174	74.1
176	70.7

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
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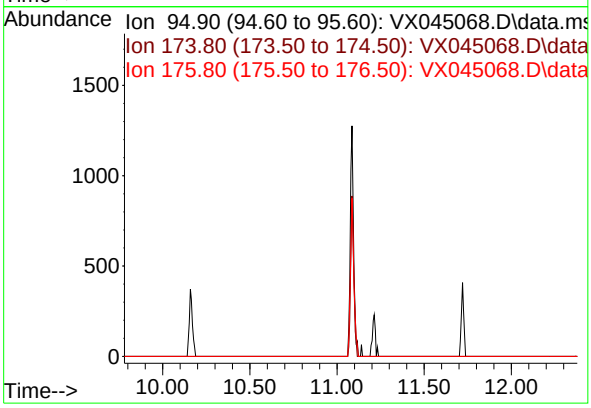
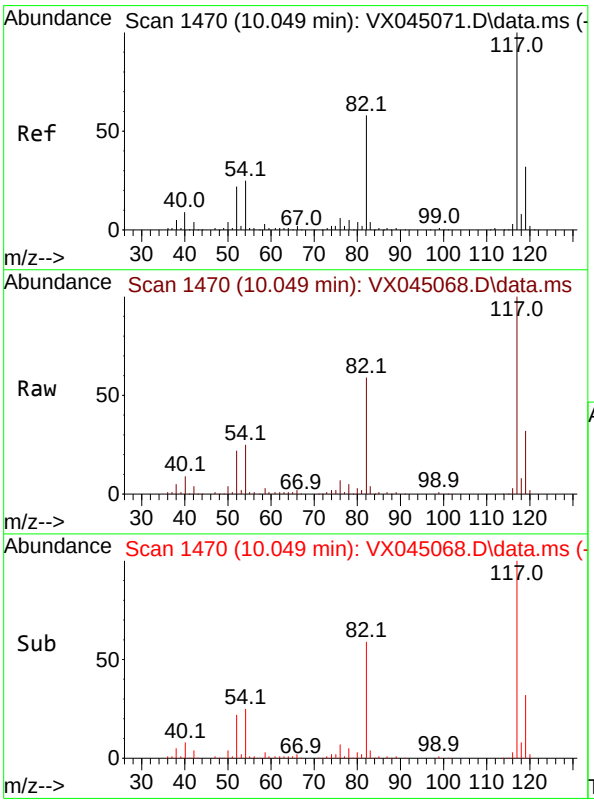
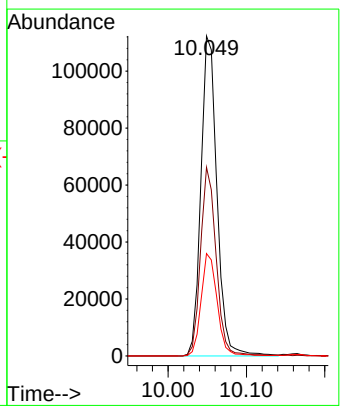


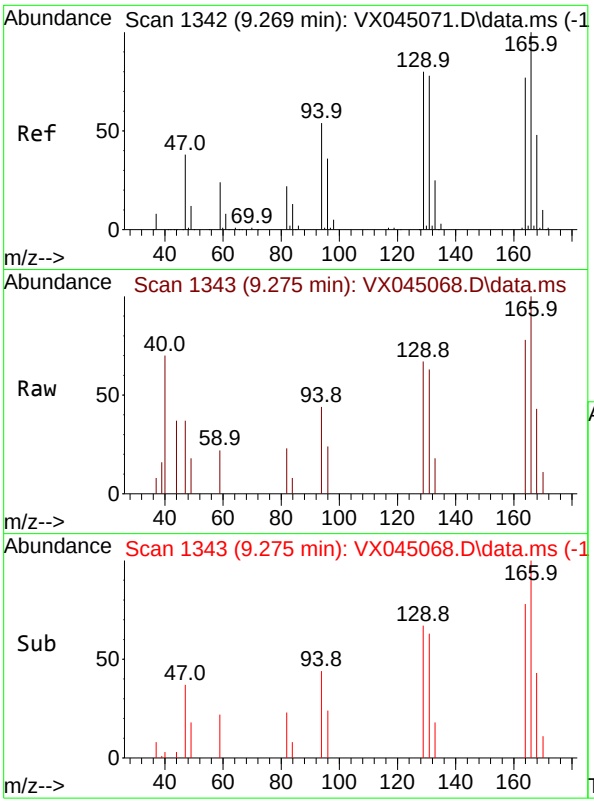


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion:117 Resp: 159886

Ion	Ratio	Lower	Upper
117	100		
82	59.0	46.3	69.5
119	32.0	25.7	38.5





#64
Tetrachloroethene
Concen: 0.986 ug/l
RT: 9.275 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion:164 Resp: 100

Ion	Ratio	Lower	Upper
164	100		
166	127.9	103.6	155.4
129	85.8	82.7	124.1
131	80.5	80.5	120.7#

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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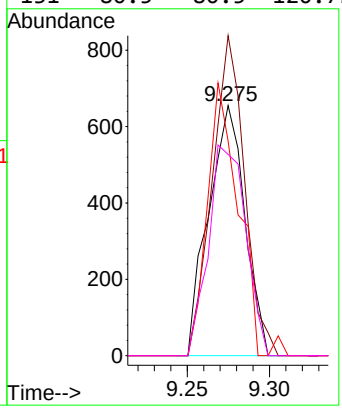
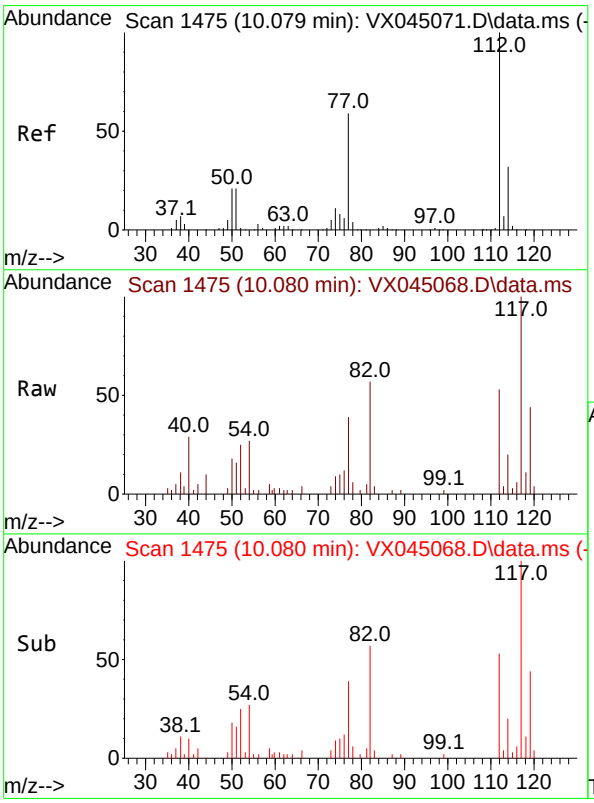
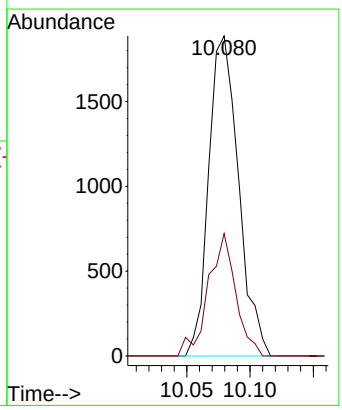


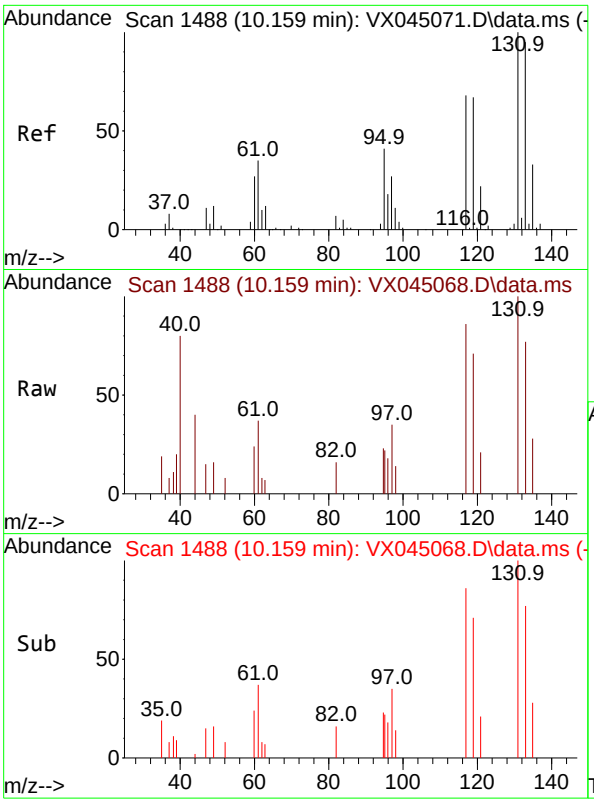


#65
Chlorobenzene
Concen: 0.908 ug/l
RT: 10.080 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion:112 Resp: 3094

Ion	Ratio	Lower	Upper
112	100		
114	38.3	26.0	39.0





#66
1,1,1,2-Tetrachloroethane
Concen: 0.978 ug/l
RT: 10.159 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion:131 Resp: 107

Ion	Ratio	Lower	Upper
131	100		
133	98.6	48.6	145.9
119	0.0	33.9	101.7#

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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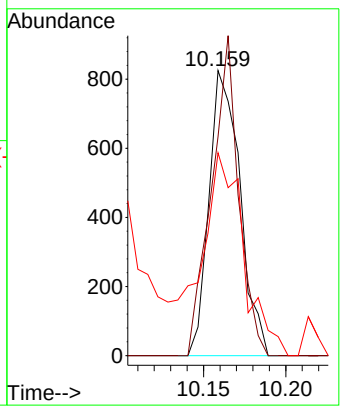
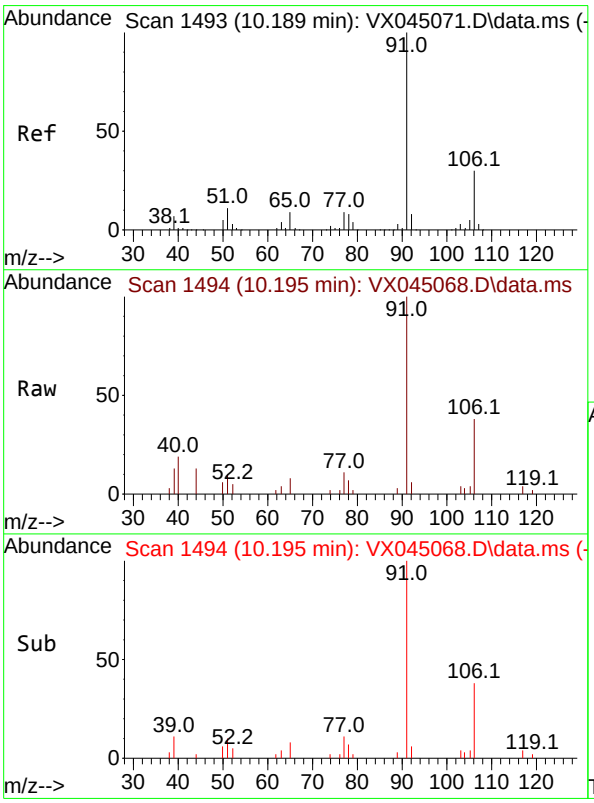
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

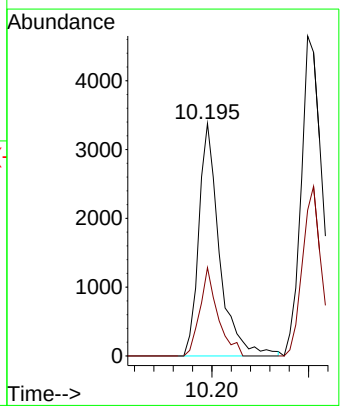


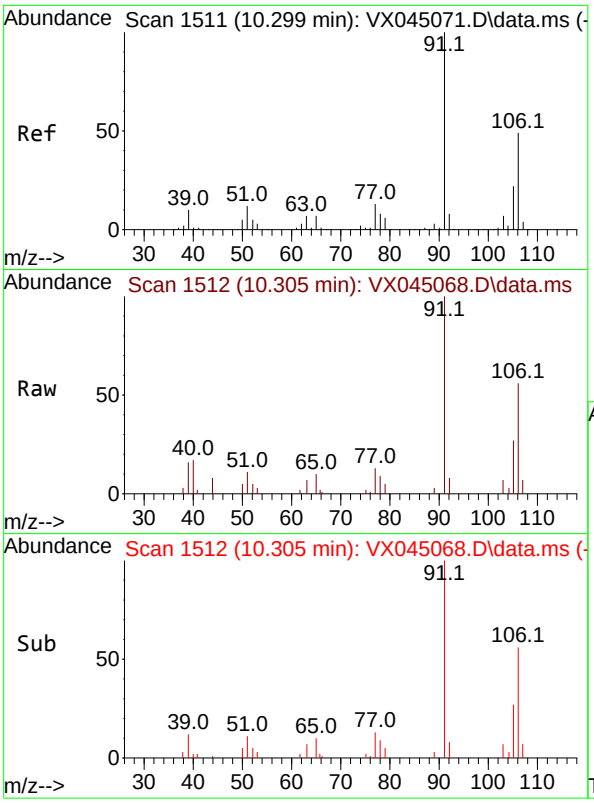


#67
Ethyl Benzene
Concen: 0.846 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 91 Resp: 5008

Ion	Ratio	Lower	Upper
91	100		
106	38.0	23.9	35.9#





#68
m/p-Xylenes
Concen: 1.630 ug/l
RT: 10.305 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion:106 Resp: 355

Ion	Ratio	Lower	Upper
106	100		
91	211.2	165.4	248.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
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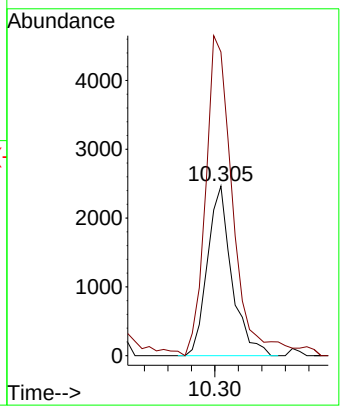
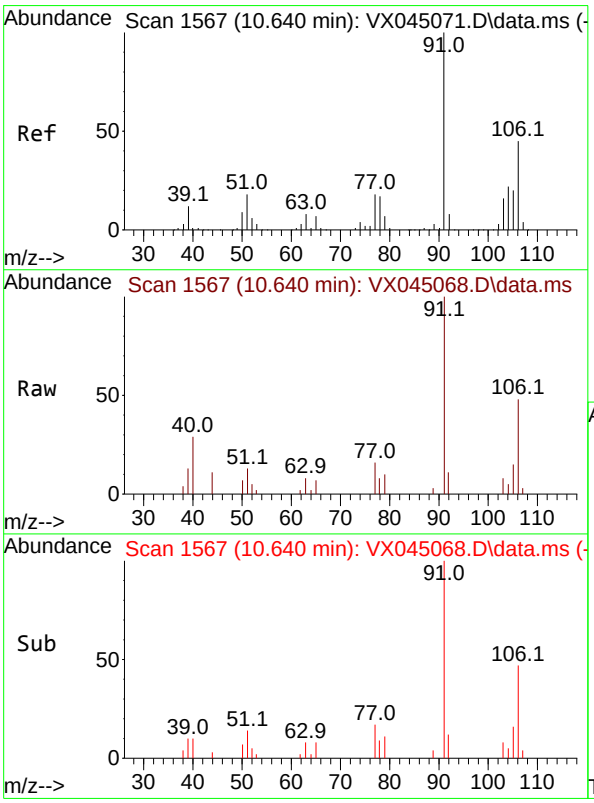
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

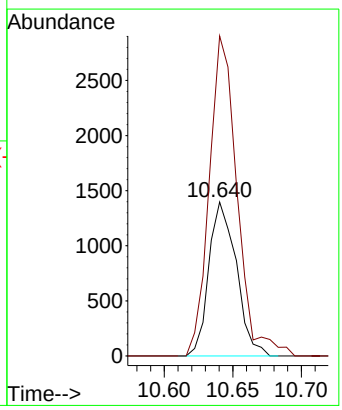


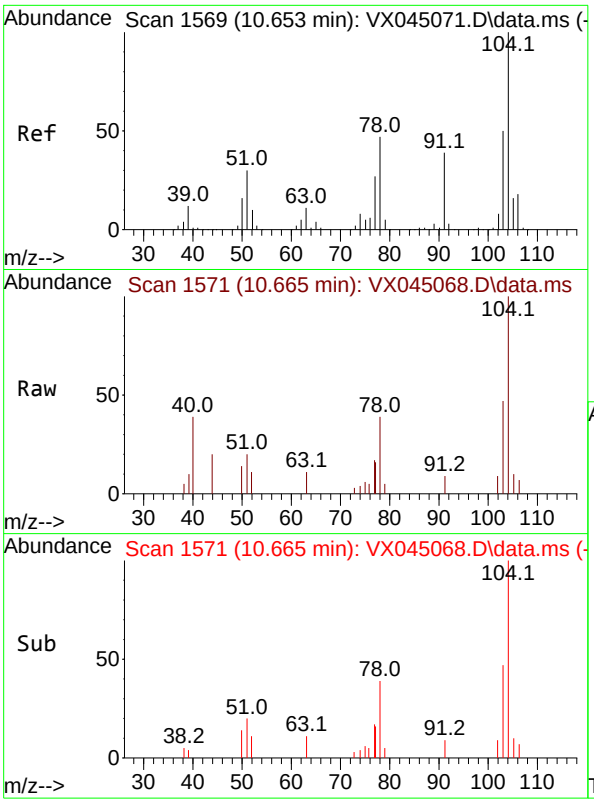


#69
o-Xylene
Concen: 0.891 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion:106 Resp: 1949

Ion	Ratio	Lower	Upper
106	100		
91	211.0	109.9	329.6





#70
Styrene
Concen: 0.802 ug/l
RT: 10.665 min Scan# 1
Delta R.T. 0.012 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion:104 Resp: 281

Ion	Ratio	Lower	Upper
104	100		
78	49.7	42.2	63.4
103	53.6	43.8	65.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
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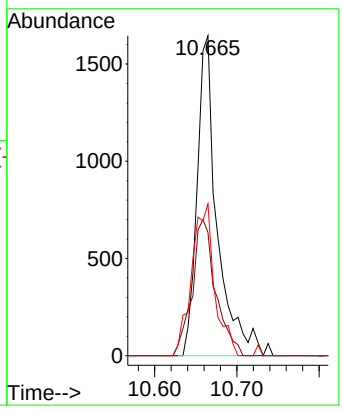
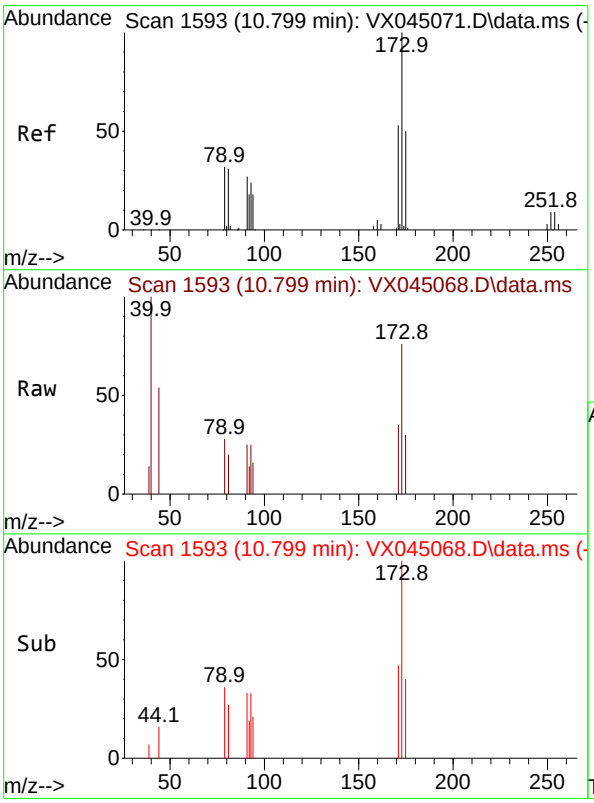
Supervised By :Mahesh Dadoda 02/28/2025

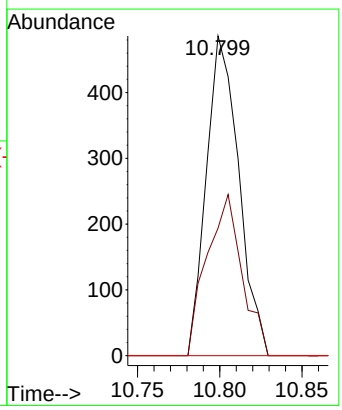


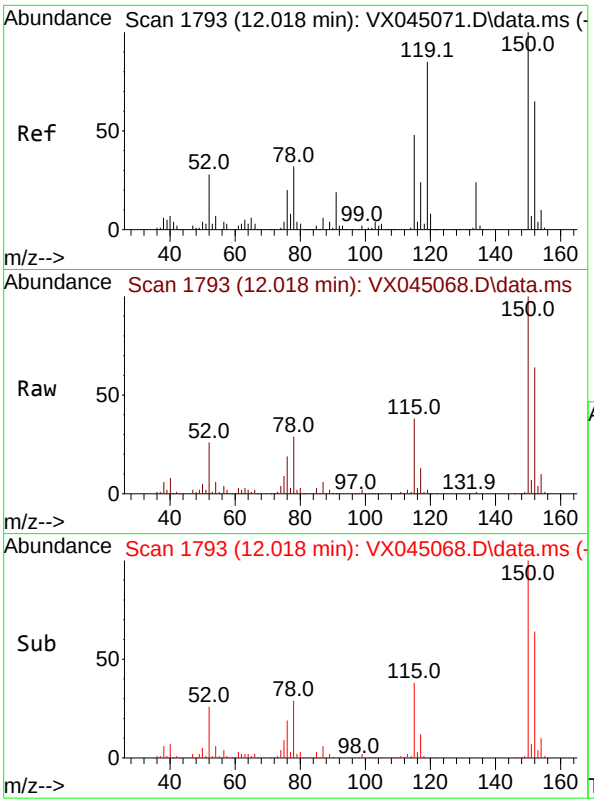


#71
Bromoform
Concen: 0.768 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion:173 Resp: 667

Ion	Ratio	Lower	Upper
173	100		
175	54.7	24.6	73.6
254	0.0	0.0	0.0





#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion:152 Resp: 6484

Ion	Ratio	Lower	Upper
152	100		
115	60.3	44.2	132.6
150	157.1	0.0	349.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
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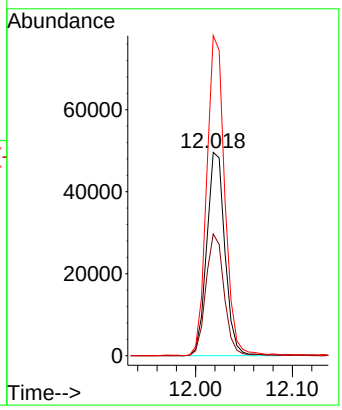
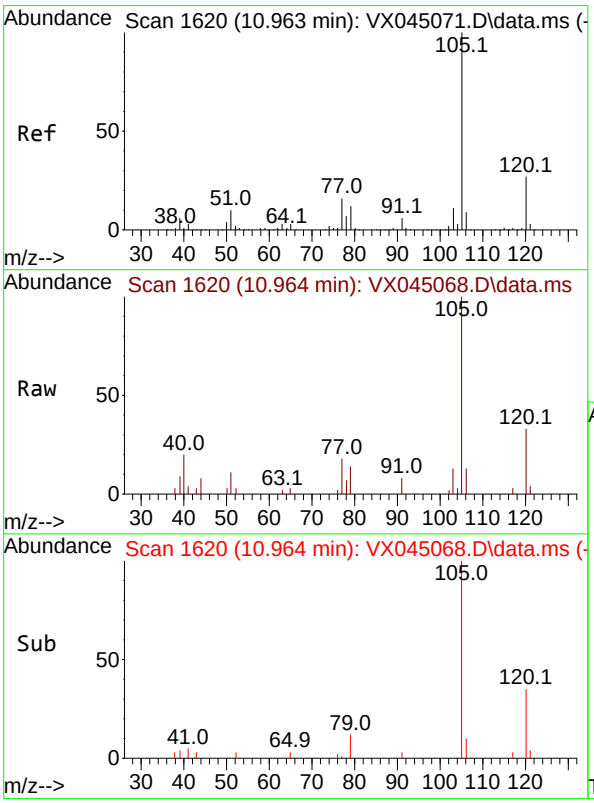
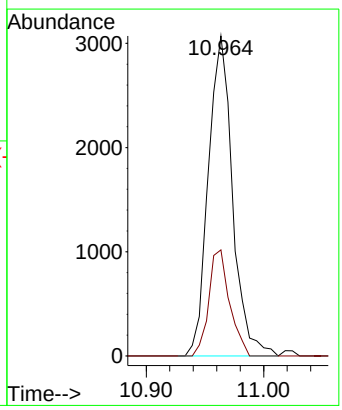


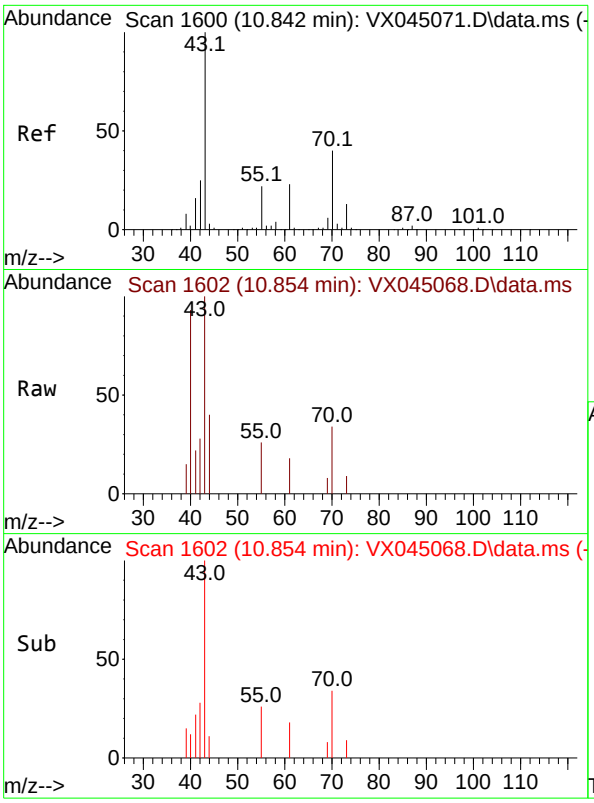


#73
Isopropylbenzene
Concen: 0.858 ug/l
RT: 10.964 min Scan# 1620
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion:105 Resp: 4405

Ion	Ratio	Lower	Upper
105	100		
120	28.5	13.2	39.5





#74
N-amyl acetate
Concen: 0.732 ug/l
RT: 10.854 min Scan# 1(
Delta R.T. 0.012 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 43 Resp: 175(

Ion	Ratio	Lower	Upper
43	100		
70	30.1	31.8	47.6#
55	20.9	18.3	27.5
61	13.7	18.3	27.5#

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
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Reviewed By :John Carlone 02/28/2025
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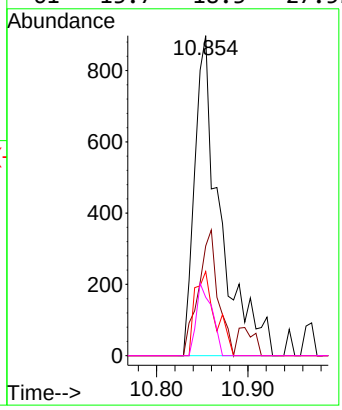
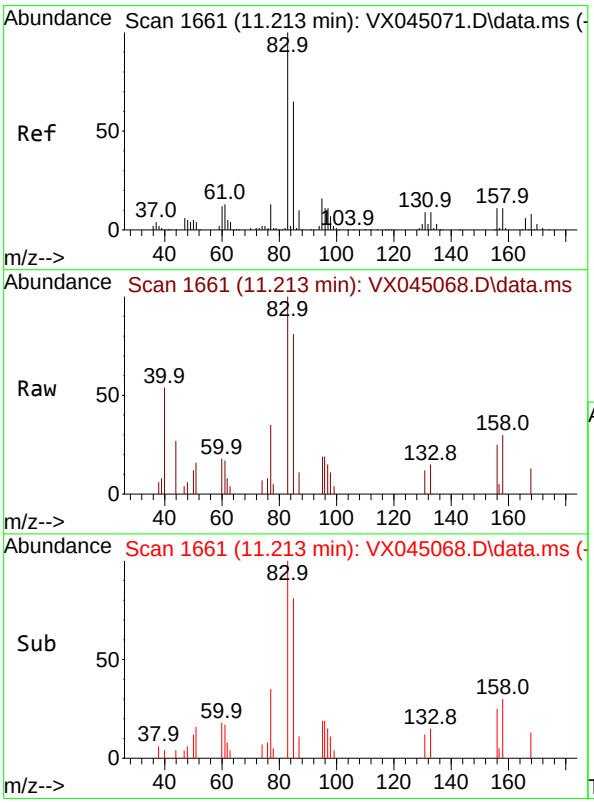
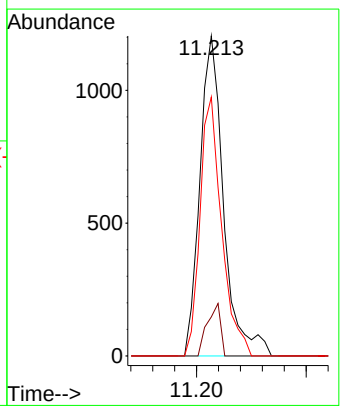


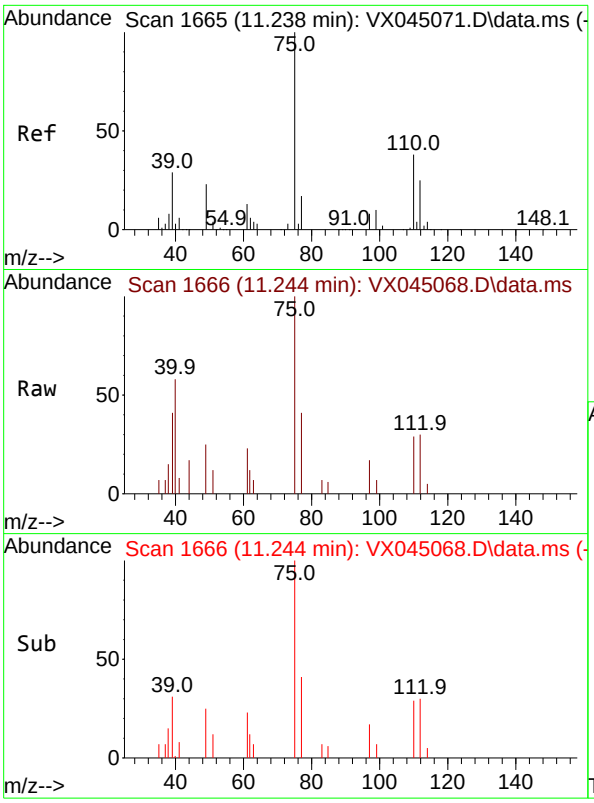


#75
1,1,2,2-Tetrachloroethane
Concen: 0.954 ug/l
RT: 11.213 min Scan# 1661
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 83 Resp: 1809

Ion	Ratio	Lower	Upper
83	100		
131	9.2	4.5	13.4
85	73.7	31.7	95.1





#76
1,2,3-Trichloropropane
Concen: 1.015 ug/l m
RT: 11.244 min Scan# 1(
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 75 Resp: 153:

Ion	Ratio	Lower	Upper
75	100		
77	40.0	20.7	62.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
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Reviewed By :John Carlone 02/28/2025
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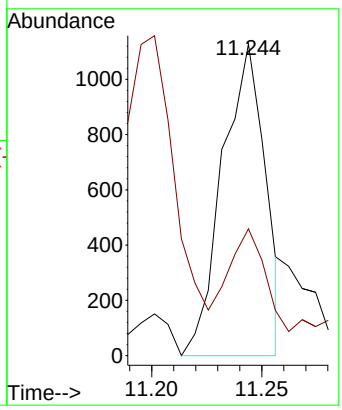
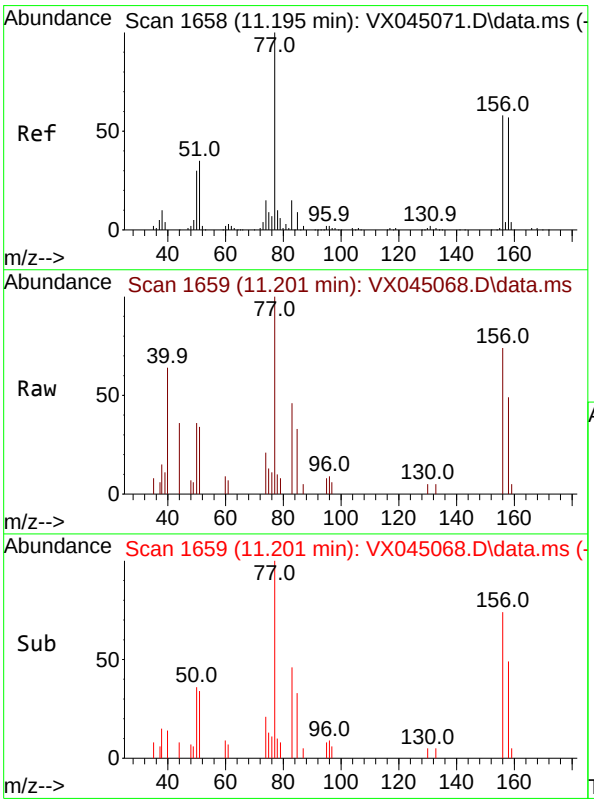
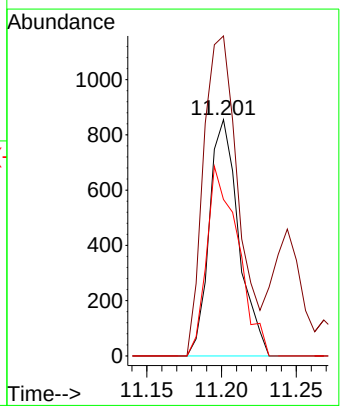


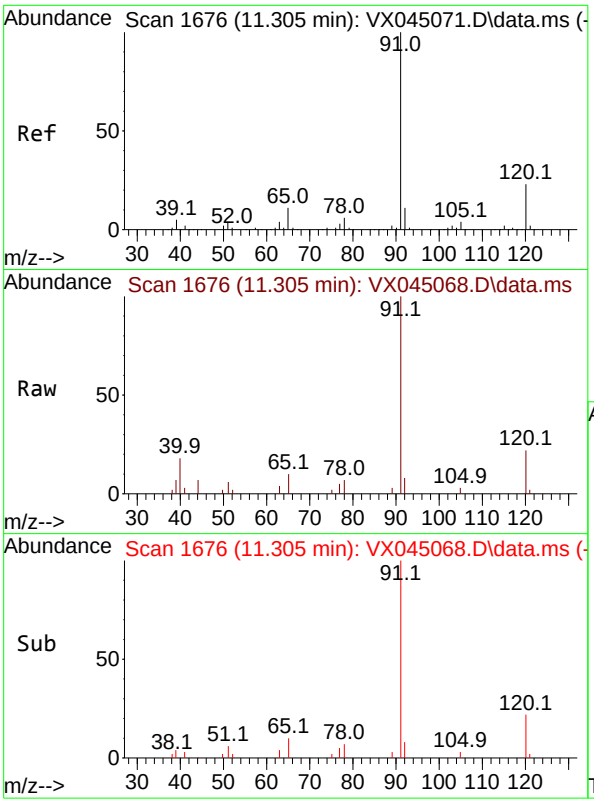


#77
Bromobenzene
Concen: 0.972 ug/l
RT: 11.201 min Scan# 1659
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion:156 Resp: 1166

Ion	Ratio	Lower	Upper
156	100		
77	159.8	85.8	257.4
158	86.2	48.4	145.2





#78
n-propylbenzene
Concen: 0.773 ug/l
RT: 11.305 min Scan# 1(
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

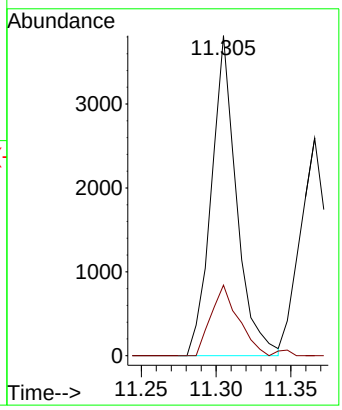
Tgt Ion: 91 Resp: 447!

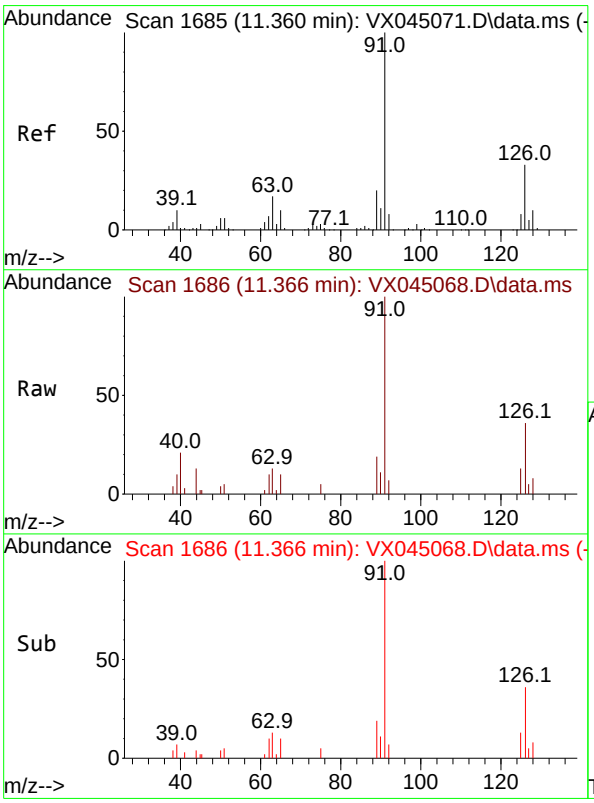
Ion	Ratio	Lower	Upper
91	100		
120	23.9	11.2	33.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

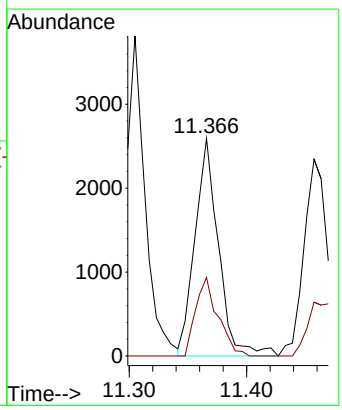


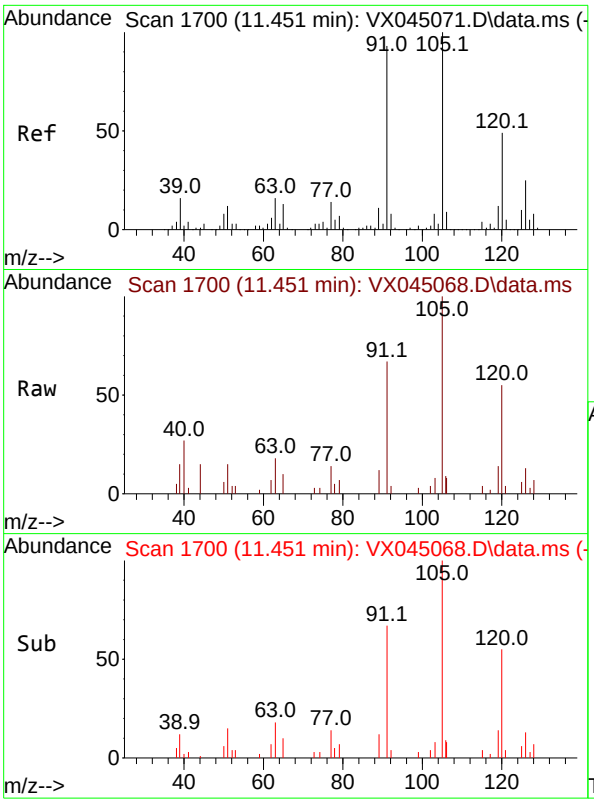


#79
2-Chlorotoluene
Concen: 0.986 ug/l
RT: 11.366 min Scan# 1686
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 91 Resp: 3616

Ion	Ratio	Lower	Upper
91	100		
126	34.2	16.4	49.4





#80
1,3,5-Trimethylbenzene
Concen: 0.815 ug/l
RT: 11.451 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

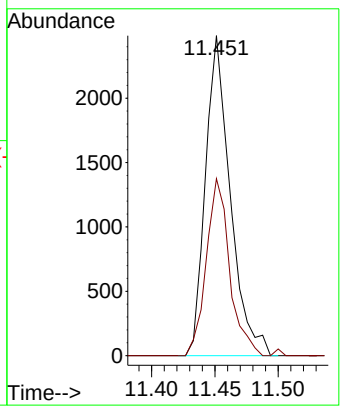
Tgt Ion:105 Resp: 338

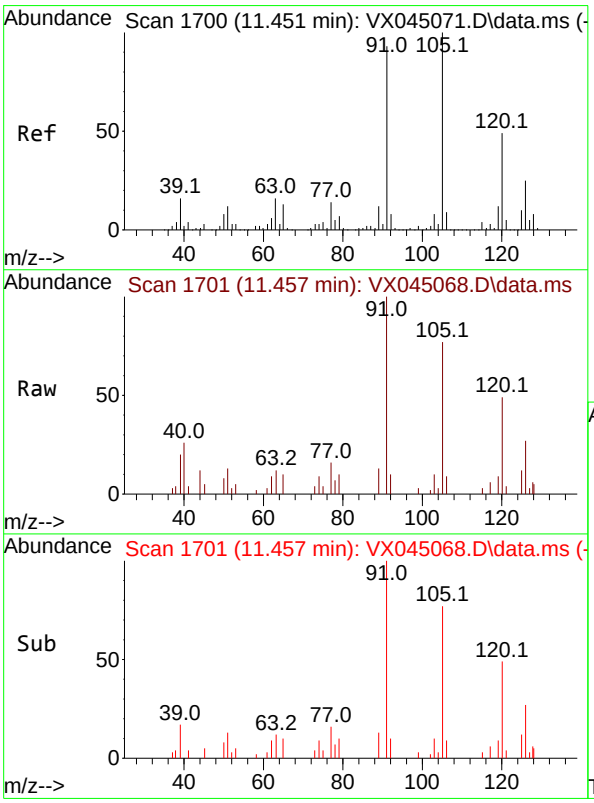
Ion	Ratio	Lower	Upper
105	100		
120	52.2	24.1	72.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

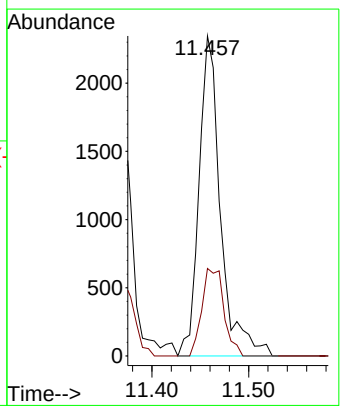


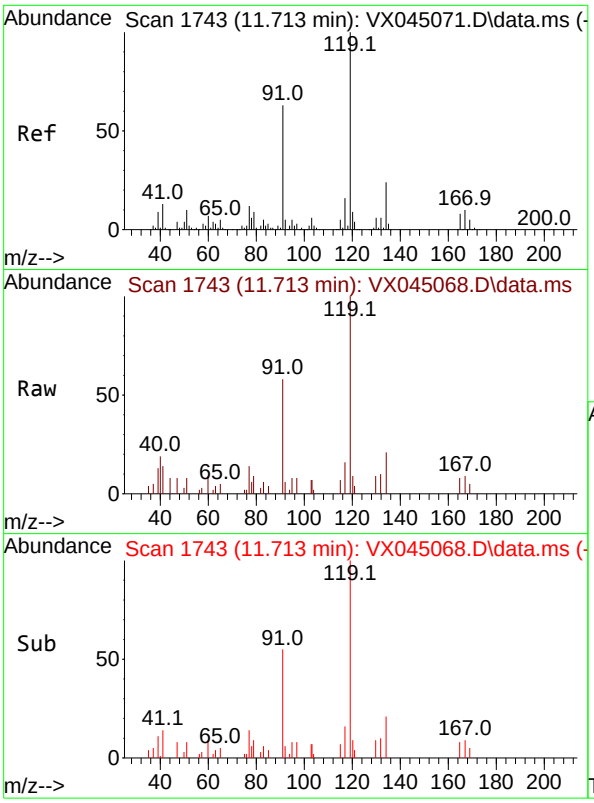


#82
4-Chlorotoluene
Concen: 0.904 ug/l
RT: 11.457 min Scan# 1701
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 91 Resp: 3631

Ion	Ratio	Lower	Upper
91	100		
126	28.0	14.1	42.4





#83
tert-Butylbenzene
Concen: 0.929 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

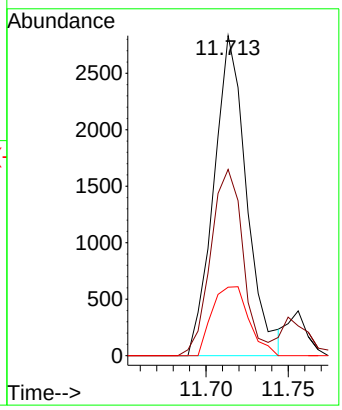
Tgt Ion:119 Resp: 392

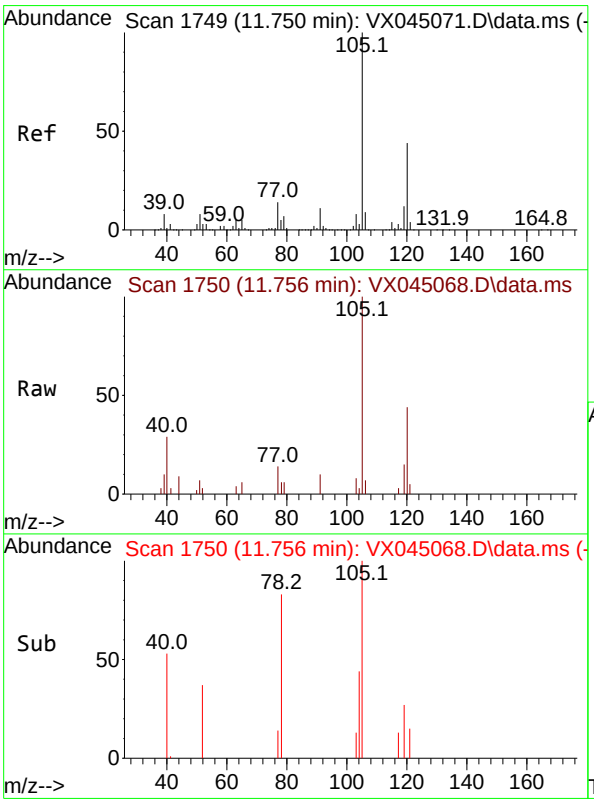
Ion	Ratio	Lower	Upper
119	100		
91	57.7	30.7	92.1
134	24.2	11.7	35.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

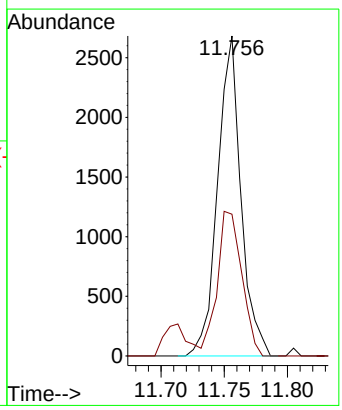


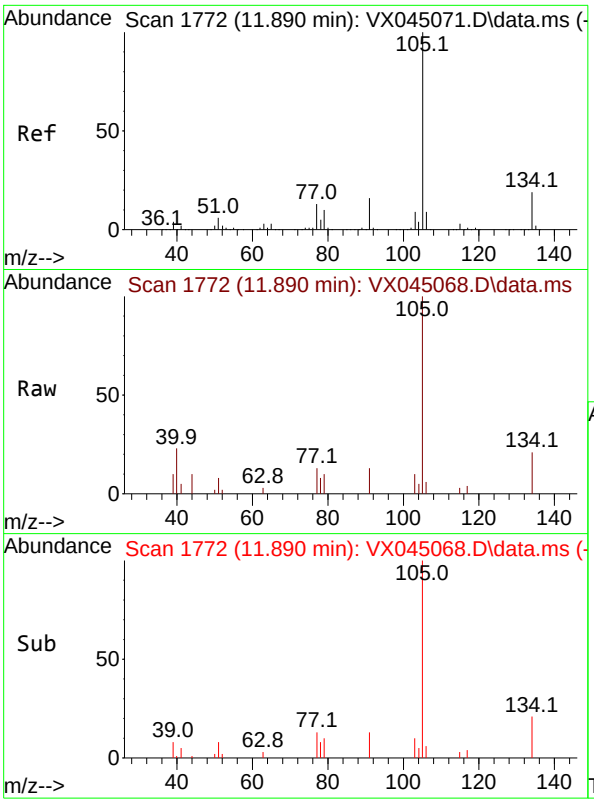


#84
1,2,4-Trimethylbenzene
Concen: 0.827 ug/l
RT: 11.756 min Scan# 1750
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion:105 Resp: 3432

Ion	Ratio	Lower	Upper
105	100		
120	47.5	22.1	66.1





#85
sec-Butylbenzene
Concen: 0.752 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

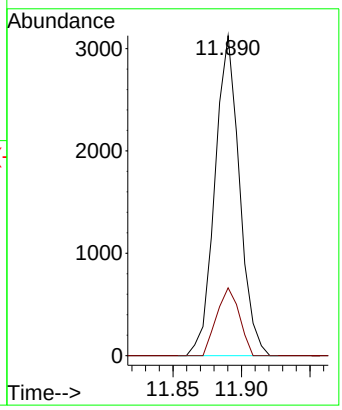
Tgt Ion:105 Resp: 389

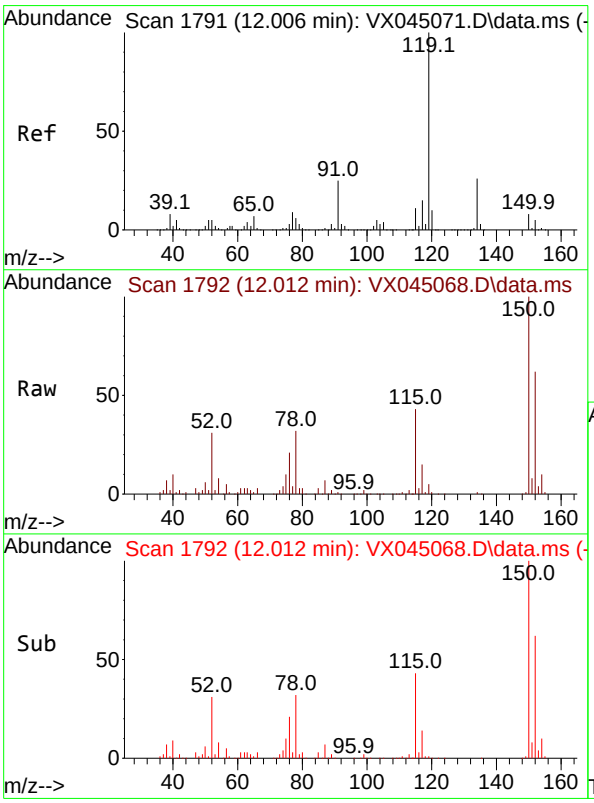
Ion	Ratio	Lower	Upper
105	100		
134	19.5	9.8	29.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

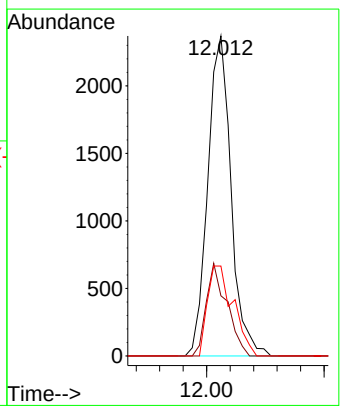


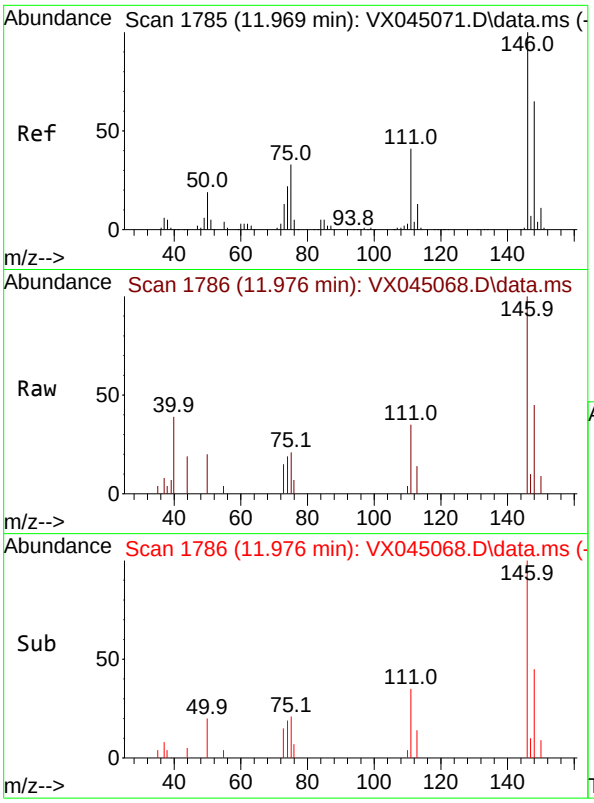


#86
p-Isopropyltoluene
Concen: 0.797 ug/l
RT: 12.012 min Scan# 1792
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion:119 Resp: 3257

Ion	Ratio	Lower	Upper
119	100		
134	25.6	12.9	38.6
91	30.9	12.7	38.0





#87
1,3-Dichlorobenzene
Concen: 0.913 ug/l
RT: 11.976 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

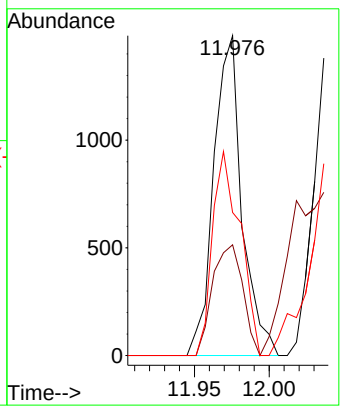
Tgt Ion:146 Resp: 194

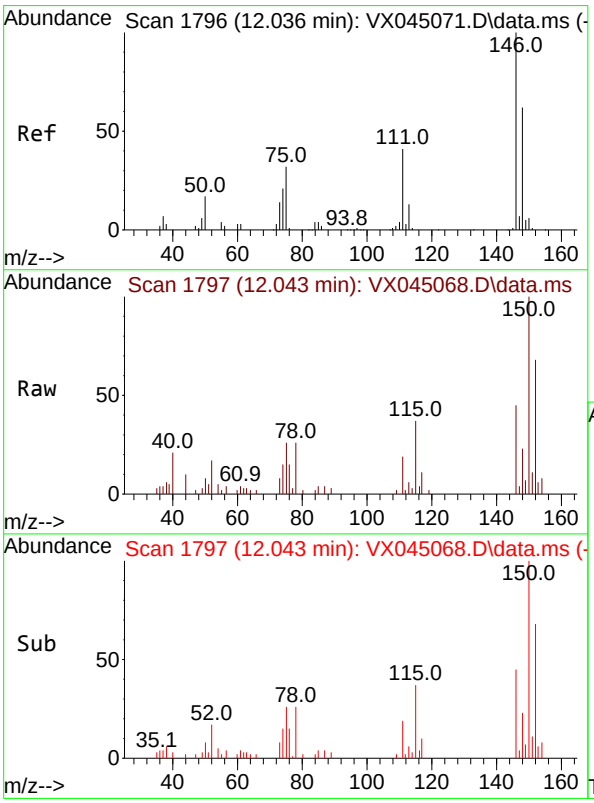
Ion	Ratio	Lower	Upper
146	100		
111	37.1	21.1	63.4
148	62.4	31.9	95.7

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

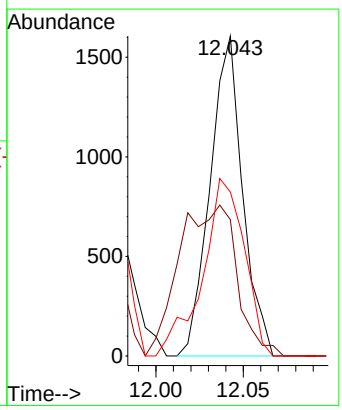


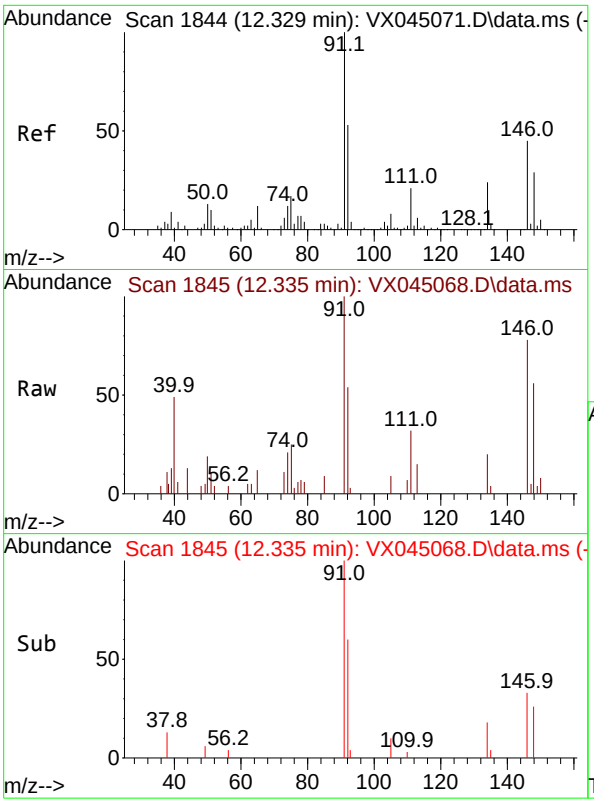


#88
1,4-Dichlorobenzene
Concen: 0.962 ug/l m
RT: 12.043 min Scan# 1797
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion:146 Resp: 2082

Ion	Ratio	Lower	Upper
146	100		
111	34.7	20.2	60.5
148	58.4	31.9	95.9





#89
n-Butylbenzene
Concen: 0.691 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

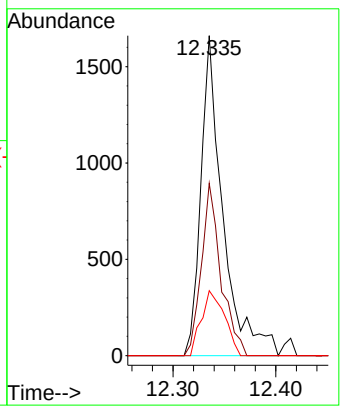
Tgt Ion: 91 Resp: 247

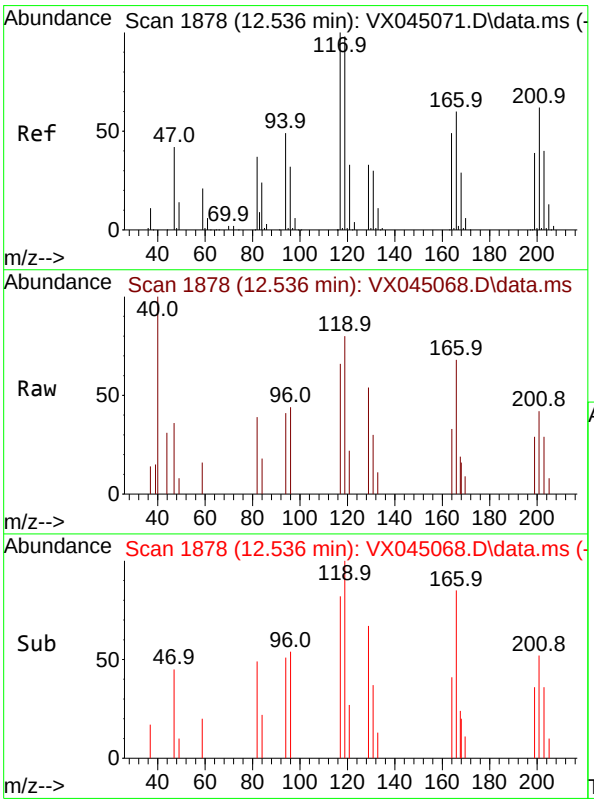
Ion	Ratio	Lower	Upper
91	100		
92	48.0	26.7	80.0
134	21.4	12.2	36.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

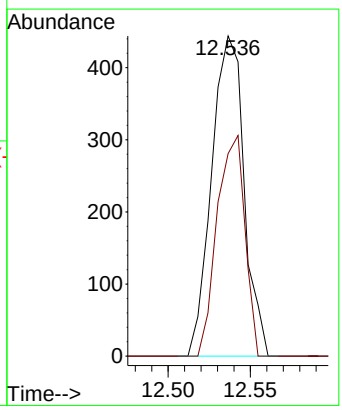


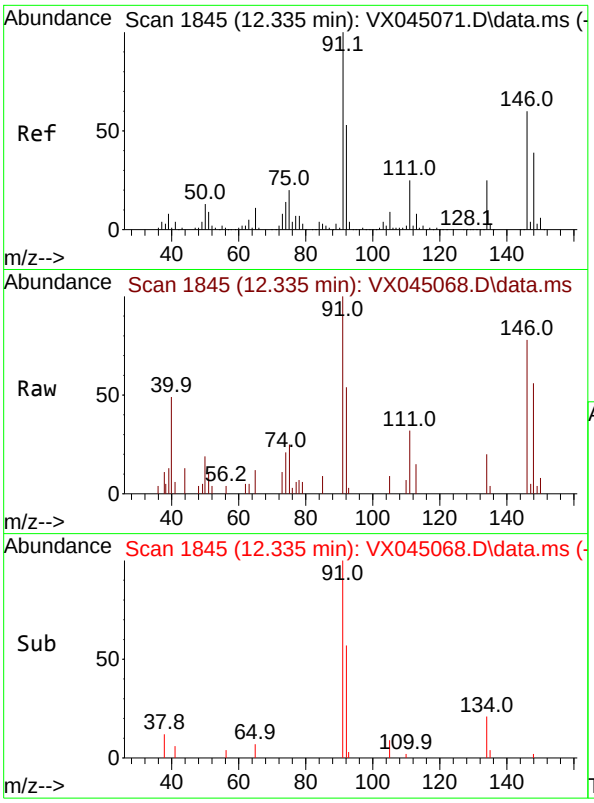


#90
Hexachloroethane
Concen: 0.805 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion:117 Resp: 609

Ion	Ratio	Lower	Upper
117	100		
201	58.9	31.9	95.9





#91
1,2-Dichlorobenzene
Concen: 0.890 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

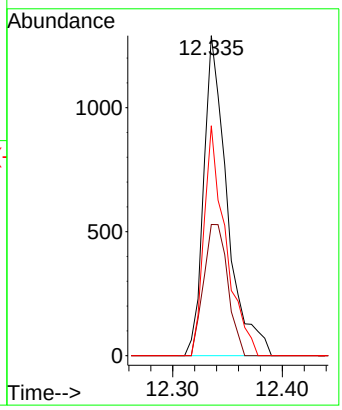
Tgt Ion:146 Resp: 191

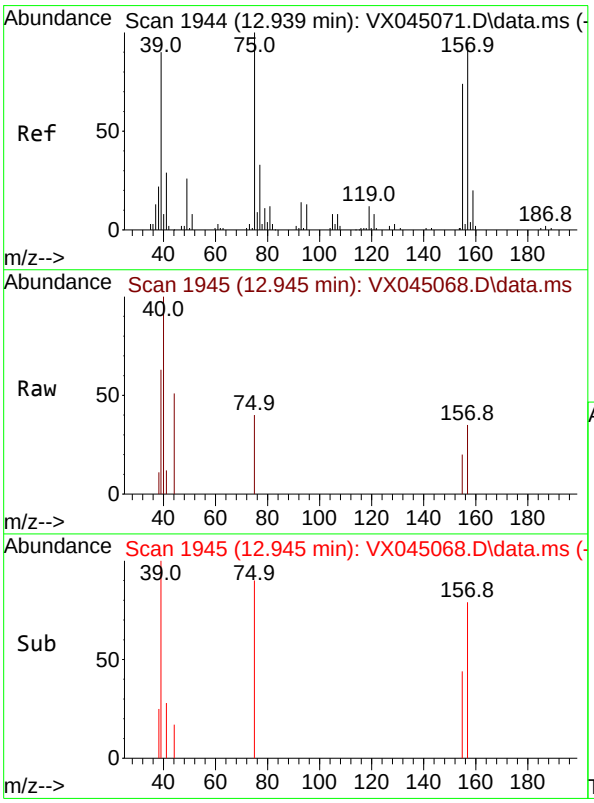
Ion	Ratio	Lower	Upper
146	100		
111	42.0	21.6	65.0
148	66.1	31.9	95.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

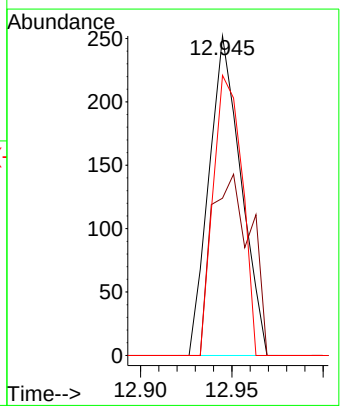


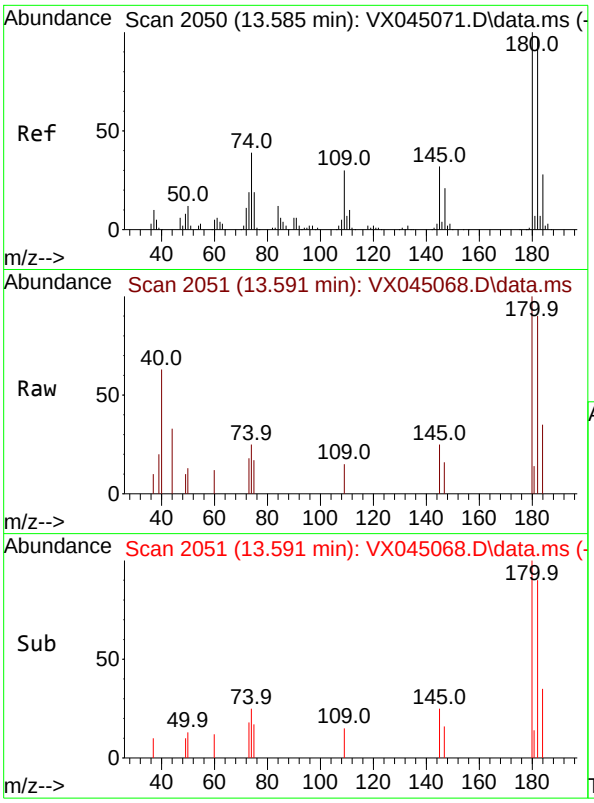


#92
1,2-Dibromo-3-Chloropropane
Concen: 0.859 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion: 75 Resp: 308

Ion	Ratio	Lower	Upper
75	100		
155	69.2	39.6	118.7
157	78.6	51.1	153.4





#93
1,2,4-Trichlorobenzene
Concen: 0.706 ug/l
RT: 13.591 min Scan# 2(
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

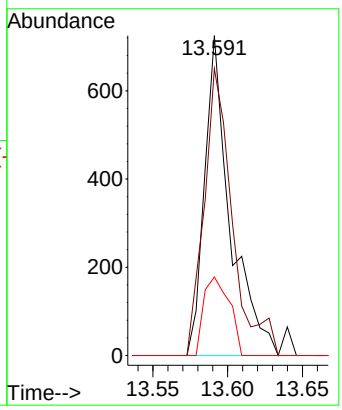
Tgt Ion:180 Resp: 86(

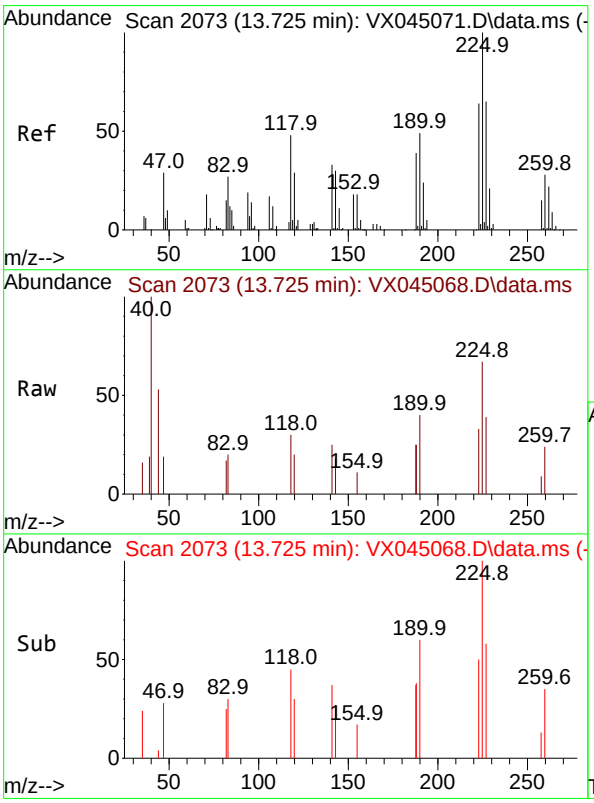
Ion	Ratio	Lower	Upper
180	100		
182	98.7	47.3	141.9
145	24.5	16.3	48.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

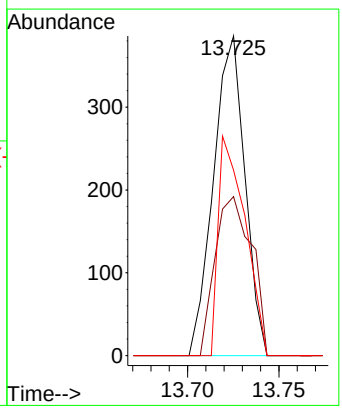


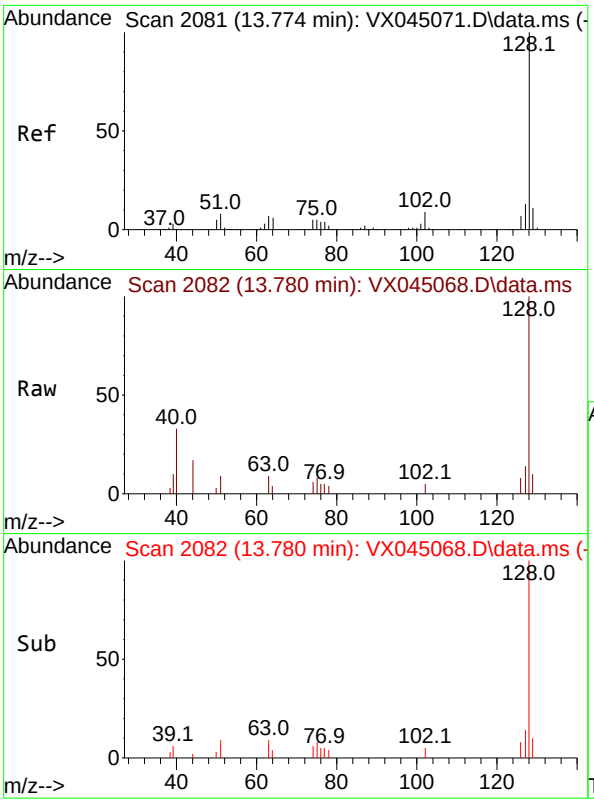


#94
Hexachlorobutadiene
Concen: 0.917 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion:225 Resp: 462

Ion	Ratio	Lower	Upper
225	100		
223	57.8	31.9	95.7
227	58.7	31.4	94.0





#95
Naphthalene
Concen: 0.707 ug/l
RT: 13.780 min Scan# 2(
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

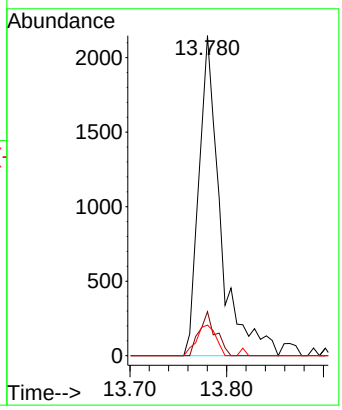
Tgt Ion:128 Resp: 333

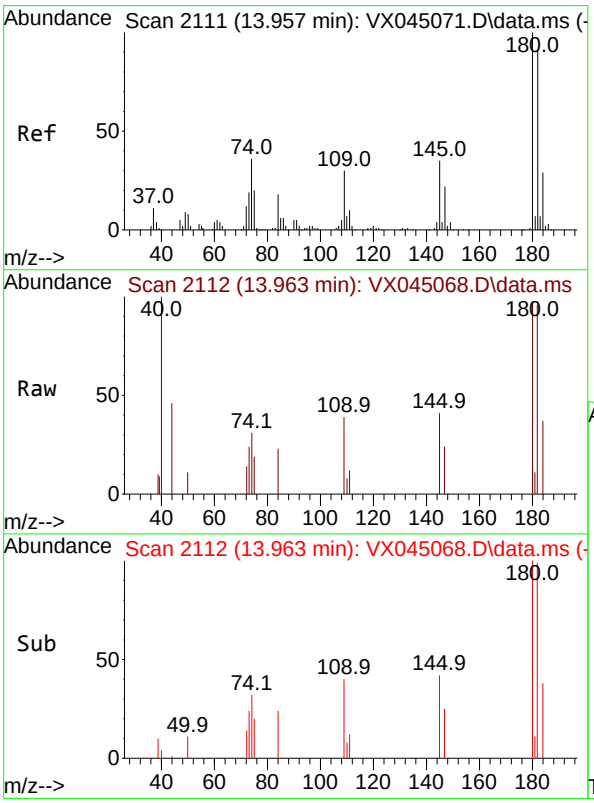
Ion	Ratio	Lower	Upper
128	100		
127	10.5	10.3	15.5
129	8.6	8.7	13.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

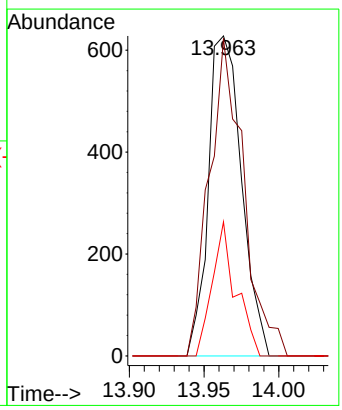




#96
1,2,3-Trichlorobenzene
Concen: 0.759 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. 0.006 min
Lab File: VX045068.D
Acq: 28 Feb 2025 01:27

Tgt Ion:180 Resp: 969

Ion	Ratio	Lower	Upper
180	100		
182	102.3	47.5	142.6
145	29.8	17.0	50.9



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045069.D
Acq On : 28 Feb 2025 02:13
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Feb 28 05:32:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 05:28:02 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	107391	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	194243	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	172367	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	73591	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	8978	5.659	ug/l	0.01
Spiked Amount 50.000	Range 74 - 125		Recovery = 11.320%#			
35) Dibromofluoromethane	5.391	113	6398	5.039	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 10.080%#			
50) Toluene-d8	8.647	98	24037	5.057	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 10.120%#			
62) 4-Bromofluorobenzene	11.079	95	7436	4.685	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 9.360%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	6941	4.689	ug/l	96
3) Chloromethane	1.307	50	8819	4.896	ug/l	99
4) Vinyl Chloride	1.374	62	8106	4.608	ug/l	94
5) Bromomethane	1.593	94	3620	6.582	ug/l	96
6) Chloroethane	1.660	64	4517	6.746	ug/l	91
7) Trichlorofluoromethane	1.867	101	11392	5.056	ug/l	95
8) Diethyl Ether	2.136	74	4314	5.268	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.319	101	6586	4.894	ug/l	98
10) Methyl Iodide	2.441	142	6520	3.780	ug/l	95
11) Tert butyl alcohol	2.983	59	10164m	34.976	ug/l	
12) 1,1-Dichloroethene	2.313	96	6658	4.819	ug/l	94
13) Acrolein	2.233	56	8725	27.725	ug/l	97
14) Allyl chloride	2.654	41	11244	4.527	ug/l	96
15) Acrylonitrile	3.068	53	21381	27.072	ug/l	99
16) Acetone	2.386	43	19512	29.891	ug/l	97
17) Carbon Disulfide	2.502	76	16984	4.518	ug/l	99
18) Methyl Acetate	2.703	43	8964	4.559	ug/l	97
19) Methyl tert-butyl Ether	3.117	73	20546	4.651	ug/l	95
20) Methylene Chloride	2.782	84	7835	5.068	ug/l	97
21) trans-1,2-Dichloroethene	3.087	96	6651	4.895	ug/l	94
22) Diisopropyl ether	3.763	45	23151	4.875	ug/l #	82
23) Vinyl Acetate	3.721	43	88852	22.788	ug/l	98
24) 1,1-Dichloroethane	3.605	63	13132	4.949	ug/l	99
25) 2-Butanone	4.574	43	29277	27.819	ug/l	99
26) 2,2-Dichloropropane	4.471	77	6034	3.059	ug/l	97
27) cis-1,2-Dichloroethene	4.483	96	8012	4.892	ug/l	97
28) Bromochloromethane	4.904	49	6797	5.311	ug/l #	96
29) Tetrahydrofuran	5.013	42	20186	28.950	ug/l	99
30) Chloroform	5.093	83	13390	5.159	ug/l	96
31) Cyclohexane	5.464	56	10968	4.504	ug/l	95
32) 1,1,1-Trichloroethane	5.385	97	10654	4.876	ug/l	100
36) 1,1-Dichloropropene	5.690	75	8977	4.917	ug/l #	83
37) Ethyl Acetate	4.727	43	10459	5.035	ug/l	98
38) Carbon Tetrachloride	5.666	117	8997	5.013	ug/l	95
39) Methylcyclohexane	7.379	83	10291	4.414	ug/l	97
40) Benzene	6.037	78	28339	4.966	ug/l	97

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045069.D
Acq On : 28 Feb 2025 02:13
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Feb 28 05:32:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 05:28:02 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	4.922	41	5700	5.136 ug/l	95
42) 1,2-Dichloroethane	6.092	62	10189	5.510 ug/l	98
43) Isopropyl Acetate	6.348	43	15543	4.700 ug/l	99
44) Trichloroethene	7.129	130	6827	5.234 ug/l	99
45) 1,2-Dichloropropane	7.427	63	7342	5.177 ug/l	95
46) Dibromomethane	7.586	93	5146	5.195 ug/l	97
47) Bromodichloromethane	7.824	83	9773	5.100 ug/l	99
48) Methyl methacrylate	7.696	41	8201	5.224 ug/l	95
49) 1,4-Dioxane	7.665	88	3531	105.826 ug/l	95
51) 4-Methyl-2-Pentanone	8.574	43	55320	27.303 ug/l	99
52) Toluene	8.720	92	16933	4.997 ug/l	99
53) t-1,3-Dichloropropene	8.982	75	7548	3.985 ug/l	94
54) cis-1,3-Dichloropropene	8.366	75	8988	4.244 ug/l	92
55) 1,1,2-Trichloroethane	9.153	97	6759	5.151 ug/l	97
56) Ethyl methacrylate	9.116	69	9712	4.628 ug/l	98
57) 1,3-Dichloropropane	9.305	76	12106	5.289 ug/l	100
58) 2-Chloroethyl Vinyl ether	8.238	63	23212	22.527 ug/l	99
59) 2-Hexanone	9.433	43	39994	27.363 ug/l	99
60) Dibromochloromethane	9.519	129	6785	4.846 ug/l	98
61) 1,2-Dibromoethane	9.610	107	6832	5.161 ug/l	95
64) Tetrachloroethene	9.269	164	5615	5.128 ug/l	93
65) Chlorobenzene	10.079	112	18161	4.908 ug/l	97
66) 1,1,1,2-Tetrachloroethane	10.159	131	5702	4.781 ug/l	96
67) Ethyl Benzene	10.195	91	30918	4.725 ug/l	98
68) m/p-Xylenes	10.299	106	23152	9.608 ug/l	97
69) o-Xylene	10.640	106	11881	4.914 ug/l	95
70) Styrene	10.659	104	18278	4.704 ug/l	99
71) Bromoform	10.799	173	4027	4.541 ug/l #	98
73) Isopropylbenzene	10.963	105	29685	4.991 ug/l	98
74) N-amyl acetate	10.848	43	11609	4.300 ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.213	83	10881	5.310 ug/l	100
76) 1,2,3-Trichloropropane	11.238	75	8839m	5.384 ug/l	
77) Bromobenzene	11.195	156	6970	5.163 ug/l	96
78) n-propylbenzene	11.305	91	32196	4.694 ug/l	99
79) 2-Chlorotoluene	11.366	91	21253	5.048 ug/l	98
80) 1,3,5-Trimethylbenzene	11.451	105	23627	4.897 ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	1971	3.256 ug/l #	83
82) 4-Chlorotoluene	11.457	91	22190	4.761 ug/l	98
83) tert-Butylbenzene	11.713	119	23960	4.910 ug/l	97
84) 1,2,4-Trimethylbenzene	11.750	105	23561	4.960 ug/l	99
85) sec-Butylbenzene	11.890	105	28314	4.687 ug/l	99
86) p-Isopropyltoluene	12.006	119	21977	4.532 ug/l	97
87) 1,3-Dichlorobenzene	11.969	146	12157	4.926 ug/l	98
88) 1,4-Dichlorobenzene	12.042	146	12526	5.014 ug/l	96
89) n-Butylbenzene	12.335	91	17358	4.072 ug/l	99
90) Hexachloroethane	12.536	117	3665	4.052 ug/l	96
91) 1,2-Dichlorobenzene	12.335	146	12477	5.138 ug/l	95
92) 1,2-Dibromo-3-Chloropr...	12.945	75	1787	4.712 ug/l	90
93) 1,2,4-Trichlorobenzene	13.591	180	6040	4.114 ug/l	97
94) Hexachlorobutadiene	13.725	225	2716	4.640 ug/l	97
95) Naphthalene	13.780	128	22927	4.287 ug/l	99
96) 1,2,3-Trichlorobenzene	13.963	180	6600	4.437 ug/l	98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045069.D
Acq On : 28 Feb 2025 02:13
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

Quant Time: Feb 28 05:32:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 05:28:02 2025
Response via : Initial Calibration

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

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

Quantitation Report (QT Reviewed)

ICAL Form

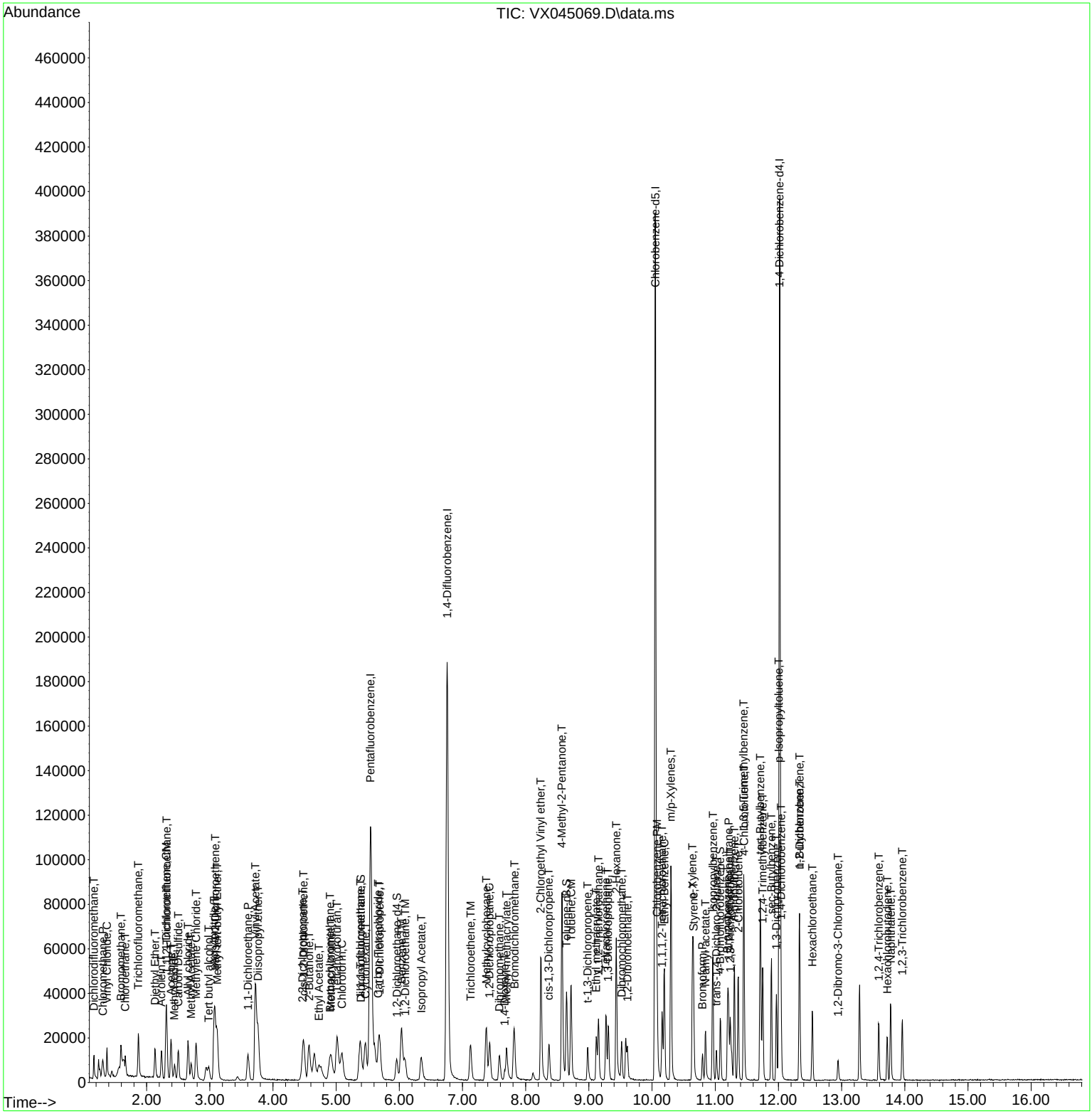
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045069.D
Acq On : 28 Feb 2025 02:13
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 18 Sample Multiplier: 1

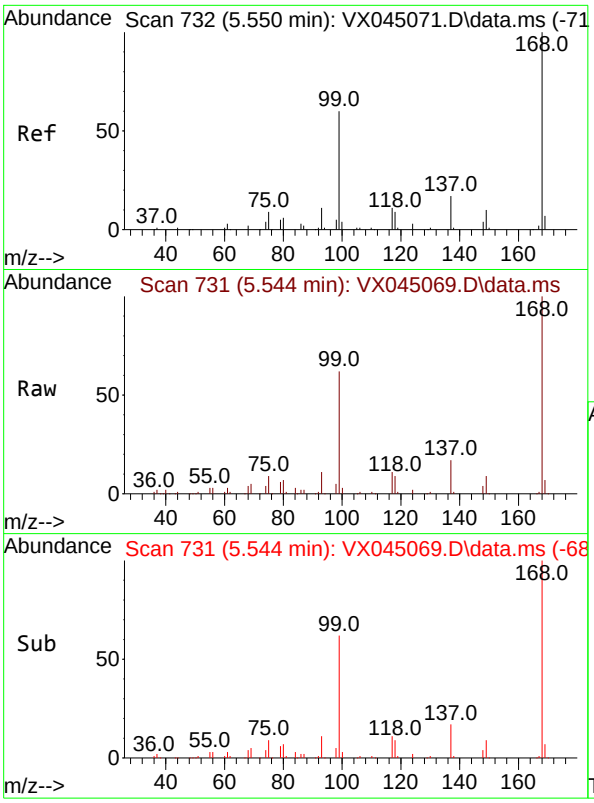
Quant Time: Feb 28 05:32:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 05:28:02 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

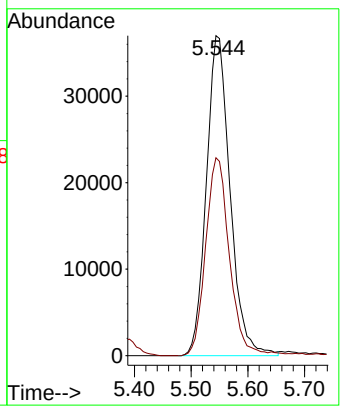
Tgt Ion:168 Resp: 10739

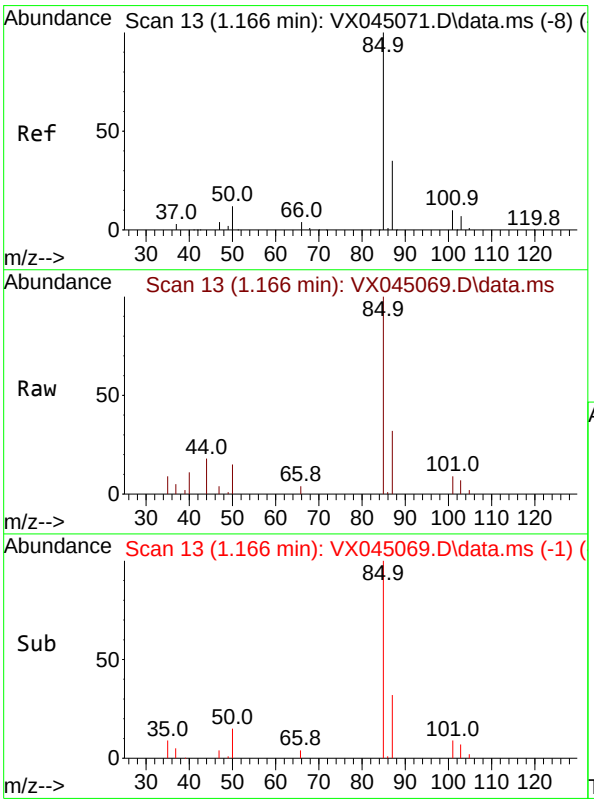
Ion	Ratio	Lower	Upper
168	100		
99	61.8	48.2	72.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

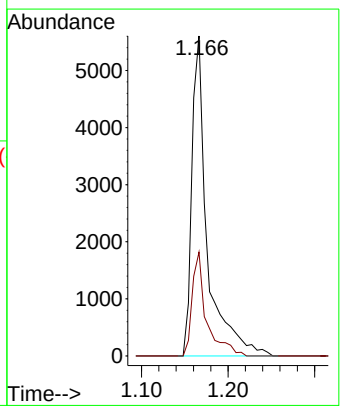


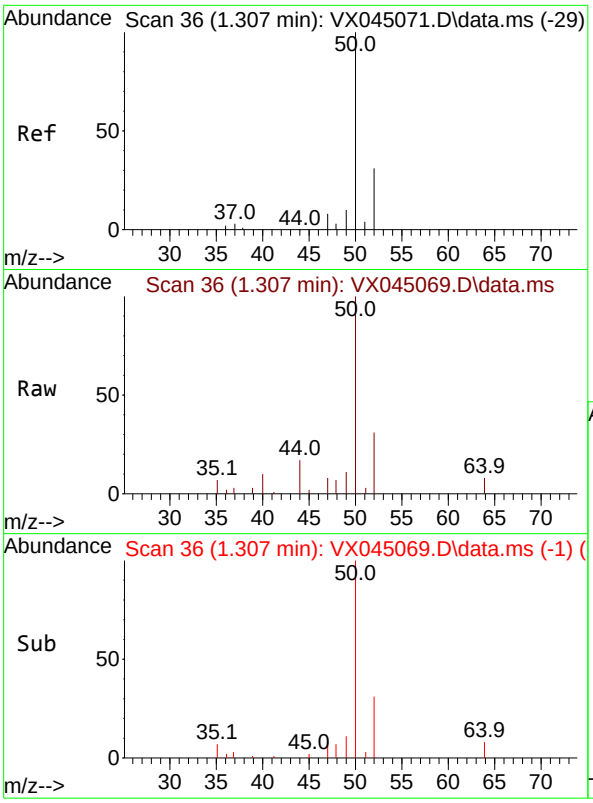


#2
Dichlorodifluoromethane
Concen: 4.689 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 85 Resp: 6941

Ion	Ratio	Lower	Upper
85	100		
87	32.4	17.4	52.3





#3
Chloromethane
Concen: 4.896 ug/l
RT: 1.307 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

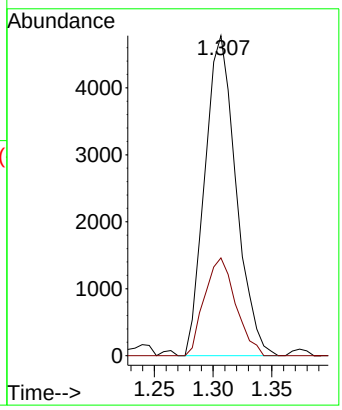
Tgt Ion: 50 Resp: 881

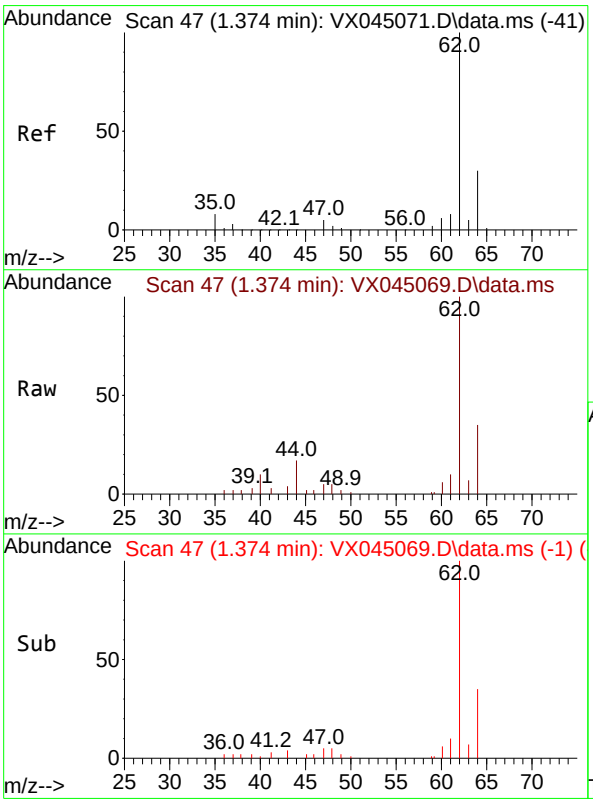
Ion	Ratio	Lower	Upper
50	100		
52	30.6	25.0	37.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

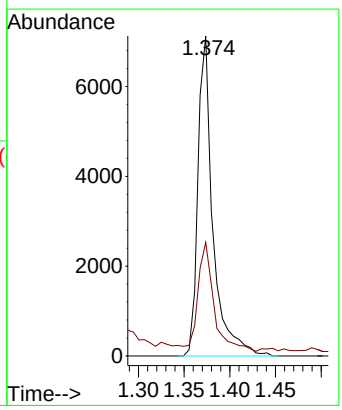


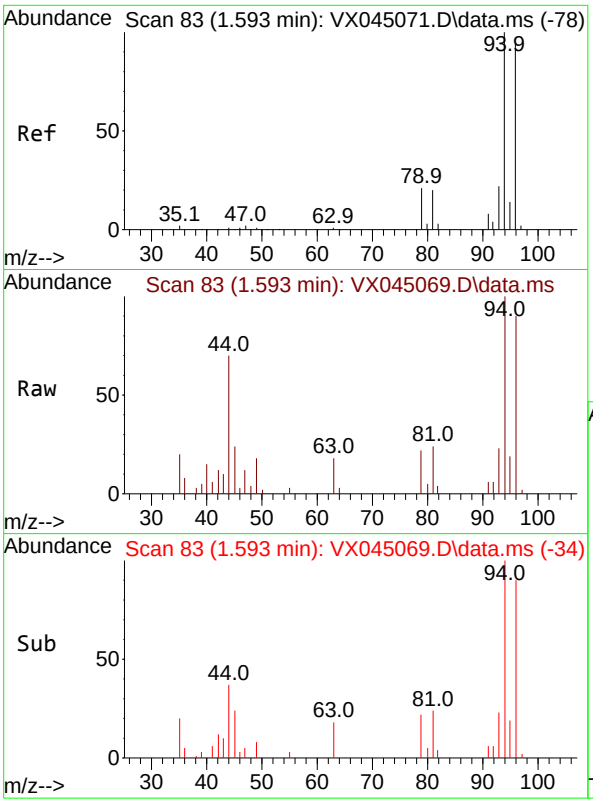


#4
Vinyl Chloride
Concen: 4.608 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 62 Resp: 8106

Ion	Ratio	Lower	Upper
62	100		
64	33.9	24.3	36.5





#5
Bromomethane
Concen: 6.582 ug/l
RT: 1.593 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

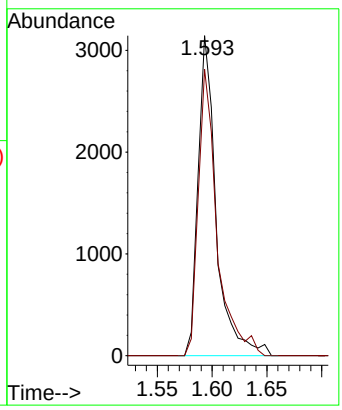
Tgt Ion: 94 Resp: 362

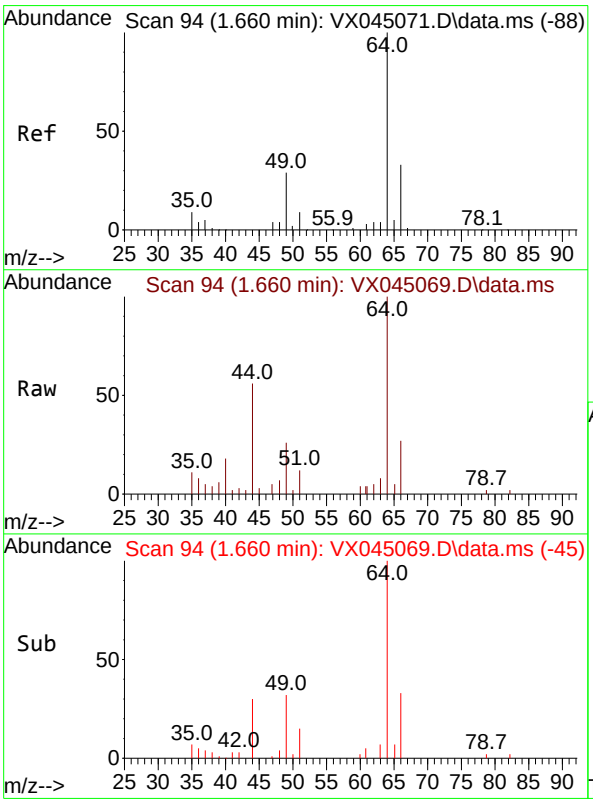
Ion	Ratio	Lower	Upper
94	100		
96	89.5	75.0	112.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

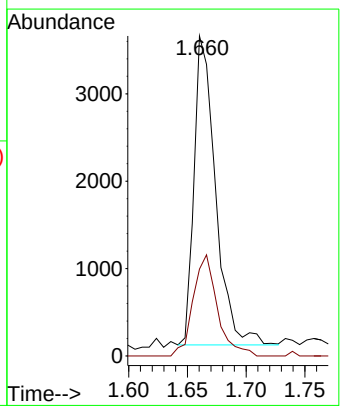


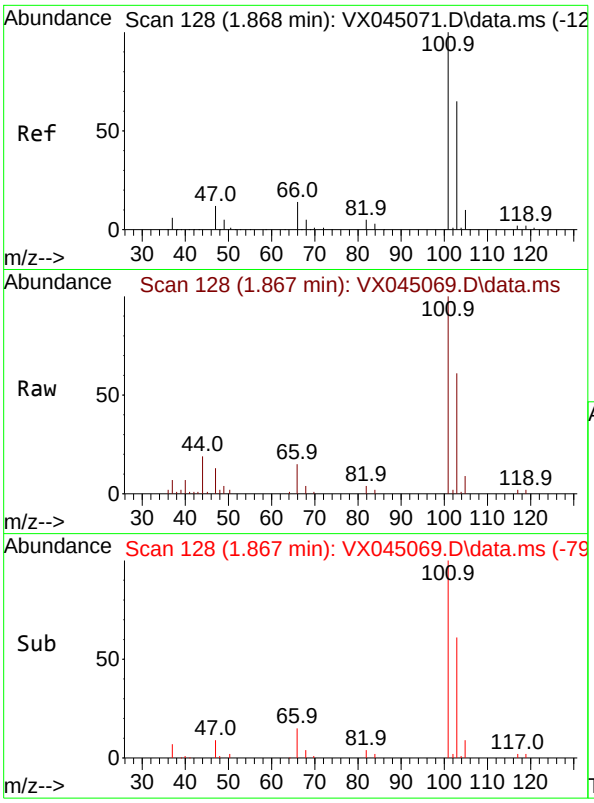


#6
Chloroethane
Concen: 6.746 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 64 Resp: 4517

Ion	Ratio	Lower	Upper
64	100		
66	28.1	26.7	40.1





#7
Trichlorofluoromethane
Concen: 5.056 ug/l
RT: 1.867 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

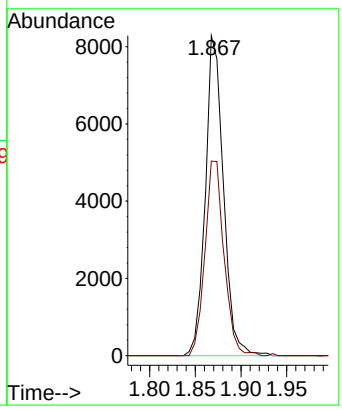
Tgt Ion:101 Resp: 1139

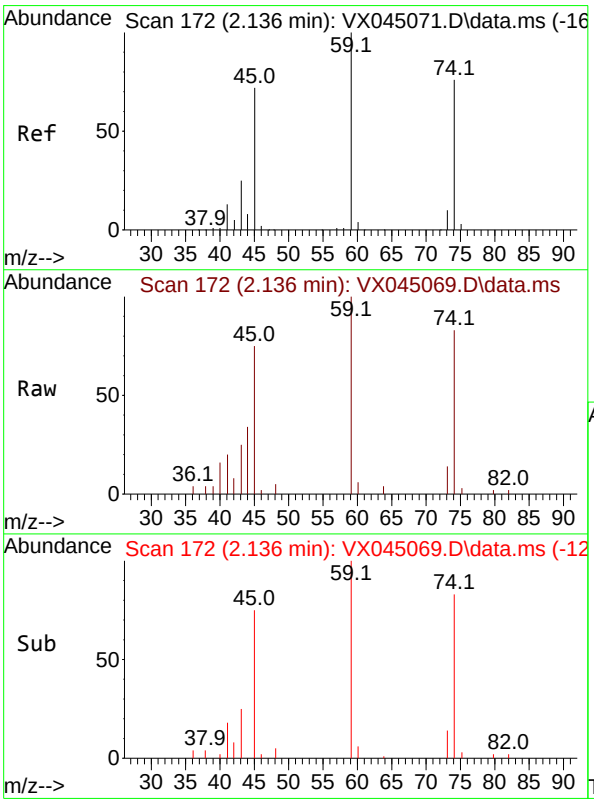
Ion	Ratio	Lower	Upper
101	100		
103	60.8	52.1	78.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

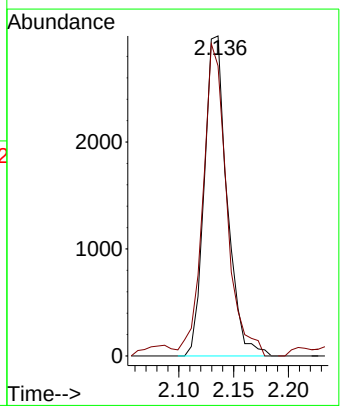


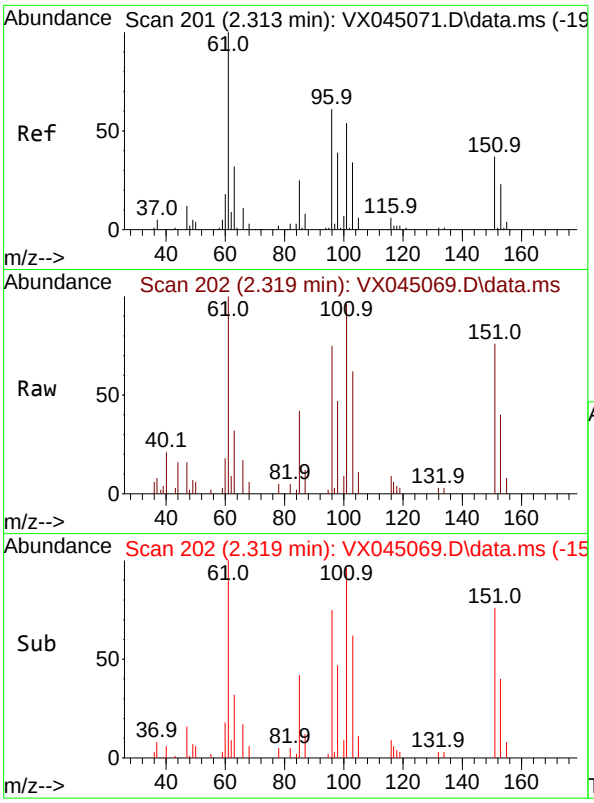


#8
Diethyl Ether
Concen: 5.268 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 74 Resp: 4314

Ion	Ratio	Lower	Upper
74	100		
45	101.9	51.5	154.5





#9
1,1,2-Trichlorotrifluoroethane
Concen: 4.894 ug/l
RT: 2.319 min Scan# 2(
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

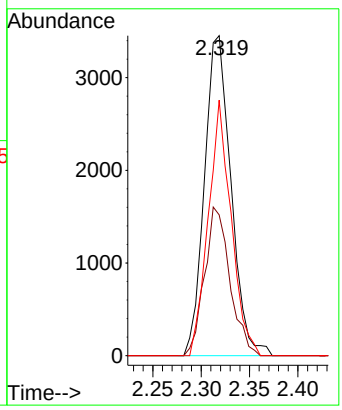
Tgt Ion:101 Resp: 658(

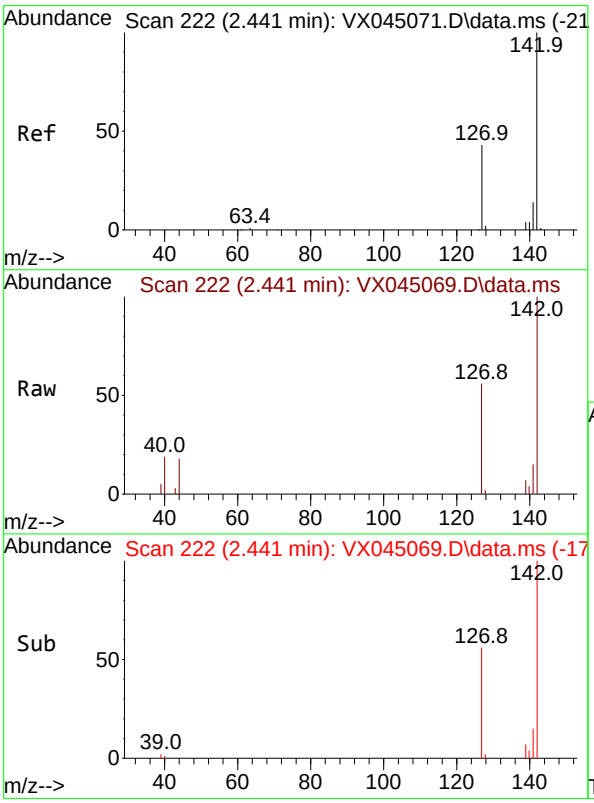
Ion	Ratio	Lower	Upper
101	100		
85	44.4	36.2	54.4
151	69.0	56.4	84.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

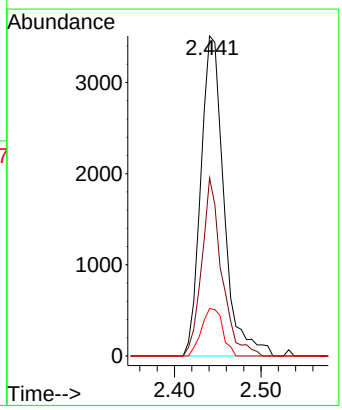


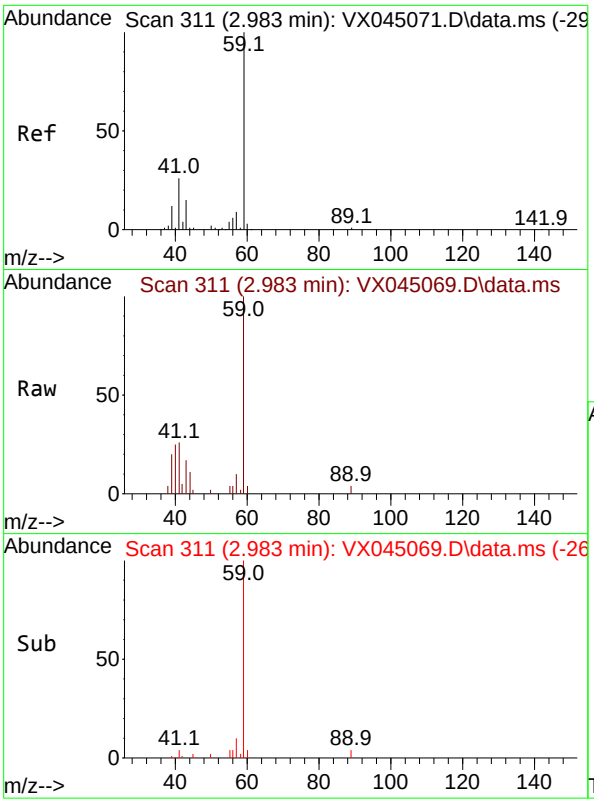


#10
Methyl Iodide
Concen: 3.780 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion:142 Resp: 6520

Ion	Ratio	Lower	Upper
142	100		
127	48.1	35.4	53.2
141	13.5	11.6	17.4





#11
Tert butyl alcohol
Concen: 34.976 ug/l m
RT: 2.983 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

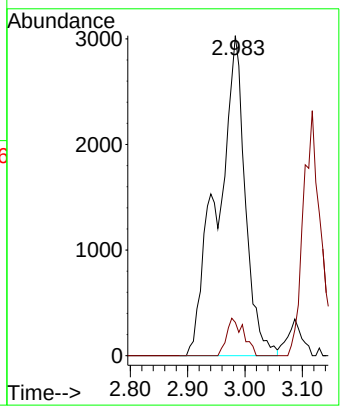
Tgt Ion: 59 Resp: 1016

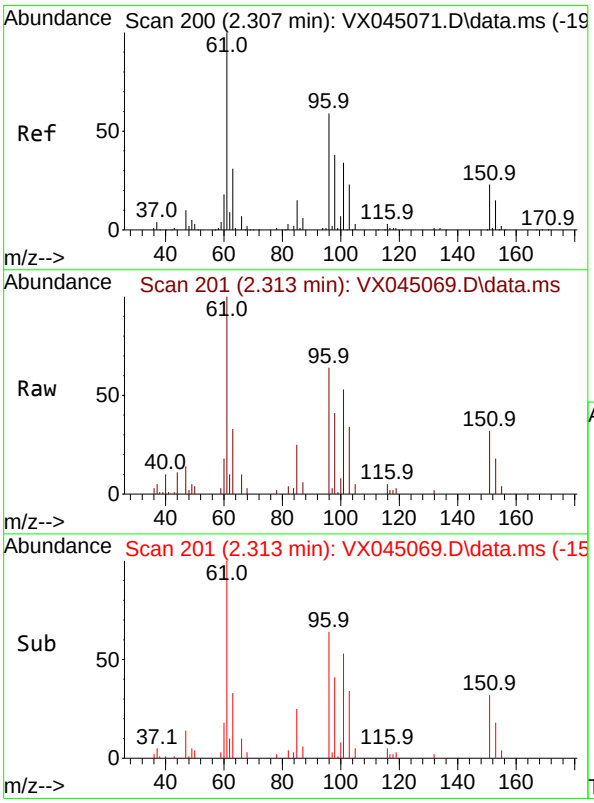
Ion	Ratio	Lower	Upper
59	100		
57	7.2	7.8	11.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

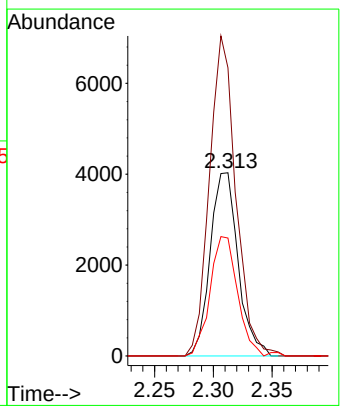


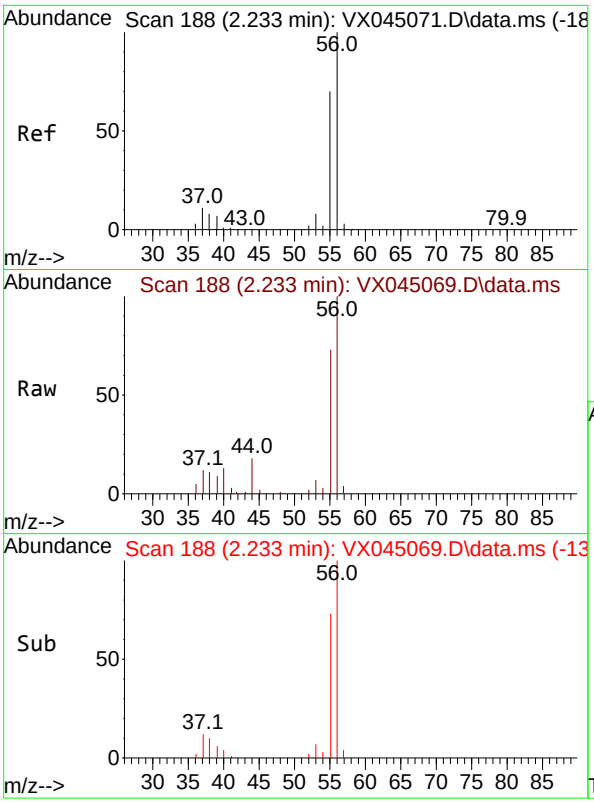


#12
1,1-Dichloroethene
Concen: 4.819 ug/l
RT: 2.313 min Scan# 201
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 96 Resp: 6658

Ion	Ratio	Lower	Upper
96	100		
61	157.3	134.6	202.0
98	64.3	51.0	76.6

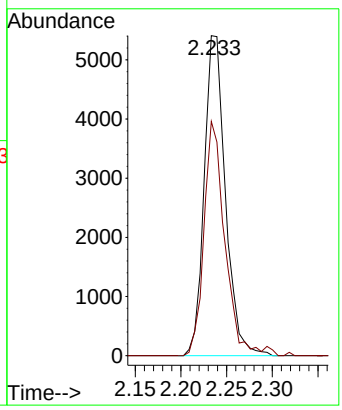




#13
Acrolein
Concen: 27.725 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 56 Resp: 872

Ion	Ratio	Lower	Upper
56	100		
55	72.4	56.2	84.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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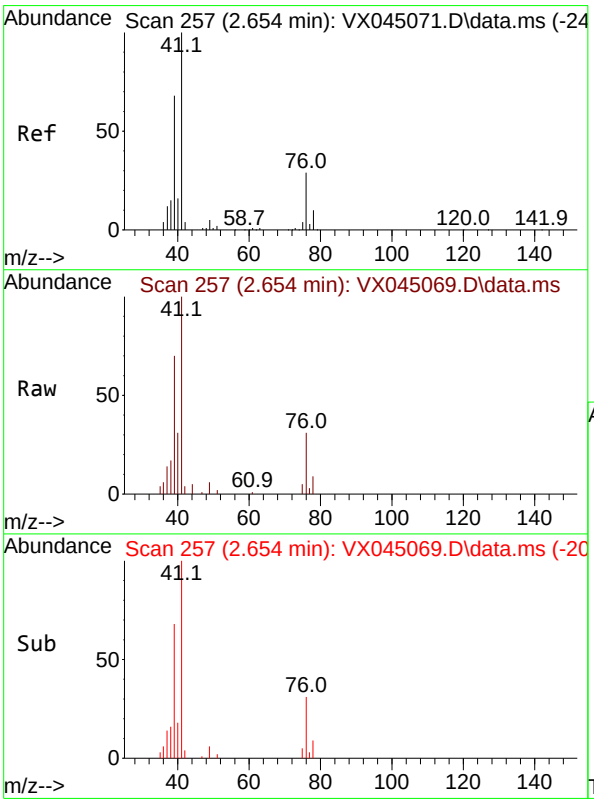
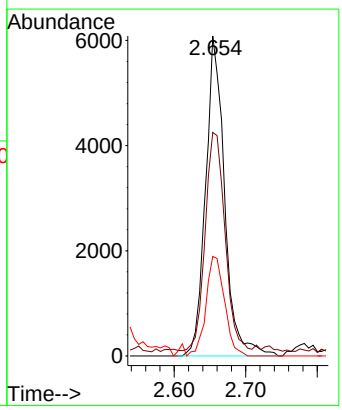
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

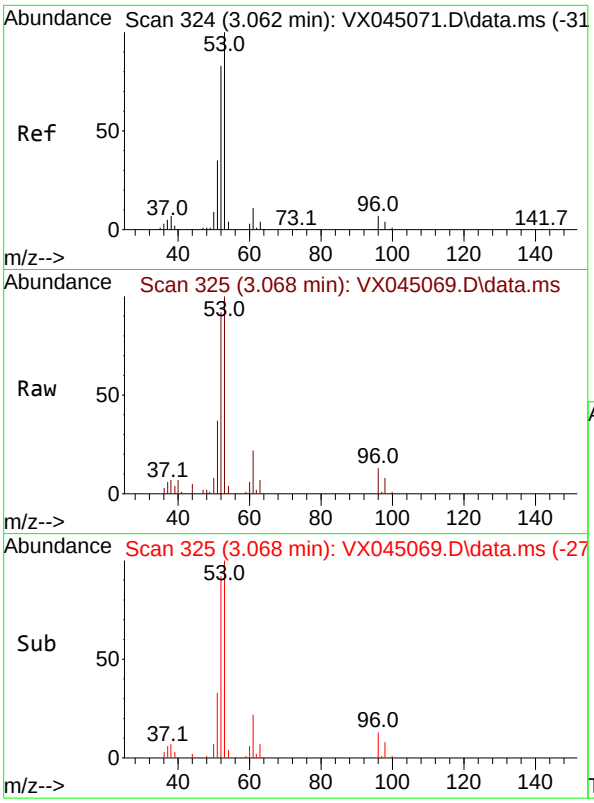


#14
Allyl chloride
Concen: 4.527 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 41 Resp: 11244

Ion	Ratio	Lower	Upper
41	100		
39	70.8	53.8	80.8
76	30.4	25.2	37.8





#15
Acrylonitrile
Concen: 27.072 ug/l
RT: 3.068 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 53 Resp: 2138

Ion	Ratio	Lower	Upper
53	100		
52	81.1	66.2	99.2
51	36.7	29.0	43.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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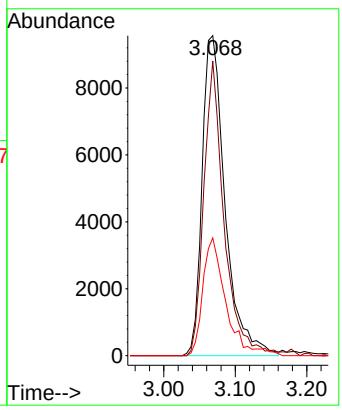
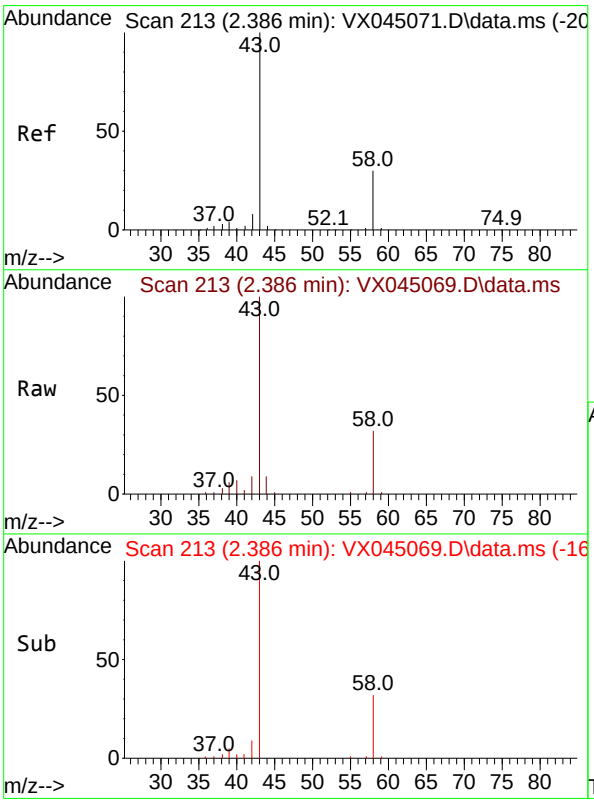
Supervised By :Mahesh Dadoda 02/28/2025

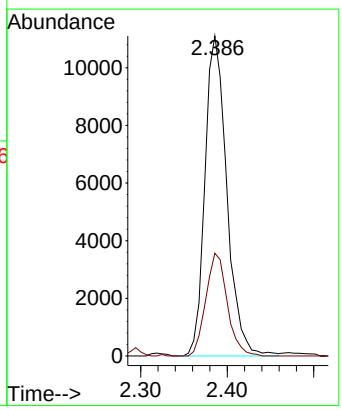


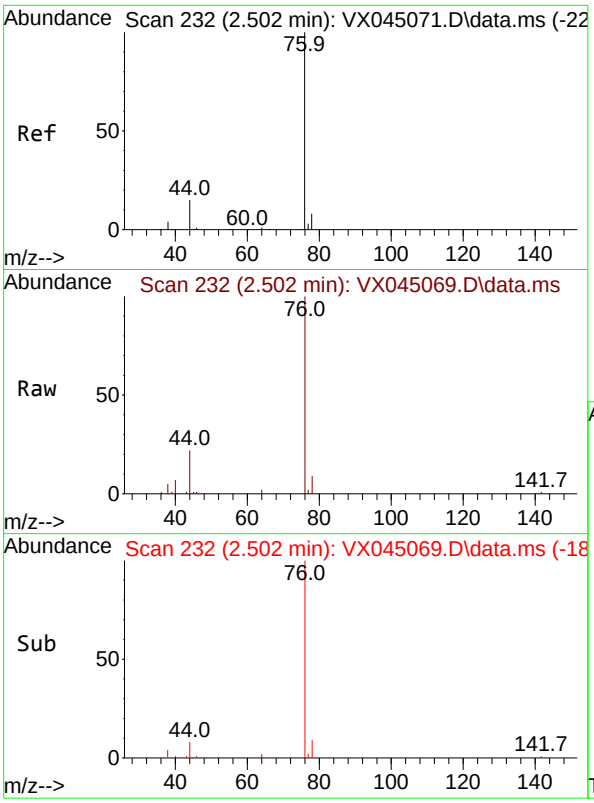


#16
Acetone
Concen: 29.891 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 43 Resp: 19512

Ion	Ratio	Lower	Upper
43	100		
58	32.1	24.2	36.4





#17
Carbon Disulfide
Concen: 4.518 ug/l
RT: 2.502 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 76 Resp: 1698

Ion	Ratio	Lower	Upper
76	100		
78	8.5	6.6	9.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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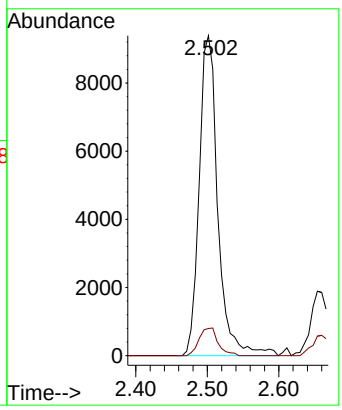
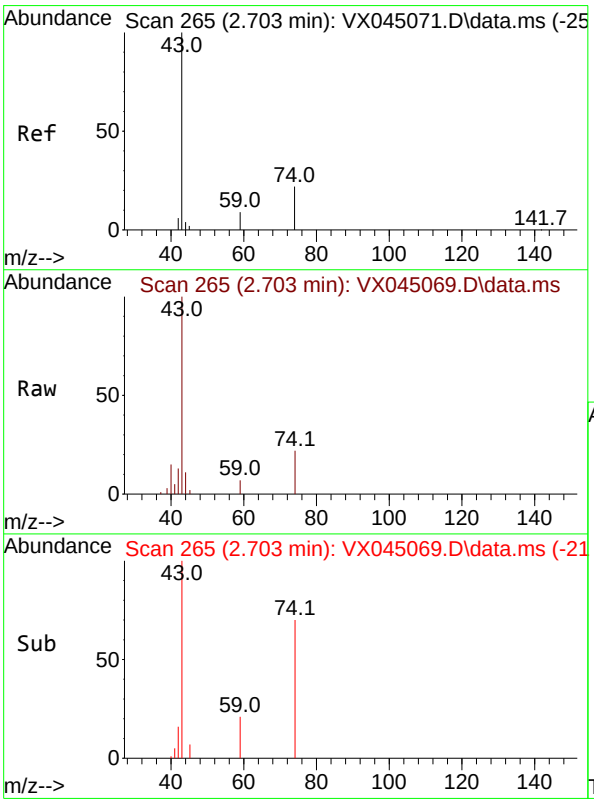
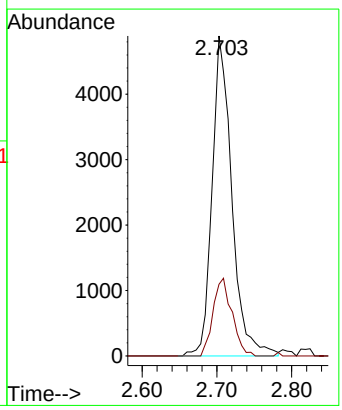


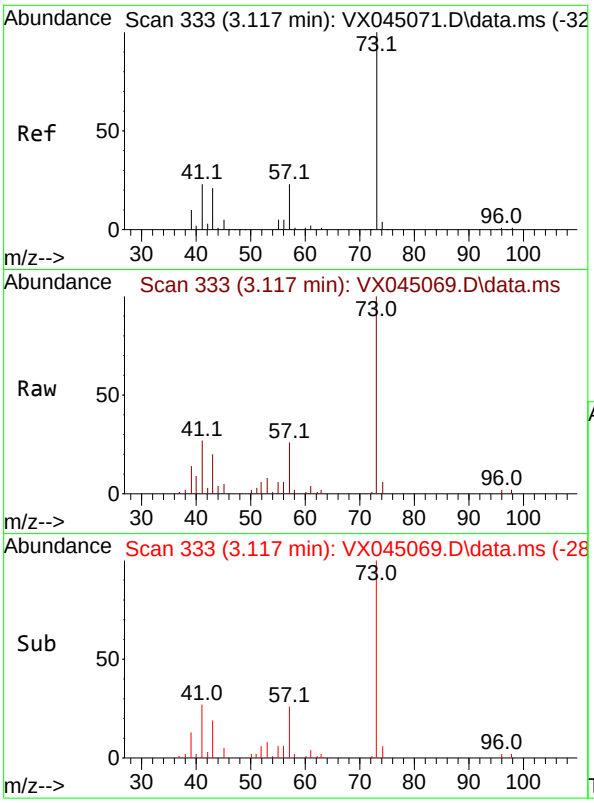


#18
Methyl Acetate
Concen: 4.559 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 43 Resp: 8964

Ion	Ratio	Lower	Upper
43	100		
74	23.3	17.4	26.2





#19
Methyl tert-butyl Ether
Concen: 4.651 ug/l
RT: 3.117 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 73 Resp: 2054

Ion	Ratio	Lower	Upper
73	100		
57	25.6	18.5	27.7

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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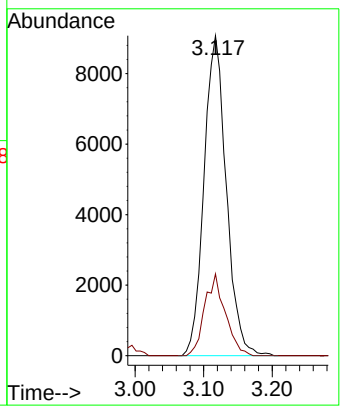
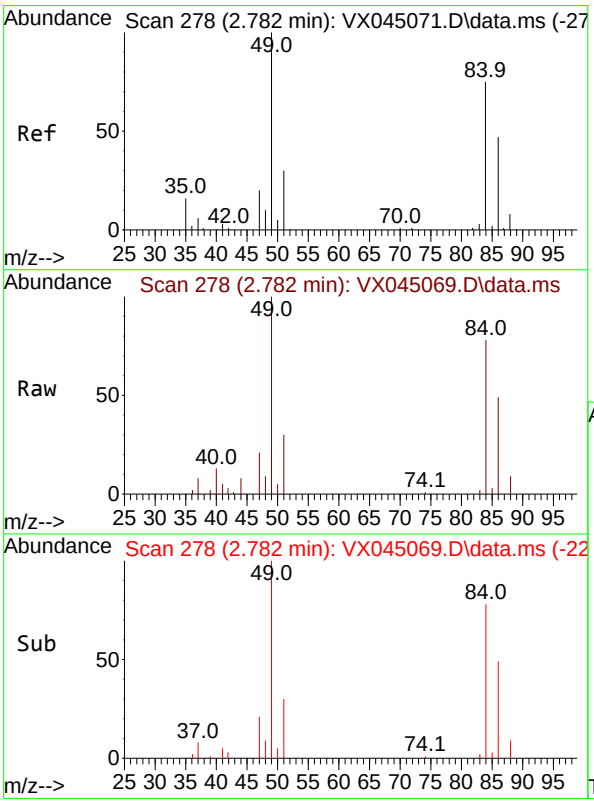
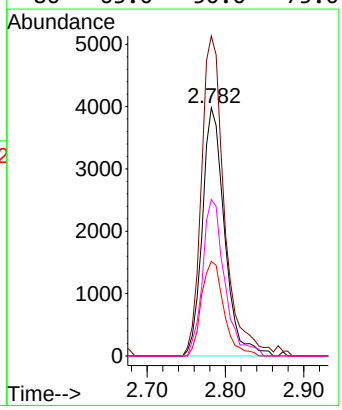


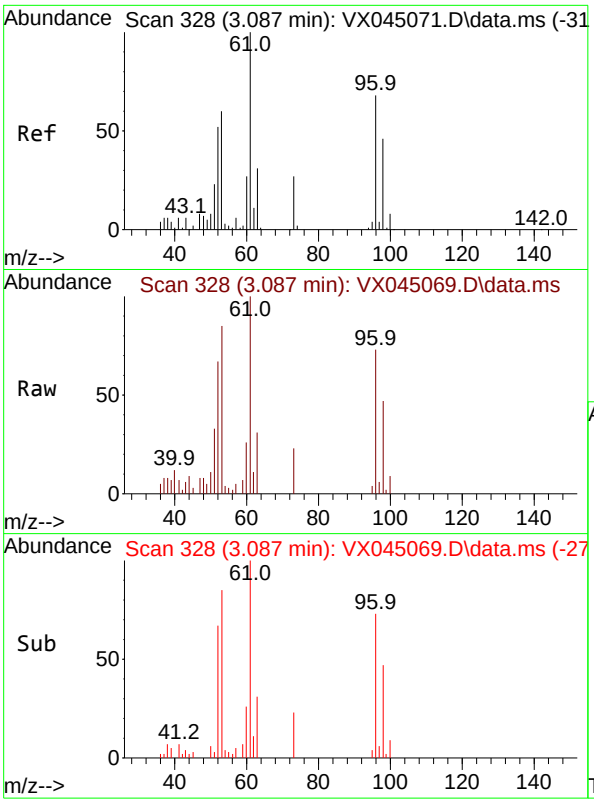


#20
Methylene Chloride
Concen: 5.068 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 84 Resp: 7835

Ion	Ratio	Lower	Upper
84	100		
49	128.9	106.5	159.7
51	38.1	32.1	48.1
86	63.0	50.0	75.0





#21
trans-1,2-Dichloroethene
Concen: 4.895 ug/l
RT: 3.087 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 96 Resp: 665

Ion	Ratio	Lower	Upper
96	100		
61	137.2	117.0	175.4
98	64.1	53.4	80.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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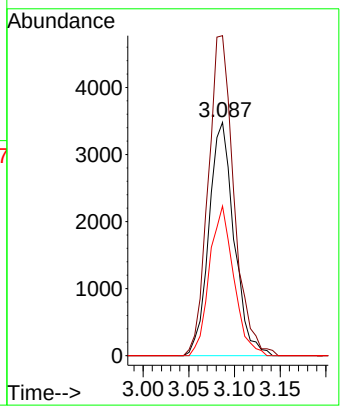
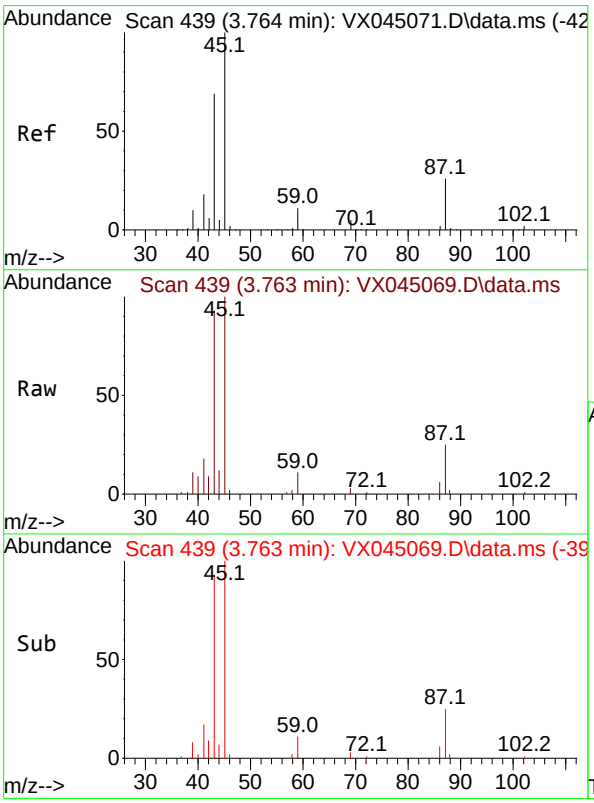
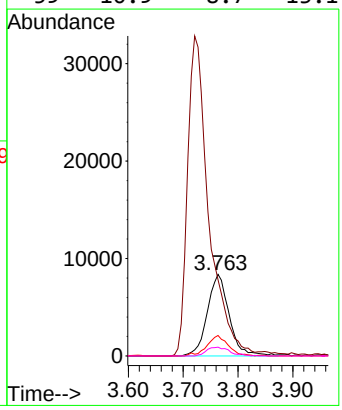


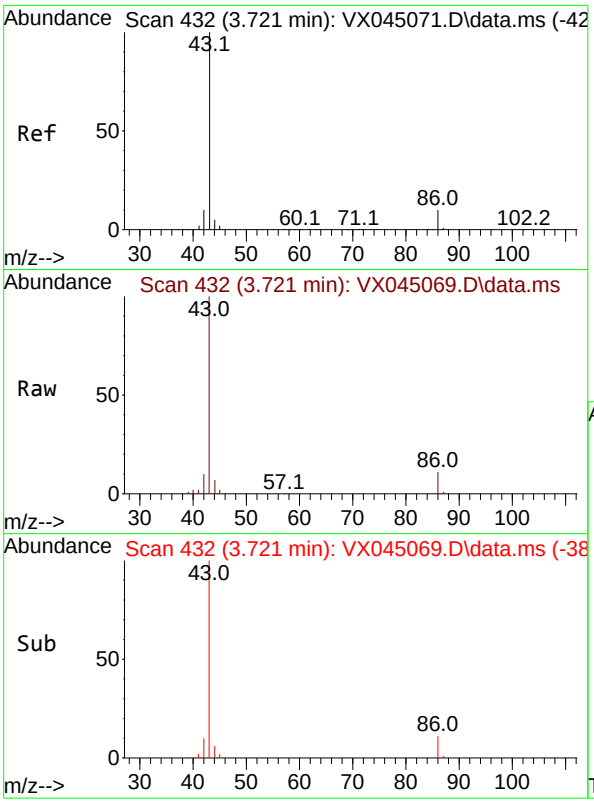


#22
Diisopropyl ether
Concen: 4.875 ug/l
RT: 3.763 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 45 Resp: 23151

Ion	Ratio	Lower	Upper
45	100		
43	90.2	54.9	82.3#
87	25.1	21.0	31.4
59	10.9	8.7	13.1





#23
Vinyl Acetate
Concen: 22.788 ug/l
RT: 3.721 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 43 Resp: 8885

Ion	Ratio	Lower	Upper
43	100		
86	10.7	8.1	12.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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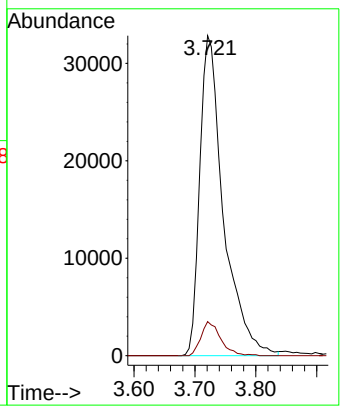
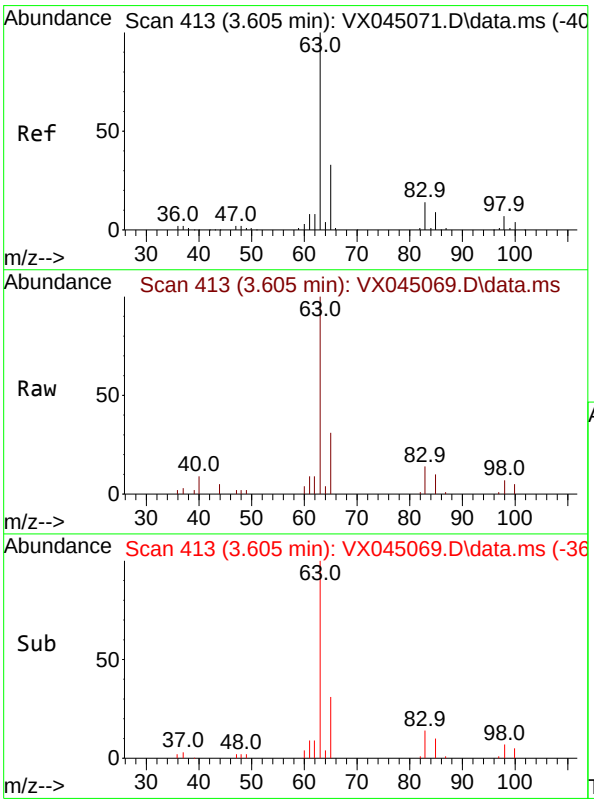
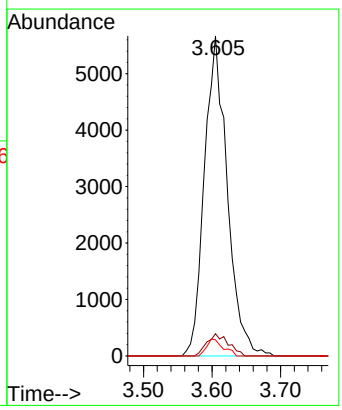


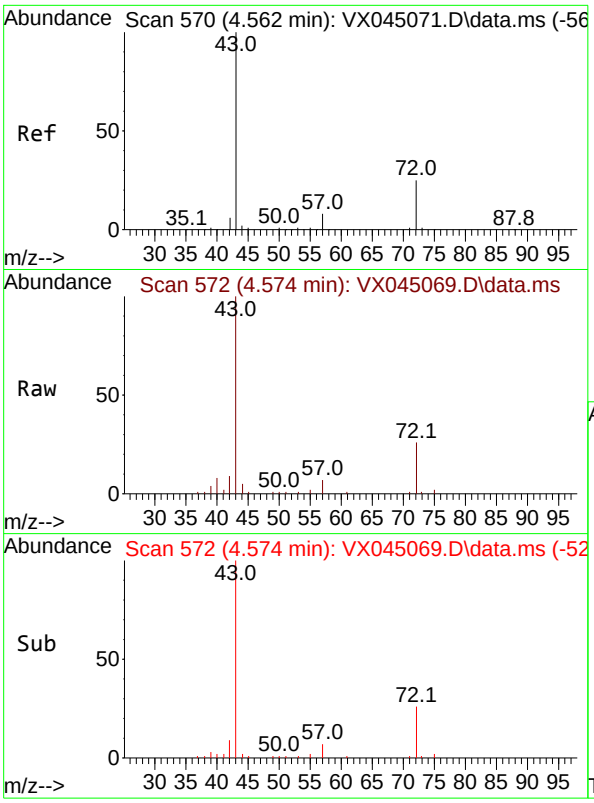


#24
1,1-Dichloroethane
Concen: 4.949 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 63 Resp: 13132

Ion	Ratio	Lower	Upper
63	100		
98	7.0	3.4	10.2
100	5.1	2.1	6.5





#25
2-Butanone
Concen: 27.819 ug/l
RT: 4.574 min Scan# 5
Delta R.T. 0.012 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 43 Resp: 2927

Ion	Ratio	Lower	Upper
43	100		
72	25.7	20.0	30.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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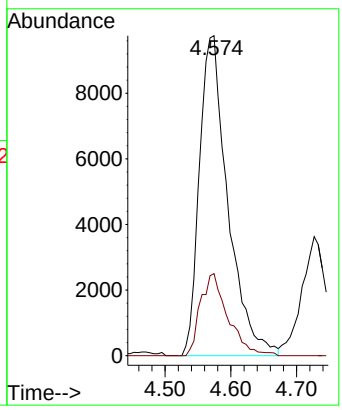
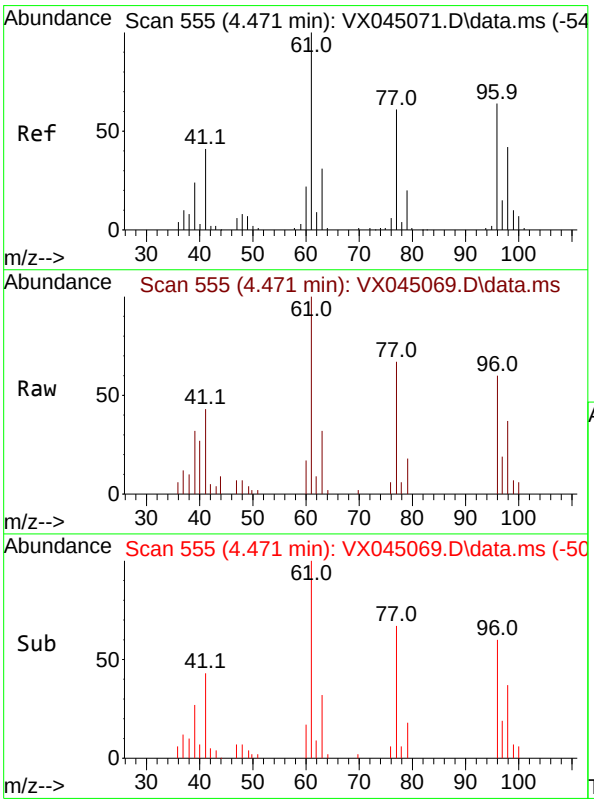
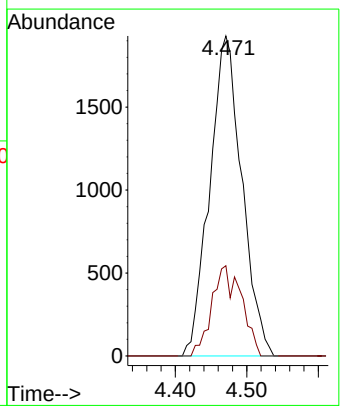


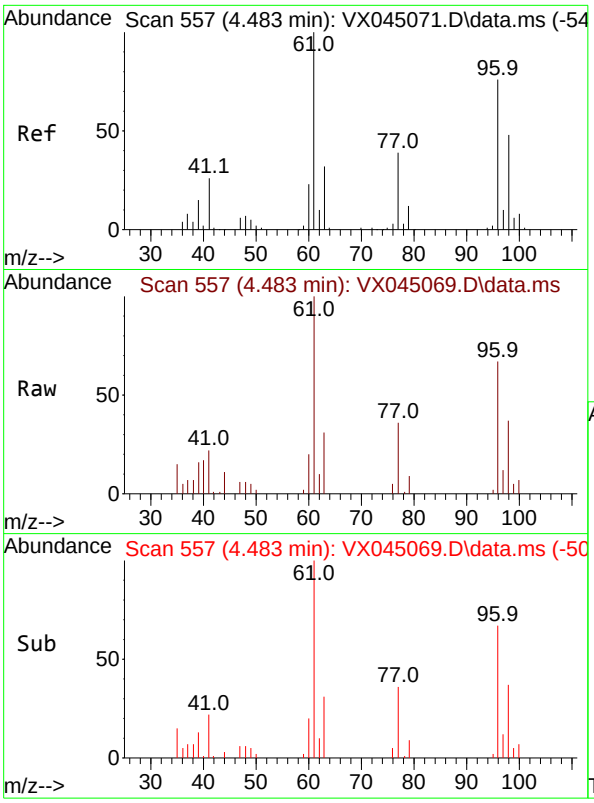


#26
2,2-Dichloropropane
Concen: 3.059 ug/l
RT: 4.471 min Scan# 555
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 77 Resp: 6034

Ion	Ratio	Lower	Upper
77	100		
97	26.0	12.4	37.0





#27
cis-1,2-Dichloroethene
Concen: 4.892 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 96 Resp: 801

Ion	Ratio	Lower	Upper
96	100		
61	146.1	0.0	283.2
98	62.0	0.0	128.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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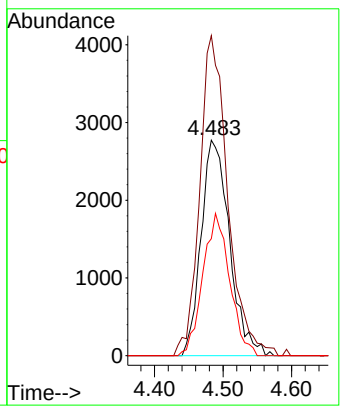
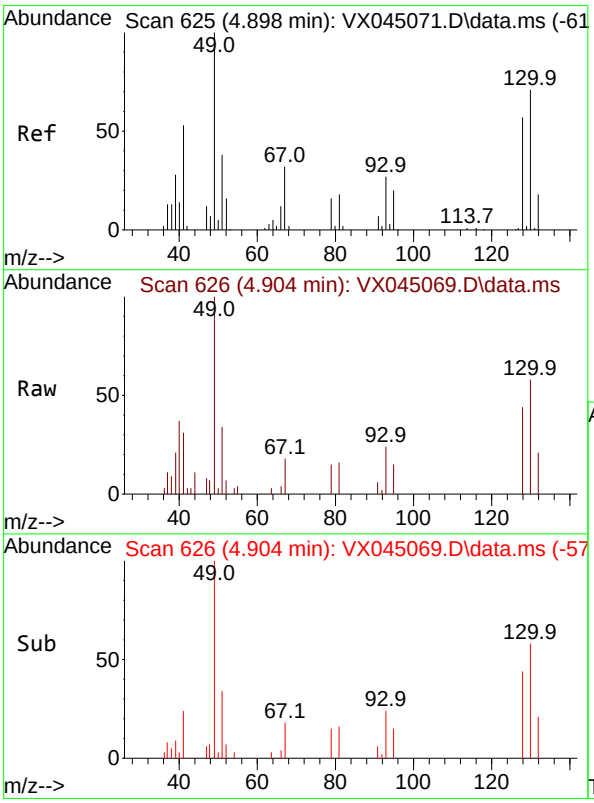
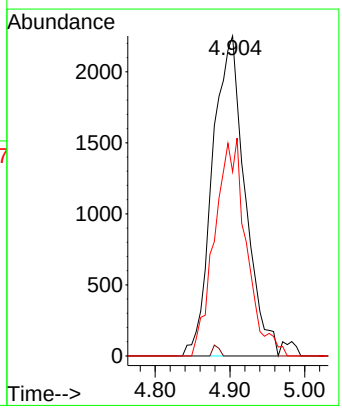


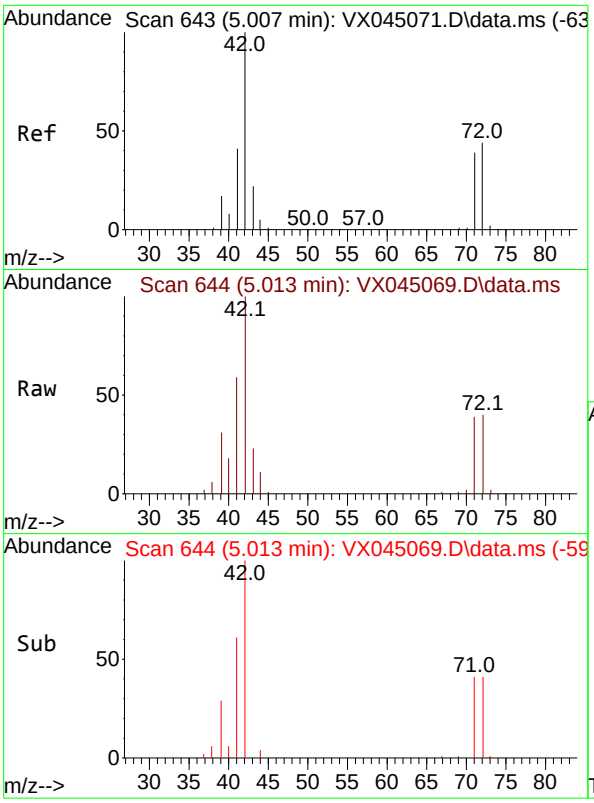


#28
Bromochloromethane
Concen: 5.311 ug/l
RT: 4.904 min Scan# 626
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 49 Resp: 6797

Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.4
130	66.5	56.1	84.1





#29
Tetrahydrofuran
Concen: 28.950 ug/l
RT: 5.013 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 42 Resp: 2018

Ion	Ratio	Lower	Upper
42	100		
72	41.2	34.1	51.1
71	39.3	31.4	47.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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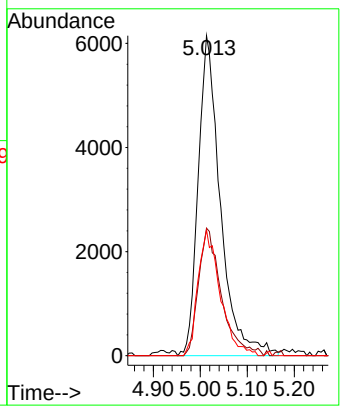
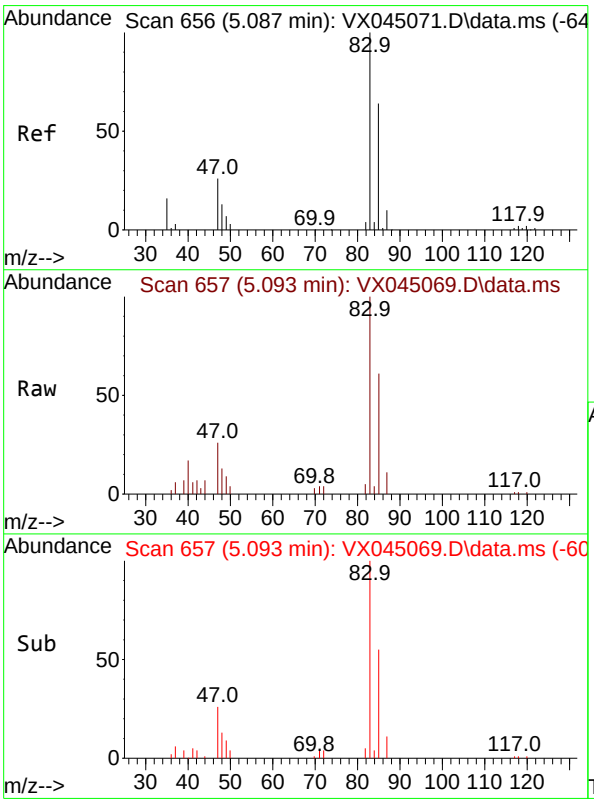
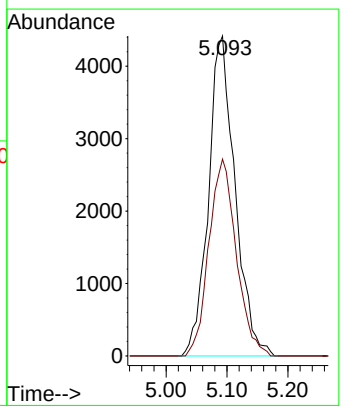


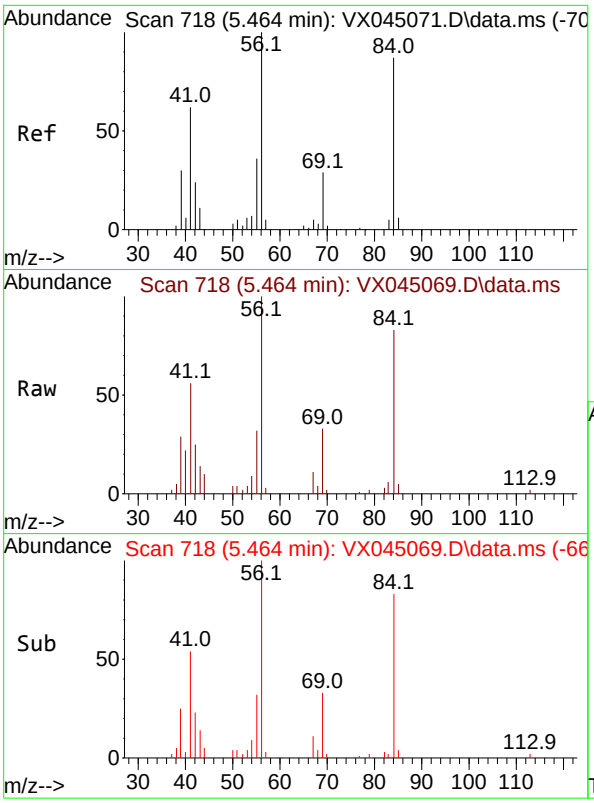


#30
Chloroform
Concen: 5.159 ug/l
RT: 5.093 min Scan# 657
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 83 Resp: 13390

Ion	Ratio	Lower	Upper
83	100		
85	61.5	51.4	77.2





#31
Cyclohexane
Concen: 4.504 ug/l
RT: 5.464 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 56 Resp: 1096

Ion	Ratio	Lower	Upper
56	100		
69	33.0	23.4	35.2
84	83.1	69.4	104.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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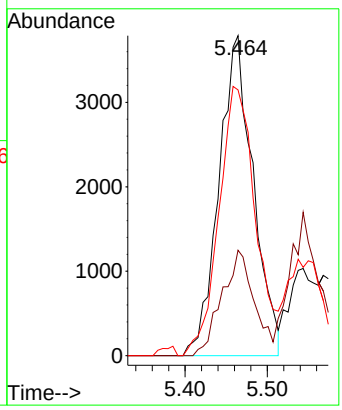
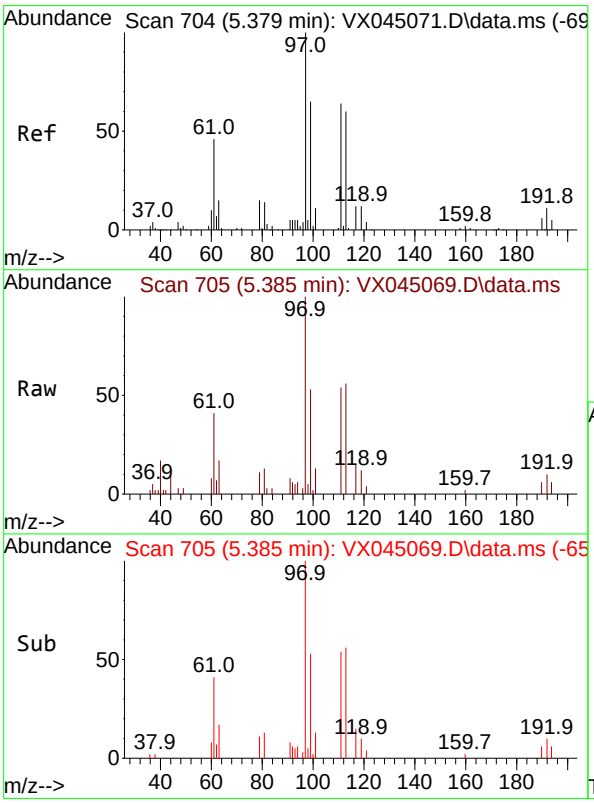
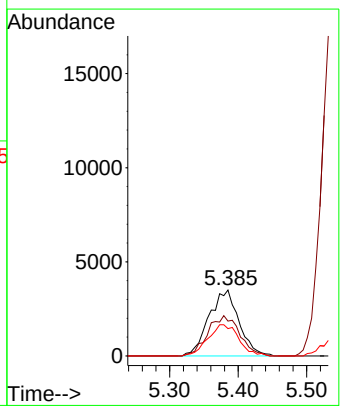


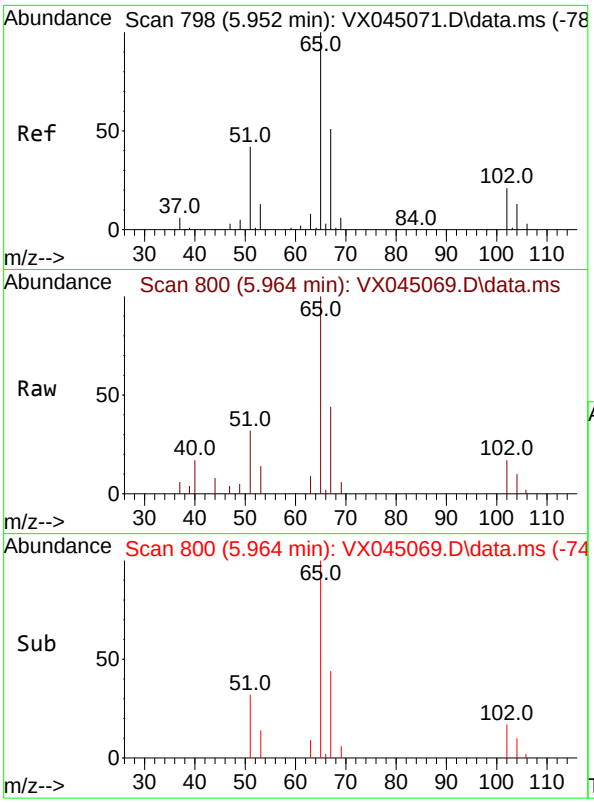


#32
1,1,1-Trichloroethane
Concen: 4.876 ug/l
RT: 5.385 min Scan# 705
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 97 Resp: 10654

Ion	Ratio	Lower	Upper
97	100		
99	64.5	51.6	77.4
61	48.7	38.4	57.6





#33
1,2-Dichloroethane-d4
Concen: 5.659 ug/l
RT: 5.964 min Scan# 8
Delta R.T. 0.012 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 65 Resp: 897

Ion	Ratio	Lower	Upper
65	100		
67	50.5	0.0	106.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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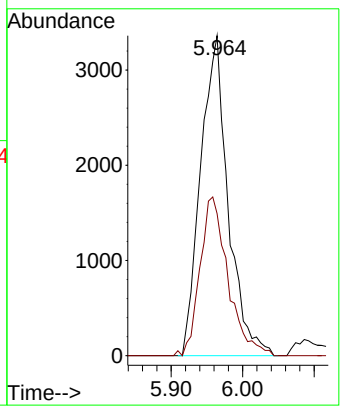
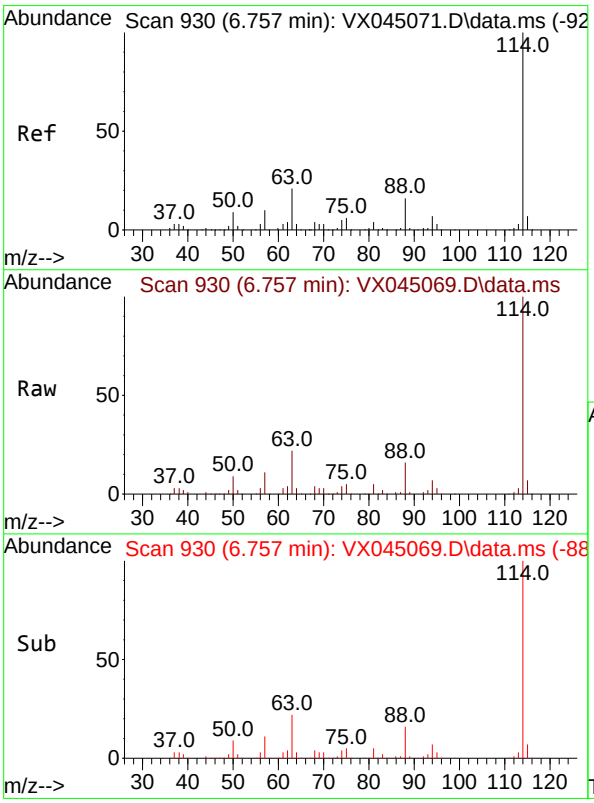
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

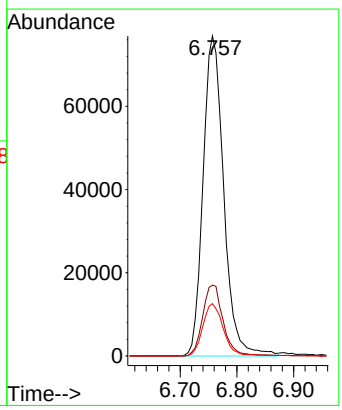


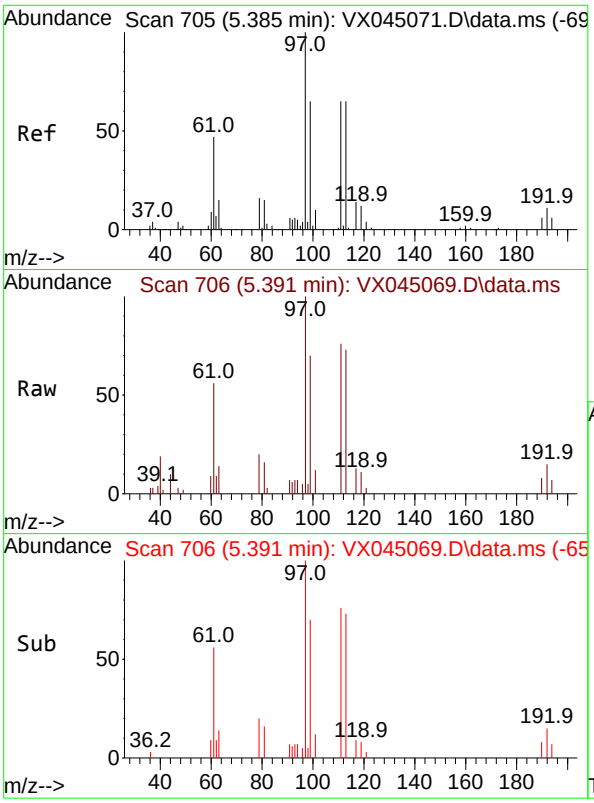


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion:114 Resp: 194243

Ion	Ratio	Lower	Upper
114	100		
63	22.1	0.0	41.8
88	16.4	0.0	32.8





#35
Dibromofluoromethane
Concen: 5.039 ug/l
RT: 5.391 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion:113 Resp: 639

Ion	Ratio	Lower	Upper
113	100		
111	103.9	81.8	122.6
192	18.3	14.3	21.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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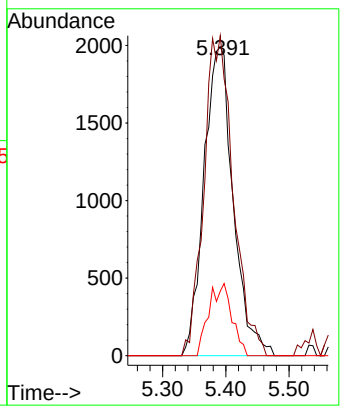
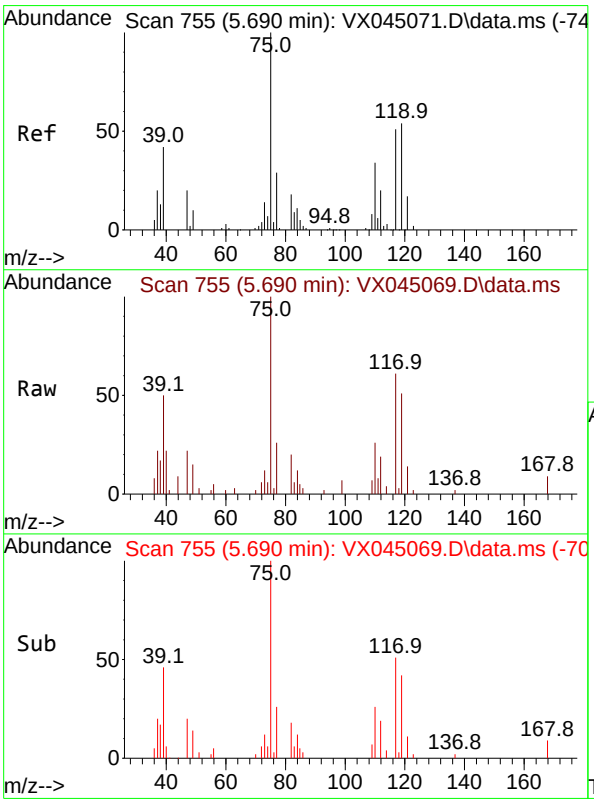
Supervised By :Mahesh Dadoda 02/28/2025

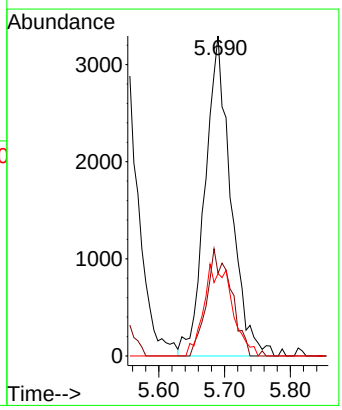


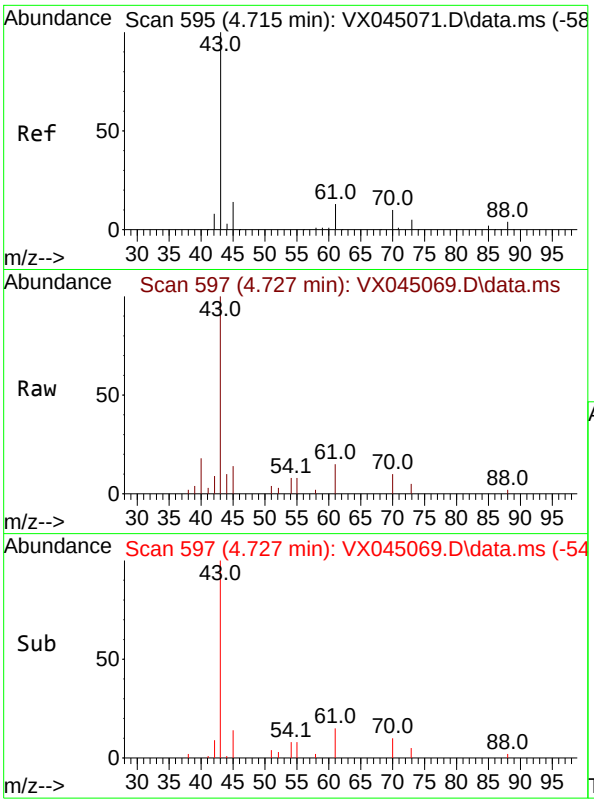


#36
1,1-Dichloropropene
Concen: 4.917 ug/l
RT: 5.690 min Scan# 755
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 75 Resp: 8977

Ion	Ratio	Lower	Upper
75	100		
110	31.8	16.9	50.6
77	13.2	24.5	36.7#





#37
Ethyl Acetate
Concen: 5.035 ug/l
RT: 4.727 min Scan# 5
Delta R.T. 0.012 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 43 Resp: 1045

Ion	Ratio	Lower	Upper
43	100		
61	14.4	10.8	16.2
70	10.2	7.7	11.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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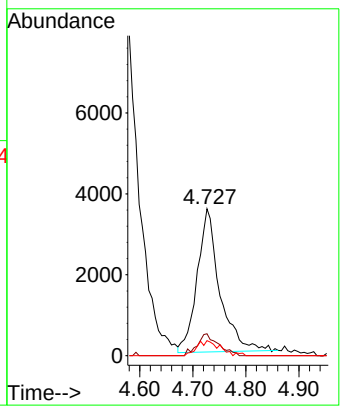
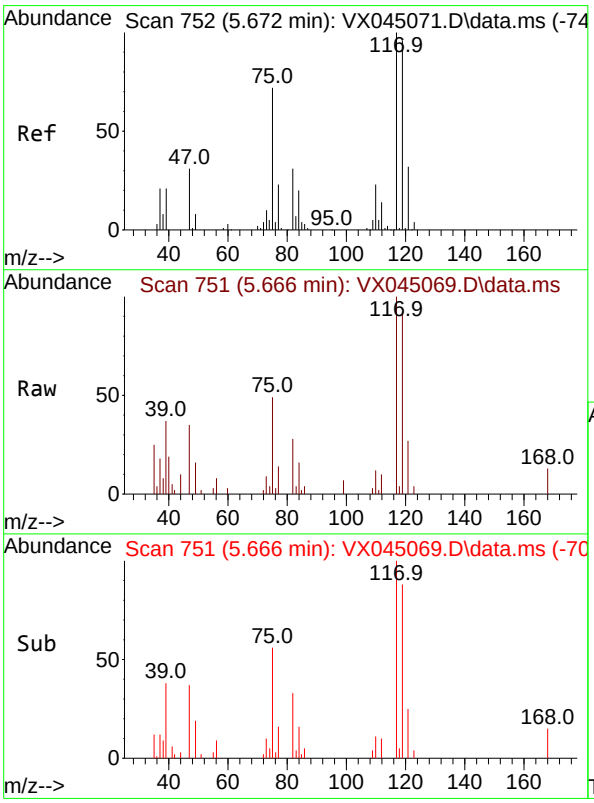
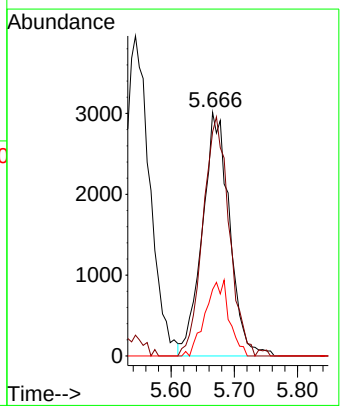


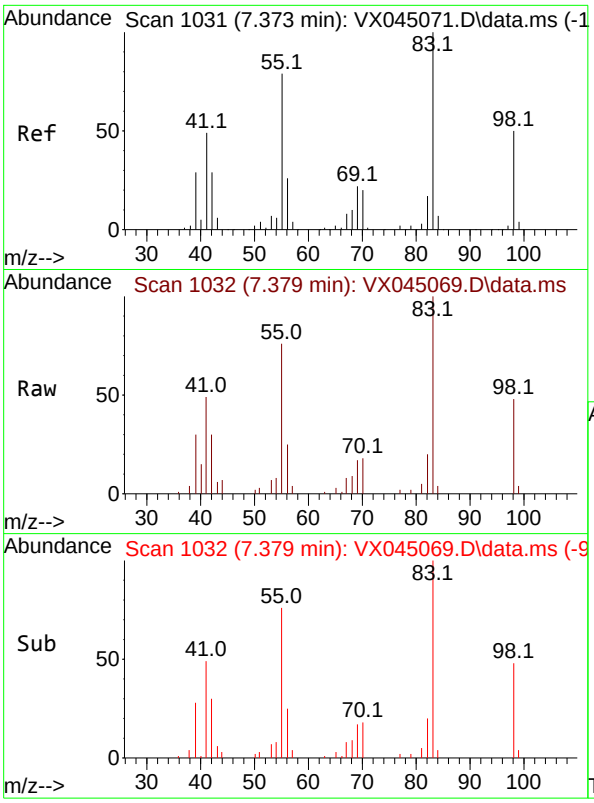


#38
Carbon Tetrachloride
Concen: 5.013 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion:117 Resp: 8997

Ion	Ratio	Lower	Upper
117	100		
119	92.0	76.7	115.1
121	27.2	25.5	38.3





#39
Methylcyclohexane
Concen: 4.414 ug/l
RT: 7.379 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 83 Resp: 1029

Ion	Ratio	Lower	Upper
83	100		
55	76.4	63.0	94.4
98	47.9	39.7	59.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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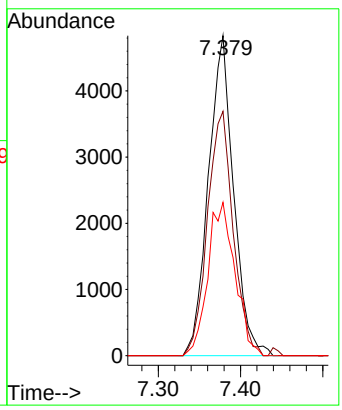
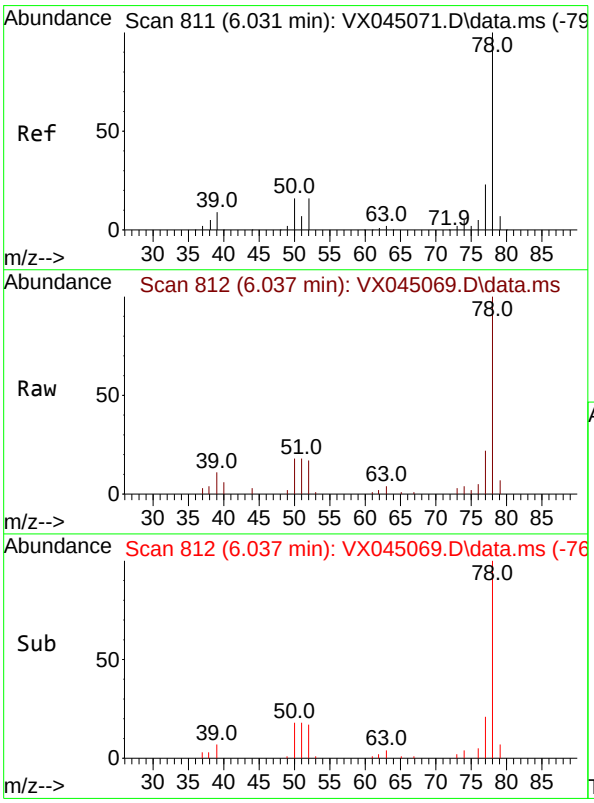
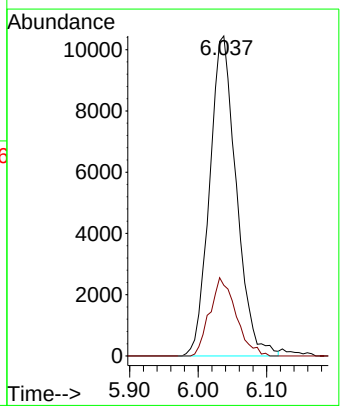


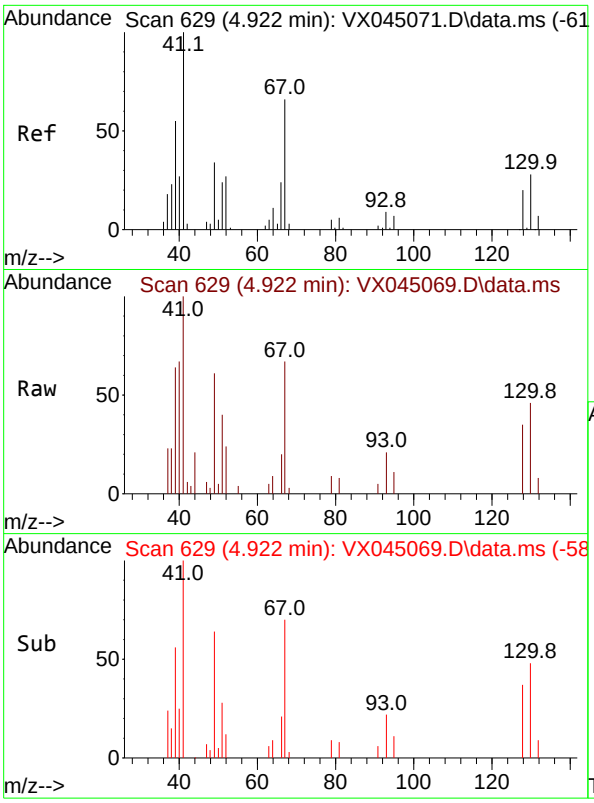


#40
Benzene
Concen: 4.966 ug/l
RT: 6.037 min Scan# 812
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 78 Resp: 28339

Ion	Ratio	Lower	Upper
78	100		
77	22.1	18.8	28.2





#41
Methacrylonitrile
Concen: 5.136 ug/l
RT: 4.922 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 41 Resp: 570

Ion	Ratio	Lower	Upper
41	100		
39	53.3	44.6	67.0
67	73.4	53.9	80.9
52	30.5	23.3	34.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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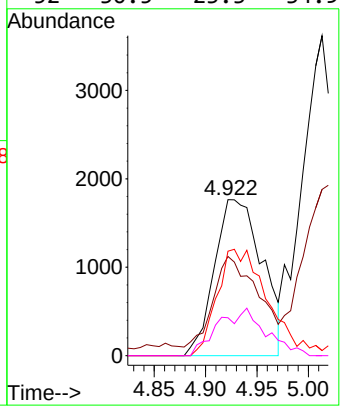
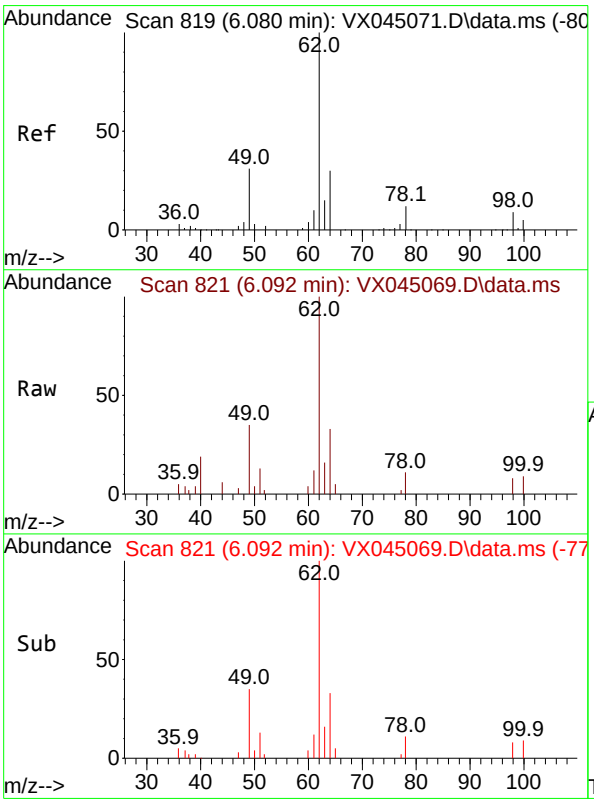
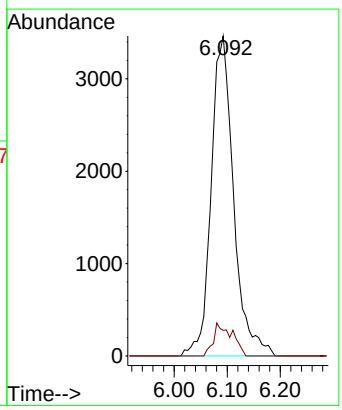


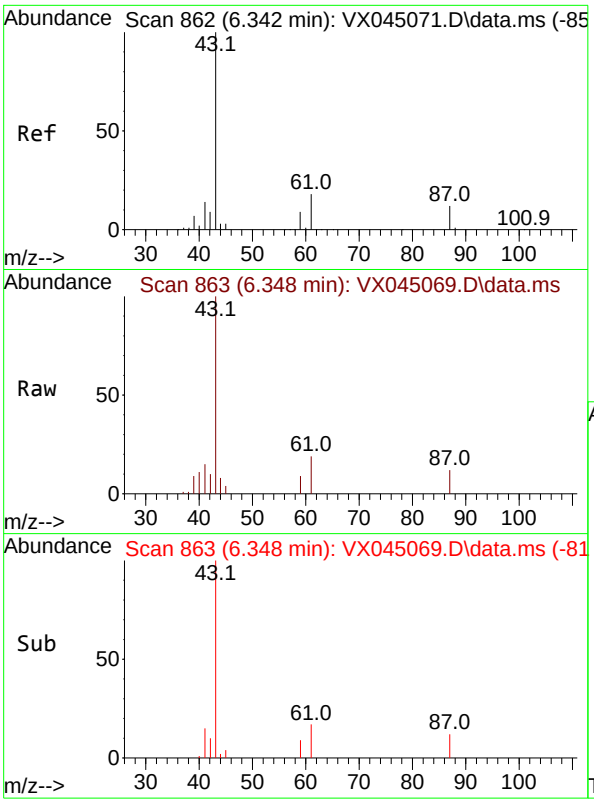


#42
1,2-Dichloroethane
Concen: 5.510 ug/l
RT: 6.092 min Scan# 821
Delta R.T. 0.012 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 62 Resp: 10189

Ion	Ratio	Lower	Upper
62	100		
98	8.5	0.0	18.2





#43
Isopropyl Acetate
Concen: 4.700 ug/l
RT: 6.348 min Scan# 8
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 43 Resp: 1554

Ion	Ratio	Lower	Upper
43	100		
61	19.0	14.9	22.3
87	12.1	9.4	14.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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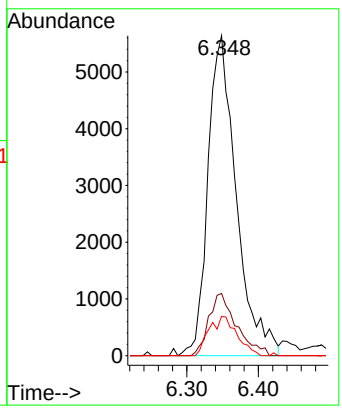
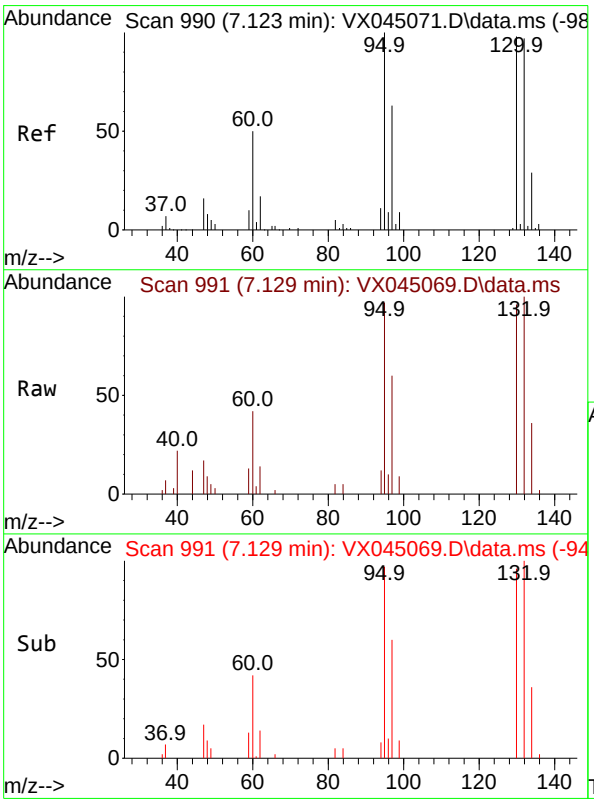
Supervised By :Mahesh Dadoda 02/28/2025

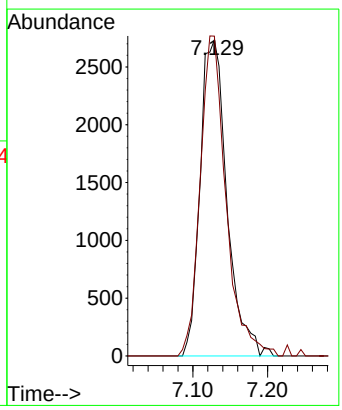


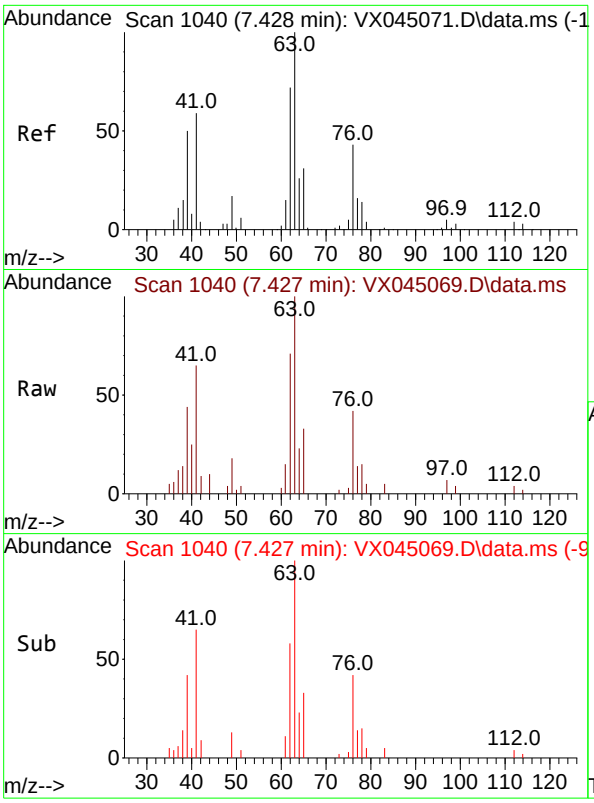


#44
Trichloroethene
Concen: 5.234 ug/l
RT: 7.129 min Scan# 991
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion:130 Resp: 6827

Ion	Ratio	Lower	Upper
130	100		
95	101.2	0.0	205.0





#45
1,2-Dichloropropane
Concen: 5.177 ug/l
RT: 7.427 min Scan# 1(
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 63 Resp: 734

Ion	Ratio	Lower	Upper
63	100		
65	33.4	24.7	37.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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Reviewed By :John Carlone 02/28/2025
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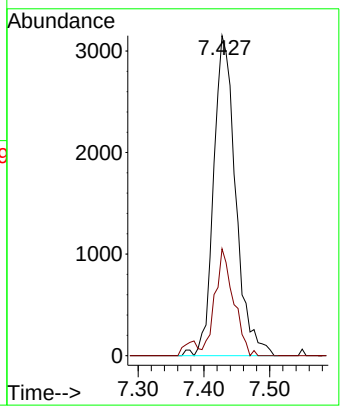
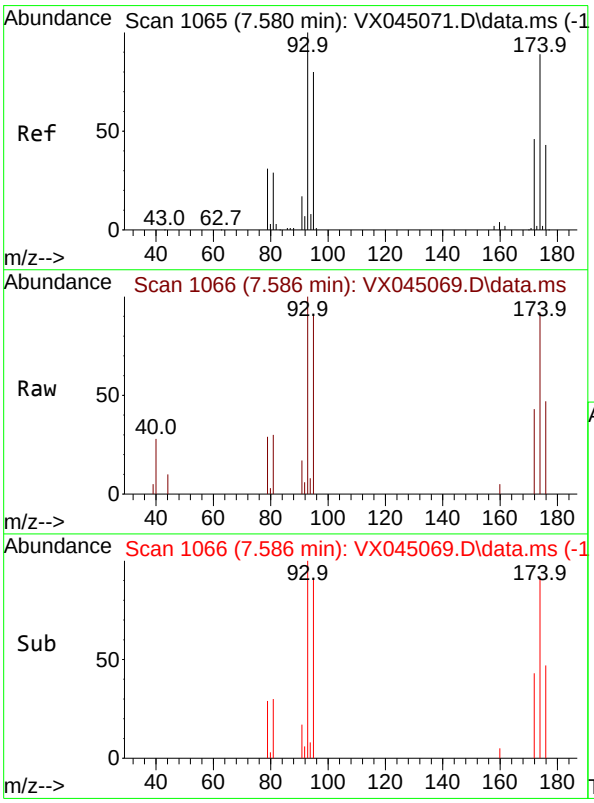
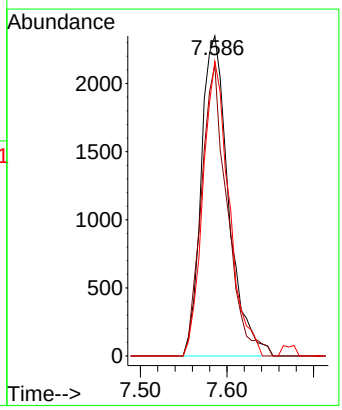


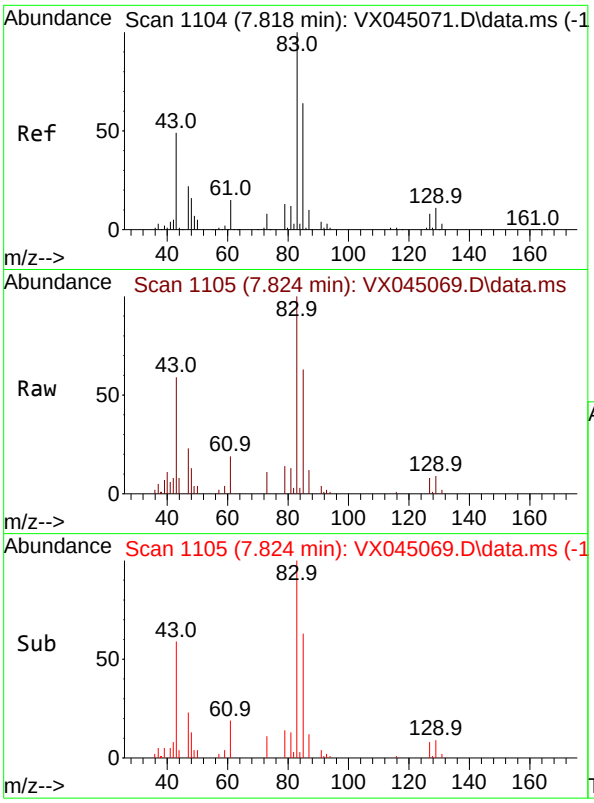


#46
Dibromomethane
Concen: 5.195 ug/l
RT: 7.586 min Scan# 1066
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 93 Resp: 5146

Ion	Ratio	Lower	Upper
93	100		
95	86.2	65.8	98.8
174	88.2	72.2	108.2





#47
Bromodichloromethane
Concen: 5.100 ug/l
RT: 7.824 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 83 Resp: 977

Ion	Ratio	Lower	Upper
83	100		
85	63.3	51.1	76.7
127	8.0	6.4	9.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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Reviewed By :John Carlone 02/28/2025
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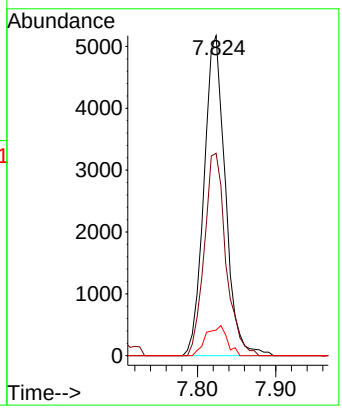
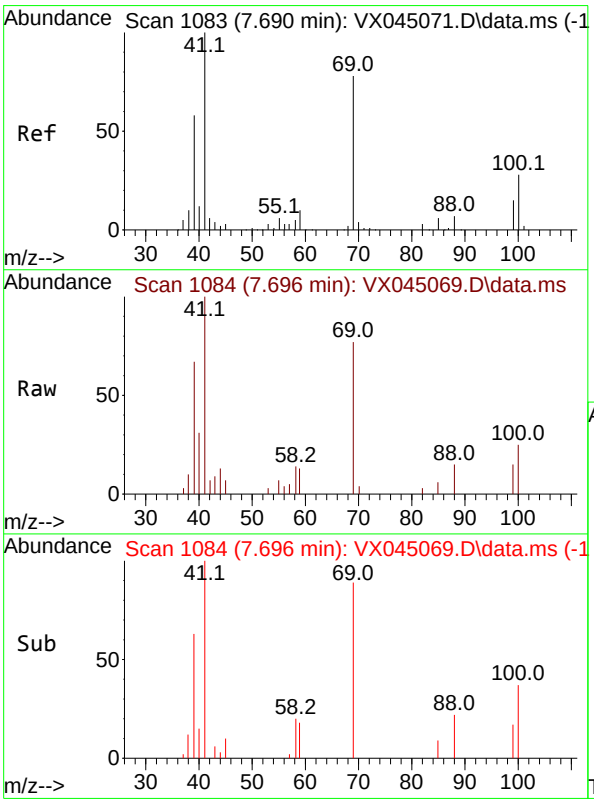
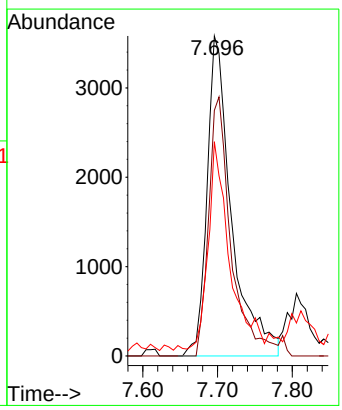


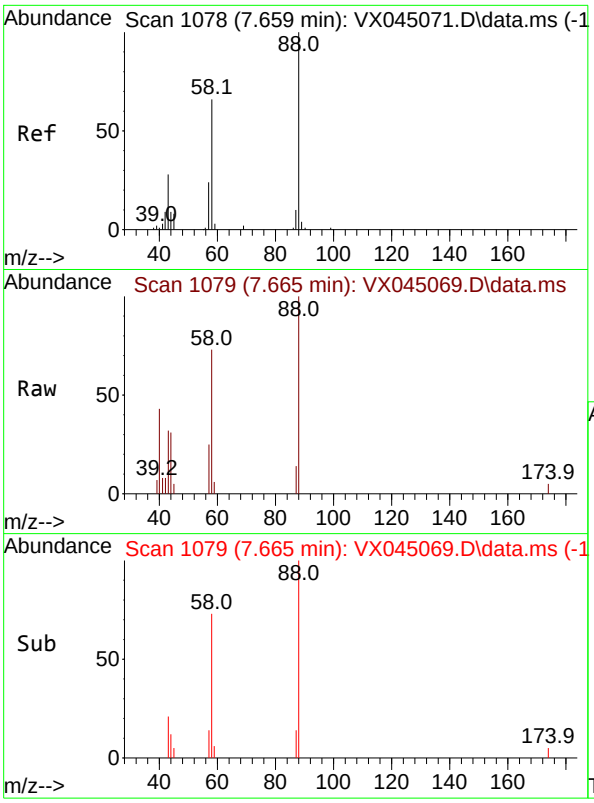


#48
Methyl methacrylate
Concen: 5.224 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 41 Resp: 8201

Ion	Ratio	Lower	Upper
41	100		
69	74.0	63.0	94.6
39	55.4	47.5	71.3





#49
1,4-Dioxane
Concen: 105.826 ug/l
RT: 7.665 min Scan# 1(
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 88 Resp: 353:

Ion	Ratio	Lower	Upper
88	100		
43	35.2	28.7	43.1
58	75.9	55.8	83.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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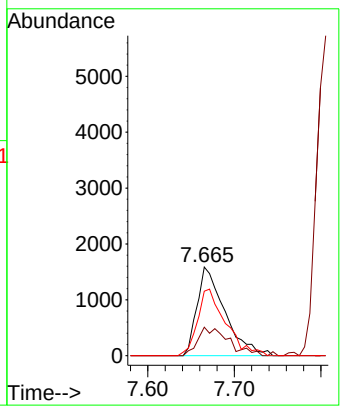
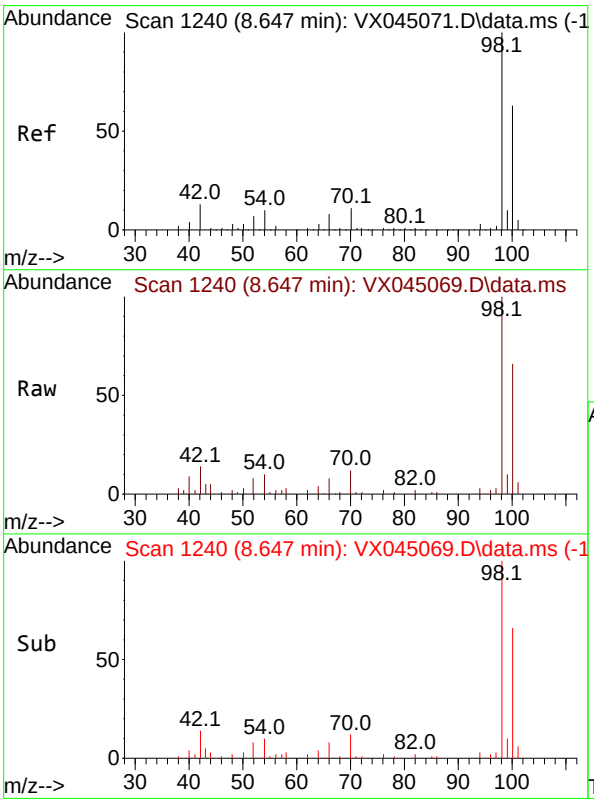
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

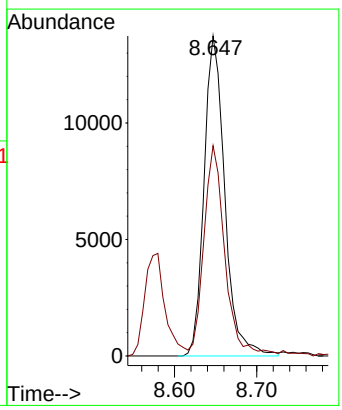


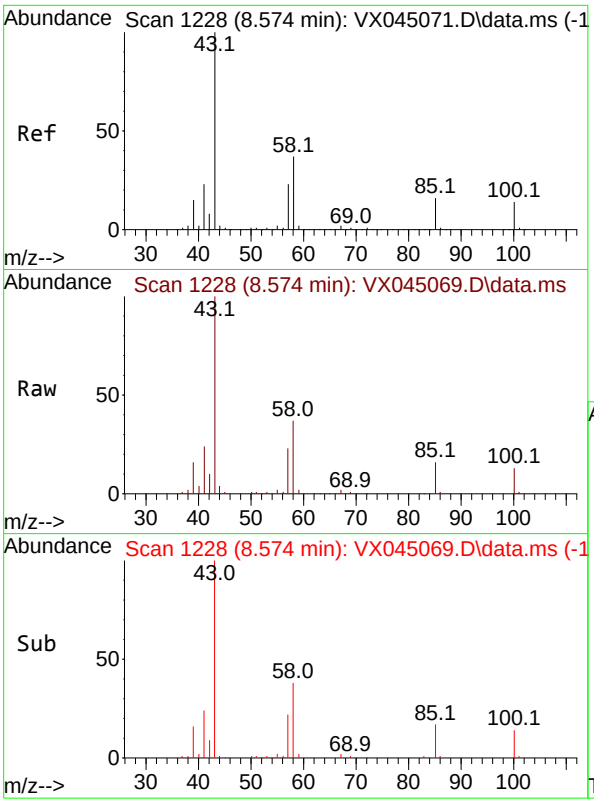


#50
Toluene-d8
Concen: 5.057 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 98 Resp: 24037

Ion	Ratio	Lower	Upper
98	100		
100	64.6	52.0	78.0





#51
4-Methyl-2-Pentanone
Concen: 27.303 ug/l
RT: 8.574 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 43 Resp: 5532

Ion	Ratio	Lower	Upper
43	100		
58	36.8	29.2	43.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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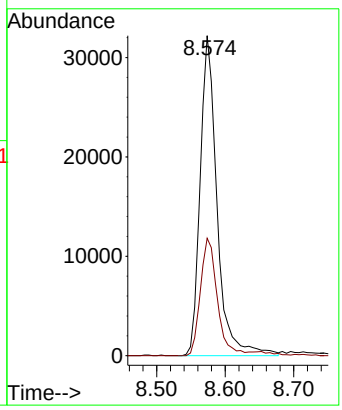
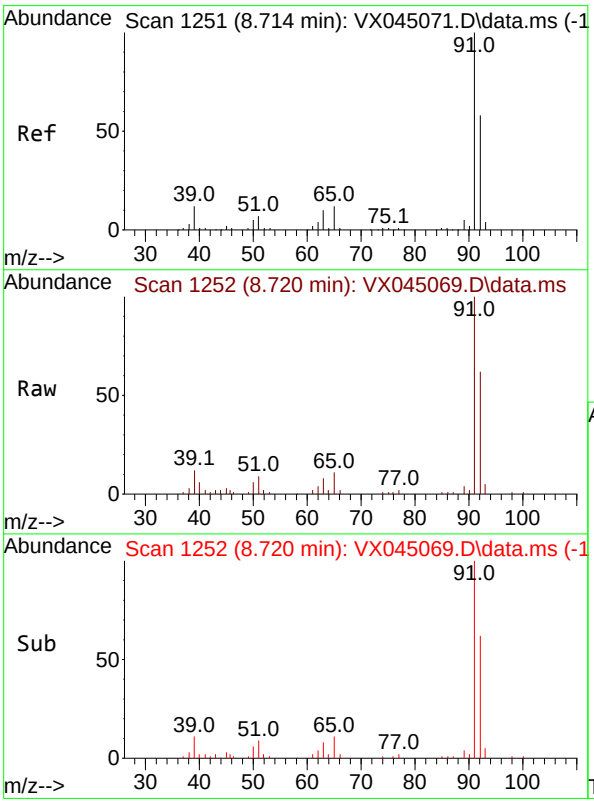
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

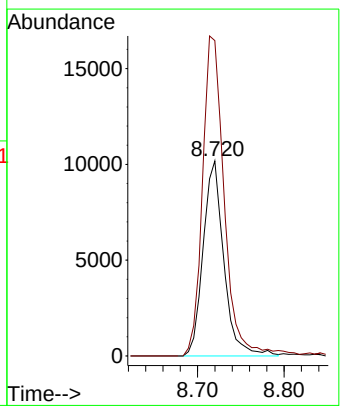


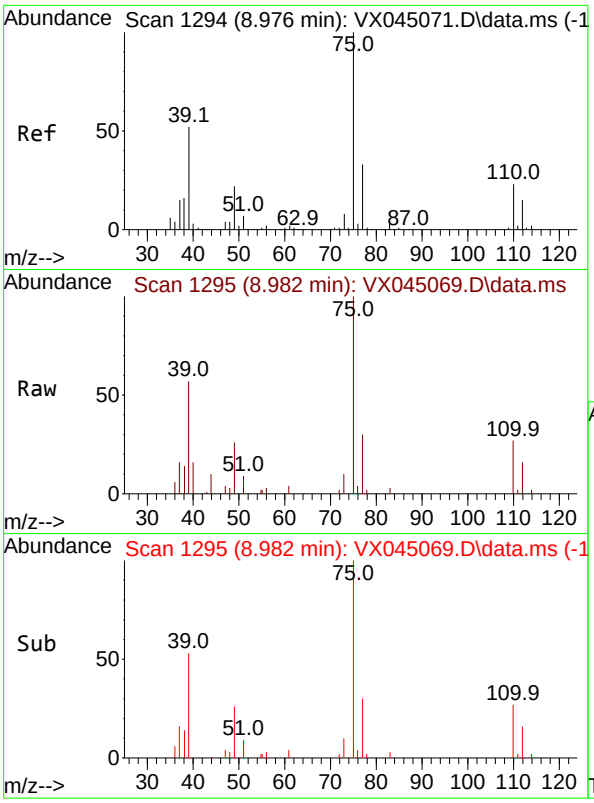


#52
Toluene
Concen: 4.997 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 92 Resp: 16933

Ion	Ratio	Lower	Upper
92	100		
91	172.6	138.9	208.3





#53
t-1,3-Dichloropropene
Concen: 3.985 ug/l
RT: 8.982 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 75 Resp: 754

Ion	Ratio	Lower	Upper
75	100		
77	29.6	26.5	39.7

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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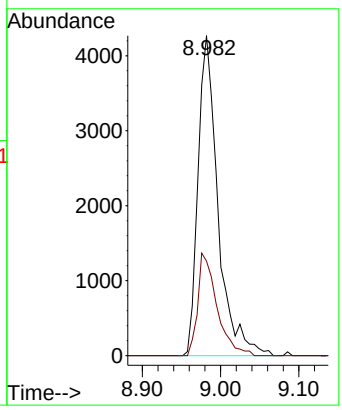
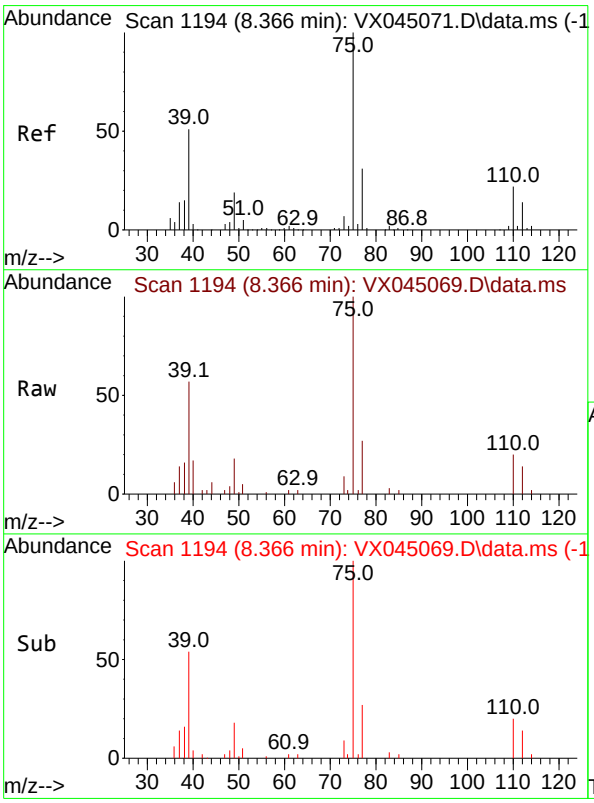
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

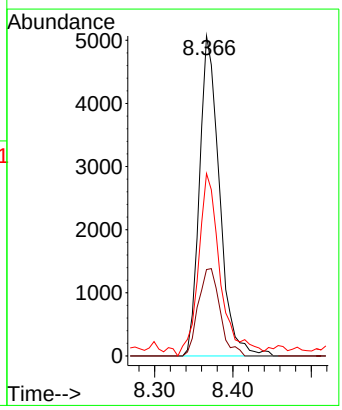


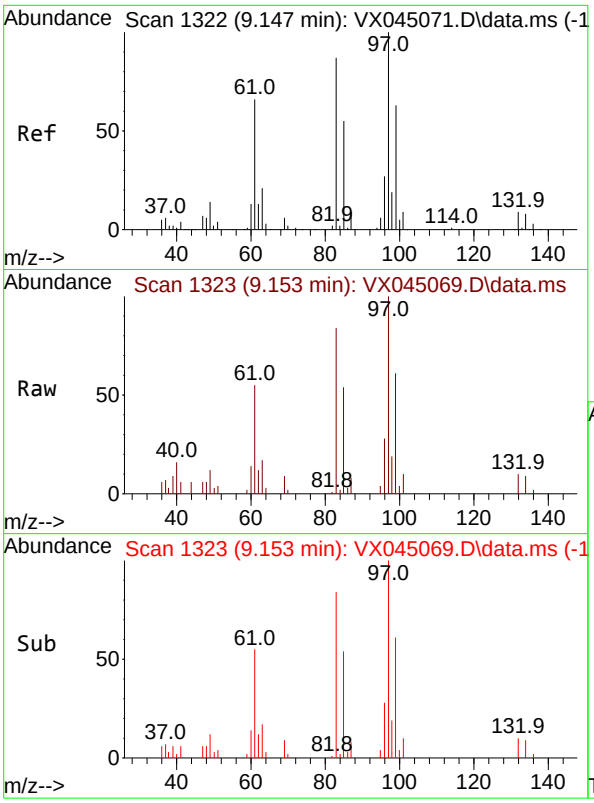


#54
cis-1,3-Dichloropropene
Concen: 4.244 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 75 Resp: 8988

Ion	Ratio	Lower	Upper
75	100		
77	27.0	24.7	37.1
39	57.0	40.7	61.1

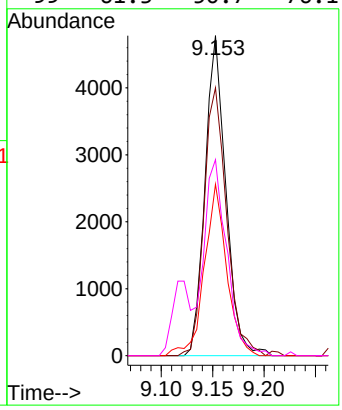




#55
1,1,2-Trichloroethane
Concen: 5.151 ug/l
RT: 9.153 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 97 Resp: 675

Ion	Ratio	Lower	Upper
97	100		
83	83.7	69.4	104.2
85	53.6	44.1	66.1
99	61.3	50.7	76.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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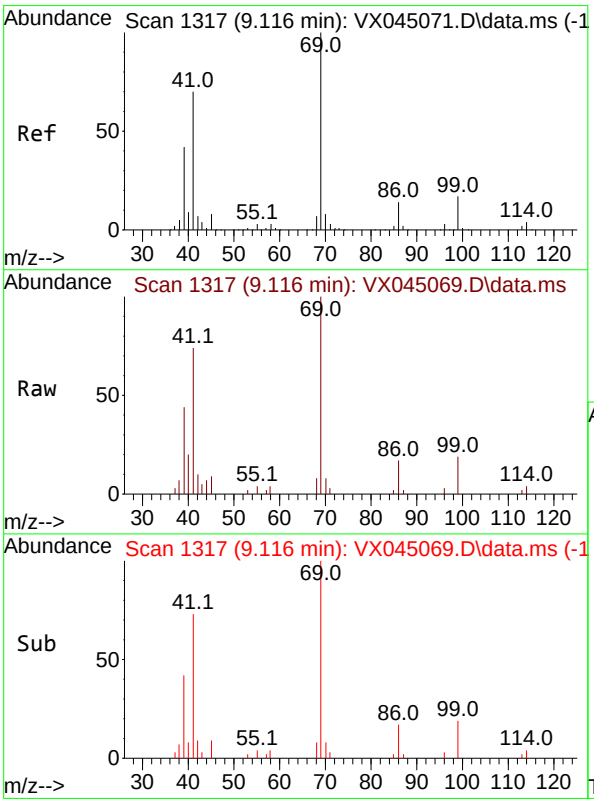
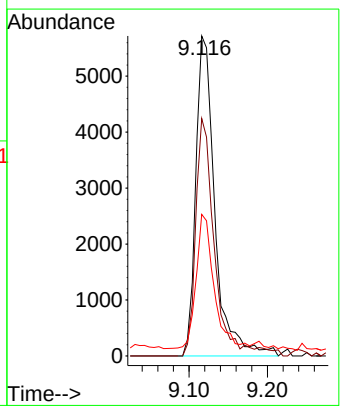
Supervised By :Mahesh Dadoda 02/28/2025

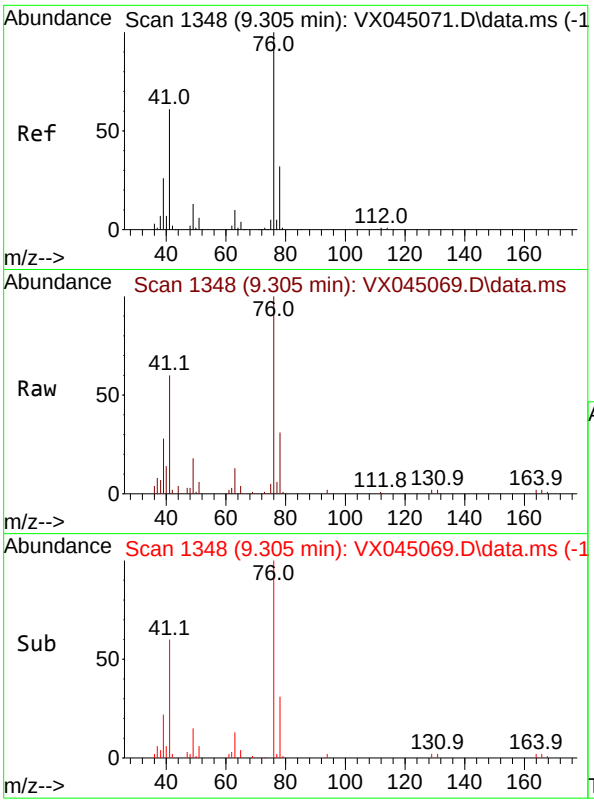


#56
Ethyl methacrylate
Concen: 4.628 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 69 Resp: 9712

Ion	Ratio	Lower	Upper
69	100		
41	71.0	57.0	85.4
39	39.2	34.2	51.4





#57
1,3-Dichloropropane
Concen: 5.289 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 76 Resp: 1210

Ion	Ratio	Lower	Upper
76	100		
78	31.9	25.5	38.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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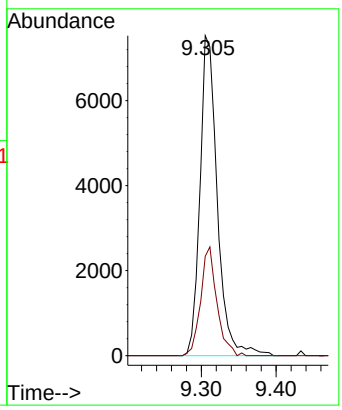
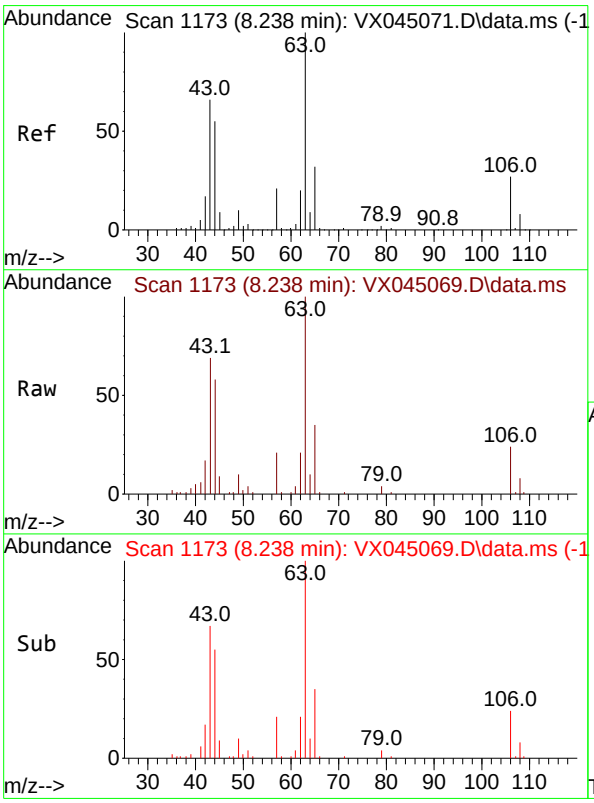
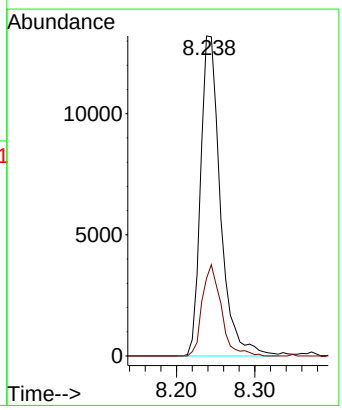


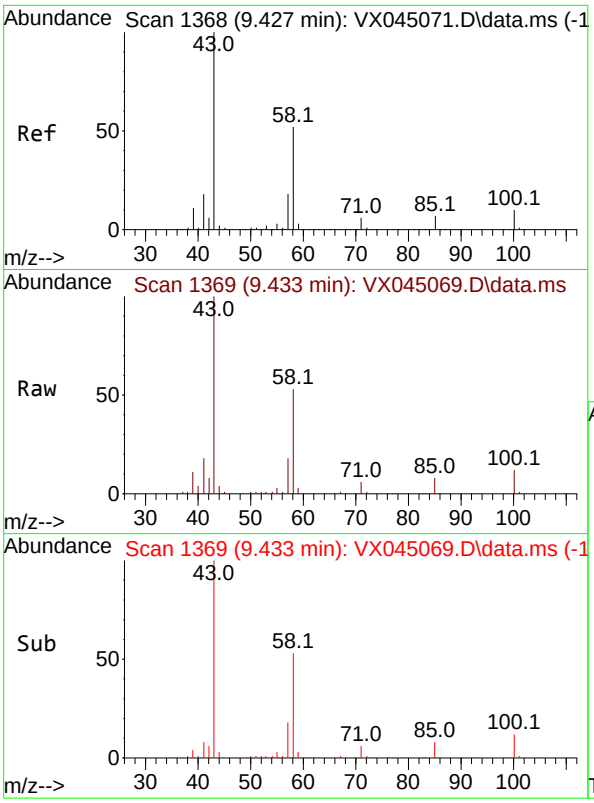


#58
2-Chloroethyl Vinyl ether
Concen: 22.527 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 63 Resp: 23212

Ion	Ratio	Lower	Upper
63	100		
106	27.4	21.5	32.3





#59
2-Hexanone
Concen: 27.363 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 43 Resp: 3999

Ion	Ratio	Lower	Upper
43	100		
58	50.7	25.9	77.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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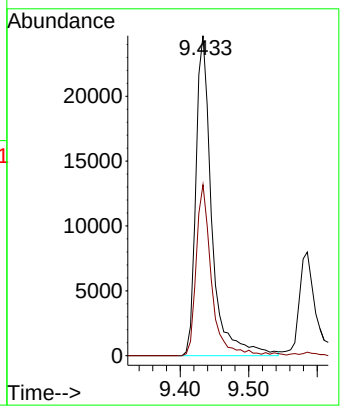
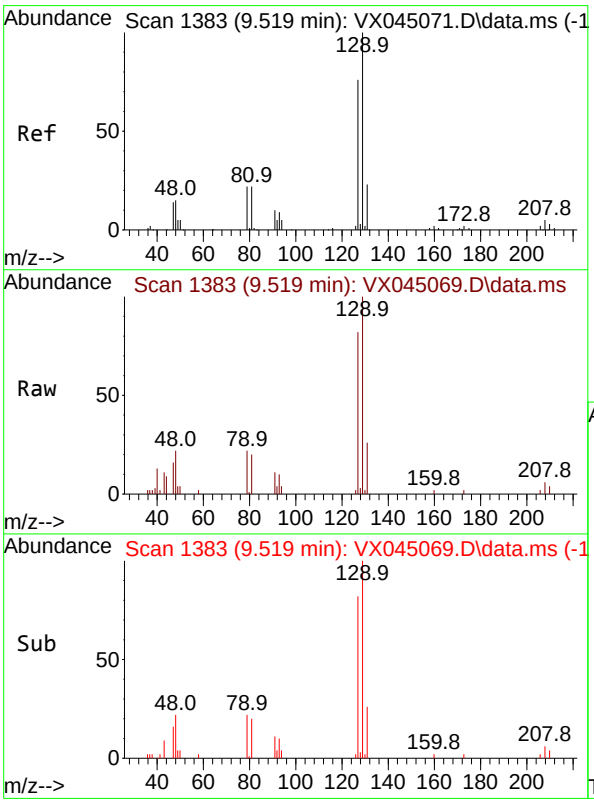
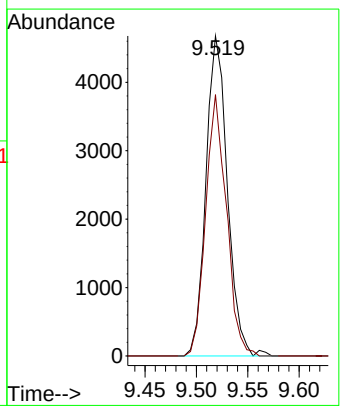


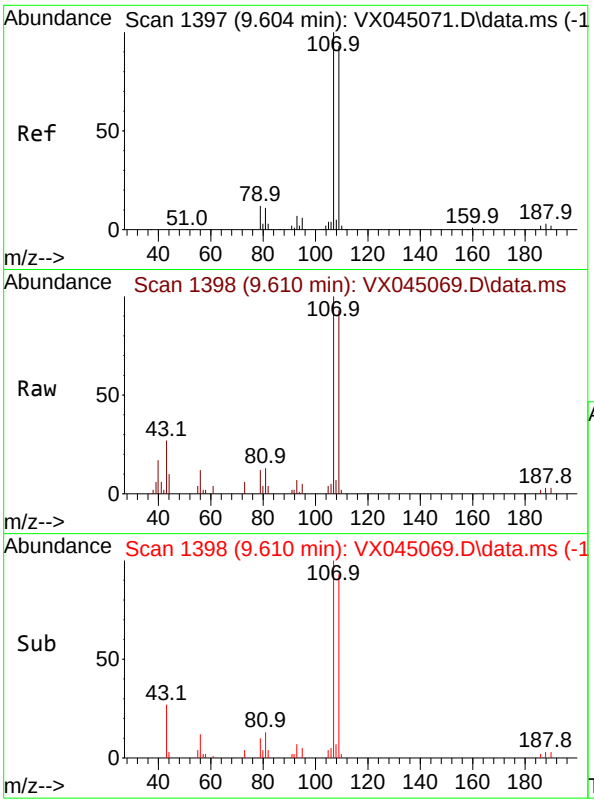


#60
Dibromochloromethane
Concen: 4.846 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion:129 Resp: 6785

Ion	Ratio	Lower	Upper
129	100		
127	79.0	38.5	115.5





#61
1,2-Dibromoethane
Concen: 5.161 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion:107 Resp: 683

Ion	Ratio	Lower	Upper
107	100		
109	90.7	76.1	114.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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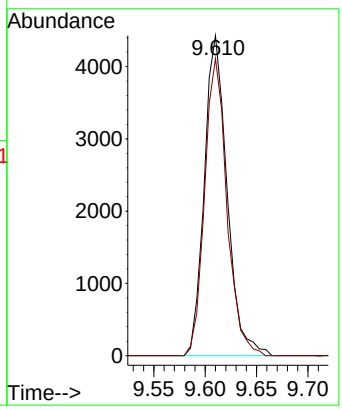
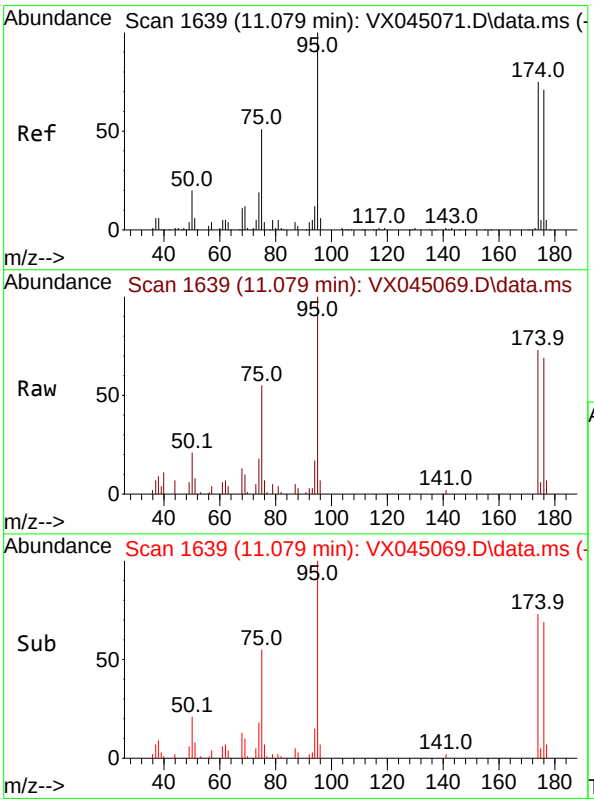
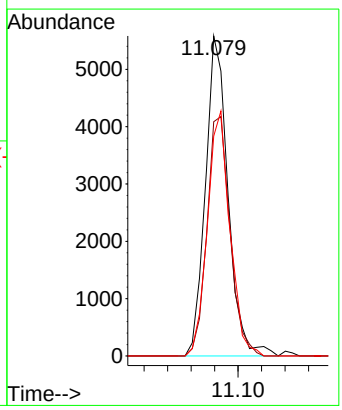


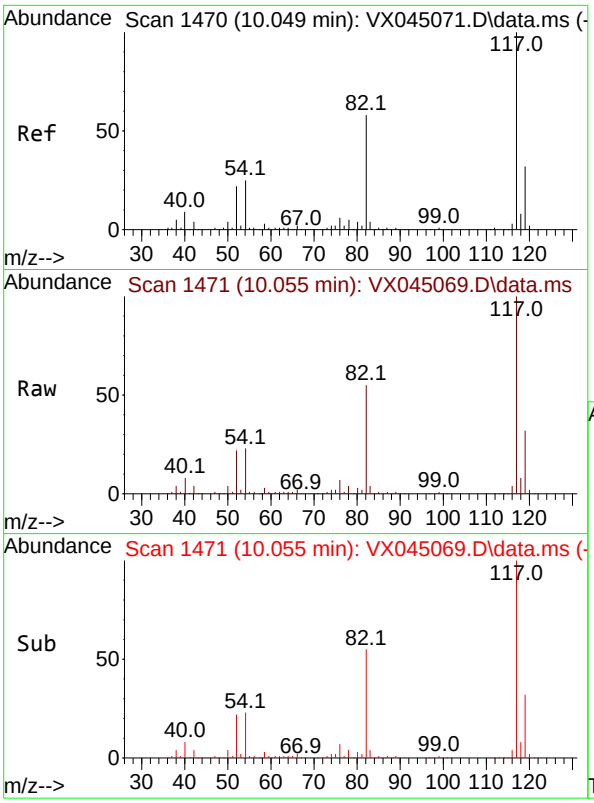


#62
4-Bromofluorobenzene
Concen: 4.685 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 95 Resp: 7436

Ion	Ratio	Lower	Upper
95	100		
174	76.5	0.0	148.2
176	76.3	0.0	141.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion:117 Resp: 17236

Ion	Ratio	Lower	Upper
117	100		
82	54.8	46.3	69.5
119	32.0	25.7	38.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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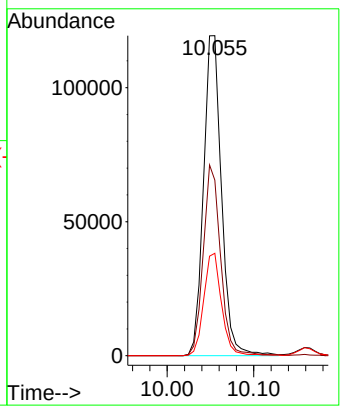
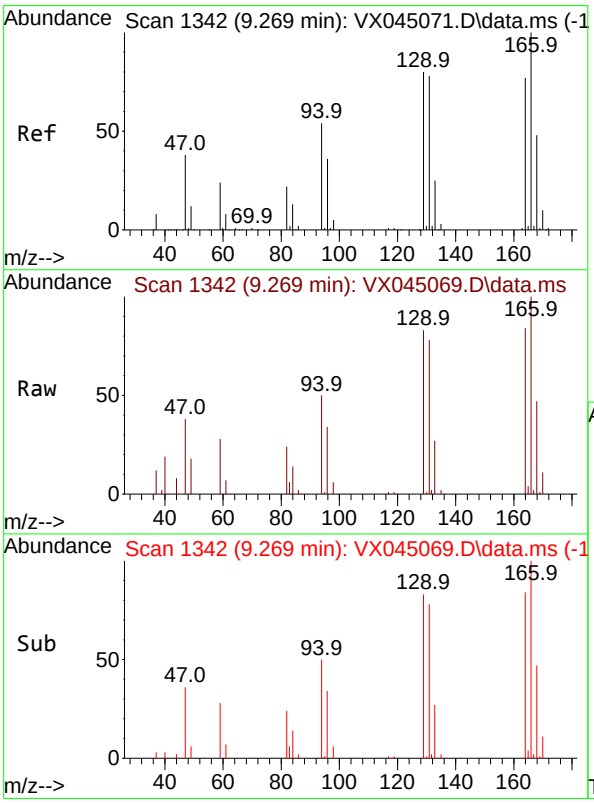
Supervised By :Mahesh Dadoda 02/28/2025

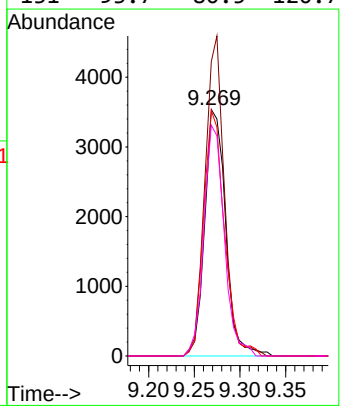


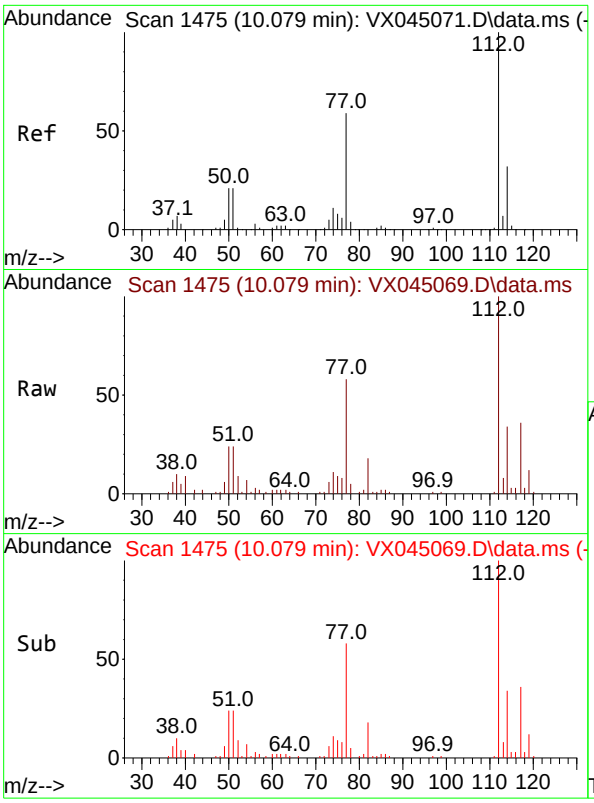


#64
Tetrachloroethene
Concen: 5.128 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion:164 Resp: 5615

Ion	Ratio	Lower	Upper
164	100		
166	119.5	103.6	155.4
129	99.7	82.7	124.1
131	93.7	80.5	120.7





#65
Chlorobenzene
Concen: 4.908 ug/l
RT: 10.079 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion:112 Resp: 1816

Ion	Ratio	Lower	Upper
112	100		
114	34.0	26.0	39.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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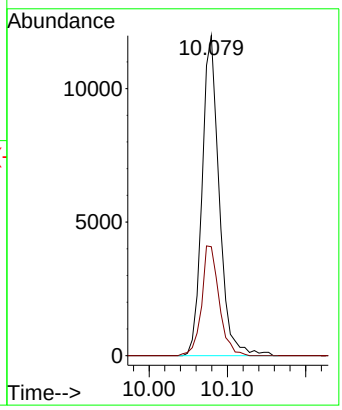
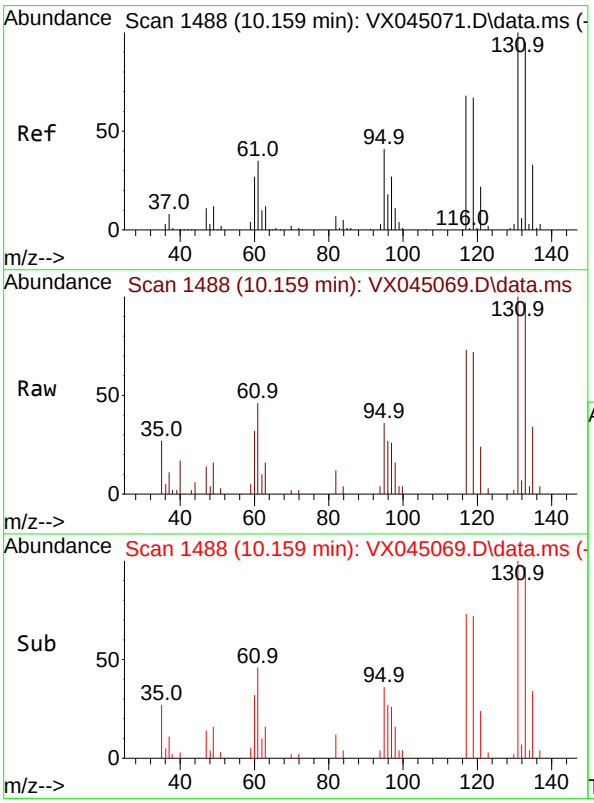
Supervised By :Mahesh Dadoda 02/28/2025

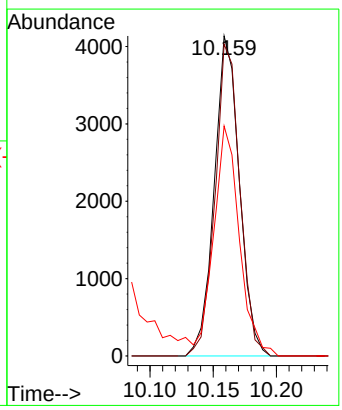


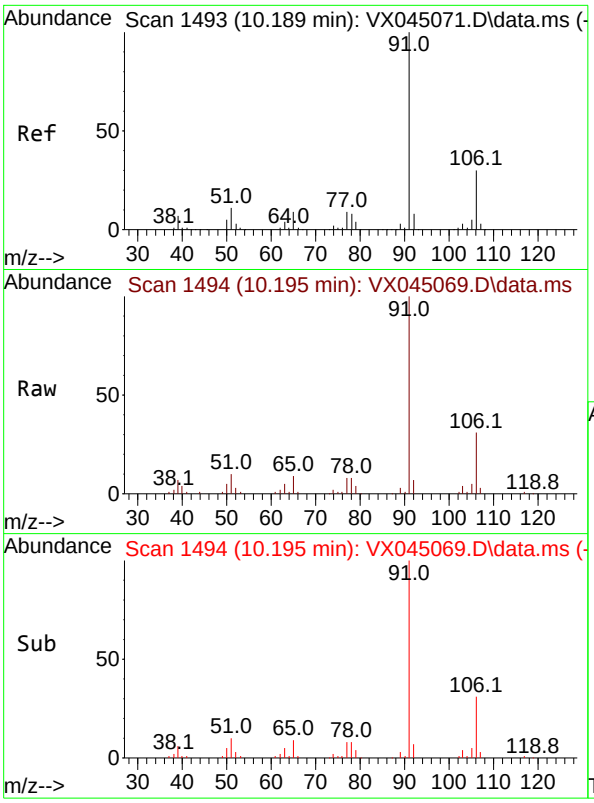


#66
1,1,1,2-Tetrachloroethane
Concen: 4.781 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion:131 Resp: 5702

Ion	Ratio	Lower	Upper
131	100		
133	96.1	48.6	145.9
119	73.4	33.9	101.7





#67
Ethyl Benzene
Concen: 4.725 ug/l
RT: 10.195 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 91 Resp: 3091

Ion	Ratio	Lower	Upper
91	100		
106	30.8	23.9	35.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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Reviewed By :John Carlone 02/28/2025
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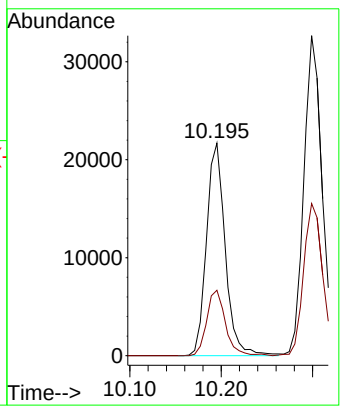
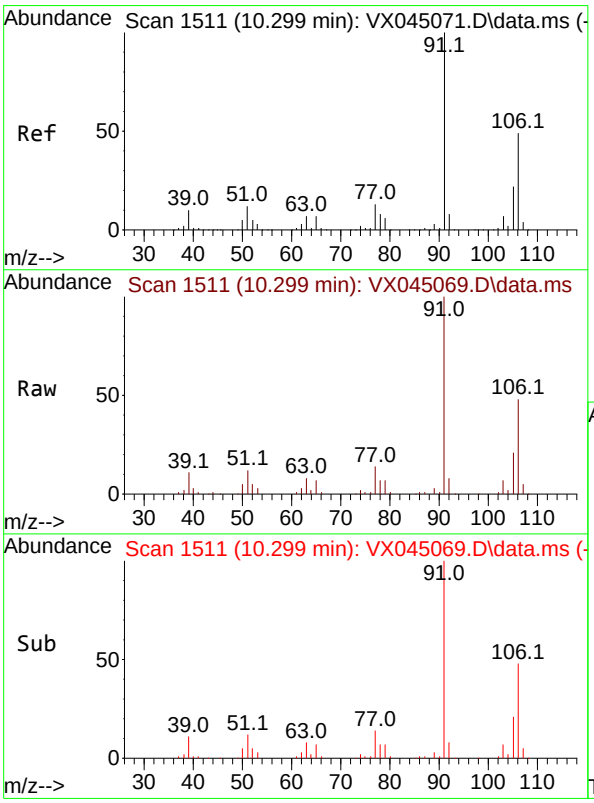
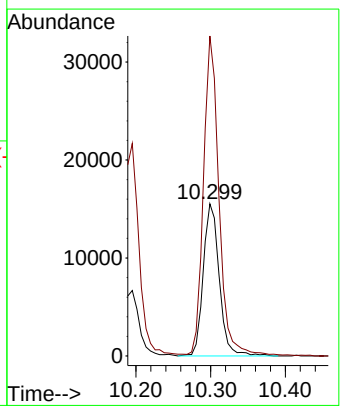


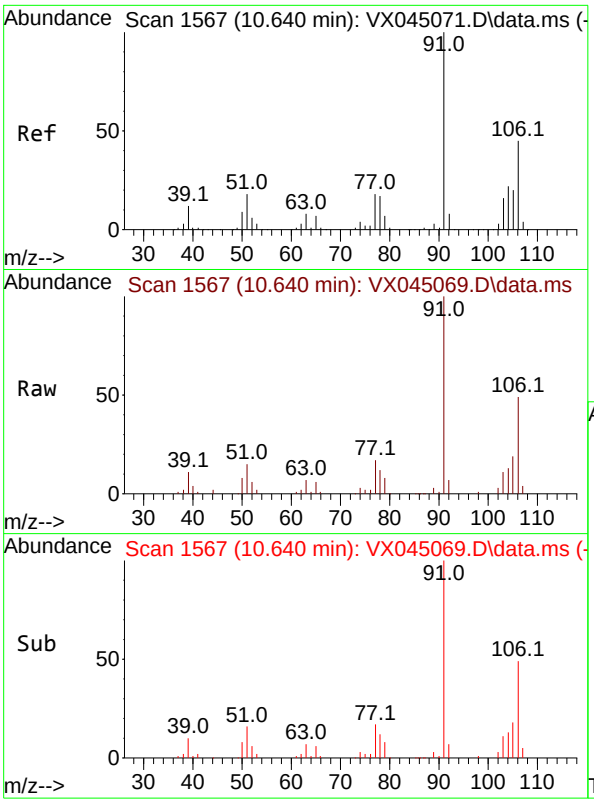


#68
m/p-Xylenes
Concen: 9.608 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion:106 Resp: 23152

Ion	Ratio	Lower	Upper
106	100		
91	202.7	165.4	248.0





#69
o-Xylene
Concen: 4.914 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion:106 Resp: 1188

Ion	Ratio	Lower	Upper
106	100		
91	211.7	109.9	329.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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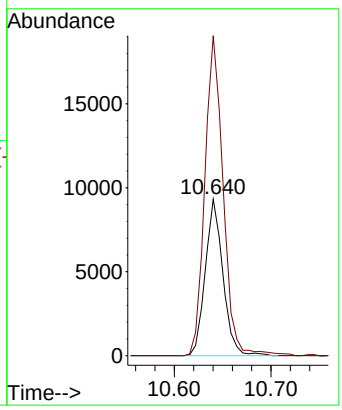
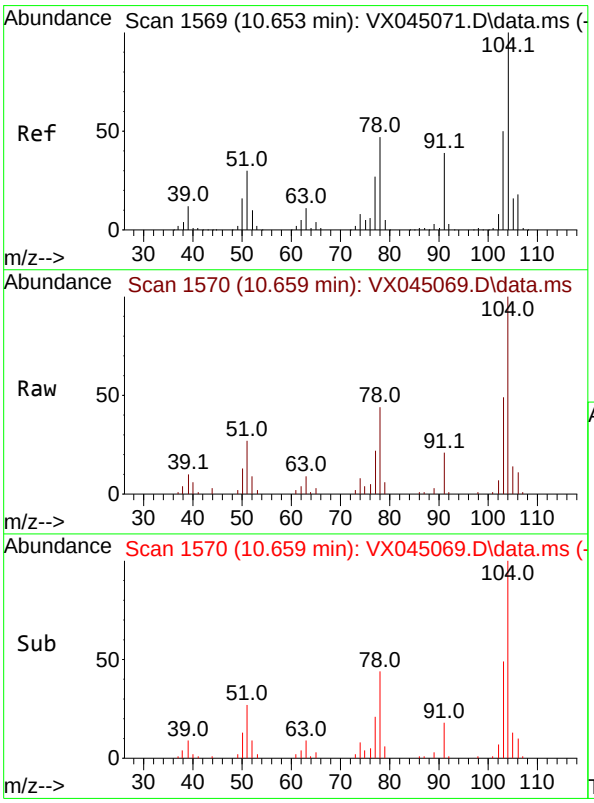
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

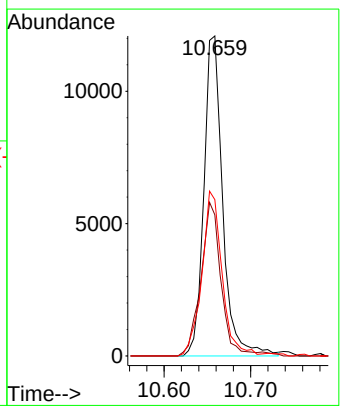


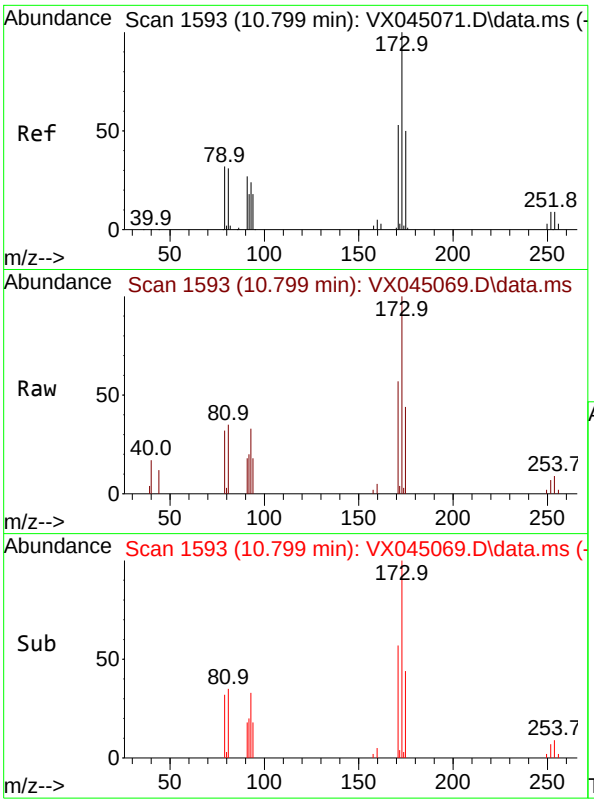


#70
Styrene
Concen: 4.704 ug/l
RT: 10.659 min Scan# 1570
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion:104 Resp: 18278

Ion	Ratio	Lower	Upper
104	100		
78	51.7	42.2	63.4
103	55.3	43.8	65.8





#71
Bromoform
Concen: 4.541 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

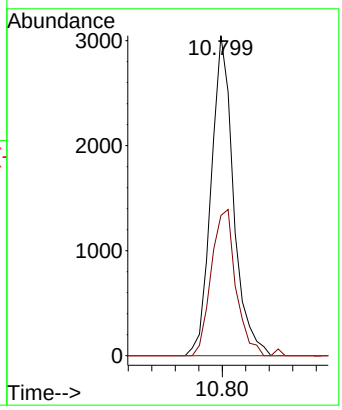
Tgt Ion:173 Resp: 402

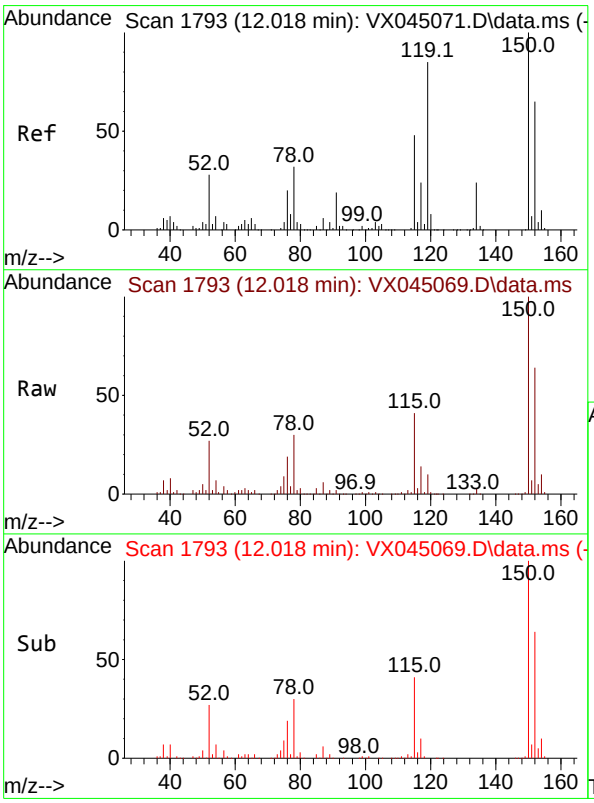
Ion	Ratio	Lower	Upper
173	100		
175	50.1	24.6	73.6
254	0.0	0.0	0.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

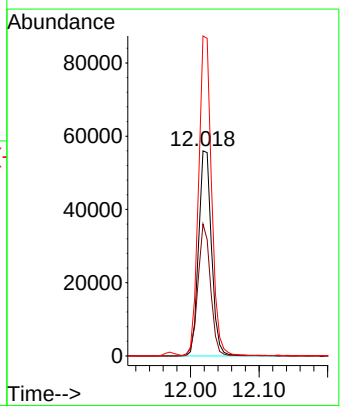


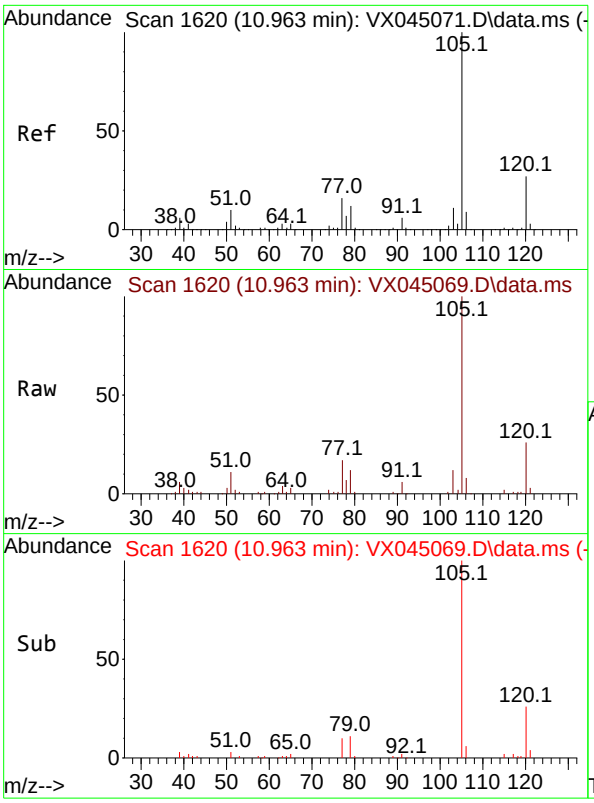


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion:152 Resp: 73591

Ion	Ratio	Lower	Upper
152	100		
115	62.6	44.2	132.6
150	156.2	0.0	349.0





#73
Isopropylbenzene
Concen: 4.991 ug/l
RT: 10.963 min Scan# 1(
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion:105 Resp: 2968!

Ion	Ratio	Lower	Upper
105	100		
120	25.3	13.2	39.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
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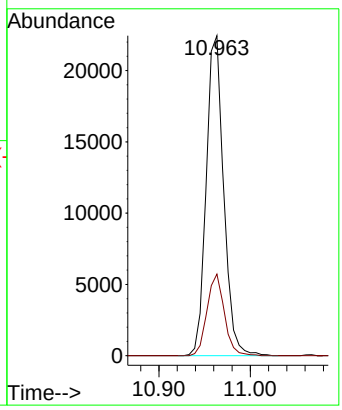
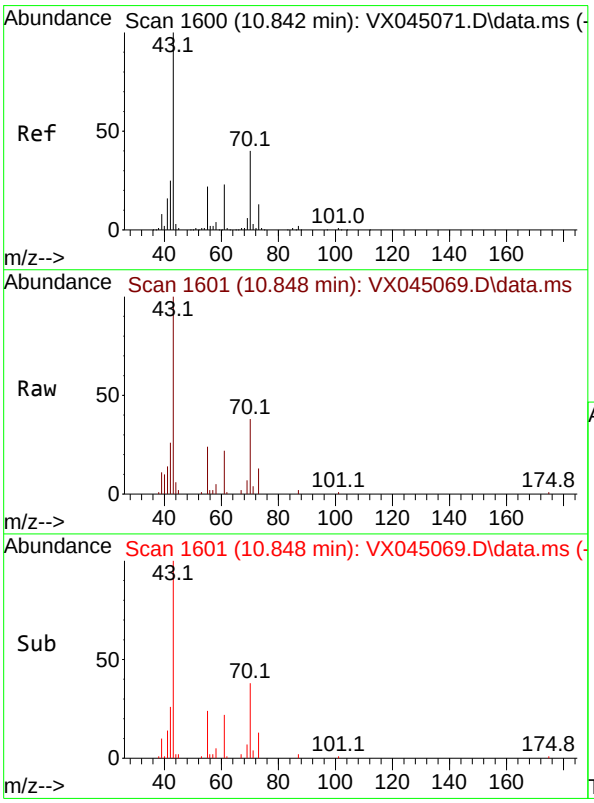
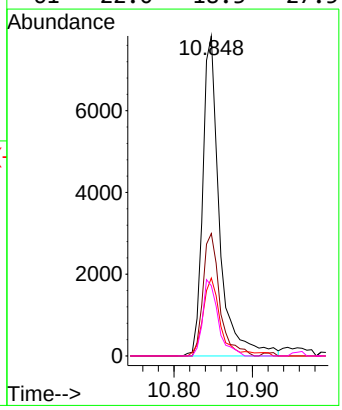


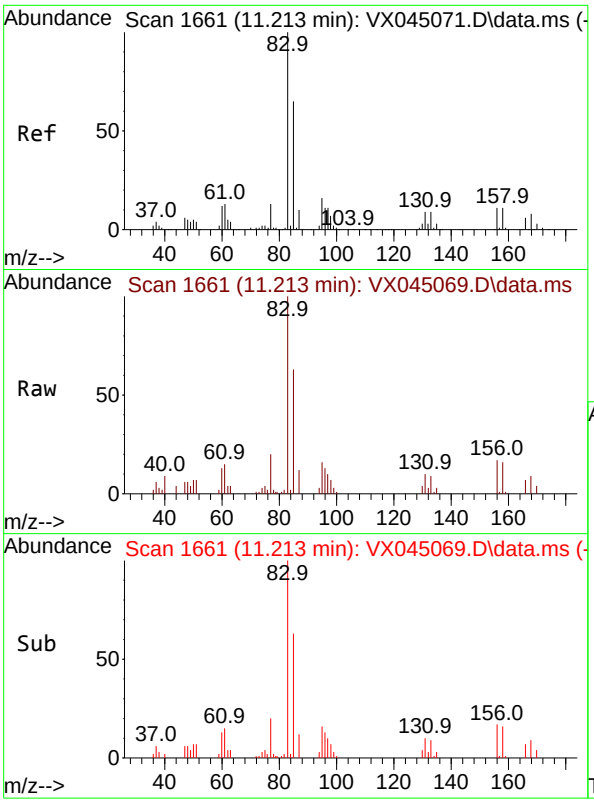


#74
N-amyl acetate
Concen: 4.300 ug/l
RT: 10.848 min Scan# 1601
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 43 Resp: 11609

Ion	Ratio	Lower	Upper
43	100		
70	38.1	31.8	47.6
55	25.9	18.3	27.5
61	22.0	18.3	27.5





#75
1,1,2,2-Tetrachloroethane
Concen: 5.310 ug/l
RT: 11.213 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 83 Resp: 1088

Ion	Ratio	Lower	Upper
83	100		
131	9.2	4.5	13.4
85	63.1	31.7	95.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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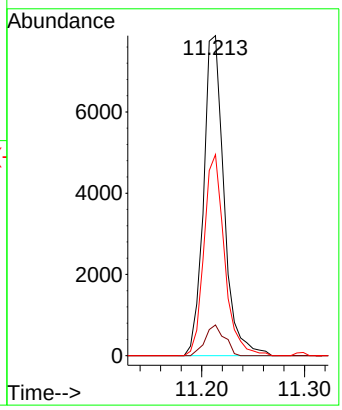
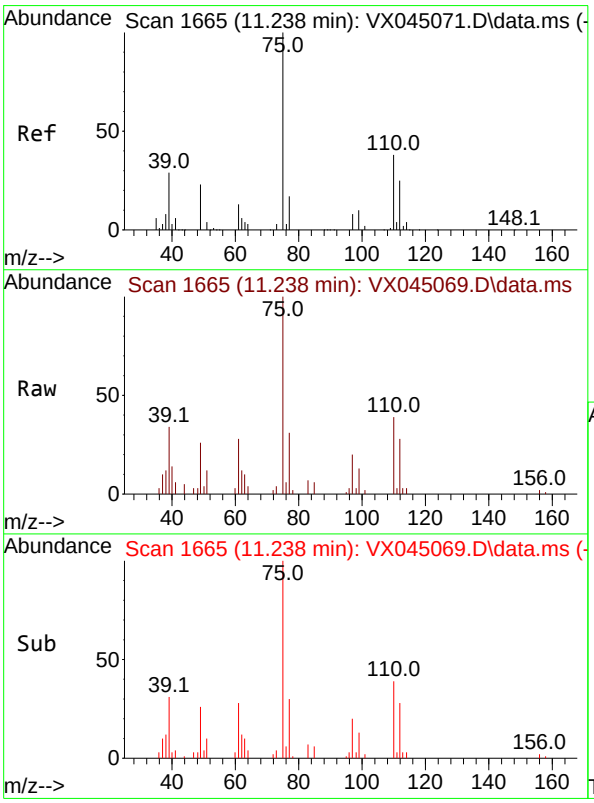
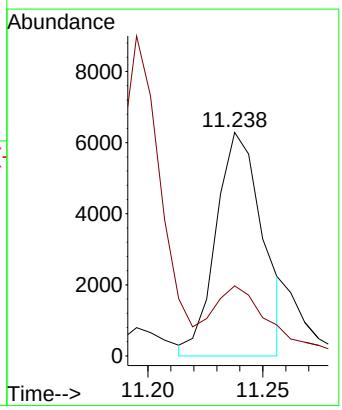


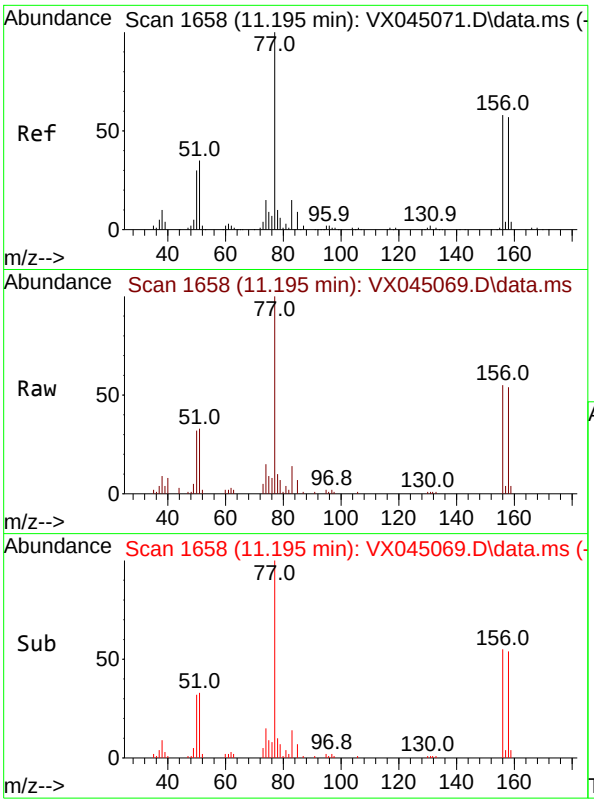


#76
1,2,3-Trichloropropane
Concen: 5.384 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 75 Resp: 8839

Ion	Ratio	Lower	Upper
75	100		
77	39.8	20.7	62.1





#77
Bromobenzene
Concen: 5.163 ug/l
RT: 11.195 min Scan# 1(
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion:156 Resp: 697(

Ion	Ratio	Lower	Upper
156	100		
77	163.3	85.8	257.4
158	97.8	48.4	145.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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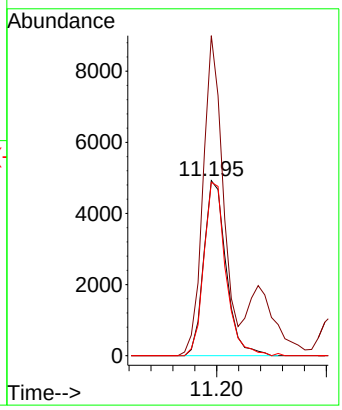
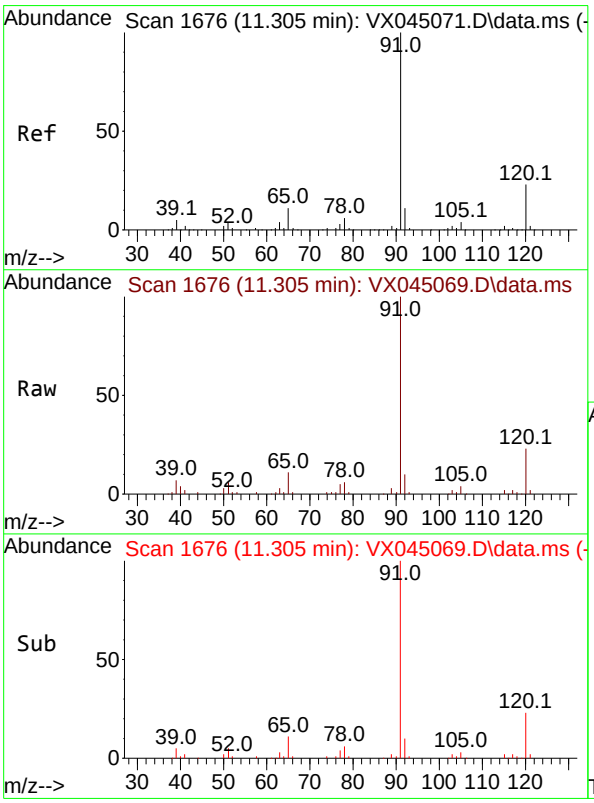
Supervised By :Mahesh Dadoda 02/28/2025

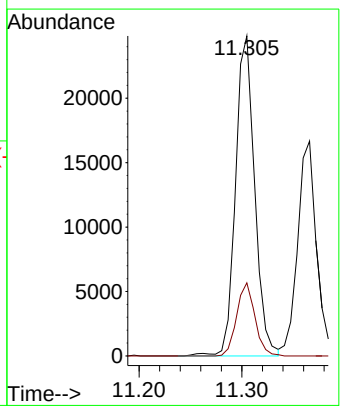


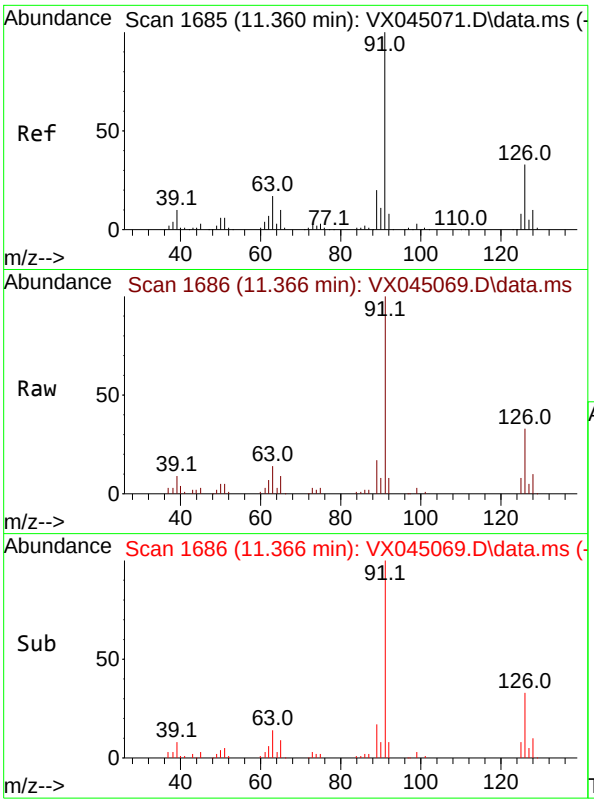


#78
n-propylbenzene
Concen: 4.694 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 91 Resp: 32196

Ion	Ratio	Lower	Upper
91	100		
120	21.7	11.2	33.6





#79
2-Chlorotoluene
Concen: 5.048 ug/l
RT: 11.366 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 91 Resp: 2125

Ion	Ratio	Lower	Upper
91	100		
126	32.0	16.4	49.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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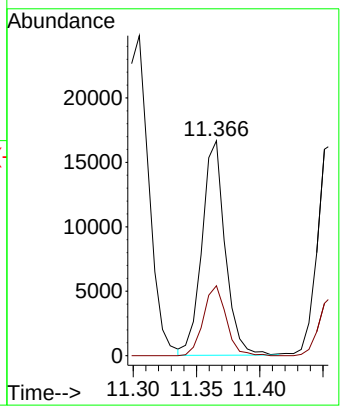
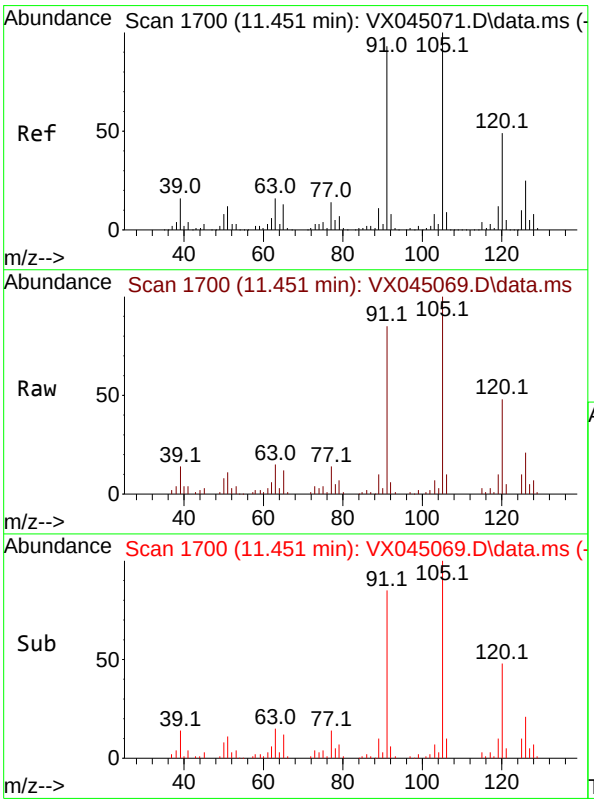
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

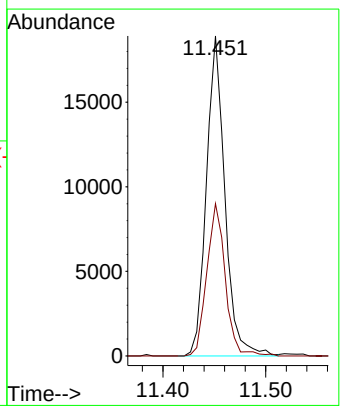


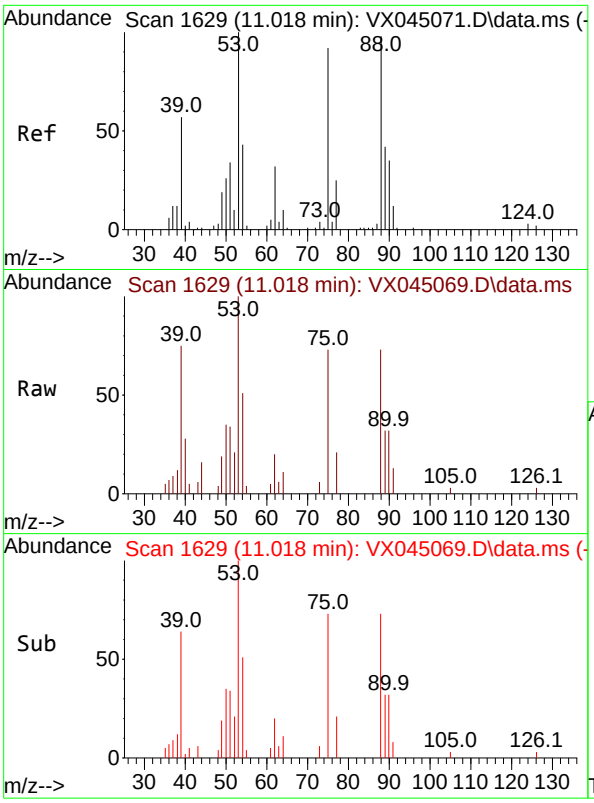


#80
1,3,5-Trimethylbenzene
Concen: 4.897 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion:105 Resp: 23627

Ion	Ratio	Lower	Upper
105	100		
120	47.6	24.1	72.2





#81
trans-1,4-Dichloro-2-butene
Concen: 3.256 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

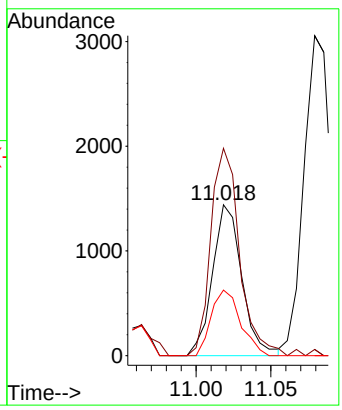
Tgt Ion: 75 Resp: 197

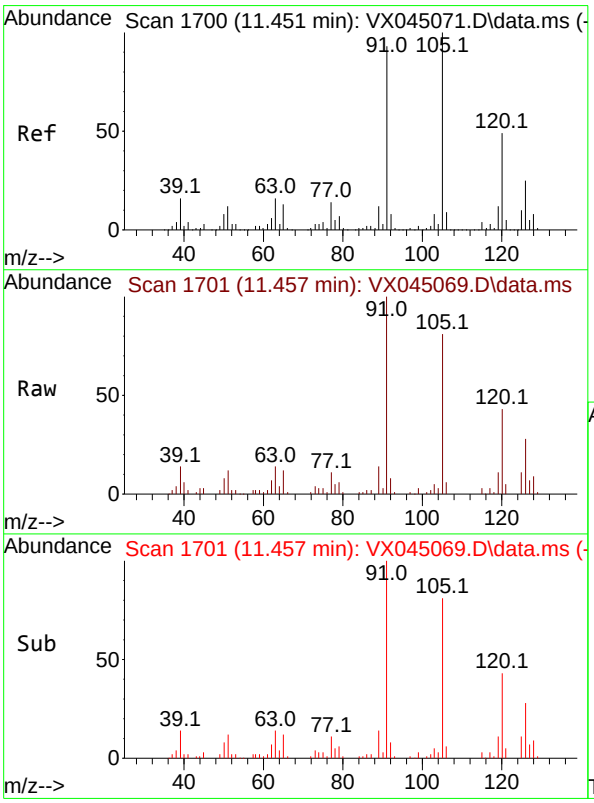
Ion	Ratio	Lower	Upper
75	100		
53	134.1	88.5	132.7#
89	43.4	36.2	54.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

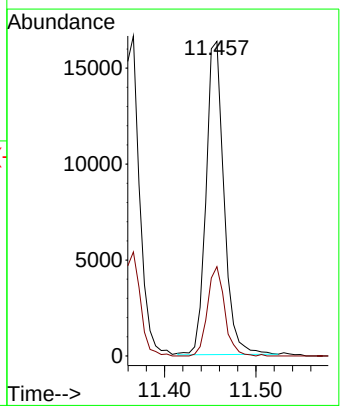


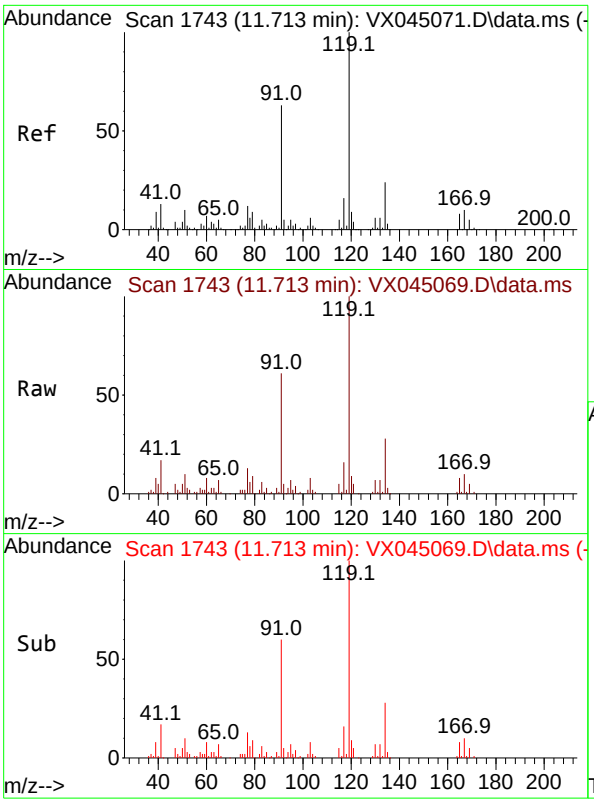


#82
4-Chlorotoluene
Concen: 4.761 ug/l
RT: 11.457 min Scan# 1701
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 91 Resp: 22190

Ion	Ratio	Lower	Upper
91	100		
126	27.3	14.1	42.4





#83
tert-Butylbenzene
Concen: 4.910 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

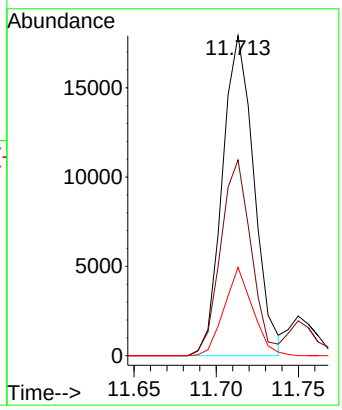
Tgt Ion:119 Resp: 2396

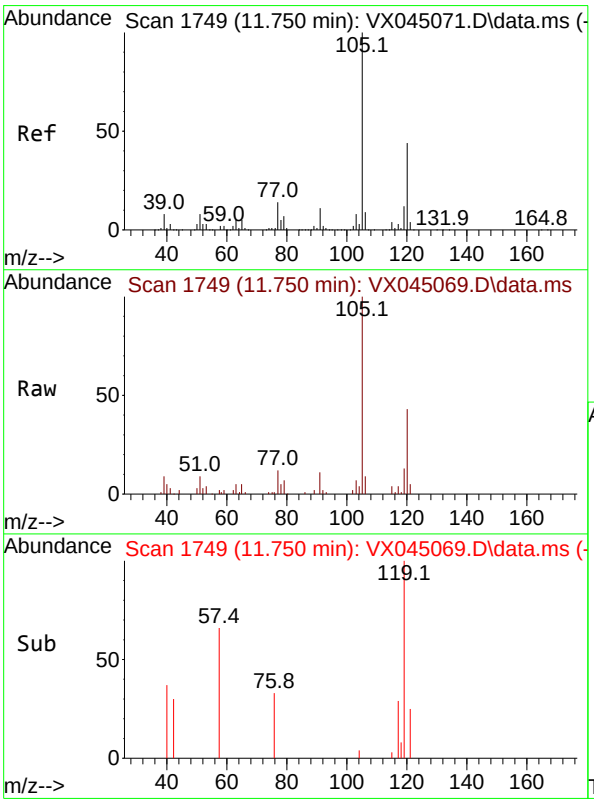
Ion	Ratio	Lower	Upper
119	100		
91	59.5	30.7	92.1
134	24.9	11.7	35.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

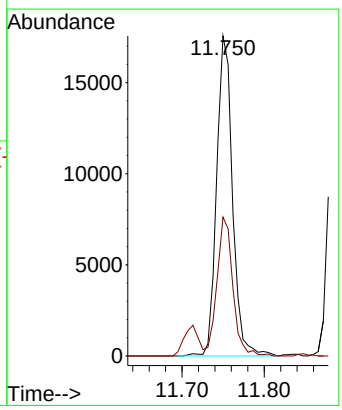


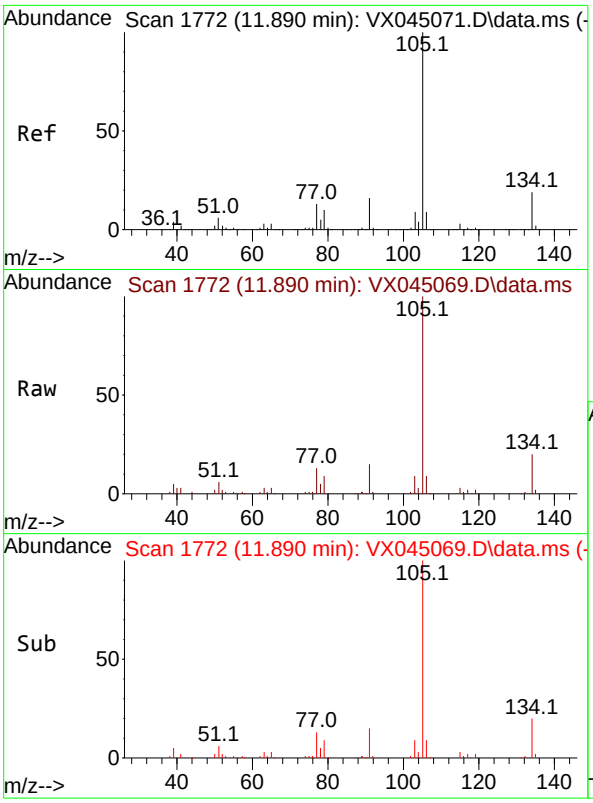


#84
1,2,4-Trimethylbenzene
Concen: 4.960 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion:105 Resp: 23561

Ion	Ratio	Lower	Upper
105	100		
120	43.4	22.1	66.1





#85
sec-Butylbenzene
Concen: 4.687 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion:105 Resp: 2831

Ion	Ratio	Lower	Upper
105	100		
134	19.3	9.8	29.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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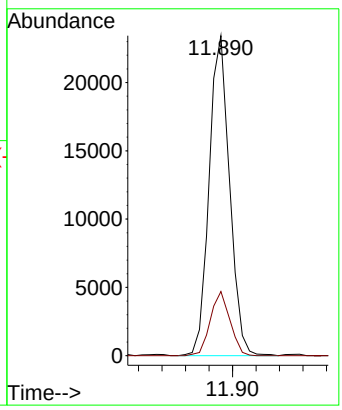
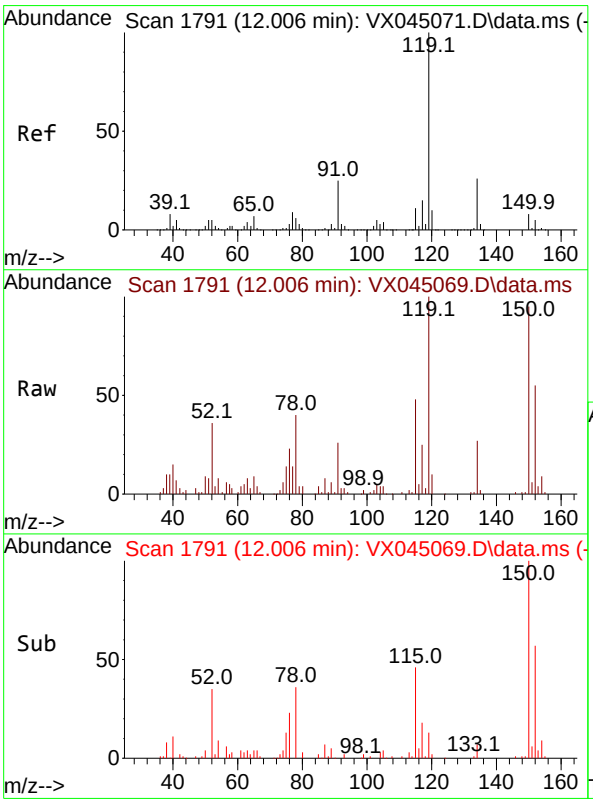
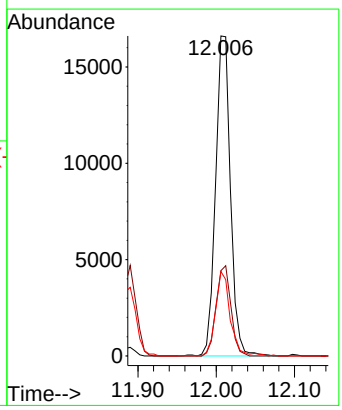


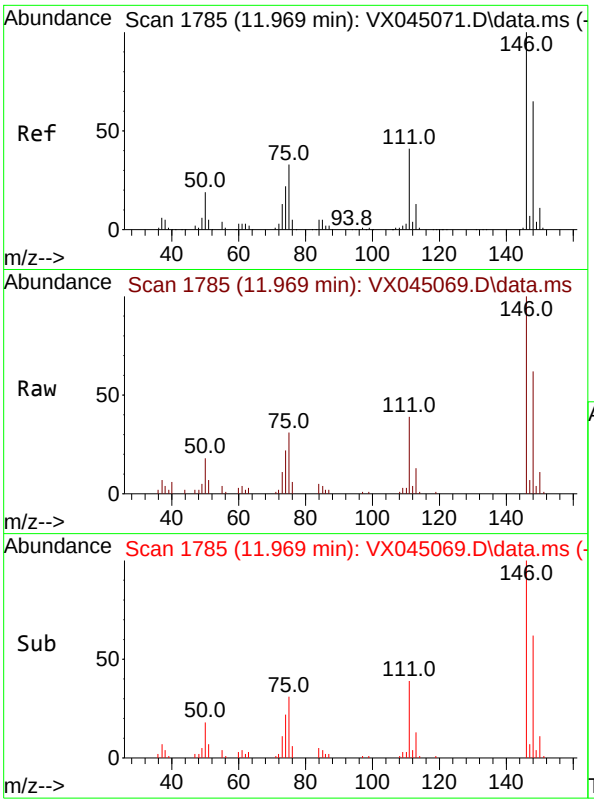


#86
p-Isopropyltoluene
Concen: 4.532 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion:119 Resp: 21977

Ion	Ratio	Lower	Upper
119	100		
134	27.9	12.9	38.6
91	26.1	12.7	38.0





#87
1,3-Dichlorobenzene
Concen: 4.926 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion:146 Resp: 1215

Ion	Ratio	Lower	Upper
146	100		
111	40.5	21.1	63.4
148	62.9	31.9	95.7

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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Reviewed By :John Carlone 02/28/2025
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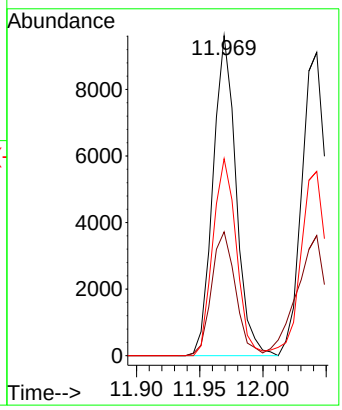
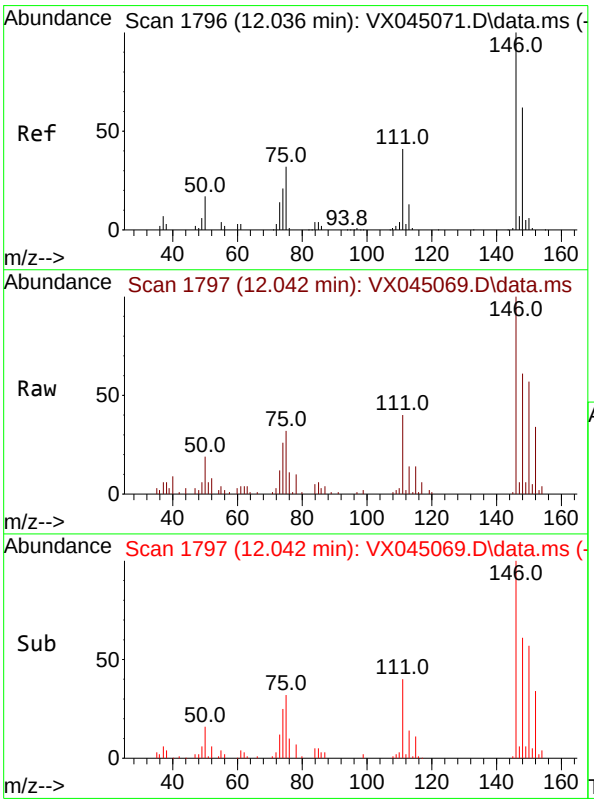
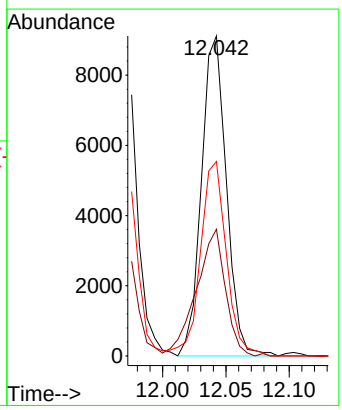


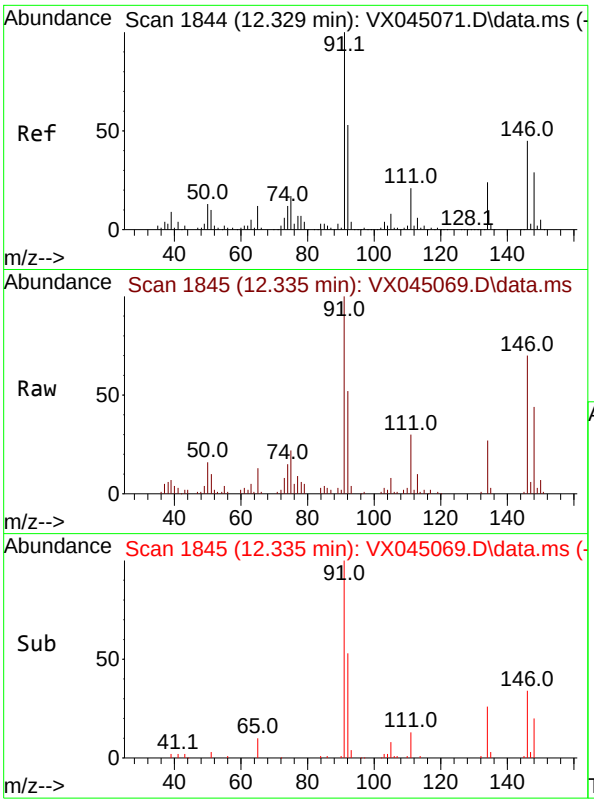


#88
1,4-Dichlorobenzene
Concen: 5.014 ug/l
RT: 12.042 min Scan# 1797
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion:146 Resp: 12526

Ion	Ratio	Lower	Upper
146	100		
111	46.2	20.2	60.5
148	63.5	31.9	95.9





#89
n-Butylbenzene
Concen: 4.072 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 91 Resp: 1735

Ion	Ratio	Lower	Upper
91	100		
92	53.9	26.7	80.0
134	24.4	12.2	36.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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Reviewed By :John Carlone 02/28/2025
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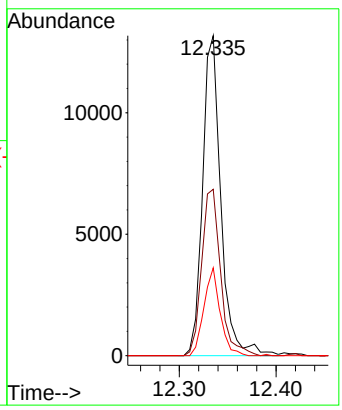
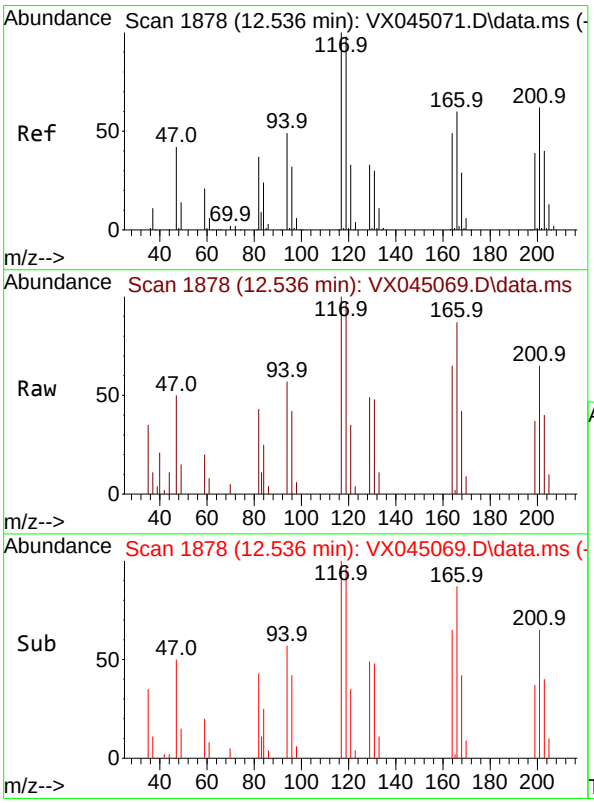
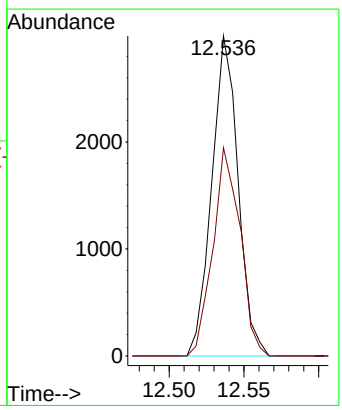


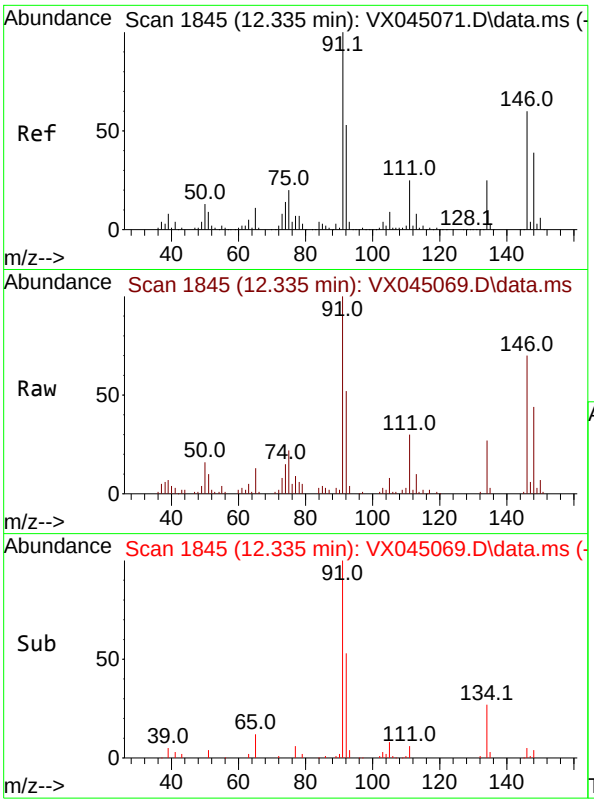


#90
Hexachloroethane
Concen: 4.052 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion:117 Resp: 3665

Ion	Ratio	Lower	Upper
117	100		
201	67.1	31.9	95.9





#91
1,2-Dichlorobenzene
Concen: 5.138 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

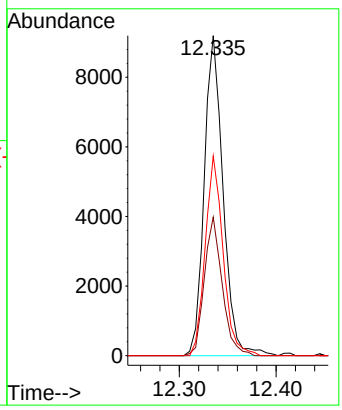
Tgt Ion:146 Resp: 1247

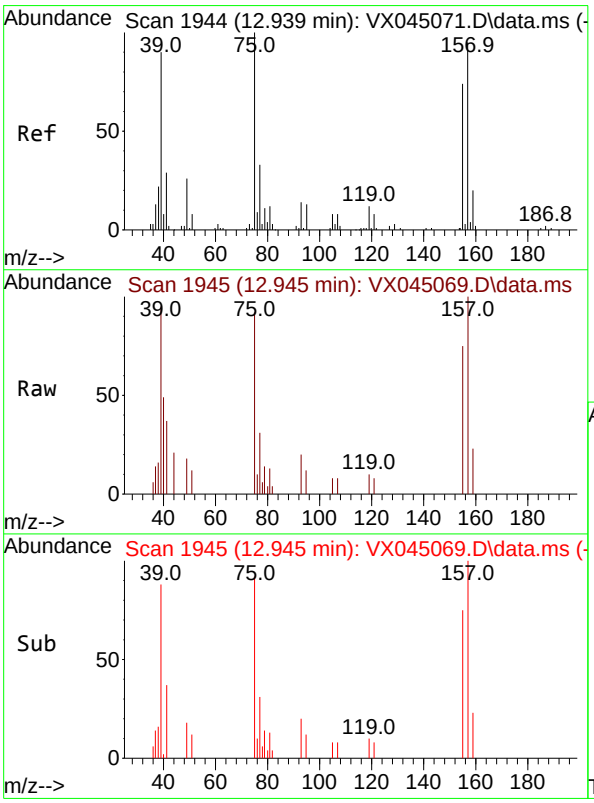
Ion	Ratio	Lower	Upper
146	100		
111	41.2	21.6	65.0
148	59.4	31.9	95.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

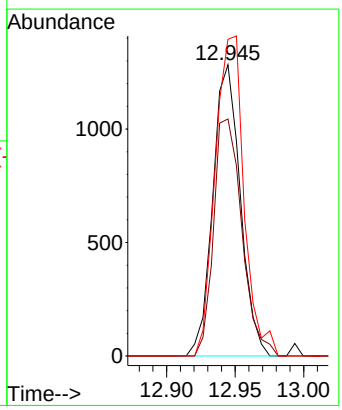


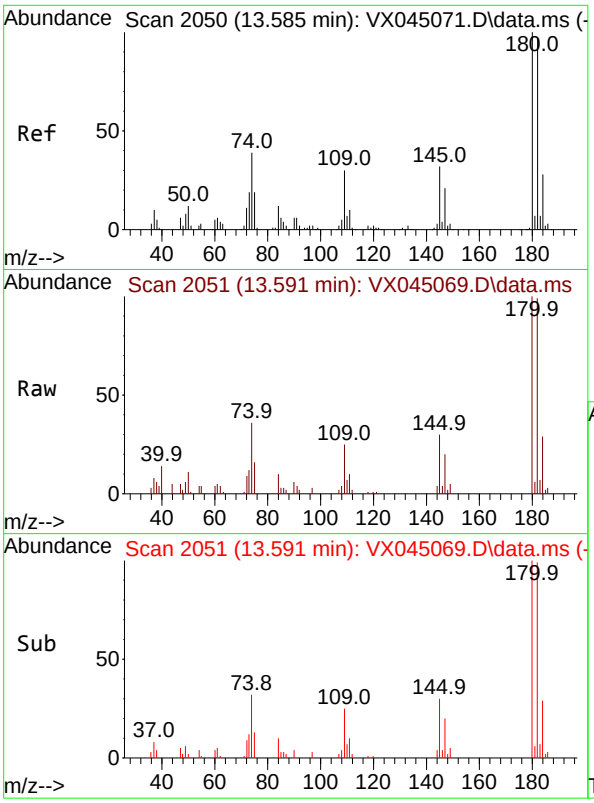


#92
1,2-Dibromo-3-Chloropropane
Concen: 4.712 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion: 75 Resp: 1787

Ion	Ratio	Lower	Upper
75	100		
155	83.8	39.6	118.7
157	115.4	51.1	153.4





#93
1,2,4-Trichlorobenzene
Concen: 4.114 ug/l
RT: 13.591 min Scan# 2(
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

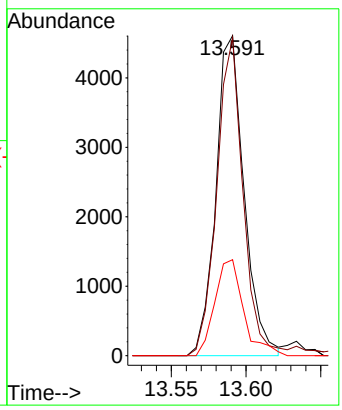
Tgt Ion:180 Resp: 604(

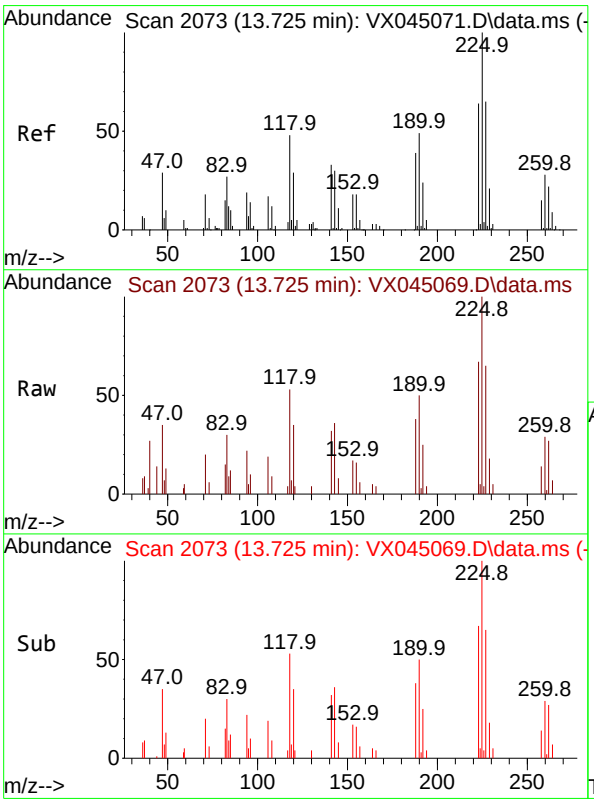
Ion	Ratio	Lower	Upper
180	100		
182	92.4	47.3	141.9
145	30.6	16.3	48.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

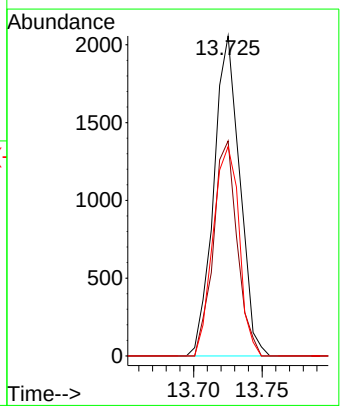


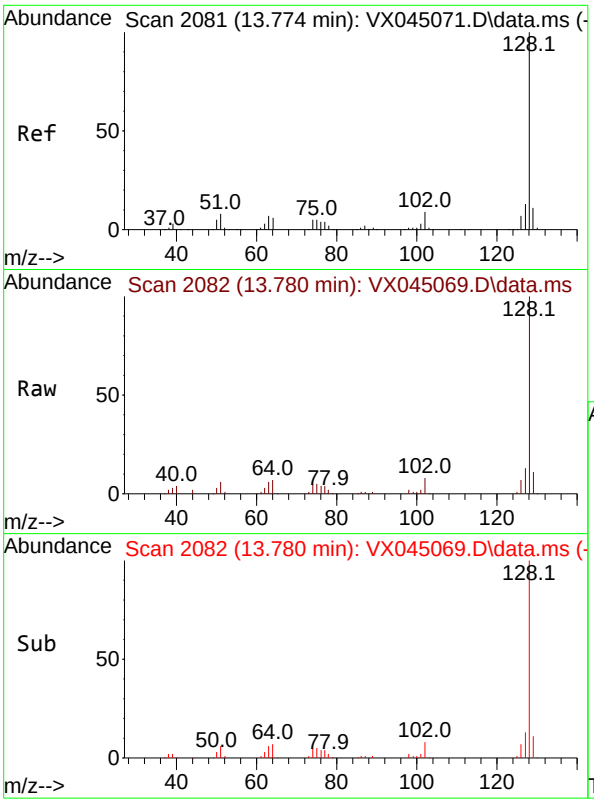


#94
Hexachlorobutadiene
Concen: 4.640 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion:225 Resp: 2716

Ion	Ratio	Lower	Upper
225	100		
223	61.8	31.9	95.7
227	65.5	31.4	94.0





#95
Naphthalene
Concen: 4.287 ug/l
RT: 13.780 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

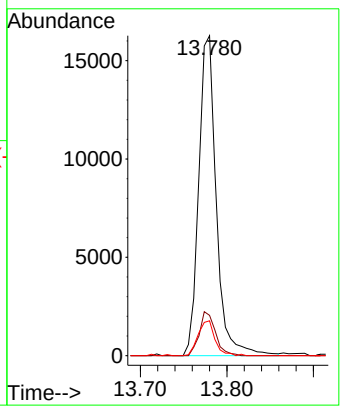
Tgt Ion:128 Resp: 2292

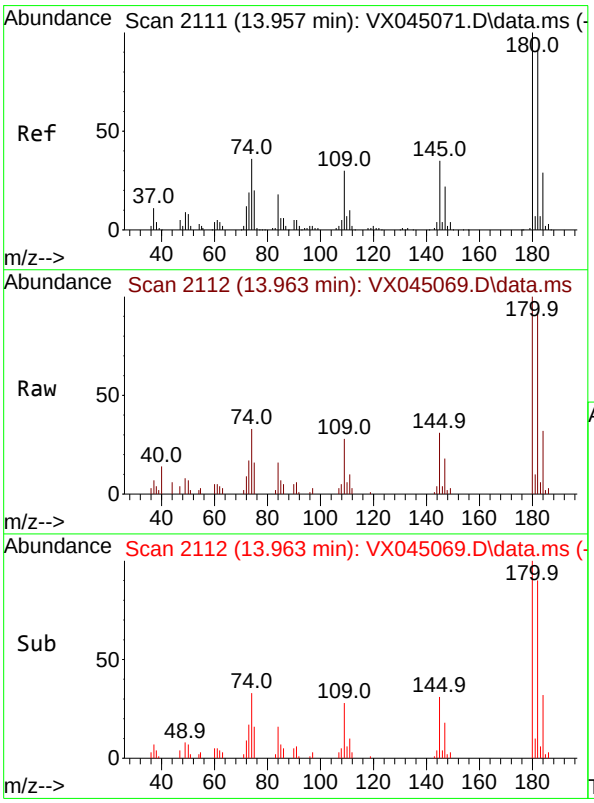
Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.3	15.5
129	10.6	8.7	13.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

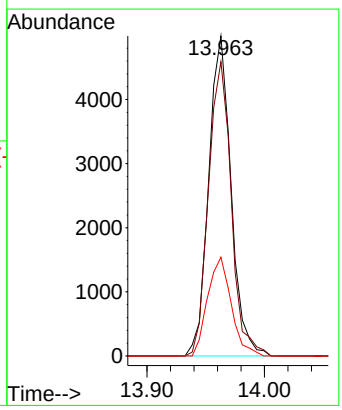




#96
1,2,3-Trichlorobenzene
Concen: 4.437 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. 0.006 min
Lab File: VX045069.D
Acq: 28 Feb 2025 02:13

Tgt Ion:180 Resp: 6600

Ion	Ratio	Lower	Upper
180	100		
182	93.3	47.5	142.6
145	32.6	17.0	50.9



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045070.D
Acq On : 28 Feb 2025 02:37
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Feb 28 05:33:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 05:28:02 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene	5.543	168	97338	50.000 ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	177403	50.000 ug/l	0.00
63) Chlorobenzene-d5	10.055	117	157714	50.000 ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	70072	50.000 ug/l	0.00
System Monitoring Compounds					
33) 1,2-Dichloroethane-d4	5.958	65	30514	21.221 ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	42.440%#	
35) Dibromofluoromethane	5.385	113	23739	20.473 ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	40.940%#	
50) Toluene-d8	8.646	98	84516	19.469 ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	38.940%#	
62) 4-Bromofluorobenzene	11.079	95	27856	19.215 ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	38.420%#	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.166	85	25155	18.750 ug/l	95
3) Chloromethane	1.306	50	32219	19.736 ug/l	99
4) Vinyl Chloride	1.373	62	30134	18.899 ug/l	97
5) Bromomethane	1.593	94	11584	23.239 ug/l	99
6) Chloroethane	1.660	64	14237	23.457 ug/l	99
7) Trichlorofluoromethane	1.867	101	40880	20.015 ug/l	99
8) Diethyl Ether	2.135	74	15911	21.437 ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.312	101	23154	18.984 ug/l	98
10) Methyl Iodide	2.440	142	29500	18.867 ug/l	100
11) Tert butyl alcohol	2.983	59	31246	118.627 ug/l	98
12) 1,1-Dichloroethene	2.306	96	23810	19.014 ug/l	97
13) Acrolein	2.239	56	33586	117.747 ug/l	99
14) Allyl chloride	2.654	41	42993	19.096 ug/l	100
15) Acrylonitrile	3.068	53	84182	117.598 ug/l	100
16) Acetone	2.385	43	74701	126.257 ug/l	99
17) Carbon Disulfide	2.501	76	61802	18.139 ug/l	99
18) Methyl Acetate	2.709	43	35157	19.729 ug/l	99
19) Methyl tert-butyl Ether	3.117	73	82833	20.689 ug/l	96
20) Methylene Chloride	2.782	84	29281	20.895 ug/l	94
21) trans-1,2-Dichloroethene	3.080	96	23471	19.057 ug/l	97
22) Diisopropyl ether	3.763	45	90378	20.995 ug/l	93
23) Vinyl Acetate	3.721	43	381808	108.038 ug/l	99
24) 1,1-Dichloroethane	3.605	63	49826	20.716 ug/l	99
25) 2-Butanone	4.562	43	118713	124.449 ug/l	97
26) 2,2-Dichloropropane	4.470	77	22886	12.799 ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	29788	20.065 ug/l	99
28) Bromochloromethane	4.891	49	23869	20.579 ug/l	99
29) Tetrahydrofuran	5.007	42	77433	122.519 ug/l	99
30) Chloroform	5.086	83	49751	21.147 ug/l	97
31) Cyclohexane	5.464	56	42340	19.181 ug/l	98
32) 1,1,1-Trichloroethane	5.373	97	39276	19.831 ug/l	99
36) 1,1-Dichloropropene	5.684	75	31519	18.903 ug/l	99
37) Ethyl Acetate	4.714	43	43097	22.714 ug/l	99
38) Carbon Tetrachloride	5.671	117	31694	19.334 ug/l	97
39) Methylcyclohexane	7.372	83	39769	18.676 ug/l	97
40) Benzene	6.031	78	105787	20.298 ug/l	98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045070.D
Acq On : 28 Feb 2025 02:37
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Feb 28 05:33:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 05:28:02 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	4.928	41	23924	23.605 ug/l	97
42) 1,2-Dichloroethane	6.086	62	38653	22.886 ug/l	99
43) Isopropyl Acetate	6.348	43	66727	22.094 ug/l	99
44) Trichloroethene	7.122	130	24052	20.191 ug/l	98
45) 1,2-Dichloropropane	7.427	63	27128	20.945 ug/l	99
46) Dibromomethane	7.580	93	19323	21.357 ug/l	97
47) Bromodichloromethane	7.817	83	38038	21.732 ug/l	97
48) Methyl methacrylate	7.695	41	32627	22.757 ug/l	98
49) 1,4-Dioxane	7.665	88	14602	479.170 ug/l	97
51) 4-Methyl-2-Pentanone	8.573	43	229615	124.081 ug/l	98
52) Toluene	8.714	92	63326	20.463 ug/l	100
53) t-1,3-Dichloropropene	8.976	75	30917	17.871 ug/l	97
54) cis-1,3-Dichloropropene	8.366	75	36118	18.675 ug/l	97
55) 1,1,2-Trichloroethane	9.152	97	26358	21.992 ug/l	99
56) Ethyl methacrylate	9.116	69	39850	20.791 ug/l	97
57) 1,3-Dichloropropane	9.305	76	45644	21.836 ug/l	100
58) 2-Chloroethyl Vinyl ether	8.238	63	96311	102.342 ug/l	99
59) 2-Hexanone	9.433	43	168768	126.428 ug/l	100
60) Dibromochloromethane	9.518	129	27705	21.668 ug/l	99
61) 1,2-Dibromoethane	9.610	107	26311	21.764 ug/l	98
64) Tetrachloroethene	9.268	164	20140	20.102 ug/l	97
65) Chlorobenzene	10.079	112	68777	20.316 ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.158	131	22508	20.627 ug/l	97
67) Ethyl Benzene	10.189	91	119165	19.905 ug/l	100
68) m/p-Xylenes	10.299	106	89735	40.699 ug/l	98
69) o-Xylene	10.640	106	44281	20.018 ug/l	98
70) Styrene	10.652	104	73832	20.767 ug/l	98
71) Bromoform	10.799	173	17403	21.449 ug/l #	99
73) Isopropylbenzene	10.963	105	112099	19.794 ug/l	99
74) N-amyl acetate	10.841	43	52972	20.606 ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.213	83	42413	21.738 ug/l	100
76) 1,2,3-Trichloropropane	11.237	75	33440m	21.394 ug/l	
77) Bromobenzene	11.195	156	26310	20.466 ug/l	99
78) n-propylbenzene	11.305	91	128284	19.641 ug/l	100
79) 2-Chlorotoluene	11.359	91	79275	19.775 ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	94545	20.581 ug/l	98
81) trans-1,4-Dichloro-2-b...	11.018	75	8759	15.196 ug/l	96
82) 4-Chlorotoluene	11.451	91	86281	19.443 ug/l	98
83) tert-Butylbenzene	11.713	119	93670	20.159 ug/l	99
84) 1,2,4-Trimethylbenzene	11.750	105	94734	20.943 ug/l	100
85) sec-Butylbenzene	11.890	105	115953	20.160 ug/l	100
86) p-Isopropyltoluene	12.006	119	91554	19.827 ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	47934	20.400 ug/l	97
88) 1,4-Dichlorobenzene	12.042	146	46657	19.615 ug/l	99
89) n-Butylbenzene	12.329	91	78135	19.249 ug/l	100
90) Hexachloroethane	12.536	117	15919	18.483 ug/l	98
91) 1,2-Dichlorobenzene	12.335	146	48632	21.031 ug/l	98
92) 1,2-Dibromo-3-Chloropr...	12.944	75	7987	22.119 ug/l	99
93) 1,2,4-Trichlorobenzene	13.585	180	27424	19.617 ug/l	99
94) Hexachlorobutadiene	13.725	225	10934	19.616 ug/l	99
95) Naphthalene	13.774	128	108350	21.279 ug/l	100
96) 1,2,3-Trichlorobenzene	13.963	180	28937	20.432 ug/l	98

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045070.D
Acq On : 28 Feb 2025 02:37
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Feb 28 05:33:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 05:28:02 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

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

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

Quantitation Report (QT Reviewed)

ICAL Form

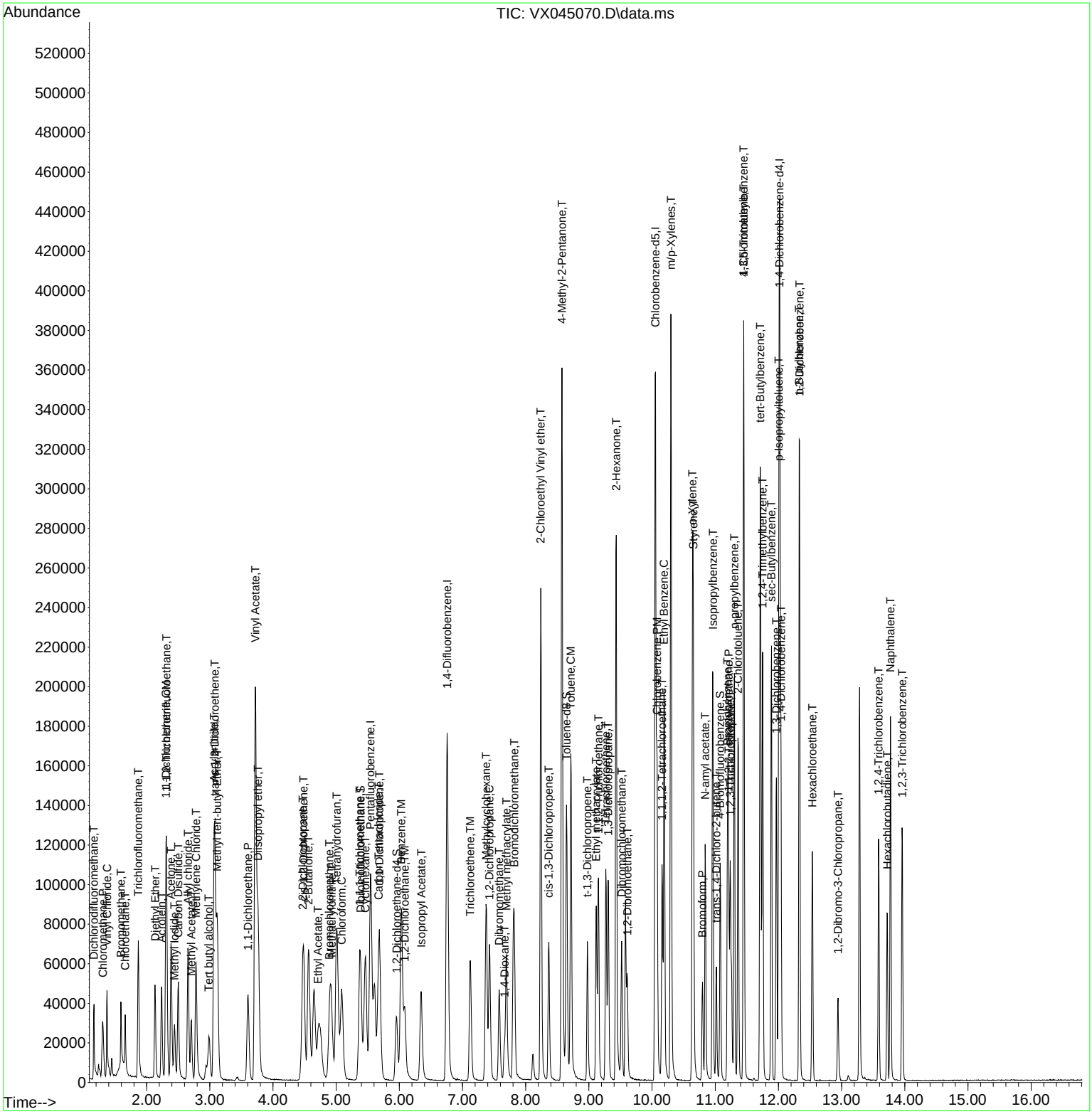
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045070.D
Acq On : 28 Feb 2025 02:37
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

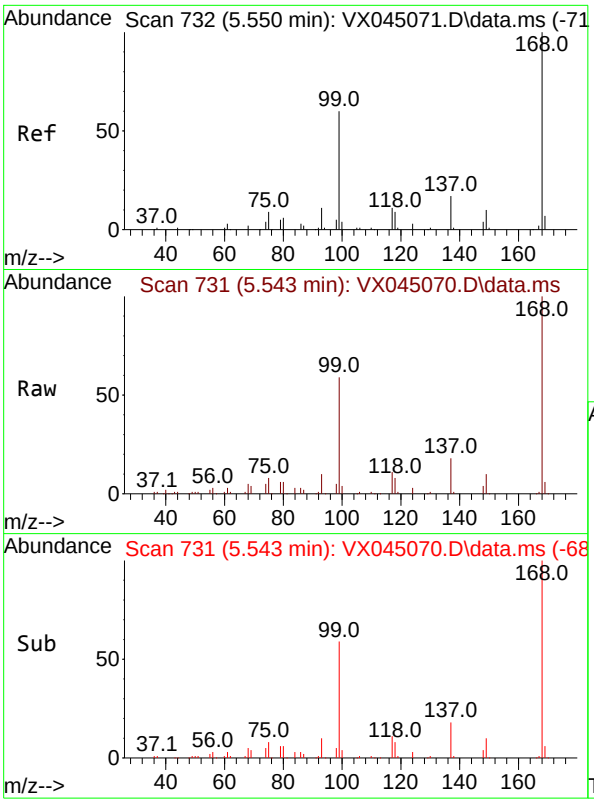
Quant Time: Feb 28 05:33:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 05:28:02 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.543 min Scan# 7
Delta R.T. -0.007 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

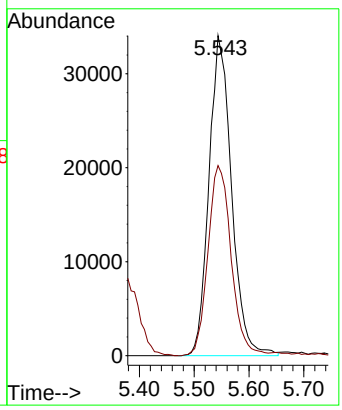
Tgt Ion:168 Resp: 9733

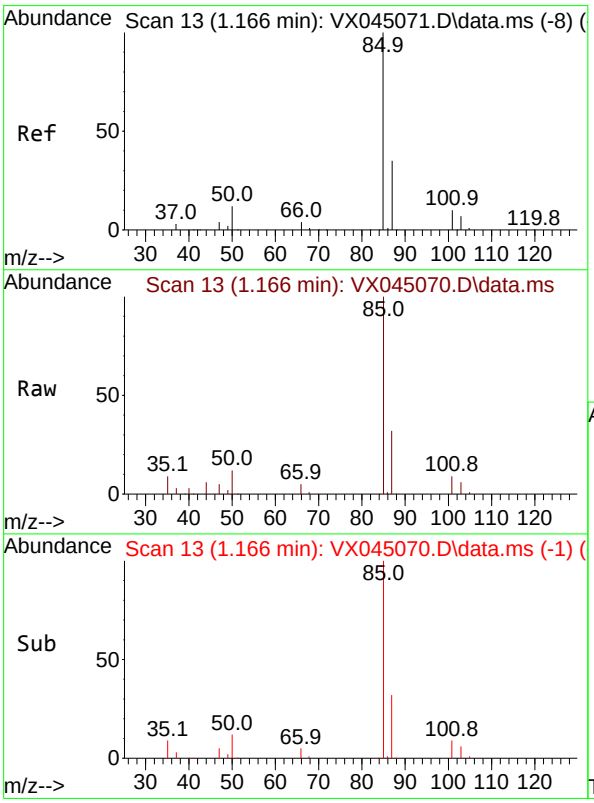
Ion	Ratio	Lower	Upper
168	100		
99	59.4	48.2	72.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

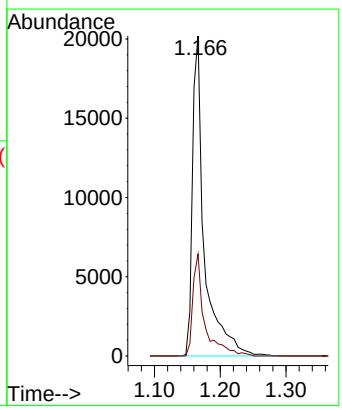


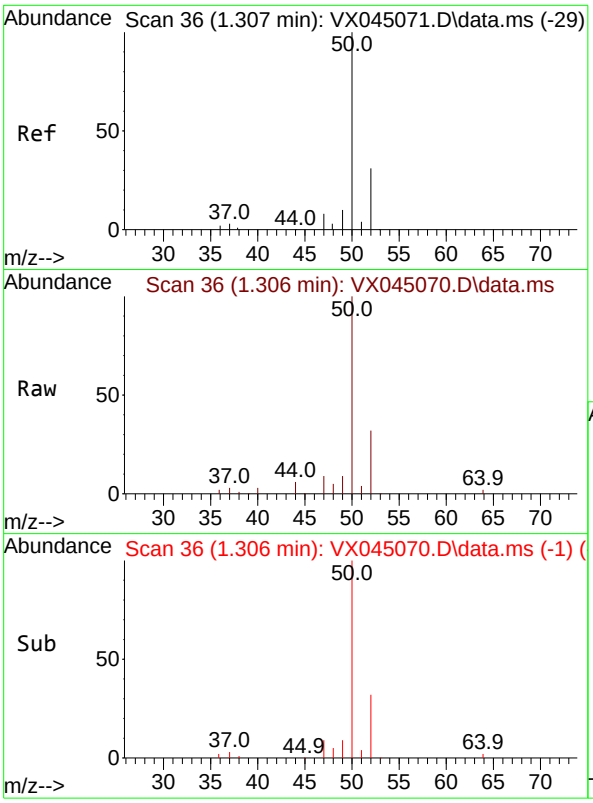


#2
Dichlorodifluoromethane
Concen: 18.750 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 85 Resp: 25155

Ion	Ratio	Lower	Upper
85	100		
87	31.9	17.4	52.3





#3
Chloromethane
Concen: 19.736 ug/l
RT: 1.306 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

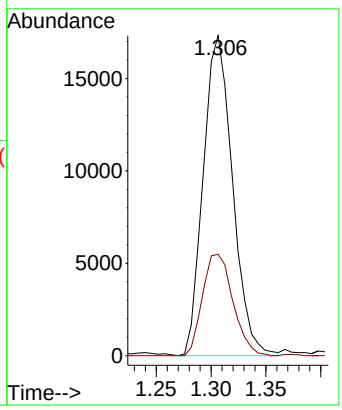
Tgt Ion: 50 Resp: 3221

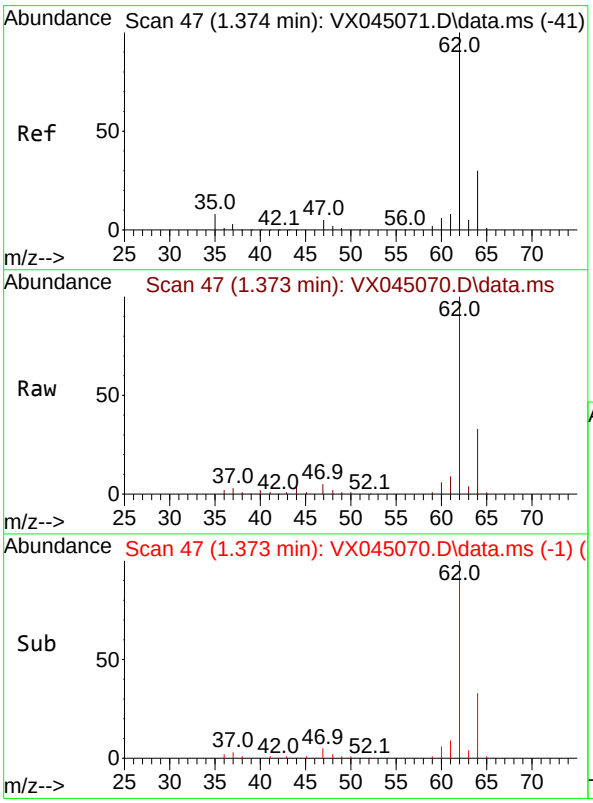
Ion	Ratio	Lower	Upper
50	100		
52	31.7	25.0	37.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

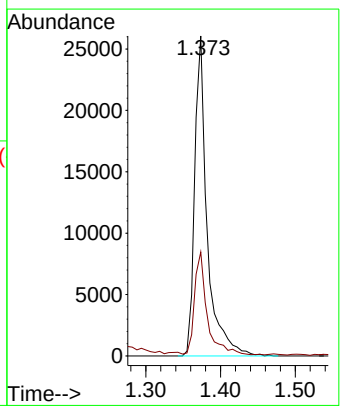


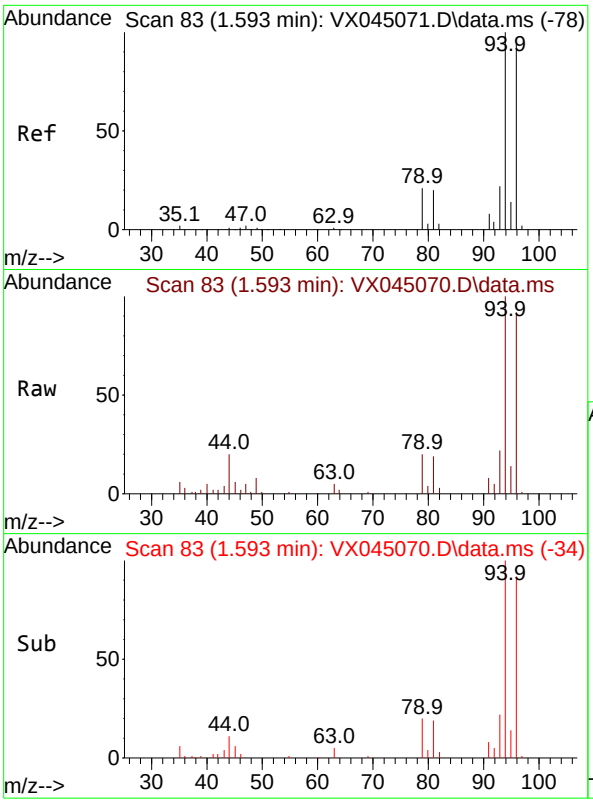


#4
Vinyl Chloride
Concen: 18.899 ug/l
RT: 1.373 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 62 Resp: 30134

Ion	Ratio	Lower	Upper
62	100		
64	32.0	24.3	36.5





#5
Bromomethane
Concen: 23.239 ug/l
RT: 1.593 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 94 Resp: 1158

Ion	Ratio	Lower	Upper
94	100		
96	92.4	75.0	112.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
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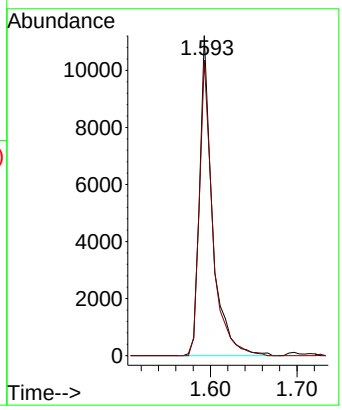
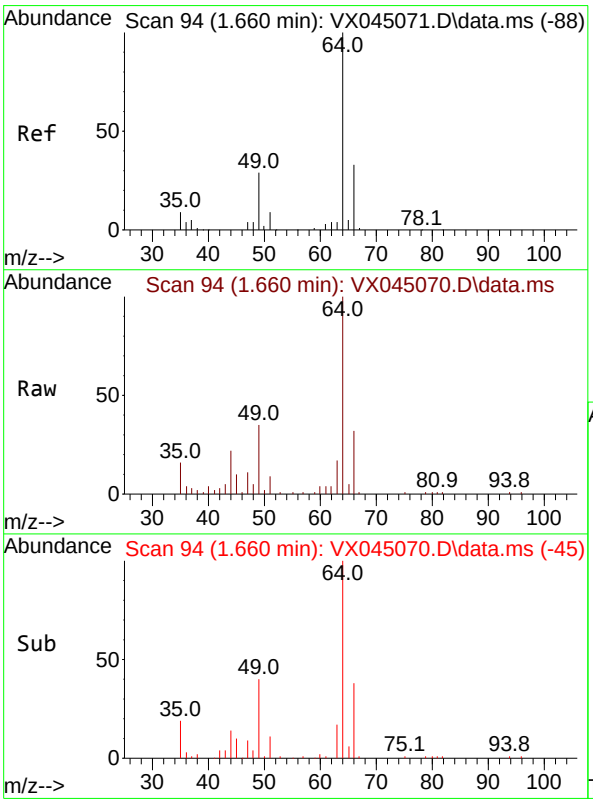
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

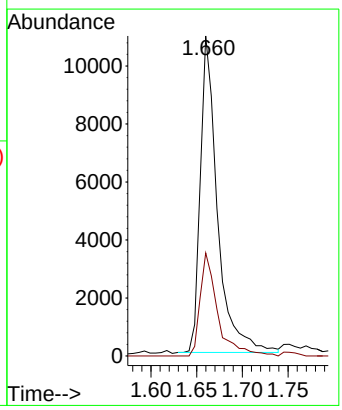


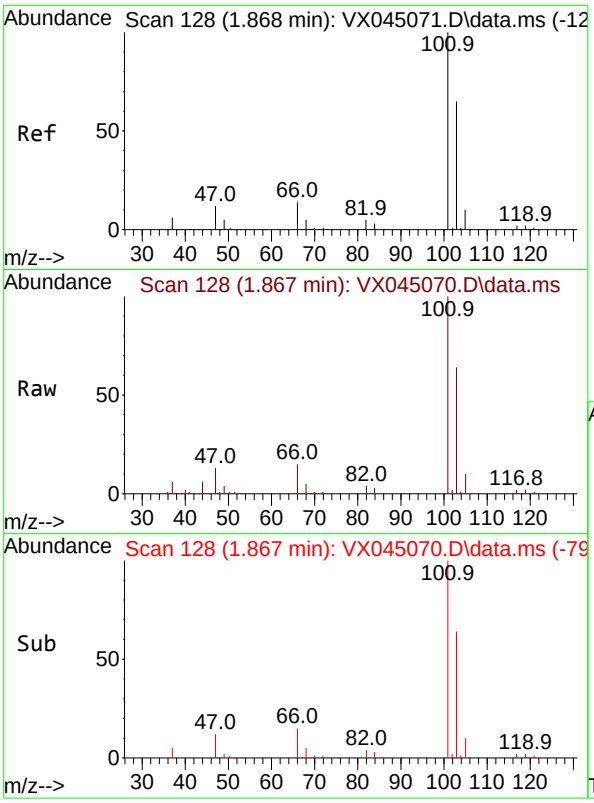


#6
Chloroethane
Concen: 23.457 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 64 Resp: 14237

Ion	Ratio	Lower	Upper
64	100		
66	32.6	26.7	40.1





#7
Trichlorofluoromethane
Concen: 20.015 ug/l
RT: 1.867 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion:101 Resp: 4088

Ion	Ratio	Lower	Upper
101	100		
103	64.0	52.1	78.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
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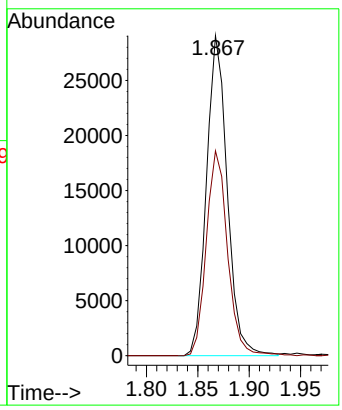
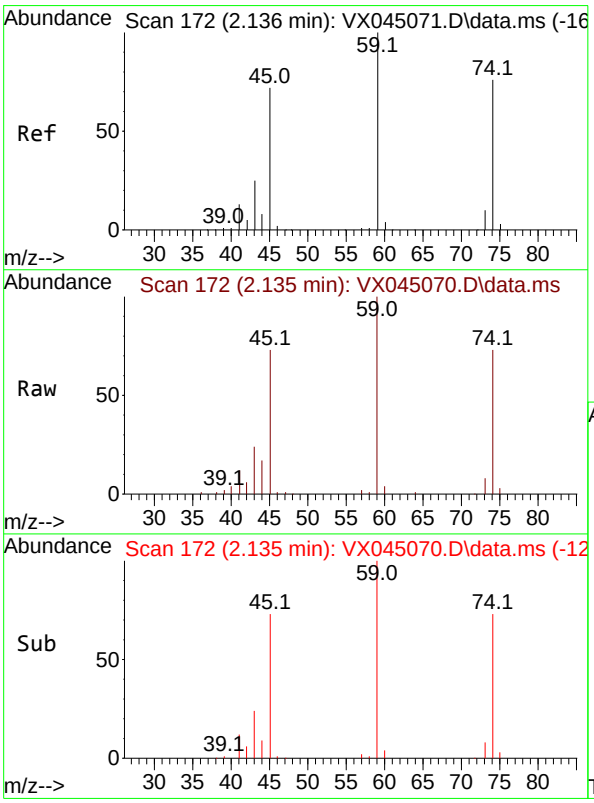
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

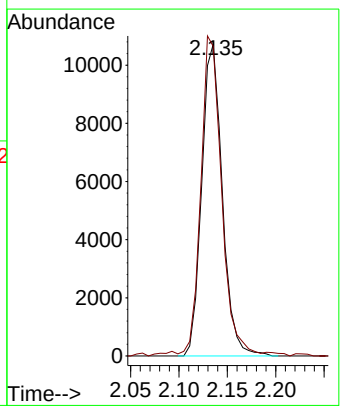


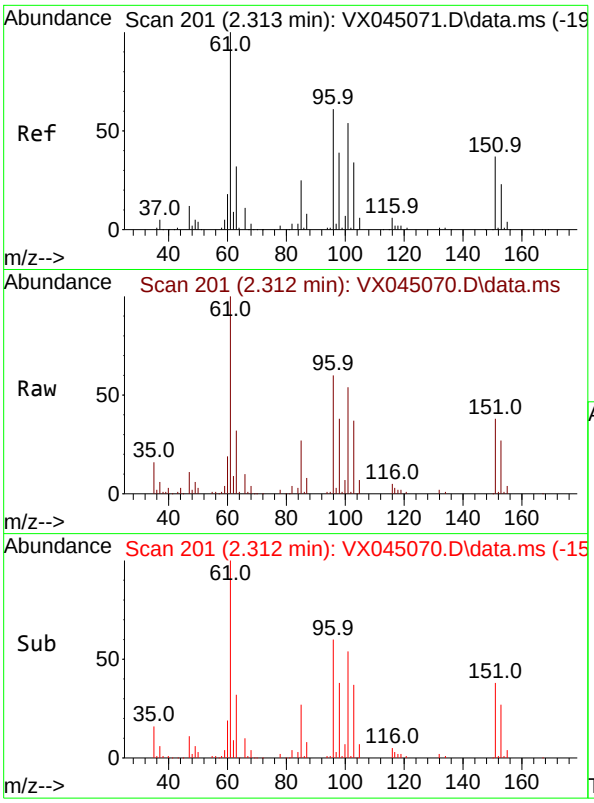


#8
Diethyl Ether
Concen: 21.437 ug/l
RT: 2.135 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 74 Resp: 15911

Ion	Ratio	Lower	Upper
74	100		
45	105.3	51.5	154.5





#9
1,1,2-Trichlorotrifluoroethane
Concen: 18.984 ug/l
RT: 2.312 min Scan# 2(
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion:101 Resp: 2315

Ion	Ratio	Lower	Upper
101	100		
85	46.5	36.2	54.4
151	71.8	56.4	84.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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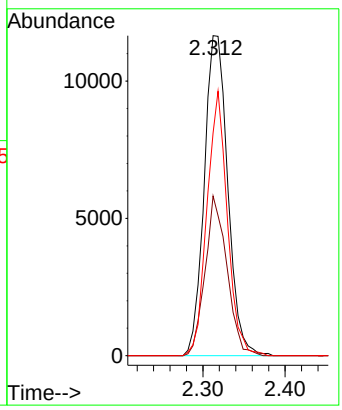
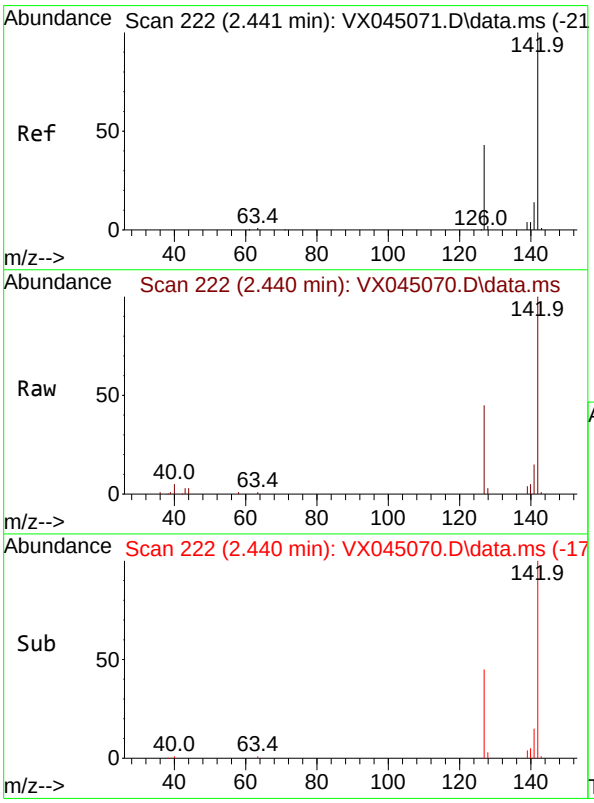
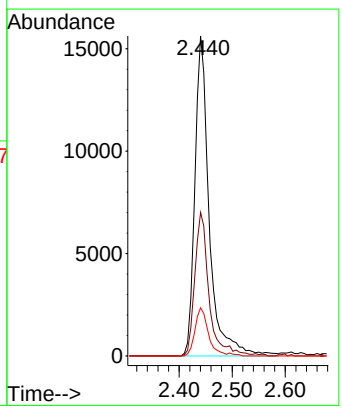


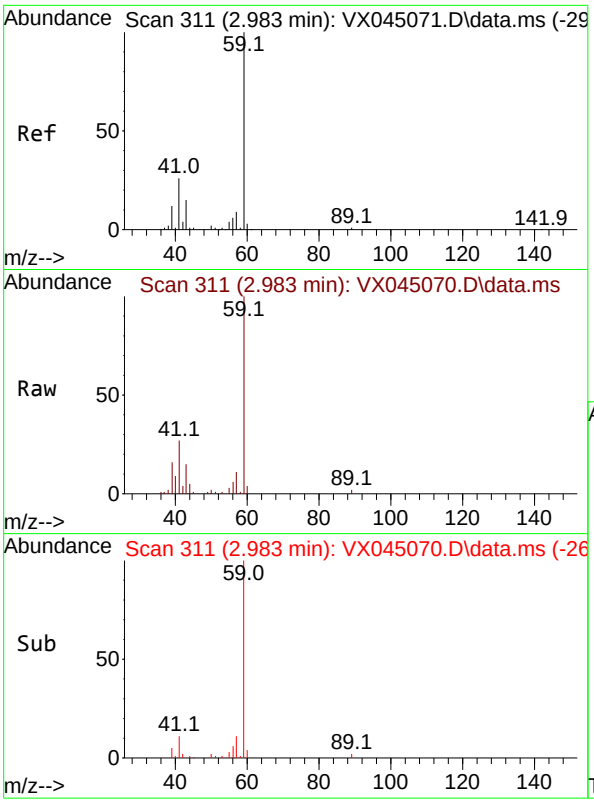


#10
Methyl Iodide
Concen: 18.867 ug/l
RT: 2.440 min Scan# 222
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion:142 Resp: 29500

Ion	Ratio	Lower	Upper
142	100		
127	44.2	35.4	53.2
141	14.3	11.6	17.4





#11
Tert butyl alcohol
Concen: 118.627 ug/l
RT: 2.983 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 59 Resp: 3124

Ion	Ratio	Lower	Upper
59	100		
57	8.9	7.8	11.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
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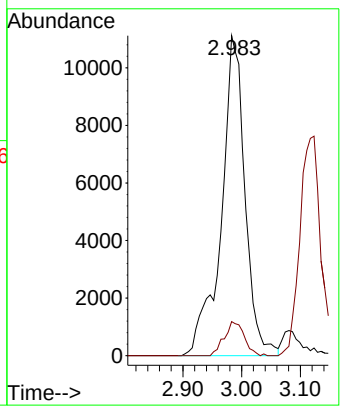
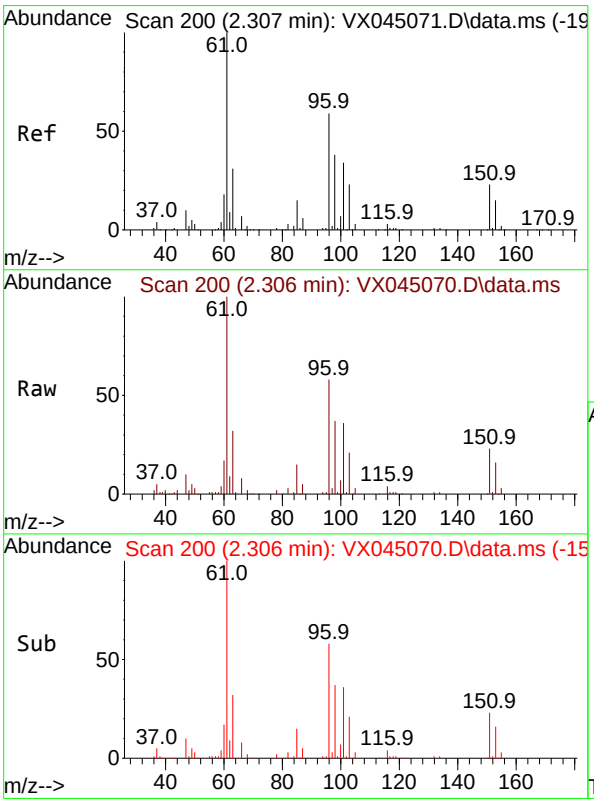
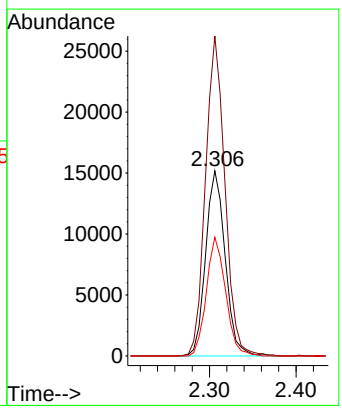


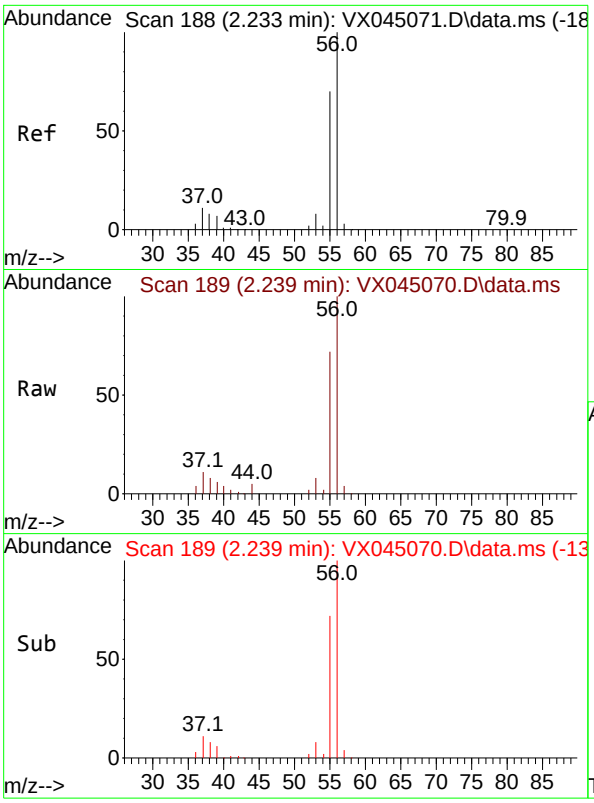


#12
1,1-Dichloroethene
Concen: 19.014 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 96 Resp: 23810

Ion	Ratio	Lower	Upper
96	100		
61	172.8	134.6	202.0
98	64.1	51.0	76.6





#13
Acrolein
Concen: 117.747 ug/l
RT: 2.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 56 Resp: 3358

Ion	Ratio	Lower	Upper
56	100		
55	71.4	56.2	84.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
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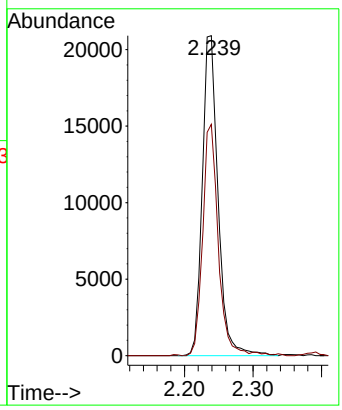
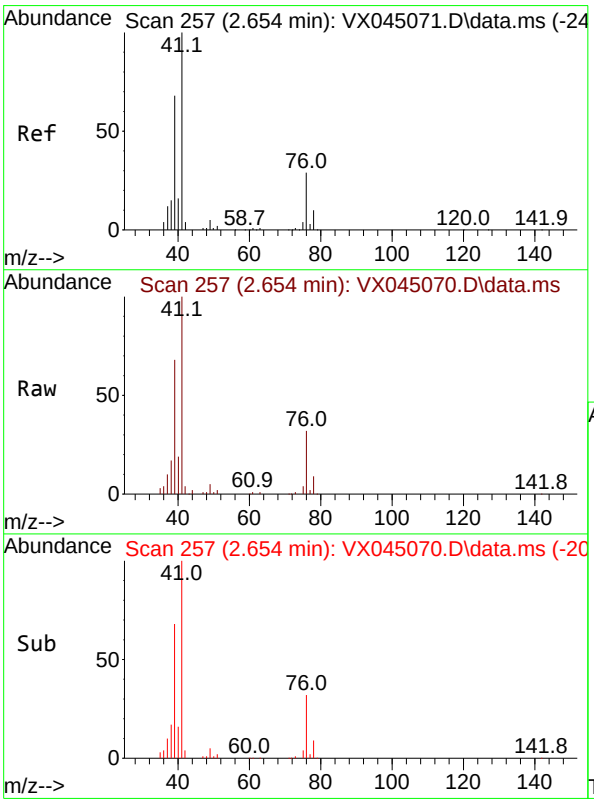
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

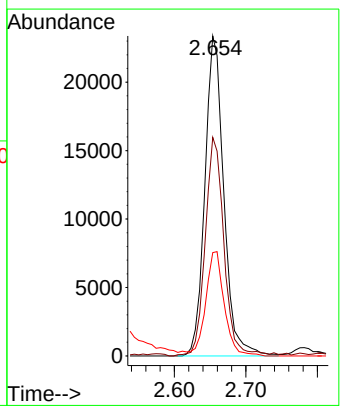


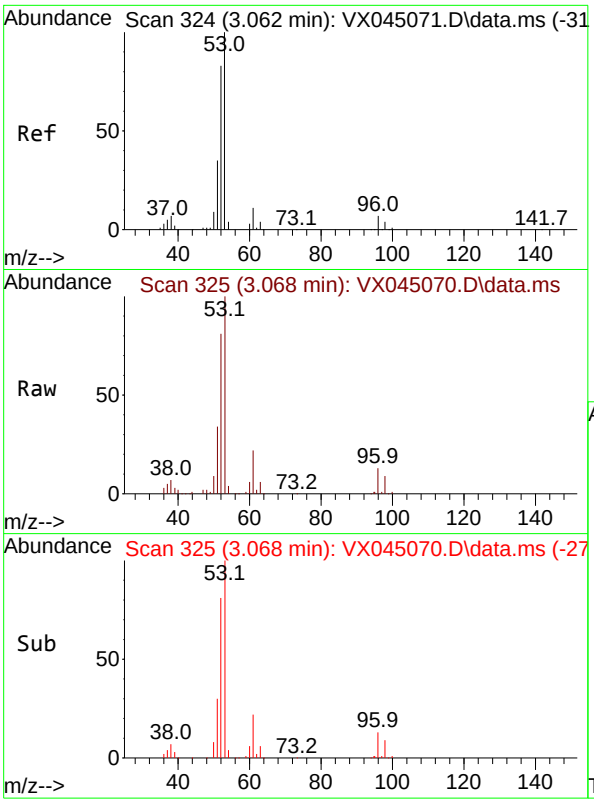


#14
Allyl chloride
Concen: 19.096 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 41 Resp: 42993

Ion	Ratio	Lower	Upper
41	100		
39	67.4	53.8	80.8
76	32.1	25.2	37.8





#15
Acrylonitrile
Concen: 117.598 ug/l
RT: 3.068 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 53 Resp: 8418

Ion	Ratio	Lower	Upper
53	100		
52	82.8	66.2	99.2
51	36.0	29.0	43.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
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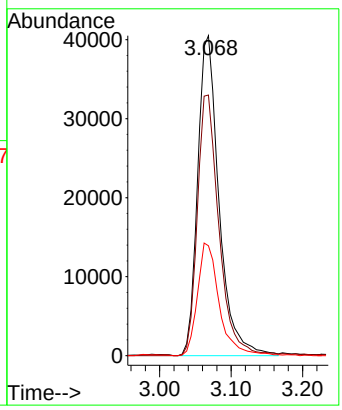
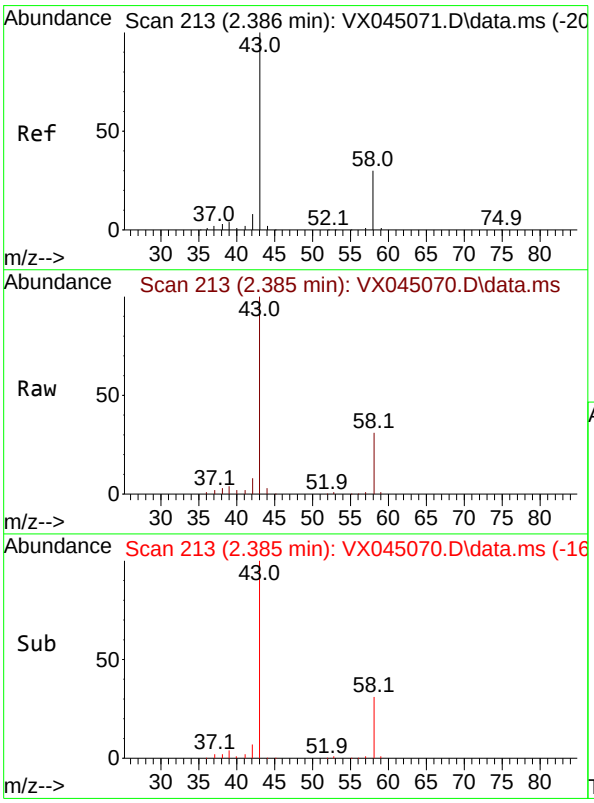
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

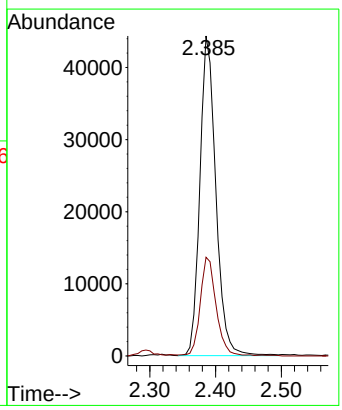


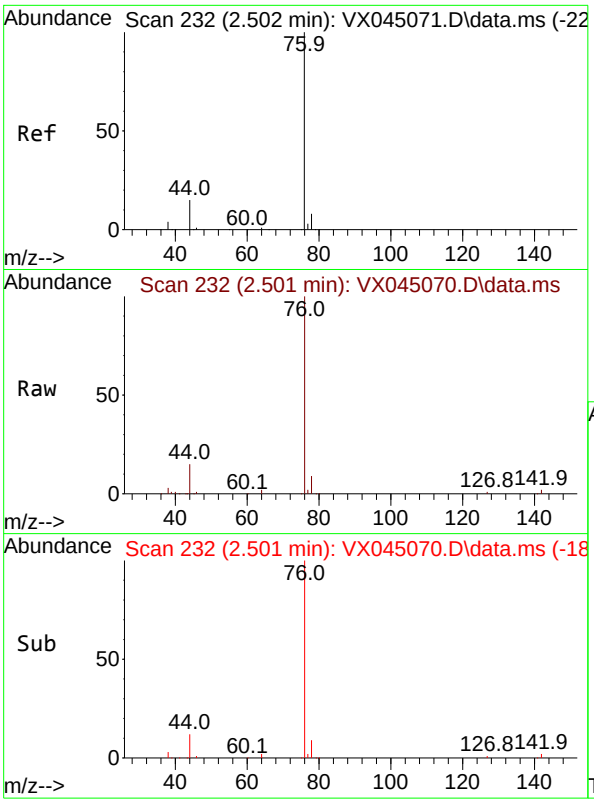


#16
Acetone
Concen: 126.257 ug/l
RT: 2.385 min Scan# 213
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 43 Resp: 74701

Ion	Ratio	Lower	Upper
43	100		
58	30.7	24.2	36.4





#17
Carbon Disulfide
Concen: 18.139 ug/l
RT: 2.501 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 76 Resp: 6180

Ion	Ratio	Lower	Upper
76	100		
78	8.5	6.6	9.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
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Reviewed By :John Carlone 02/28/2025
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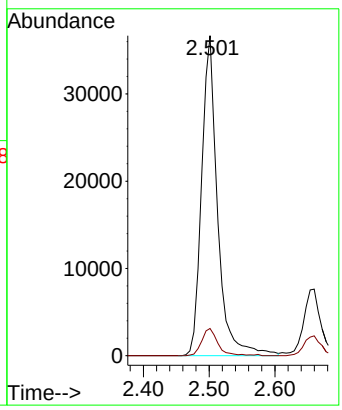
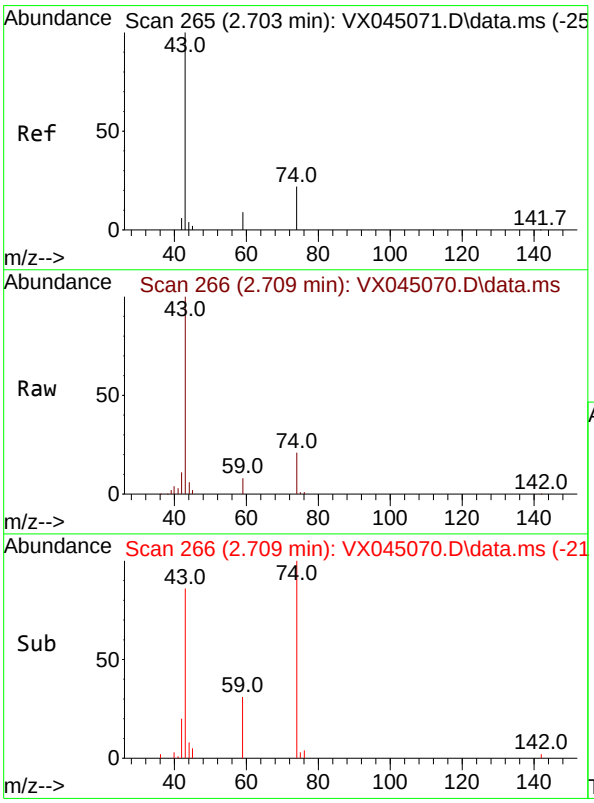
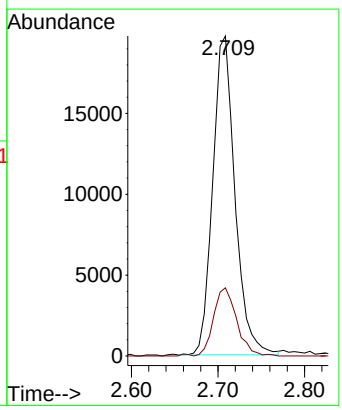


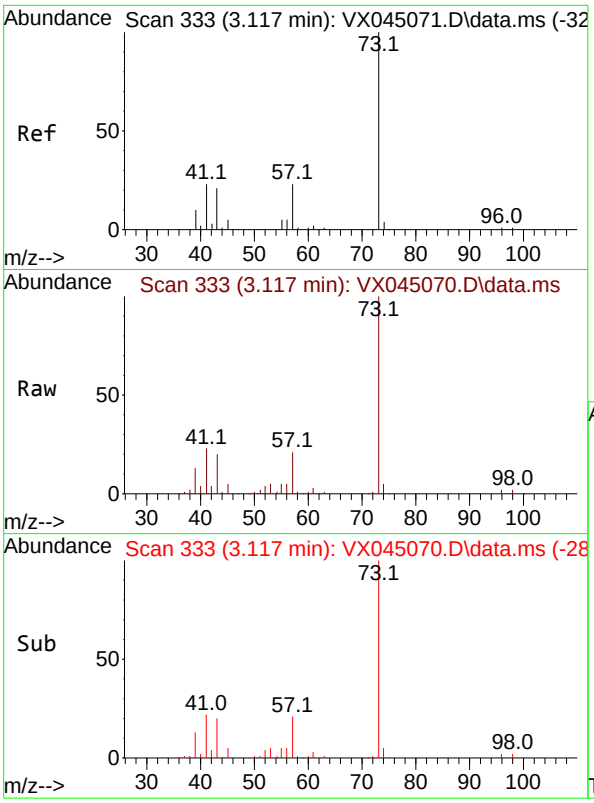


#18
Methyl Acetate
Concen: 19.729 ug/l
RT: 2.709 min Scan# 266
Delta R.T. 0.006 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 43 Resp: 35157

Ion	Ratio	Lower	Upper
43	100		
74	22.2	17.4	26.2





#19
Methyl tert-butyl Ether
Concen: 20.689 ug/l
RT: 3.117 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 73 Resp: 8283

Ion	Ratio	Lower	Upper
73	100		
57	21.1	18.5	27.7

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
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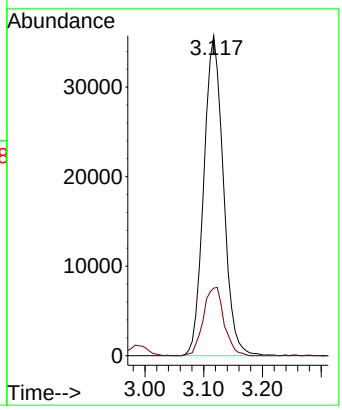
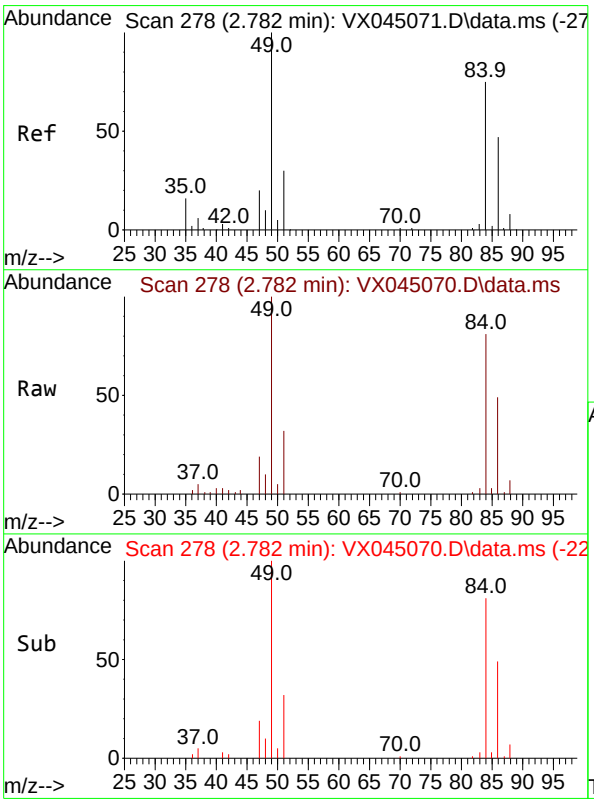
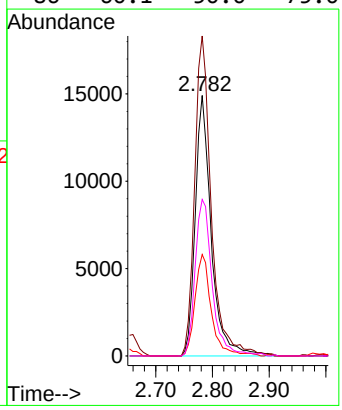


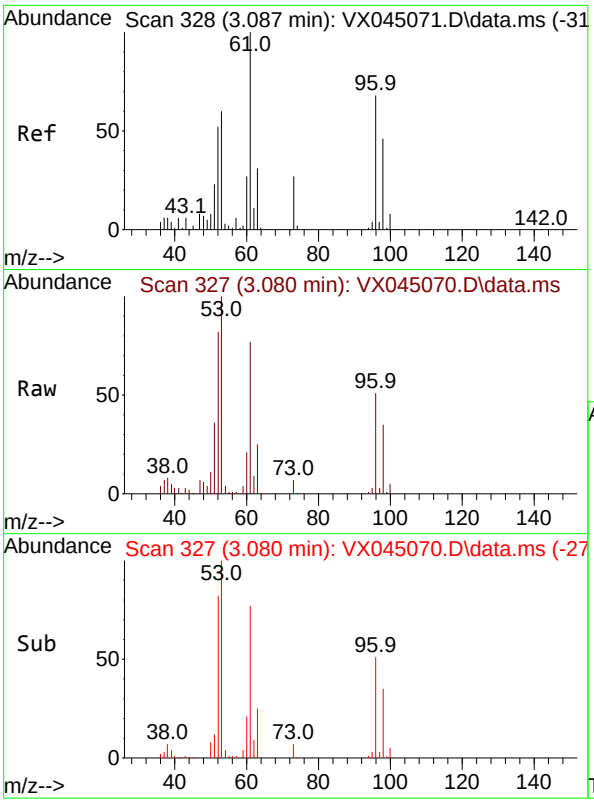


#20
Methylene Chloride
Concen: 20.895 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 84 Resp: 29281

Ion	Ratio	Lower	Upper
84	100		
49	122.9	106.5	159.7
51	38.9	32.1	48.1
86	60.1	50.0	75.0





#21
trans-1,2-Dichloroethene
Concen: 19.057 ug/l
RT: 3.080 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 96 Resp: 2347

Ion	Ratio	Lower	Upper
96	100		
61	150.3	117.0	175.4
98	67.5	53.4	80.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
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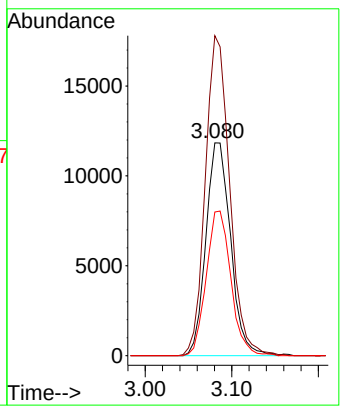
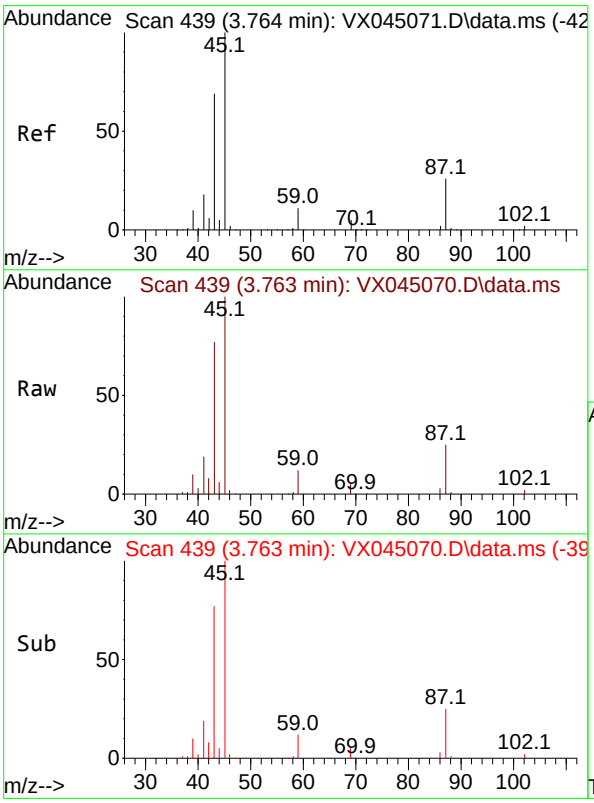
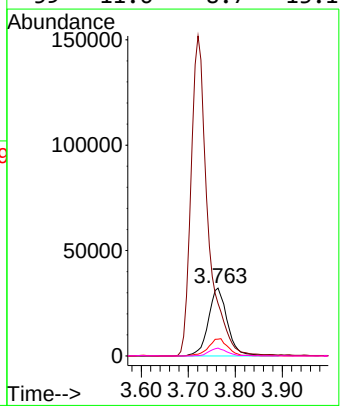


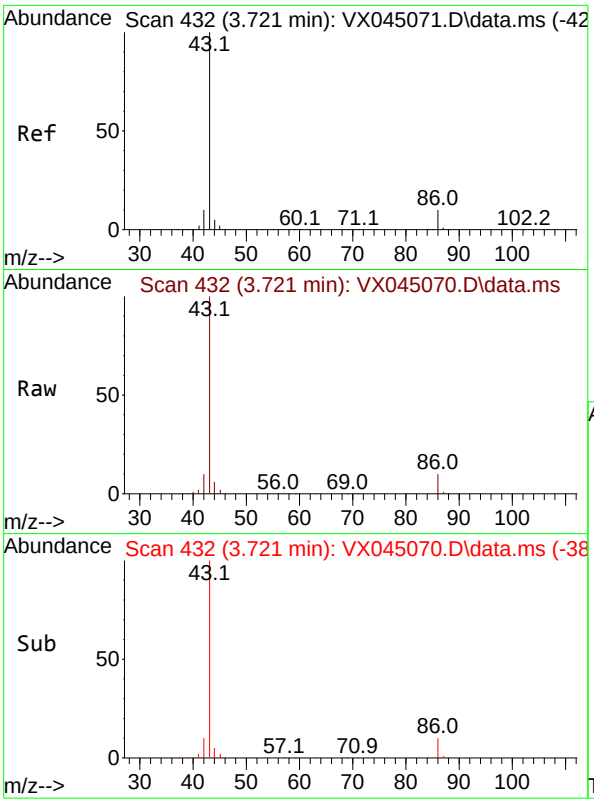


#22
Diisopropyl ether
Concen: 20.995 ug/l
RT: 3.763 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 45 Resp: 90378

Ion	Ratio	Lower	Upper
45	100		
43	76.4	54.9	82.3
87	24.7	21.0	31.4
59	11.6	8.7	13.1





#23
Vinyl Acetate
Concen: 108.038 ug/l
RT: 3.721 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 43 Resp: 38180

Ion	Ratio	Lower	Upper
43	100		
86	9.9	8.1	12.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
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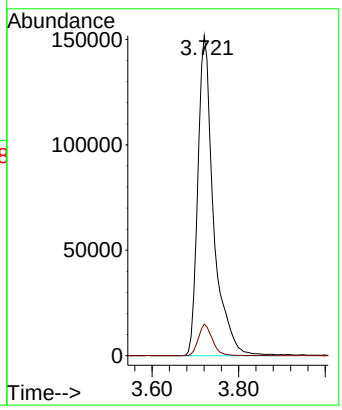
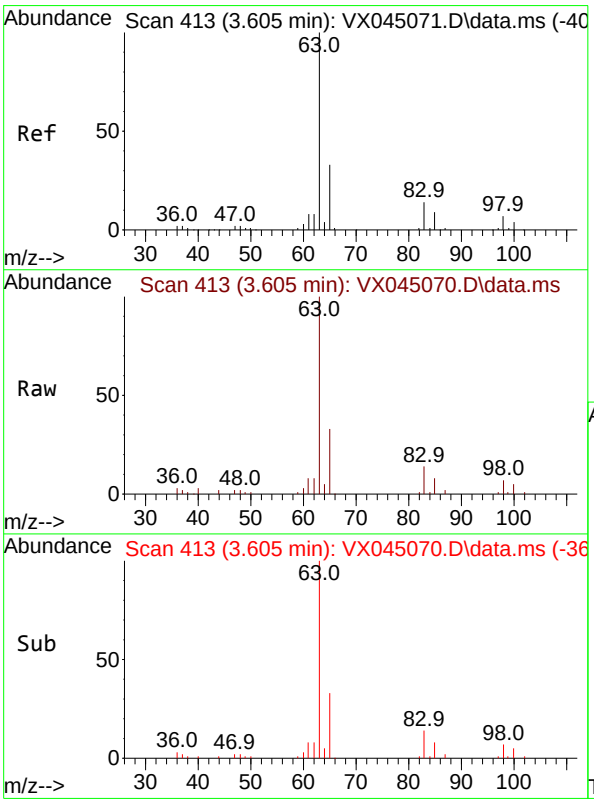
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

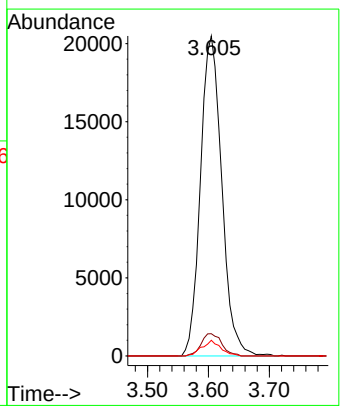


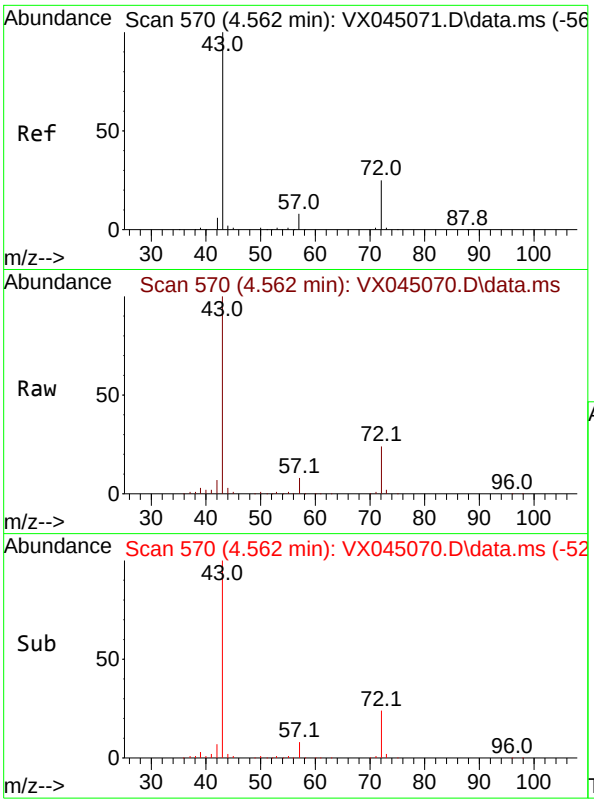


#24
1,1-Dichloroethane
Concen: 20.716 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 63 Resp: 49826

Ion	Ratio	Lower	Upper
63	100		
98	7.0	3.4	10.2
100	4.9	2.1	6.5





#25
2-Butanone
Concen: 124.449 ug/l
RT: 4.562 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 43 Resp: 11871

Ion	Ratio	Lower	Upper
43	100		
72	23.5	20.0	30.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
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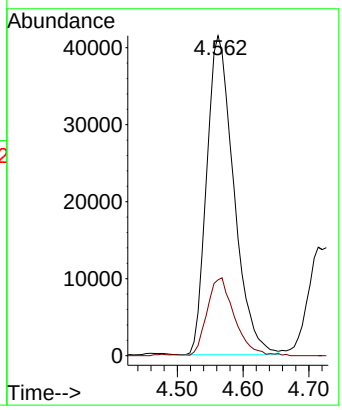
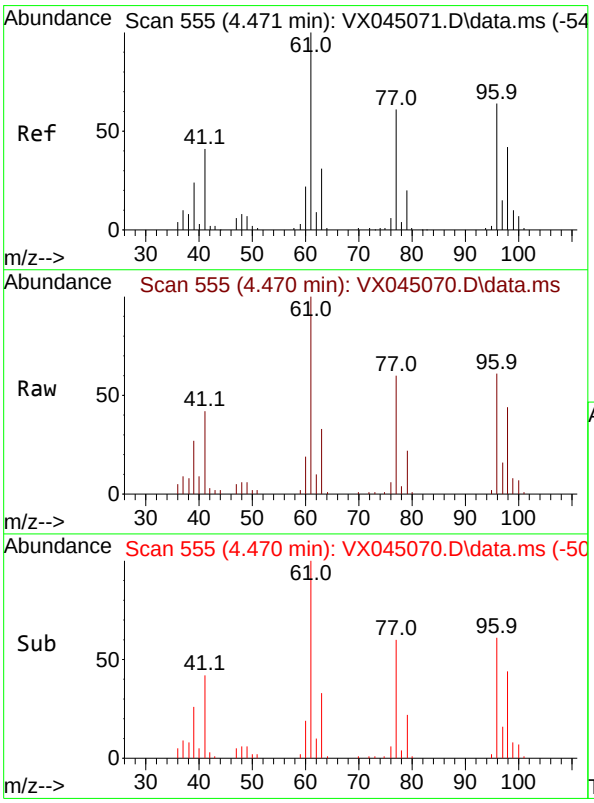
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

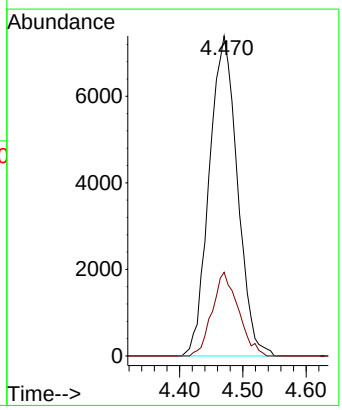


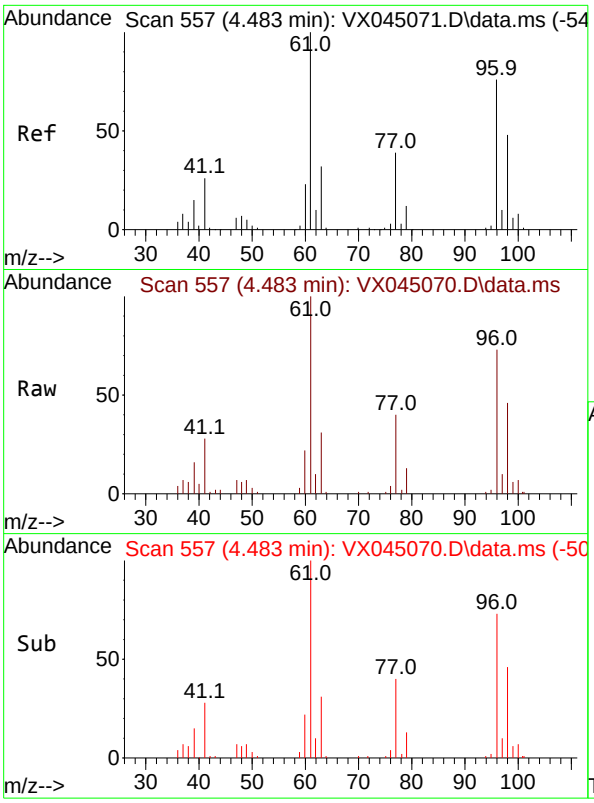


#26
2,2-Dichloropropane
Concen: 12.799 ug/l
RT: 4.470 min Scan# 555
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 77 Resp: 22886

Ion	Ratio	Lower	Upper
77	100		
97	24.2	12.4	37.0





#27
cis-1,2-Dichloroethene
Concen: 20.065 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 96 Resp: 2978

Ion	Ratio	Lower	Upper
96	100		
61	142.7	0.0	283.2
98	65.6	0.0	128.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
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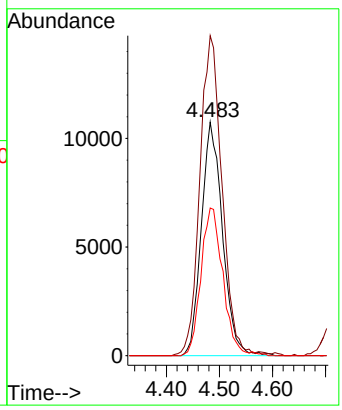
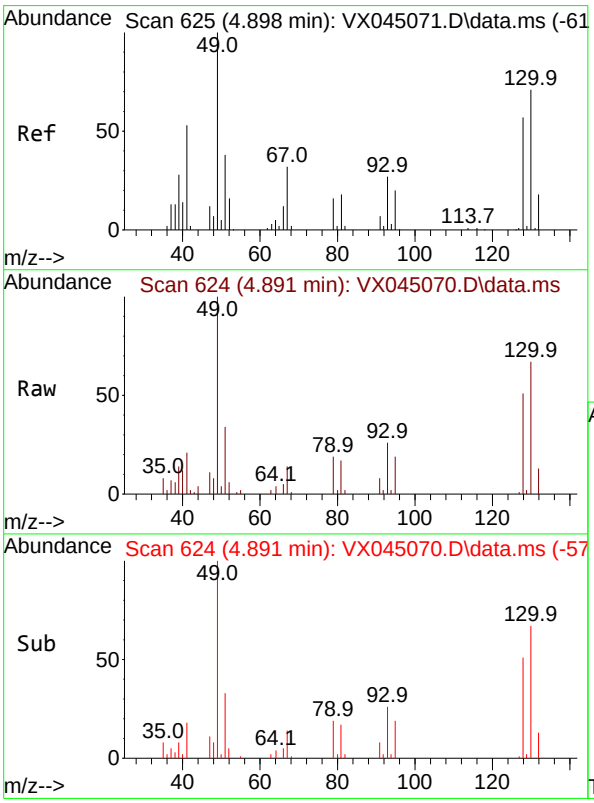
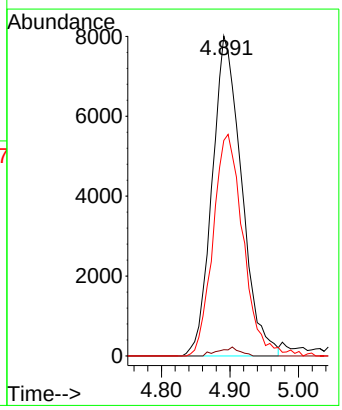


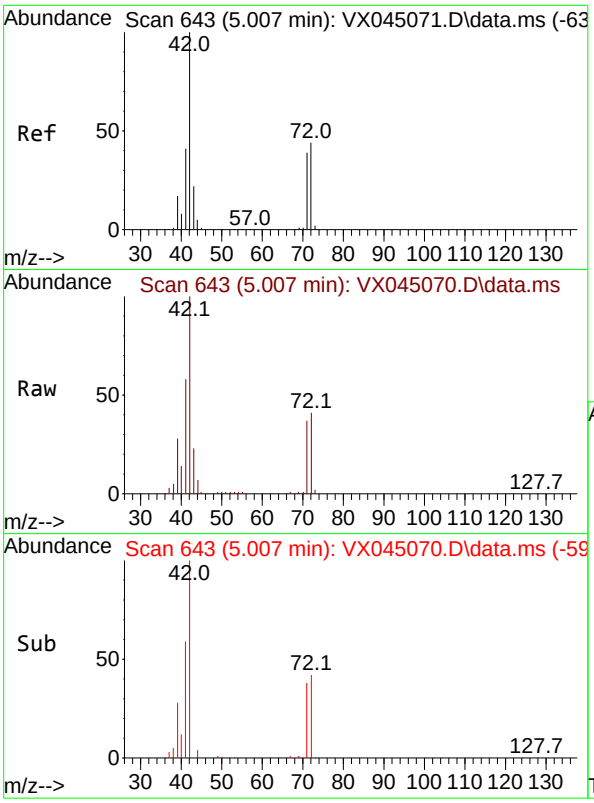


#28
Bromochloromethane
Concen: 20.579 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 49 Resp: 23869

Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	3.4
130	70.6	56.1	84.1





#29
Tetrahydrofuran
Concen: 122.519 ug/l
RT: 5.007 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 42 Resp: 7743

Ion	Ratio	Lower	Upper
42	100		
72	41.0	34.1	51.1
71	39.0	31.4	47.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
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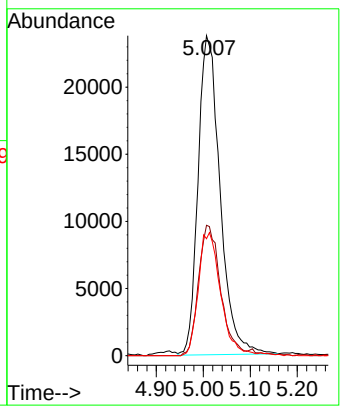
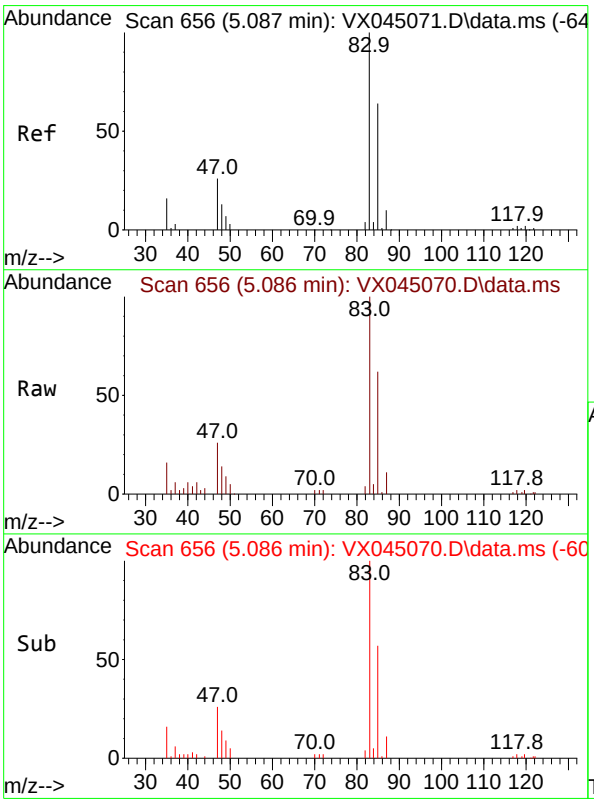
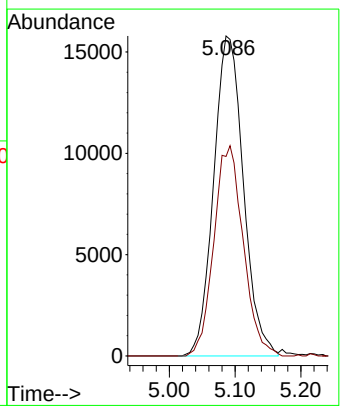


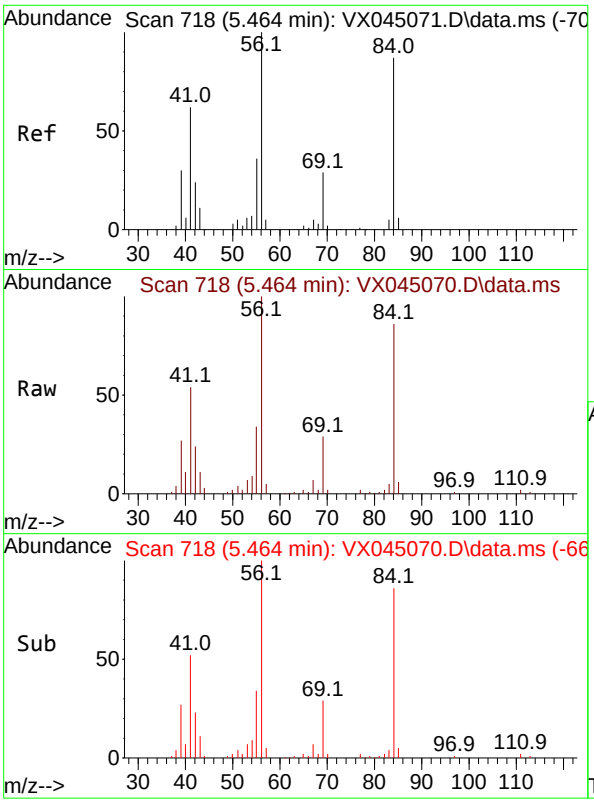


#30
Chloroform
Concen: 21.147 ug/l
RT: 5.086 min Scan# 656
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 83 Resp: 49751

Ion	Ratio	Lower	Upper
83	100		
85	62.3	51.4	77.2





#31
Cyclohexane
Concen: 19.181 ug/l
RT: 5.464 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 56 Resp: 4234

Ion	Ratio	Lower	Upper
56	100		
69	29.0	23.4	35.2
84	84.2	69.4	104.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
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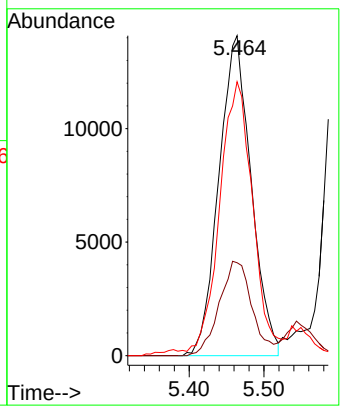
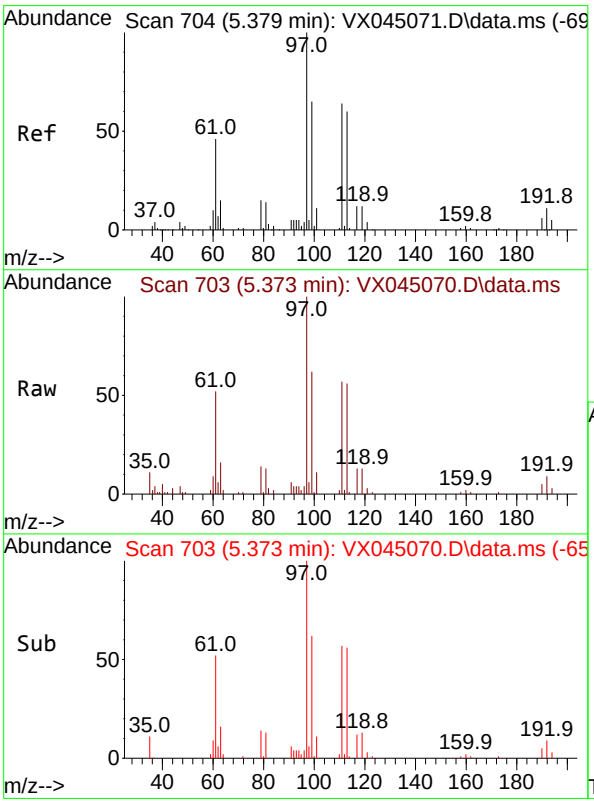
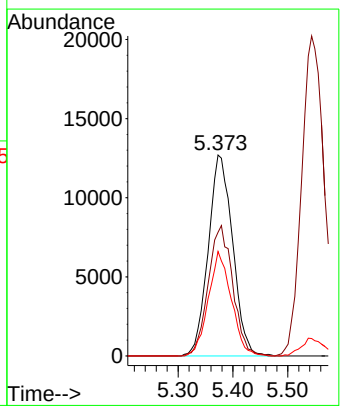


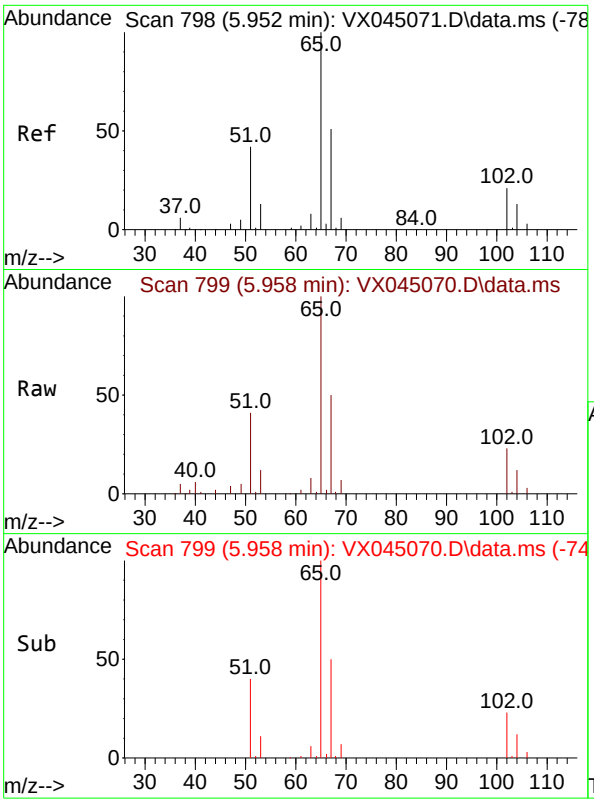


#32
1,1,1-Trichloroethane
Concen: 19.831 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.006 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 97 Resp: 39276

Ion	Ratio	Lower	Upper
97	100		
99	65.2	51.6	77.4
61	48.9	38.4	57.6





#33
1,2-Dichloroethane-d4
Concen: 21.221 ug/l
RT: 5.958 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 65 Resp: 3051

Ion	Ratio	Lower	Upper
65	100		
67	53.2	0.0	106.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
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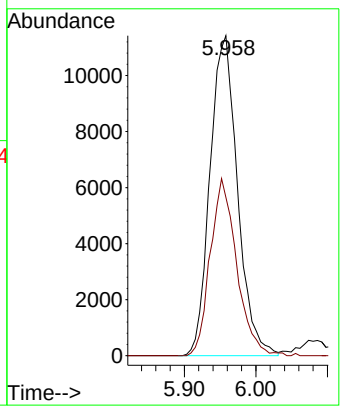
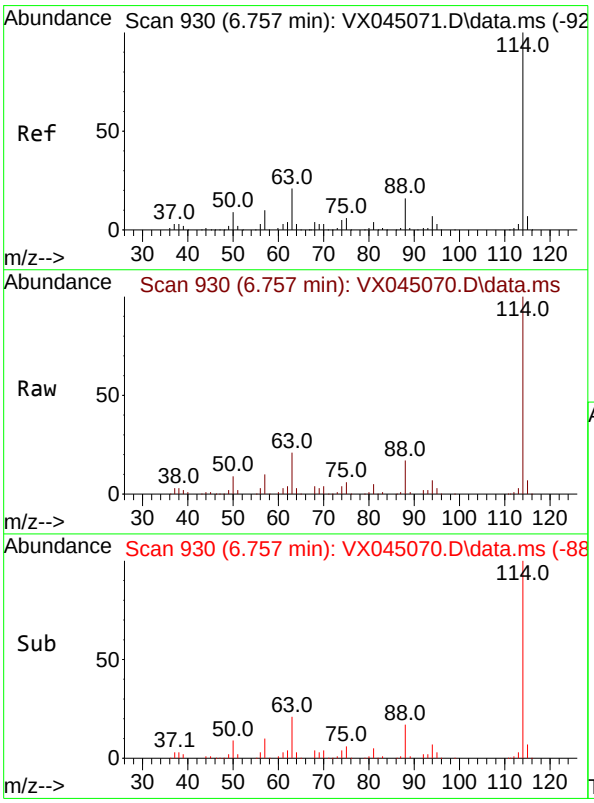
Supervised By :Mahesh Dadoda 02/28/2025

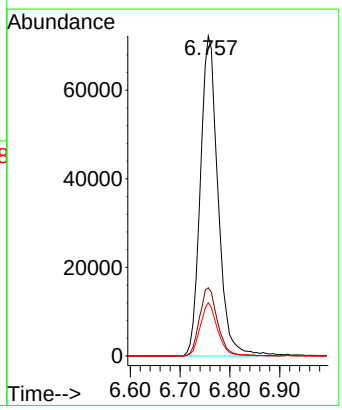


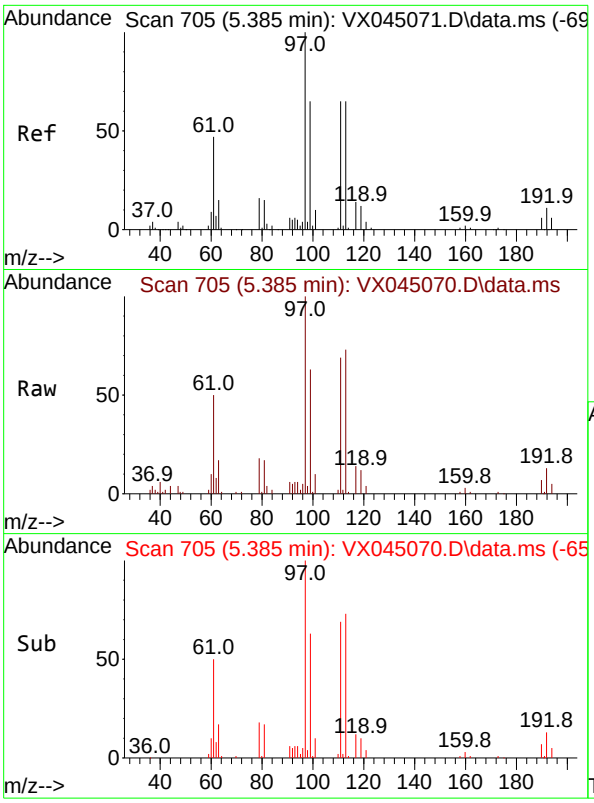


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion:114 Resp: 177403

Ion	Ratio	Lower	Upper
114	100		
63	21.3	0.0	41.8
88	16.6	0.0	32.8





#35
Dibromofluoromethane
Concen: 20.473 ug/l
RT: 5.385 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion:113 Resp: 2373

Ion	Ratio	Lower	Upper
113	100		
111	102.7	81.8	122.6
192	17.2	14.3	21.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
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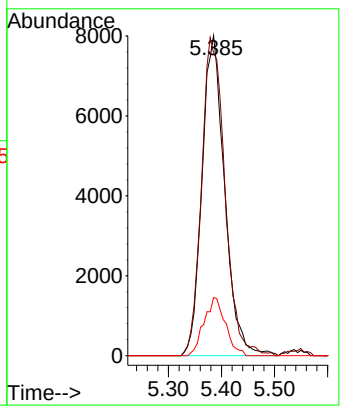
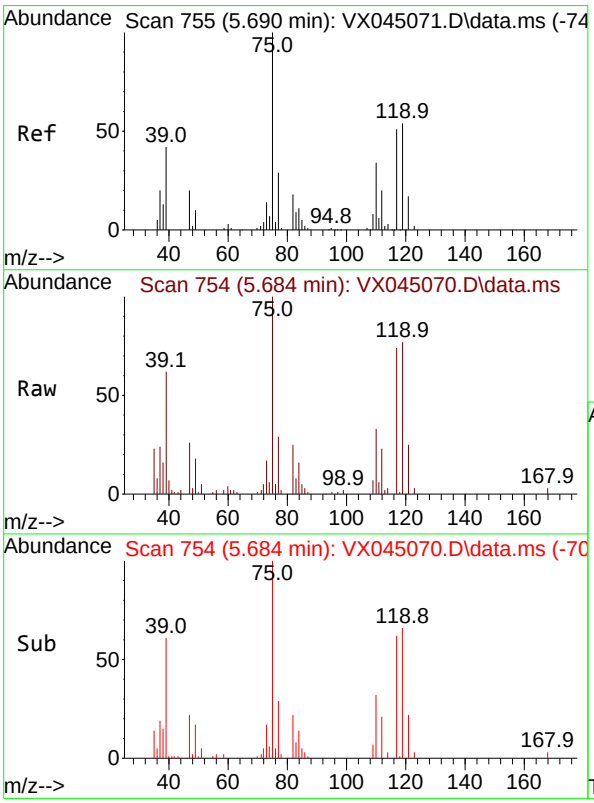
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

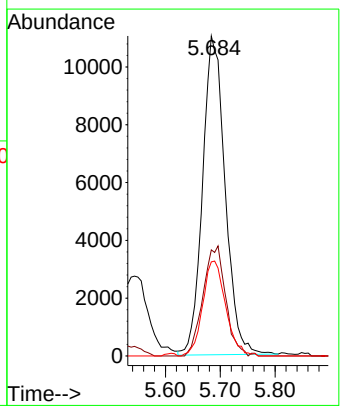


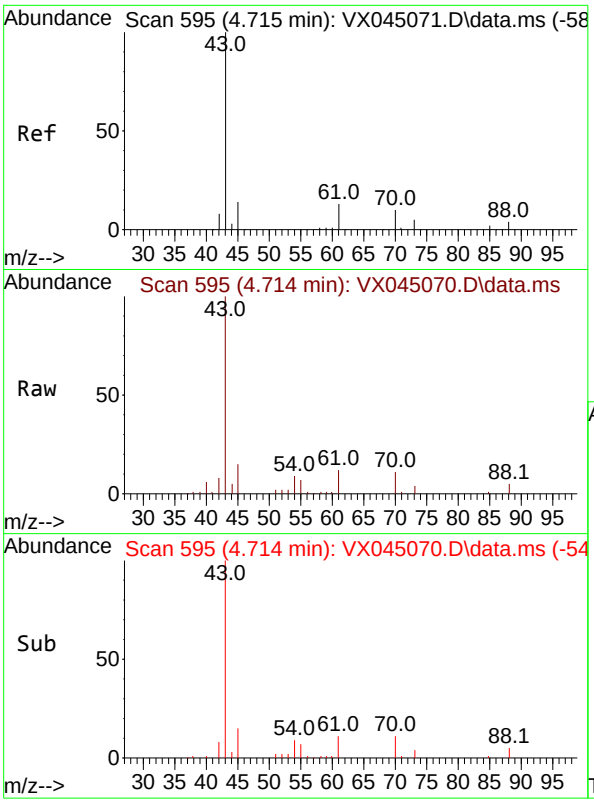


#36
1,1-Dichloropropene
Concen: 18.903 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 75 Resp: 31519

Ion	Ratio	Lower	Upper
75	100		
110	34.4	16.9	50.6
77	30.3	24.5	36.7





#37
Ethyl Acetate
Concen: 22.714 ug/l
RT: 4.714 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 43 Resp: 4309

Ion	Ratio	Lower	Upper
43	100		
61	13.4	10.8	16.2
70	10.1	7.7	11.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
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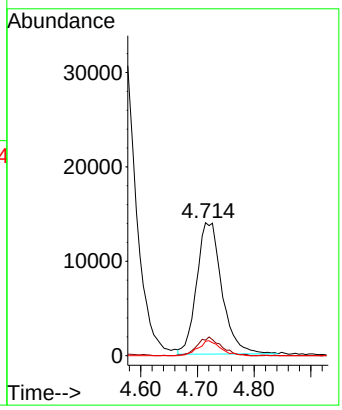
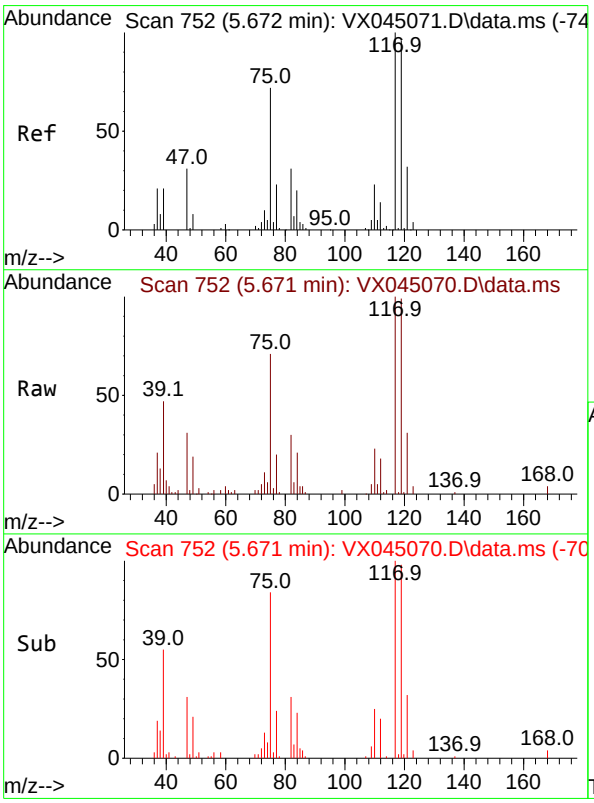
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

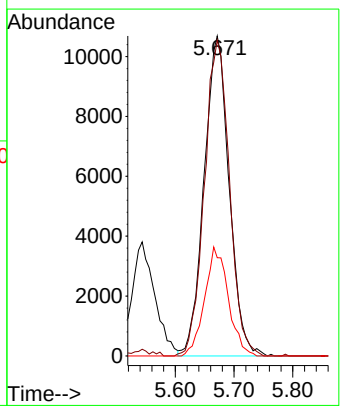


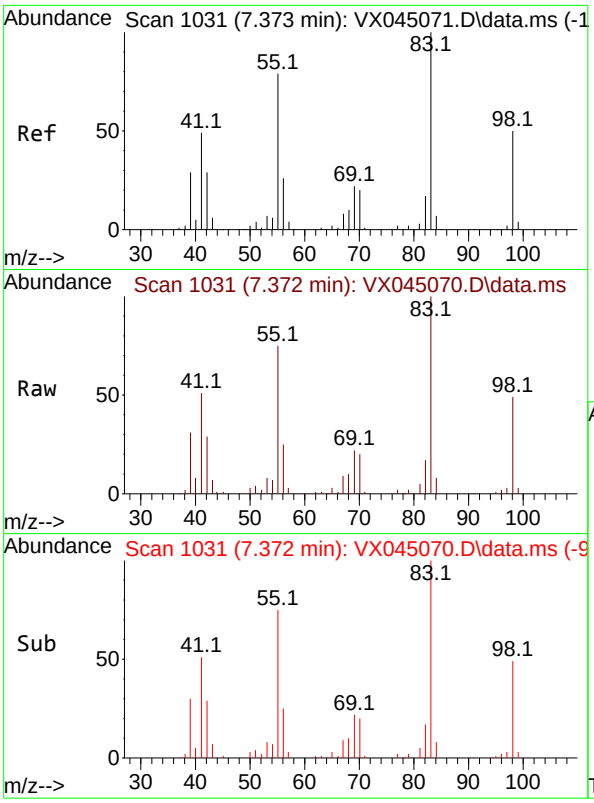


#38
Carbon Tetrachloride
Concen: 19.334 ug/l
RT: 5.671 min Scan# 752
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion:117 Resp: 31694

Ion	Ratio	Lower	Upper
117	100		
119	98.7	76.7	115.1
121	30.7	25.5	38.3





#39
Methylcyclohexane
Concen: 18.676 ug/l
RT: 7.372 min Scan# 1(
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 83 Resp: 3976

Ion	Ratio	Lower	Upper
83	100		
55	74.6	63.0	94.4
98	48.7	39.7	59.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
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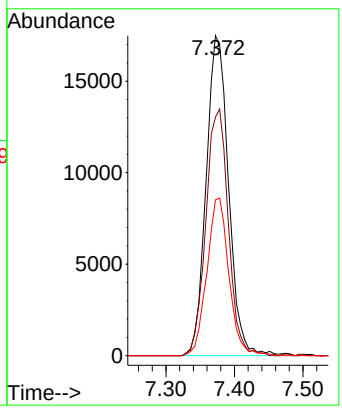
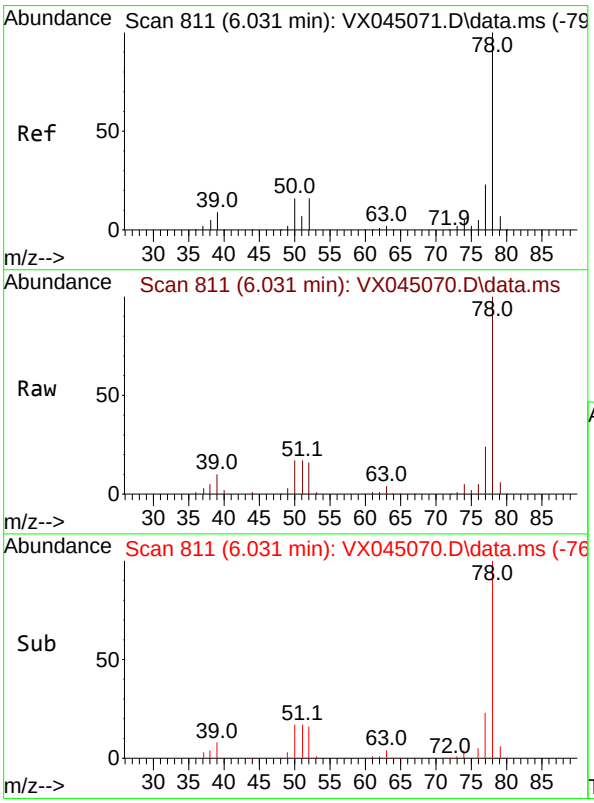
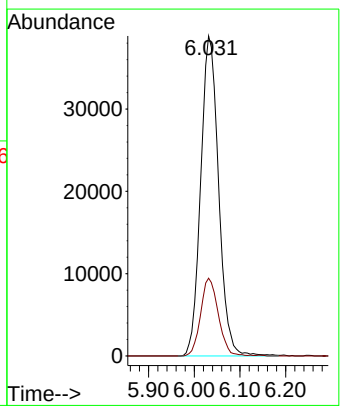


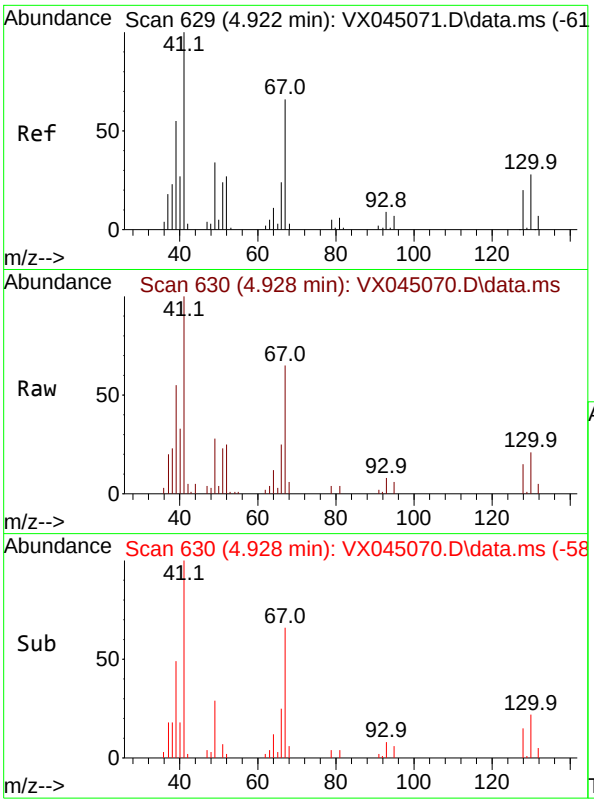


#40
Benzene
Concen: 20.298 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 78 Resp: 105787

Ion	Ratio	Lower	Upper
78	100		
77	24.3	18.8	28.2





#41
Methacrylonitrile
Concen: 23.605 ug/l
RT: 4.928 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 41 Resp: 2392

Ion	Ratio	Lower	Upper
41	100		
39	55.3	44.6	67.0
67	71.6	53.9	80.9
52	30.7	23.3	34.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
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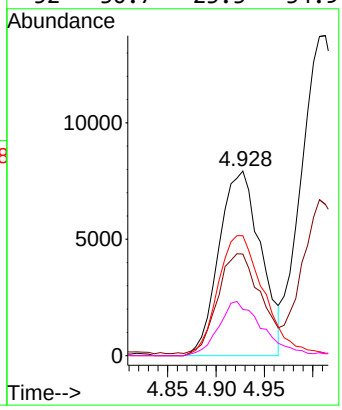
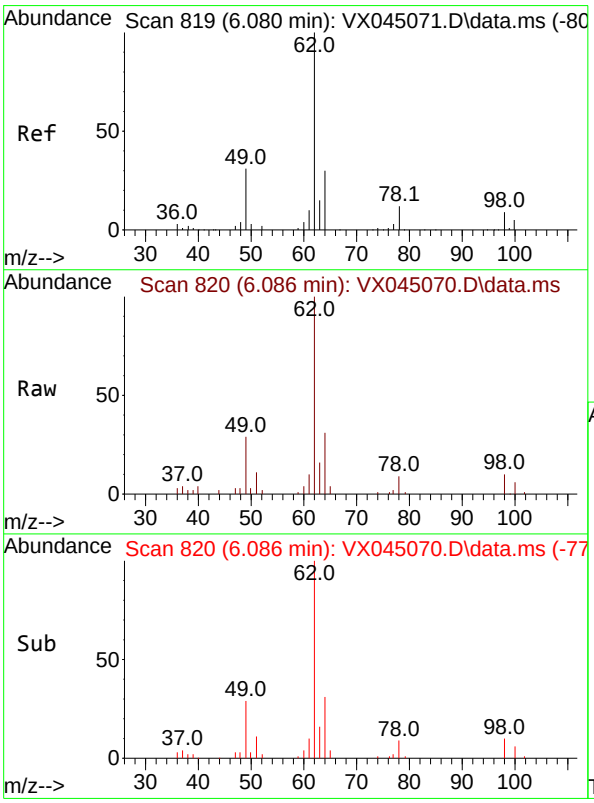
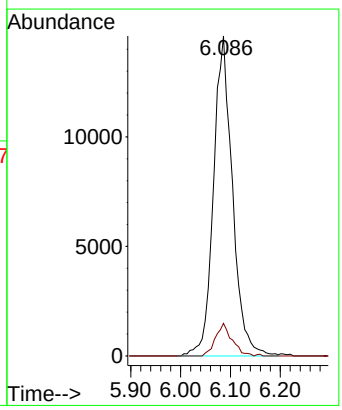


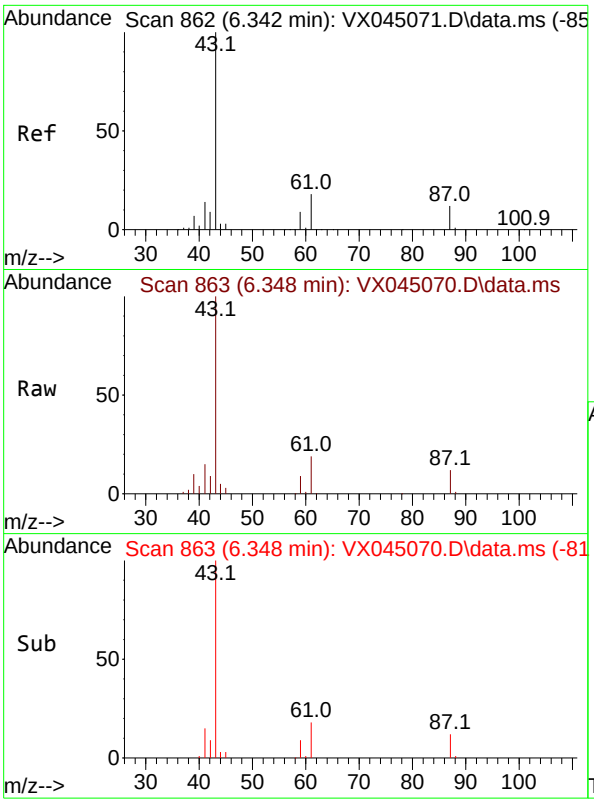


#42
1,2-Dichloroethane
Concen: 22.886 ug/l
RT: 6.086 min Scan# 820
Delta R.T. 0.006 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 62 Resp: 38653

Ion	Ratio	Lower	Upper
62	100		
98	8.8	0.0	18.2





#43
Isopropyl Acetate
Concen: 22.094 ug/l
RT: 6.348 min Scan# 8
Delta R.T. 0.006 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 43 Resp: 6672

Ion	Ratio	Lower	Upper
43	100		
61	17.8	14.9	22.3
87	11.5	9.4	14.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

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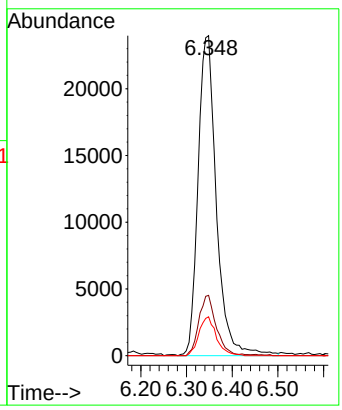
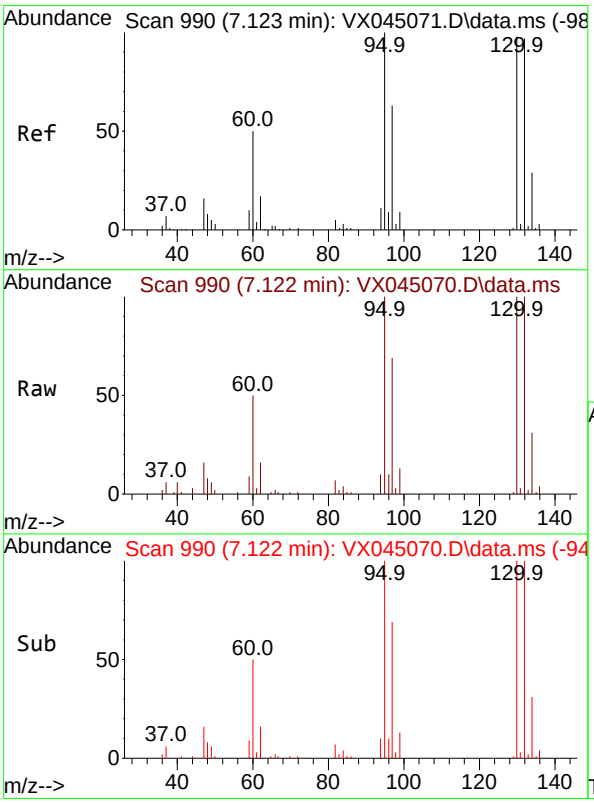
Supervised By :Mahesh Dadoda 02/28/2025

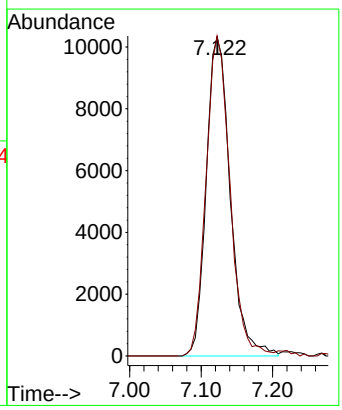


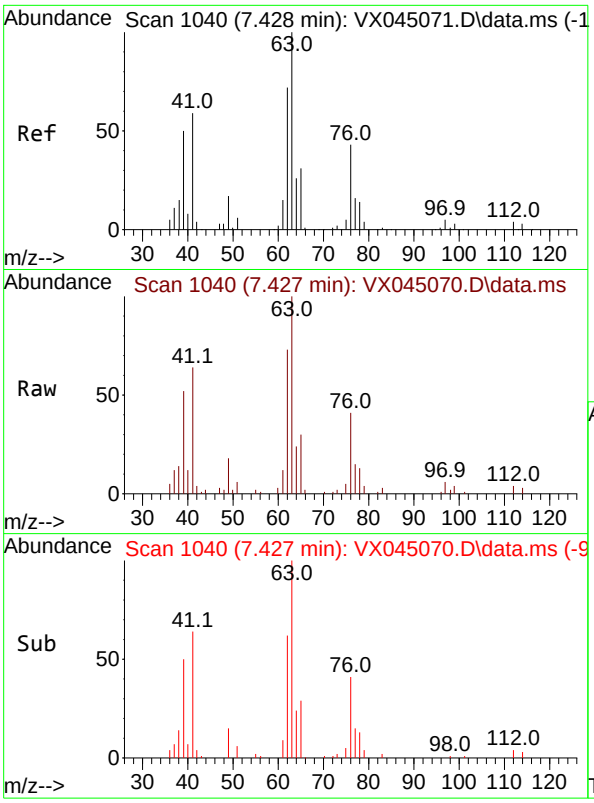


#44
Trichloroethene
Concen: 20.191 ug/l
RT: 7.122 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion:130 Resp: 24052

Ion	Ratio	Lower	Upper
130	100		
95	100.3	0.0	205.0





#45
1,2-Dichloropropane
Concen: 20.945 ug/l
RT: 7.427 min Scan# 1(
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 63 Resp: 2712

Ion	Ratio	Lower	Upper
63	100		
65	30.1	24.7	37.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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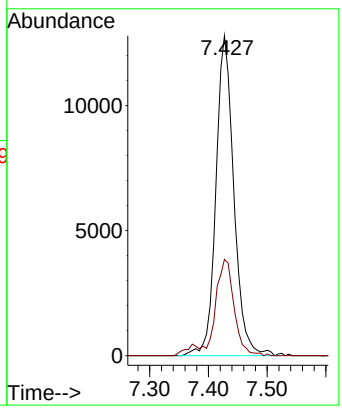
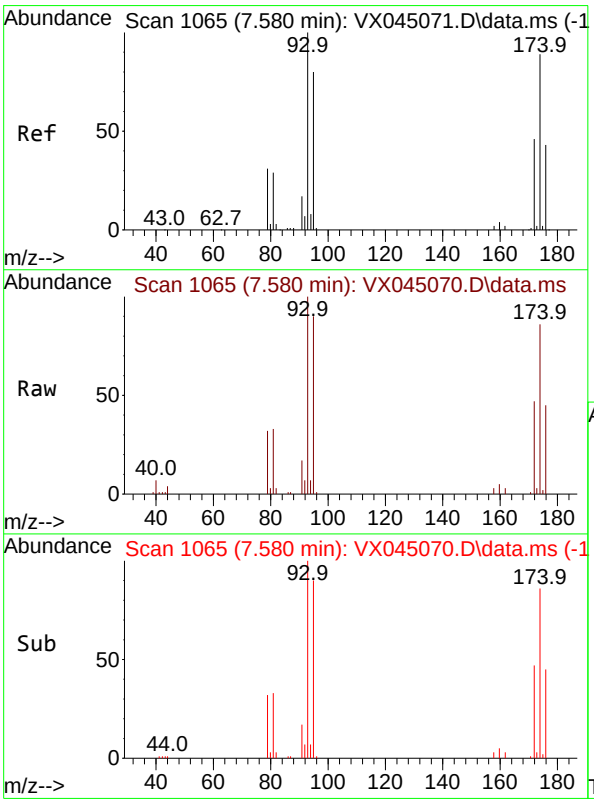
Supervised By :Mahesh Dadoda 02/28/2025

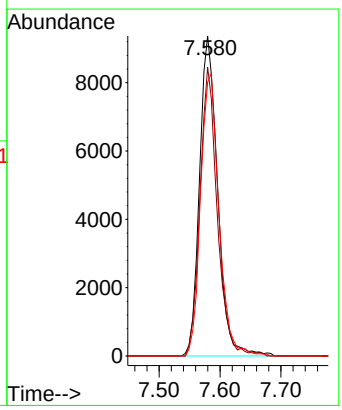


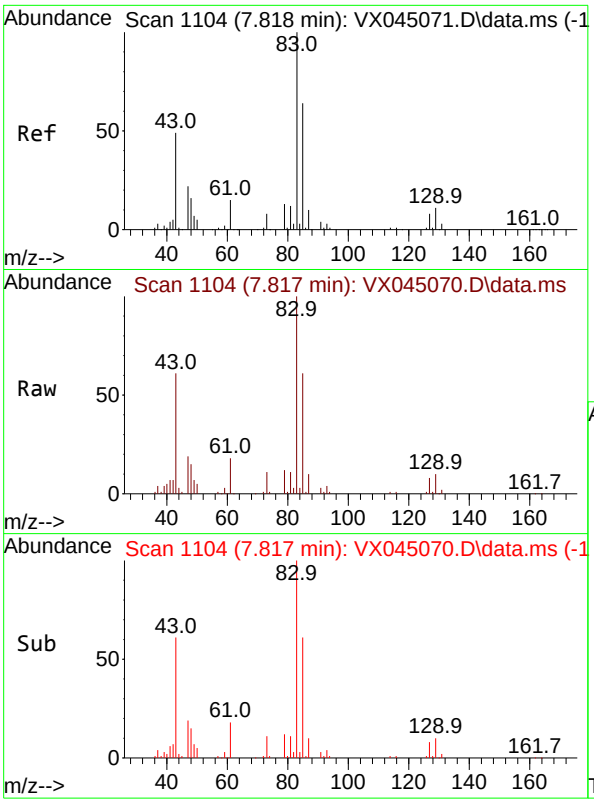


#46
Dibromomethane
Concen: 21.357 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 93 Resp: 19323

Ion	Ratio	Lower	Upper
93	100		
95	86.4	65.8	98.8
174	89.6	72.2	108.2





#47
Bromodichloromethane
Concen: 21.732 ug/l
RT: 7.817 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 83 Resp: 3803

Ion	Ratio	Lower	Upper
83	100		
85	61.3	51.1	76.7
127	7.8	6.4	9.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
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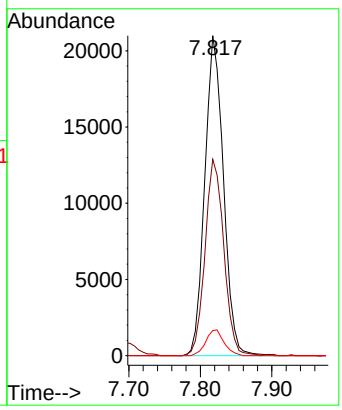
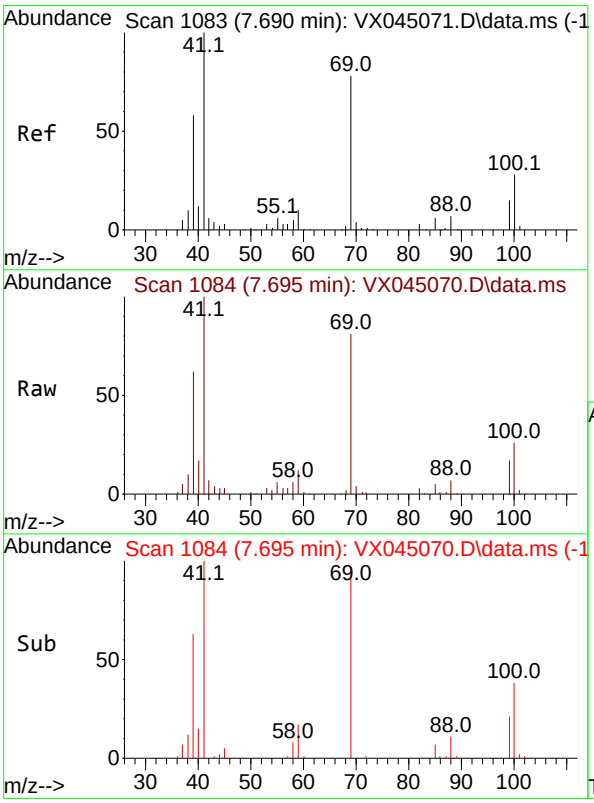
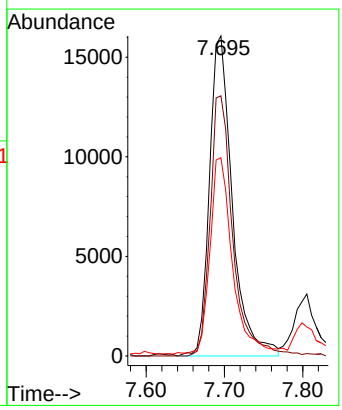


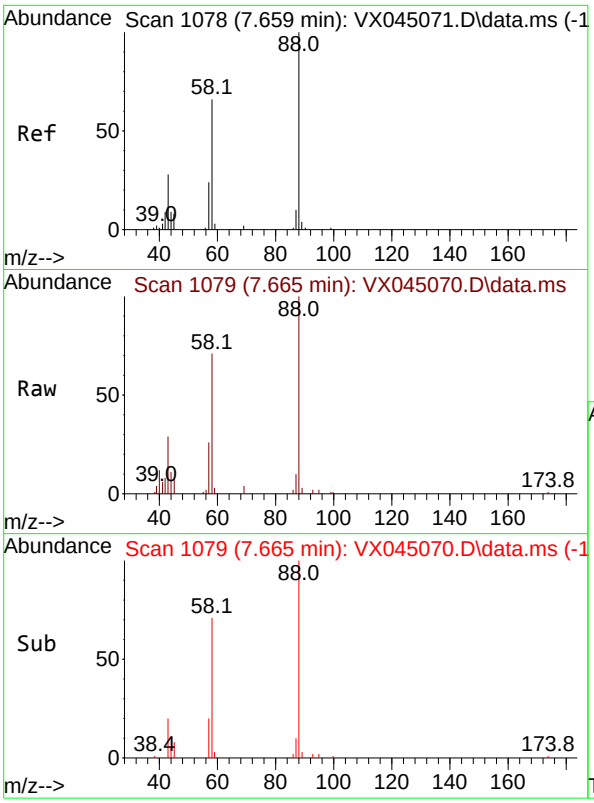


#48
Methyl methacrylate
Concen: 22.757 ug/l
RT: 7.695 min Scan# 1084
Delta R.T. 0.006 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 41 Resp: 32627

Ion	Ratio	Lower	Upper
41	100		
69	81.2	63.0	94.6
39	59.8	47.5	71.3





#49
1,4-Dioxane
Concen: 479.170 ug/l
RT: 7.665 min Scan# 1(
Delta R.T. 0.006 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 88 Resp: 1460

Ion	Ratio	Lower	Upper
88	100		
43	38.7	28.7	43.1
58	68.3	55.8	83.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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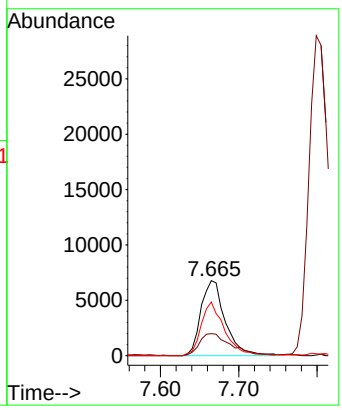
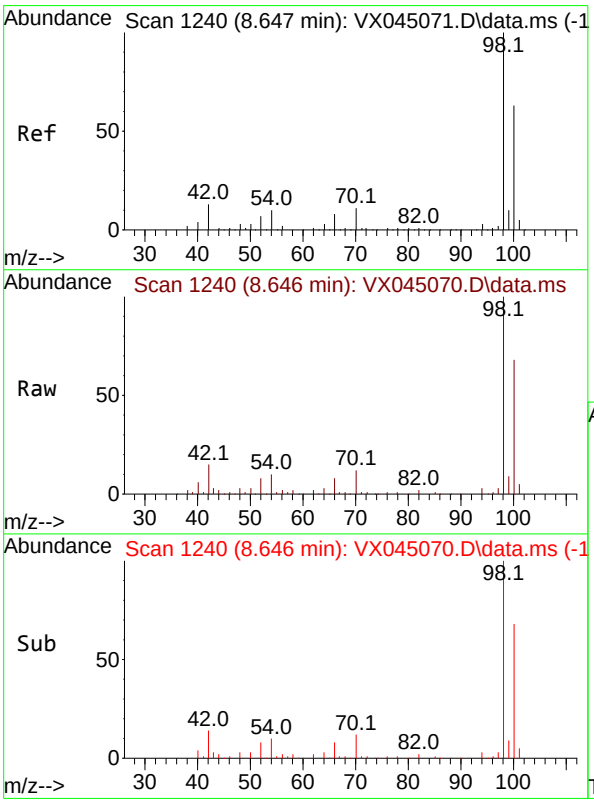
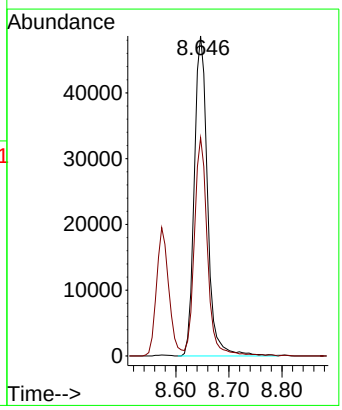


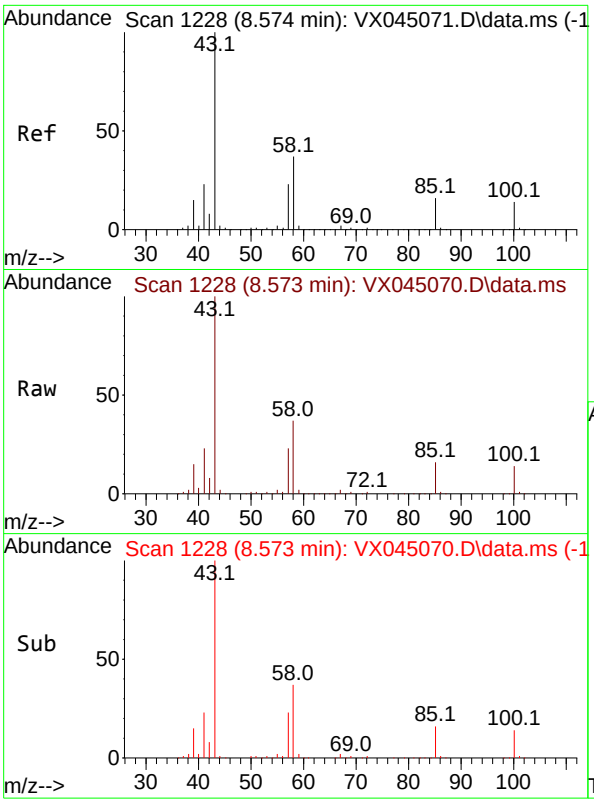


#50
Toluene-d8
Concen: 19.469 ug/l
RT: 8.646 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 98 Resp: 84516

Ion	Ratio	Lower	Upper
98	100		
100	67.2	52.0	78.0





#51
4-Methyl-2-Pentanone
Concen: 124.081 ug/l
RT: 8.573 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 43 Resp: 22961

Ion	Ratio	Lower	Upper
43	100		
58	37.5	29.2	43.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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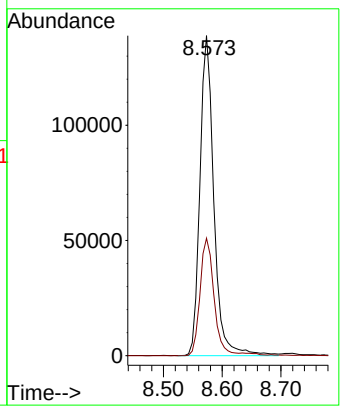
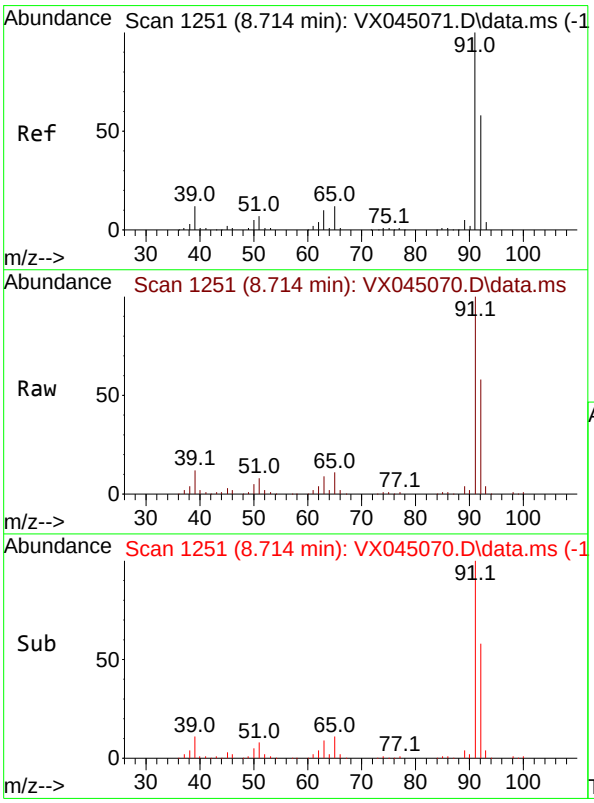
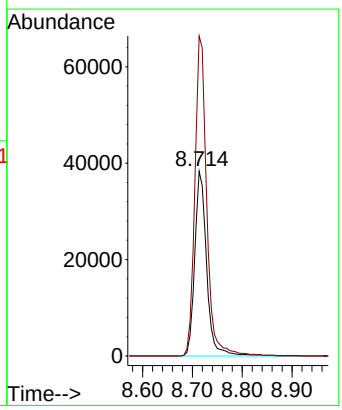


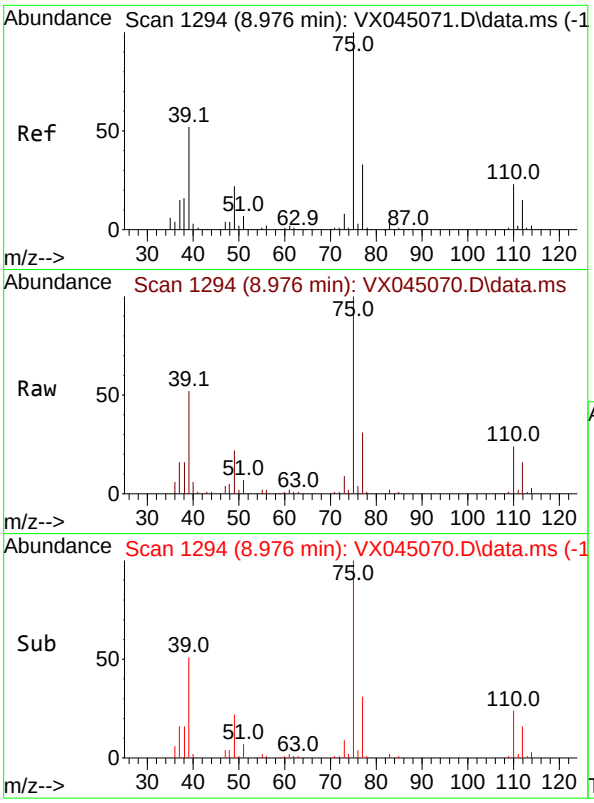


#52
Toluene
Concen: 20.463 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 92 Resp: 63326

Ion	Ratio	Lower	Upper
92	100		
91	173.7	138.9	208.3





#53
t-1,3-Dichloropropene
Concen: 17.871 ug/l
RT: 8.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 75 Resp: 3091

Ion	Ratio	Lower	Upper
75	100		
77	31.5	26.5	39.7

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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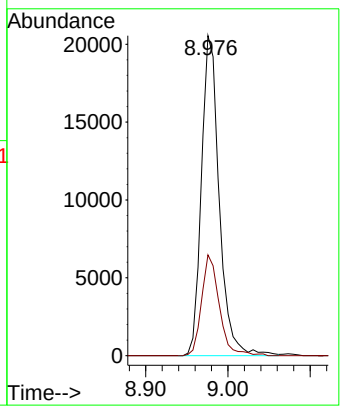
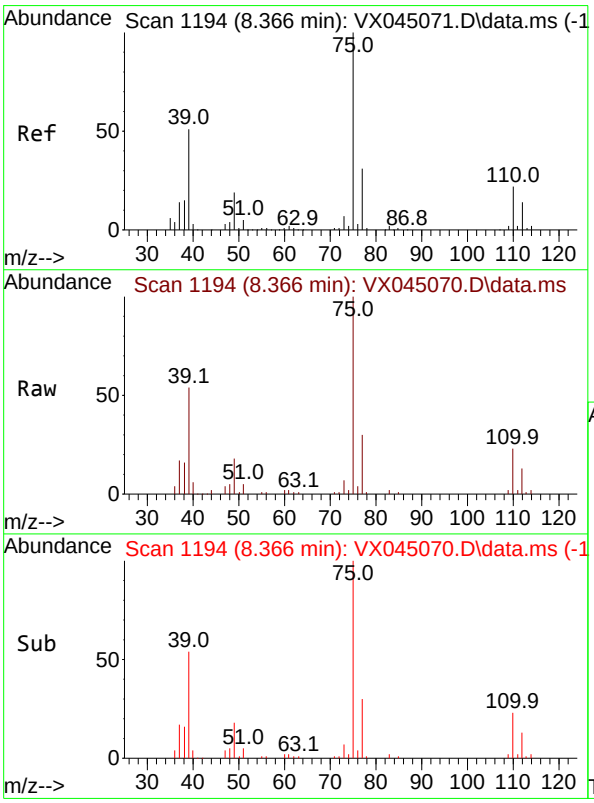
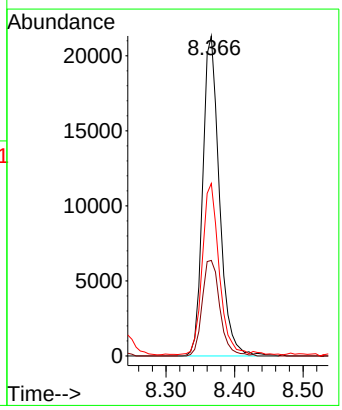


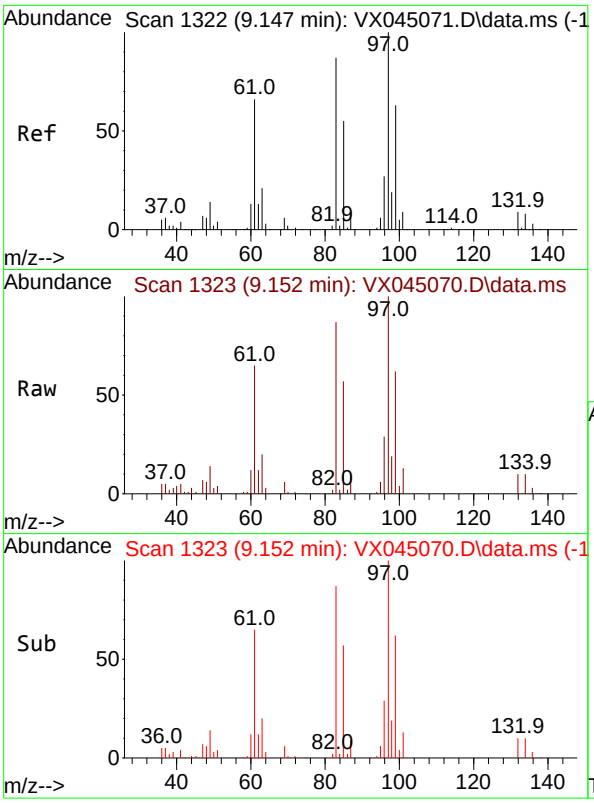


#54
cis-1,3-Dichloropropene
Concen: 18.675 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 75 Resp: 36118

Ion	Ratio	Lower	Upper
75	100		
77	29.9	24.7	37.1
39	53.5	40.7	61.1





#55
1,1,2-Trichloroethane
Concen: 21.992 ug/l
RT: 9.152 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 97 Resp: 2635

Ion	Ratio	Lower	Upper
97	100		
83	86.7	69.4	104.2
85	57.3	44.1	66.1
99	62.1	50.7	76.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
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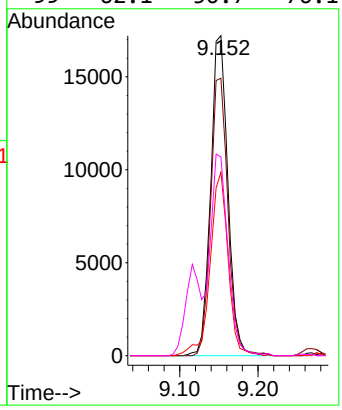
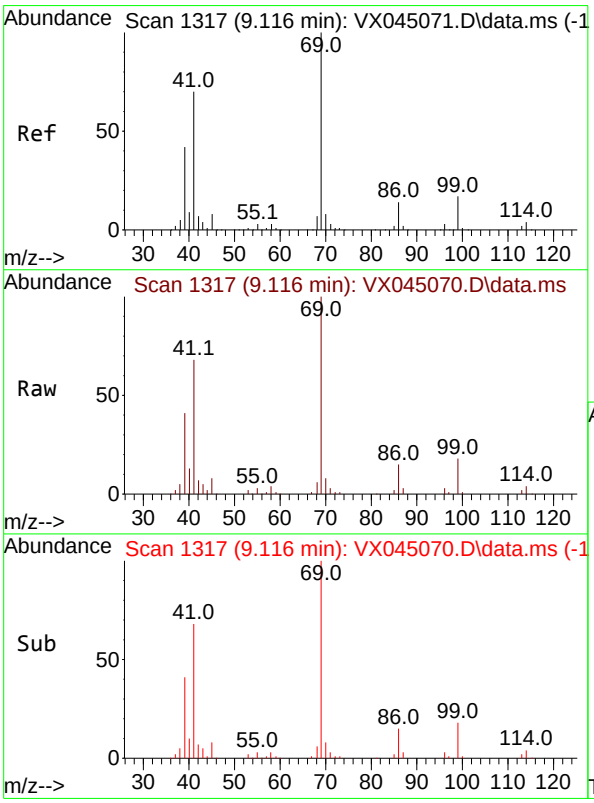
Supervised By :Mahesh Dadoda 02/28/2025

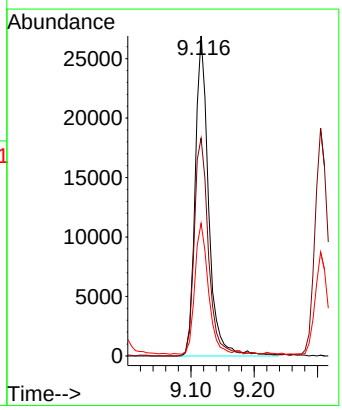


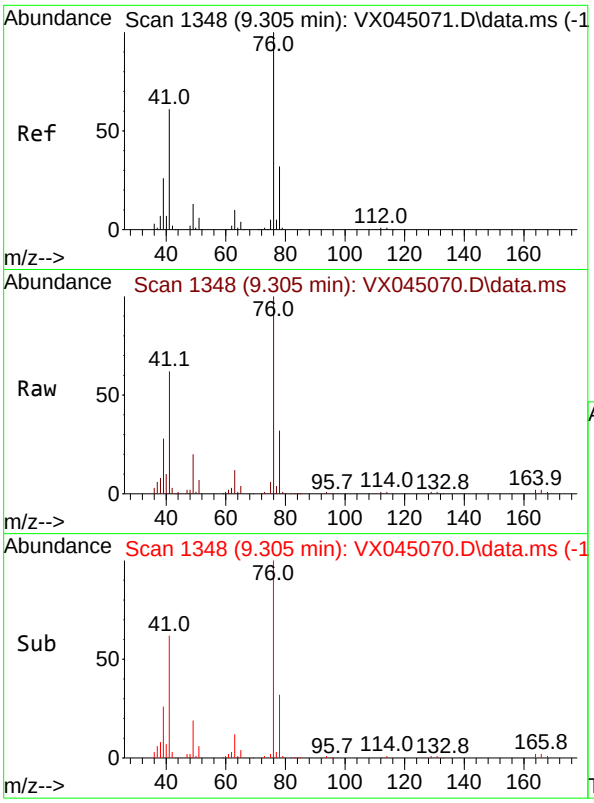


#56
Ethyl methacrylate
Concen: 20.791 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 69 Resp: 39850

Ion	Ratio	Lower	Upper
69	100		
41	73.6	57.0	85.4
39	40.6	34.2	51.4





#57
1,3-Dichloropropane
Concen: 21.836 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 76 Resp: 4564

Ion	Ratio	Lower	Upper
76	100		
78	31.9	25.5	38.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
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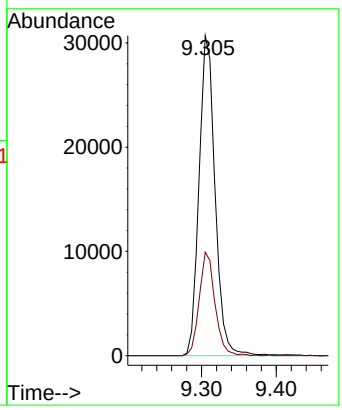
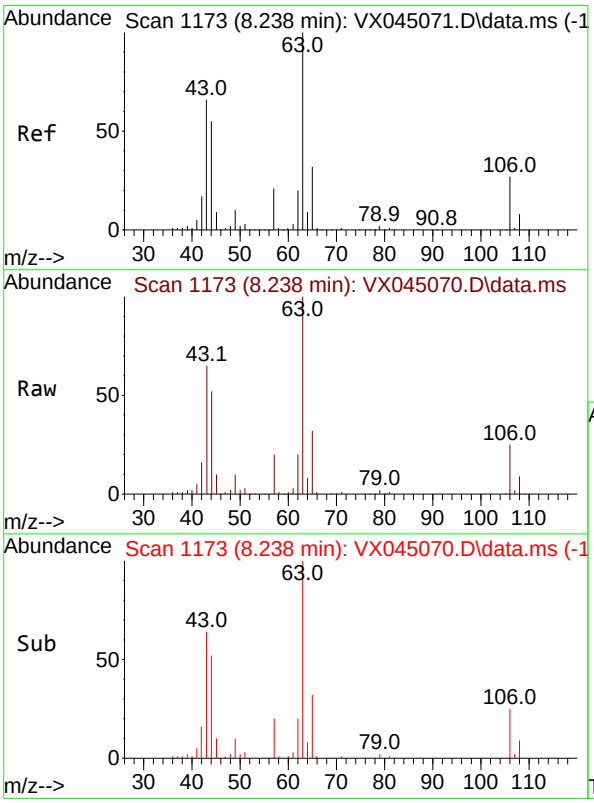
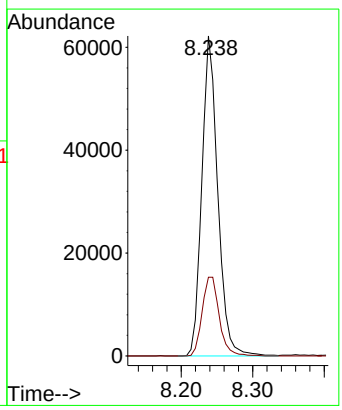


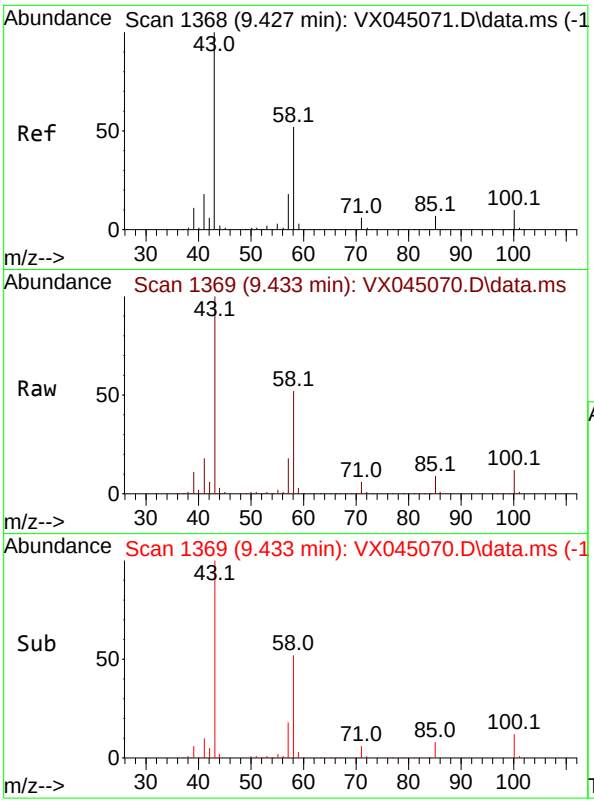


#58
2-Chloroethyl Vinyl ether
Concen: 102.342 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 63 Resp: 96311

Ion	Ratio	Lower	Upper
63	100		
106	26.4	21.5	32.3





#59
2-Hexanone
Concen: 126.428 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 43 Resp: 16876

Ion	Ratio	Lower	Upper
43	100		
58	51.6	25.9	77.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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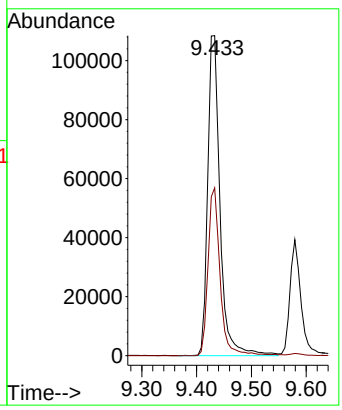
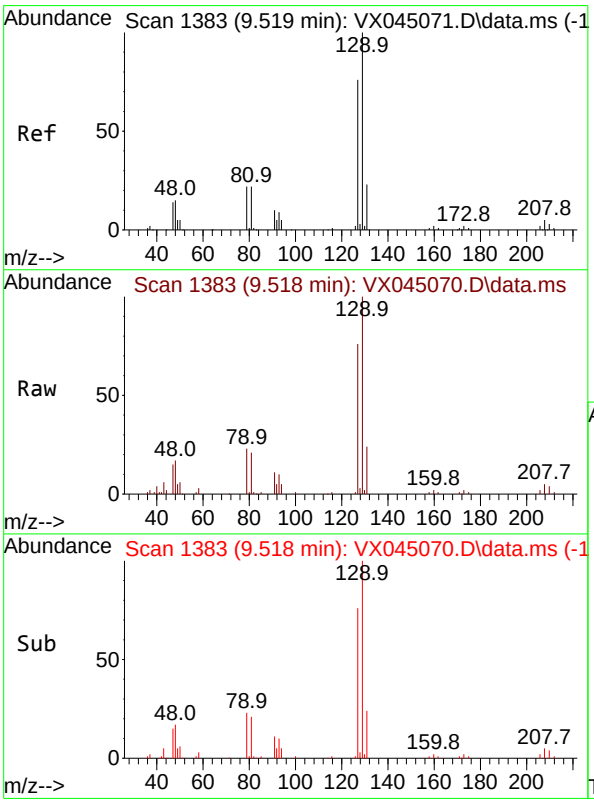
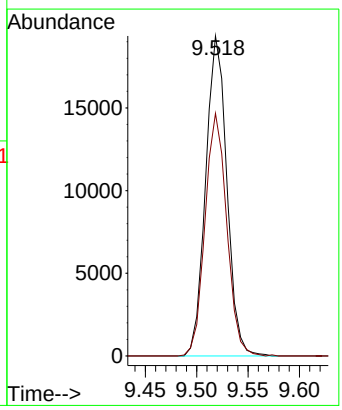


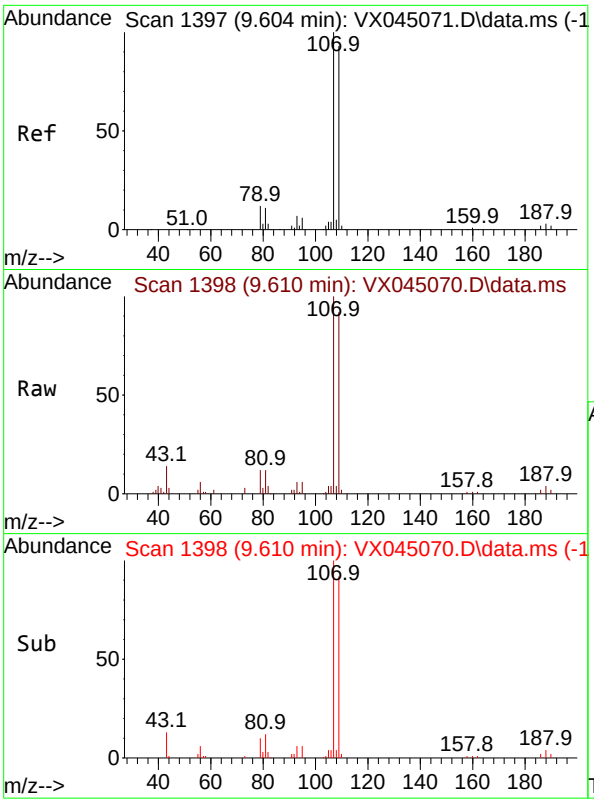


#60
Dibromochloromethane
Concen: 21.668 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion:129 Resp: 27705

Ion	Ratio	Lower	Upper
129	100		
127	77.8	38.5	115.5





#61
1,2-Dibromoethane
Concen: 21.764 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion:107 Resp: 2631

Ion	Ratio	Lower	Upper
107	100		
109	93.3	76.1	114.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
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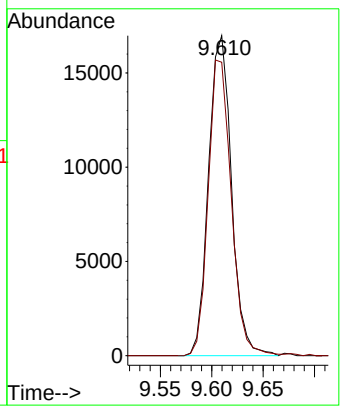
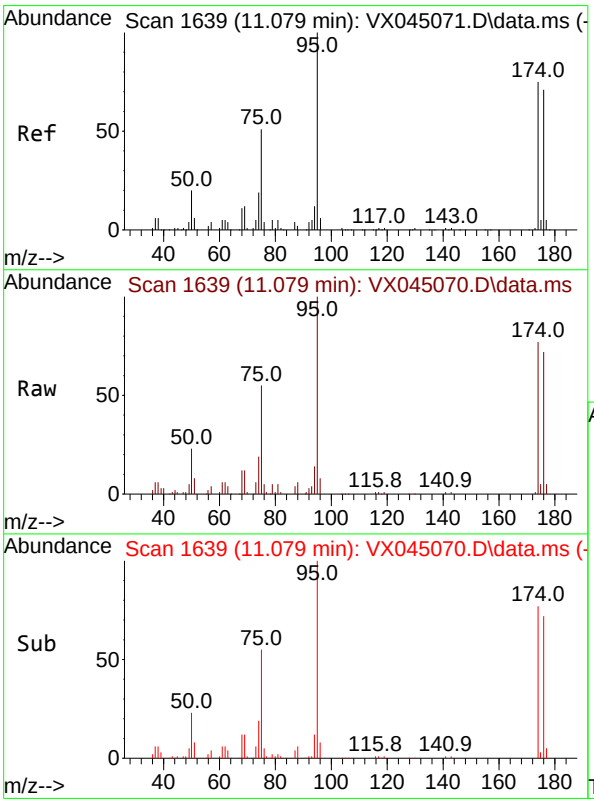
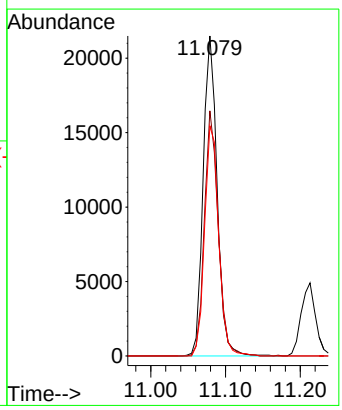


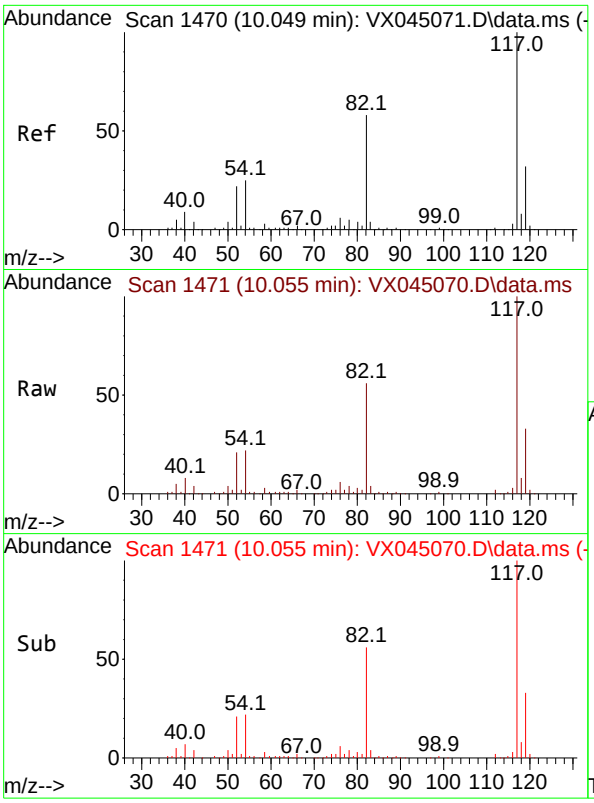


#62
4-Bromofluorobenzene
Concen: 19.215 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 95 Resp: 27856

Ion	Ratio	Lower	Upper
95	100		
174	76.1	0.0	148.2
176	72.8	0.0	141.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

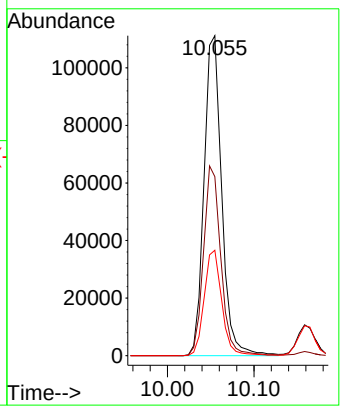
Tgt Ion:117 Resp: 15771

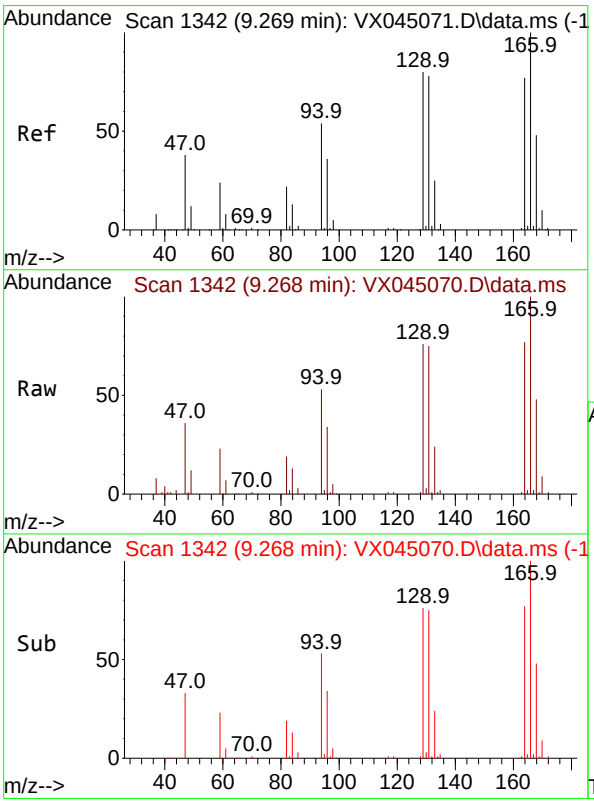
Ion	Ratio	Lower	Upper
117	100		
82	55.9	46.3	69.5
119	33.0	25.7	38.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

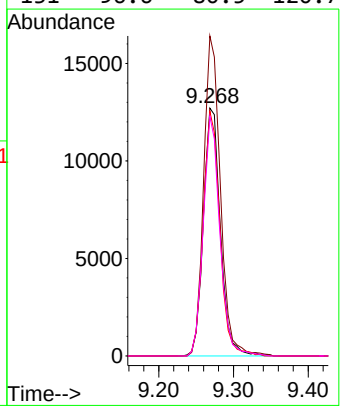


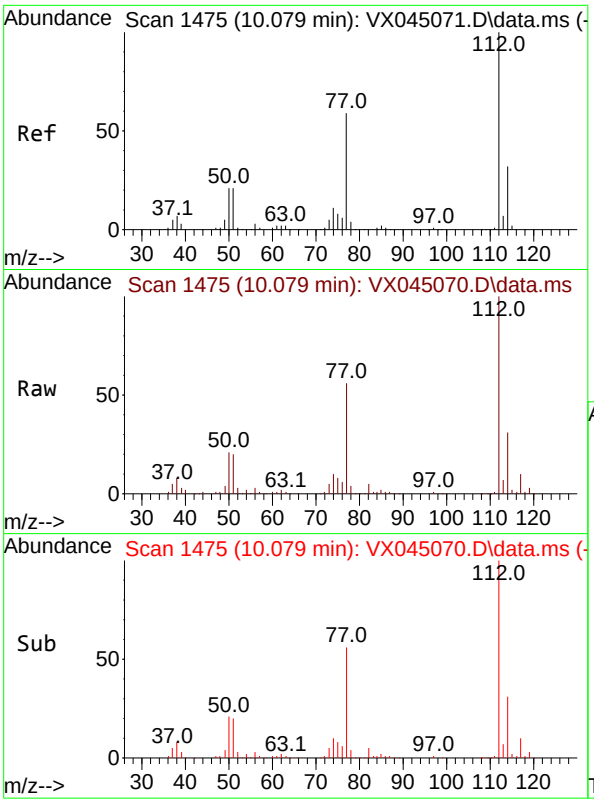


#64
Tetrachloroethene
Concen: 20.102 ug/l
RT: 9.268 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion:164 Resp: 20140

Ion	Ratio	Lower	Upper
164	100		
166	129.1	103.6	155.4
129	98.7	82.7	124.1
131	96.6	80.5	120.7





#65
Chlorobenzene
Concen: 20.316 ug/l
RT: 10.079 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion:112 Resp: 6877

Ion	Ratio	Lower	Upper
112	100		
114	31.3	26.0	39.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
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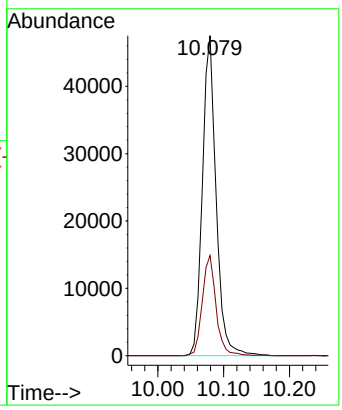
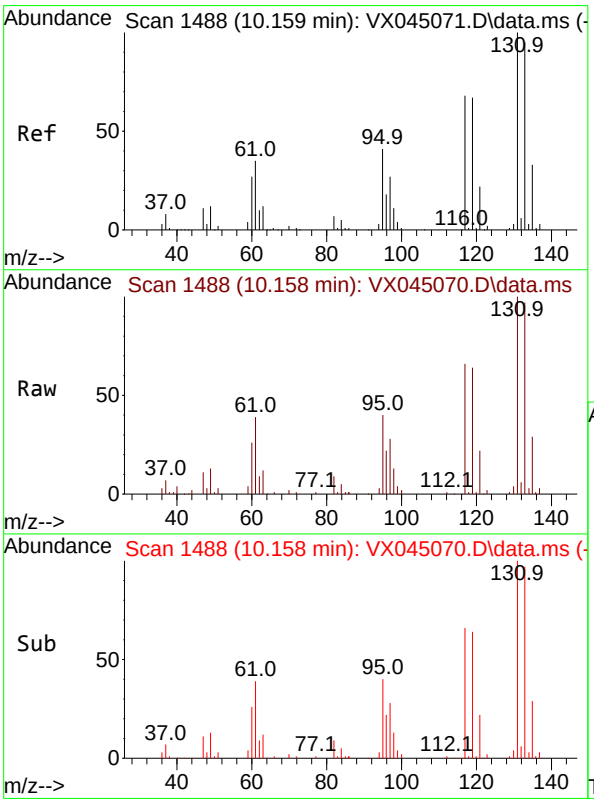
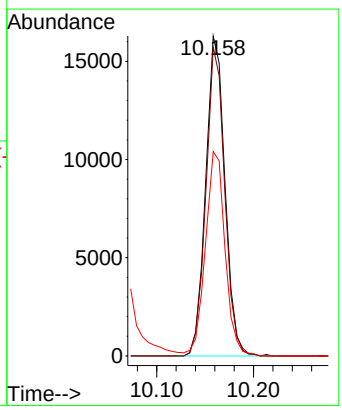


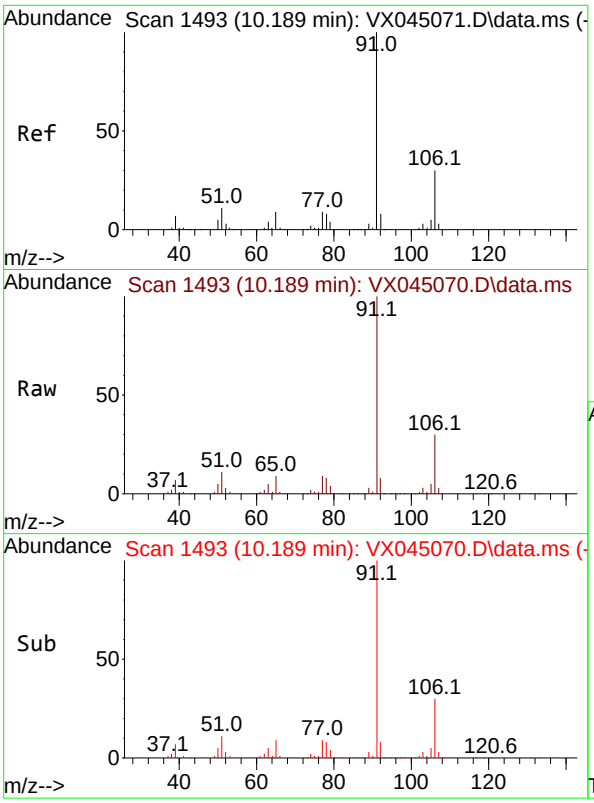


#66
1,1,1,2-Tetrachloroethane
Concen: 20.627 ug/l
RT: 10.158 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion:131 Resp: 22508

Ion	Ratio	Lower	Upper
131	100		
133	94.6	48.6	145.9
119	65.4	33.9	101.7





#67
Ethyl Benzene
Concen: 19.905 ug/l
RT: 10.189 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 91 Resp: 11916

Ion	Ratio	Lower	Upper
91	100		
106	29.9	23.9	35.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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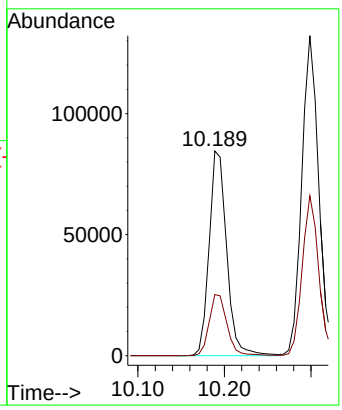
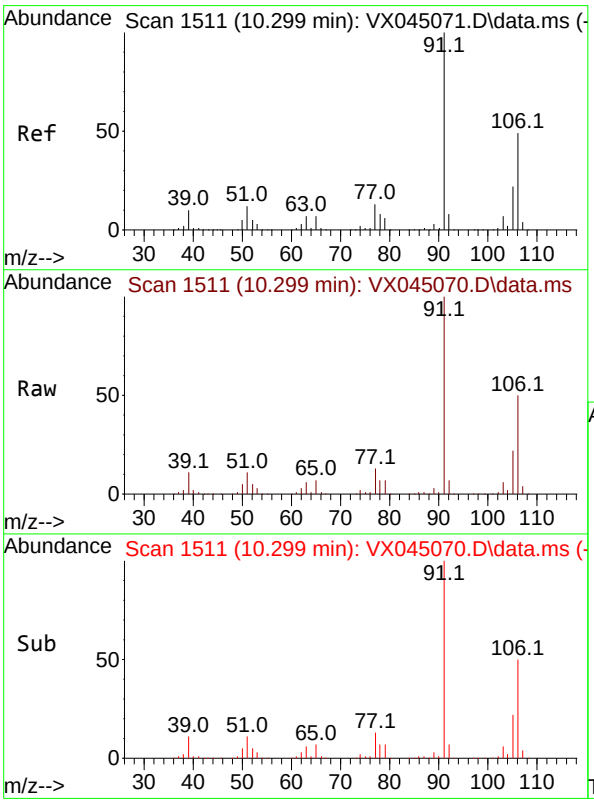
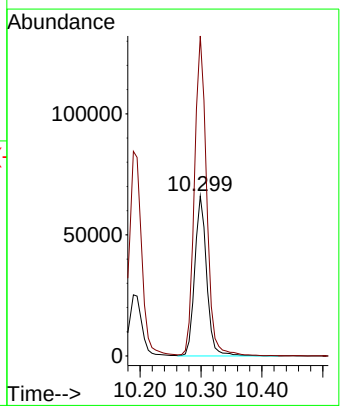


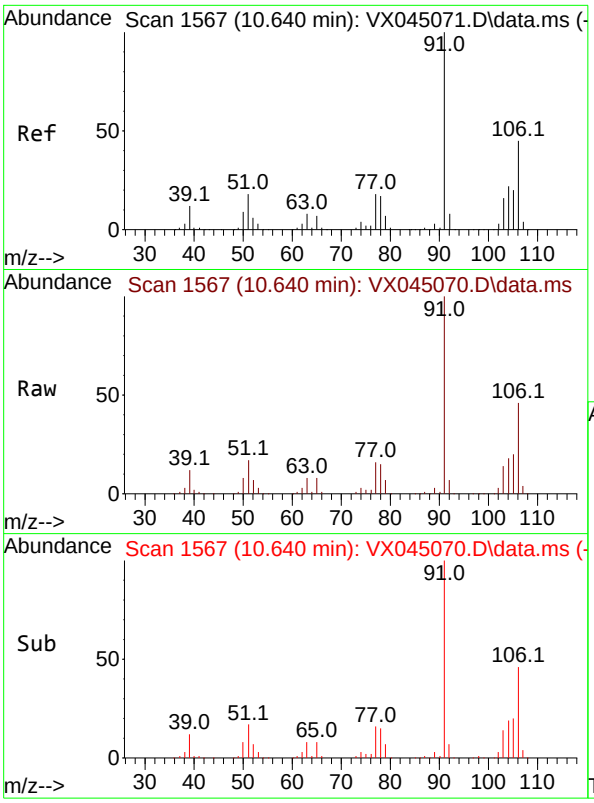


#68
m/p-Xylenes
Concen: 40.699 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion:106 Resp: 89735

Ion	Ratio	Lower	Upper
106	100		
91	204.2	165.4	248.0





#69
o-Xylene
Concen: 20.018 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion:106 Resp: 4428

Ion	Ratio	Lower	Upper
106	100		
91	216.8	109.9	329.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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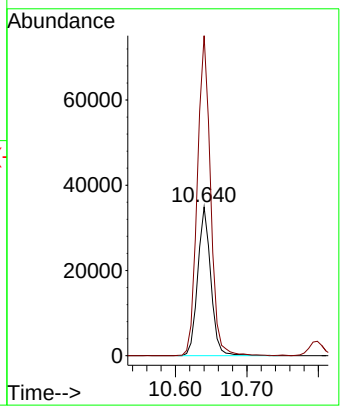
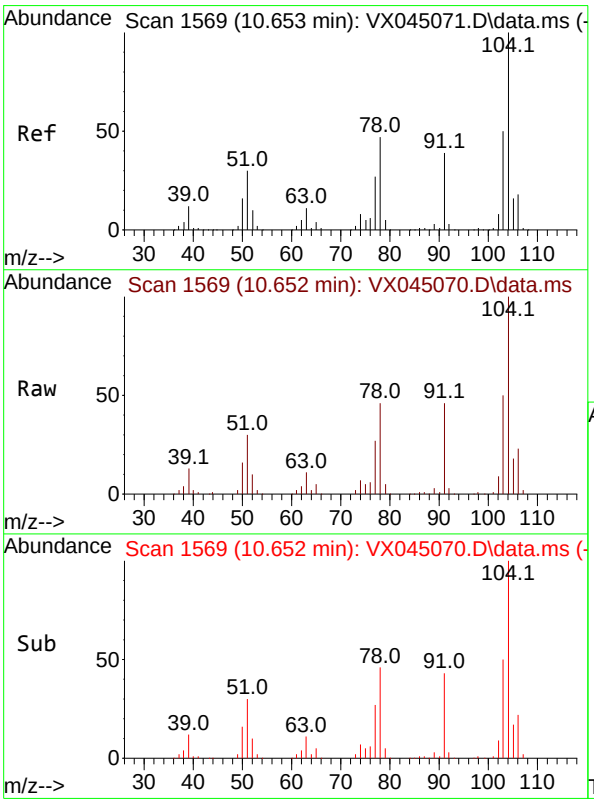
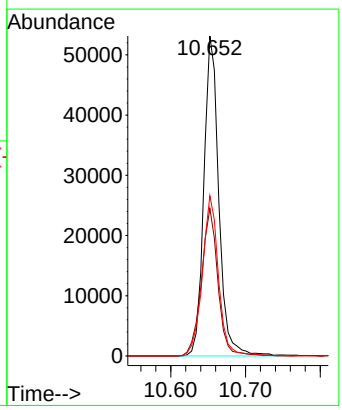


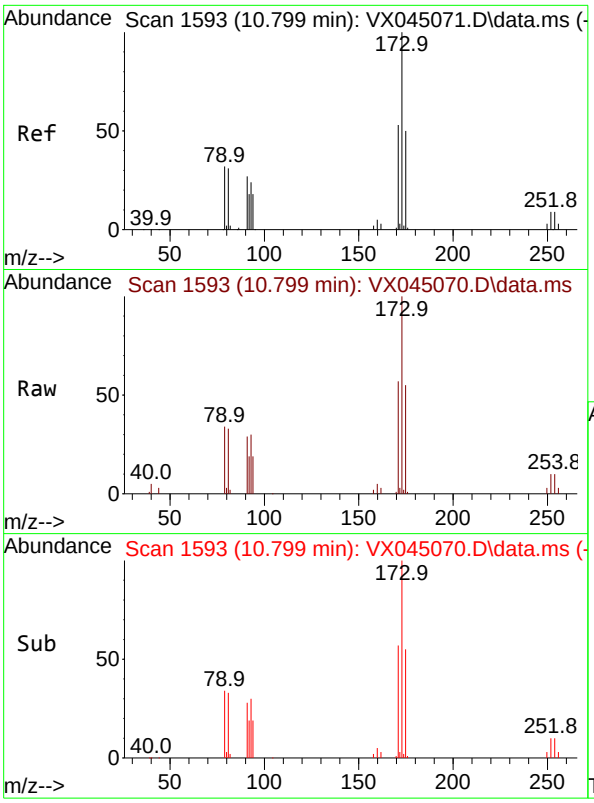


#70
Styrene
Concen: 20.767 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion:104 Resp: 73832

Ion	Ratio	Lower	Upper
104	100		
78	50.9	42.2	63.4
103	54.1	43.8	65.8





#71
Bromoform
Concen: 21.449 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion:173 Resp: 1740

Ion	Ratio	Lower	Upper
173	100		
175	49.7	24.6	73.6
254	0.0	0.0	0.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
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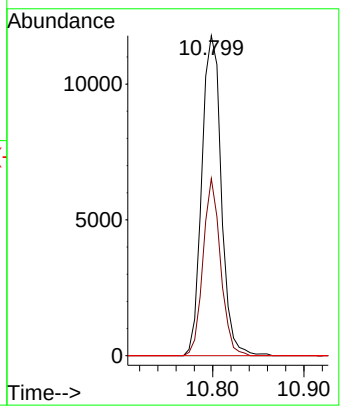
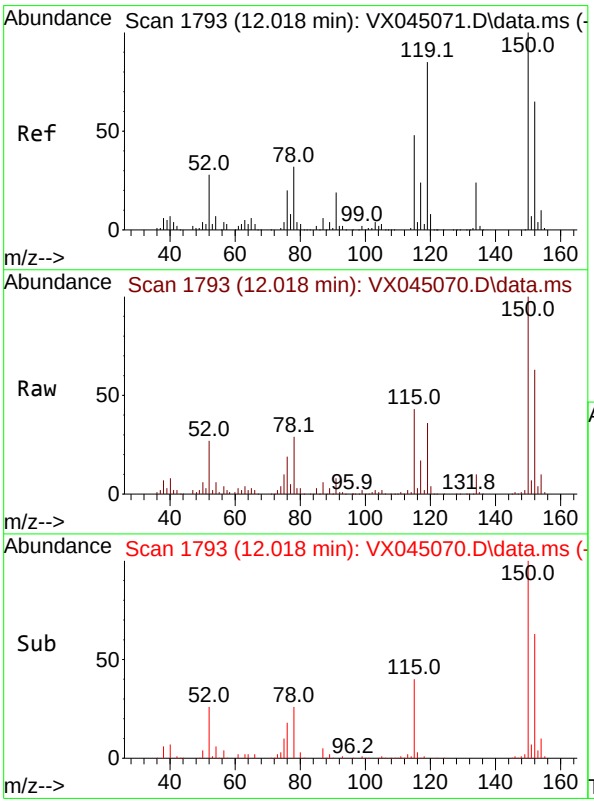
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

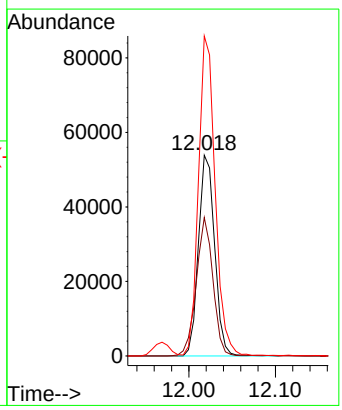


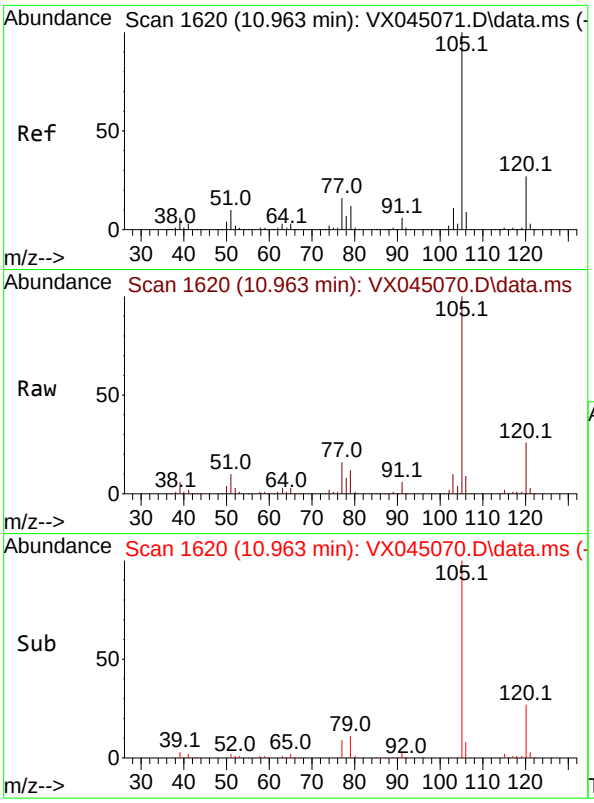


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion:152 Resp: 70072

Ion	Ratio	Lower	Upper
152	100		
115	70.9	44.2	132.6
150	163.4	0.0	349.0





#73
Isopropylbenzene
Concen: 19.794 ug/l
RT: 10.963 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion:105 Resp: 11209

Ion	Ratio	Lower	Upper
105	100		
120	26.7	13.2	39.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
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Reviewed By :John Carlone 02/28/2025
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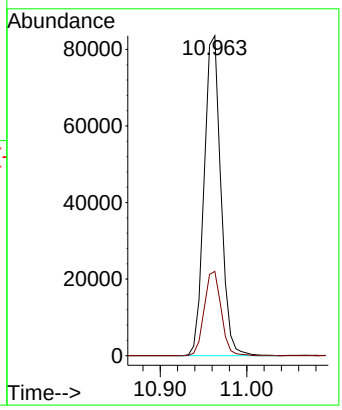
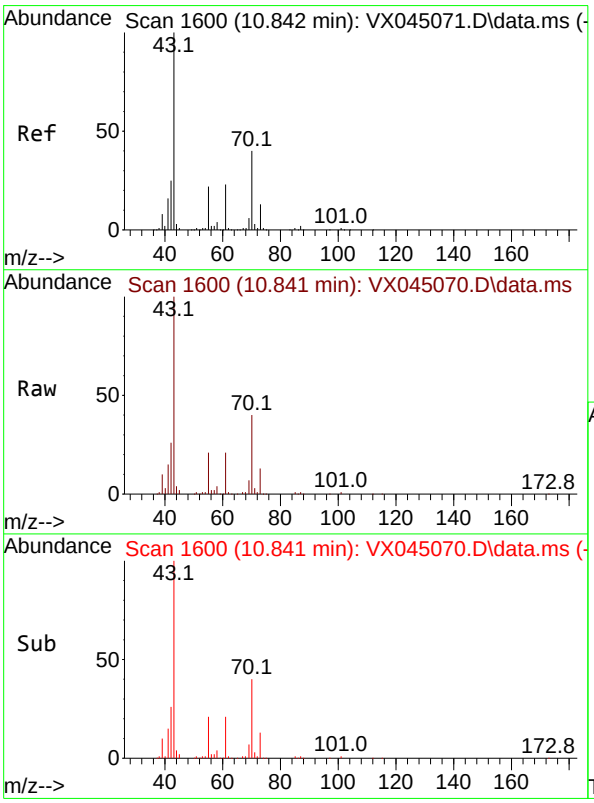
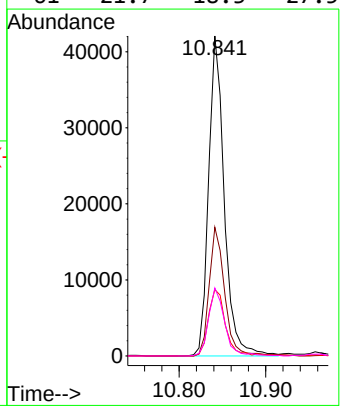


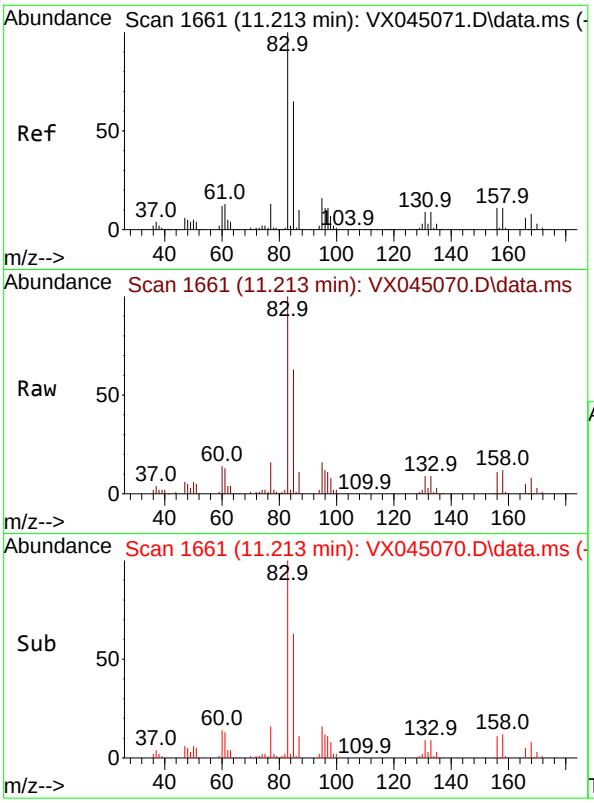


#74
N-amyl acetate
Concen: 20.606 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 43 Resp: 52972

Ion	Ratio	Lower	Upper
43	100		
70	40.0	31.8	47.6
55	23.0	18.3	27.5
61	21.7	18.3	27.5





#75
1,1,2,2-Tetrachloroethane
Concen: 21.738 ug/l
RT: 11.213 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 83 Resp: 4241

Ion	Ratio	Lower	Upper
83	100		
131	9.0	4.5	13.4
85	63.4	31.7	95.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
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Reviewed By :John Carlone 02/28/2025
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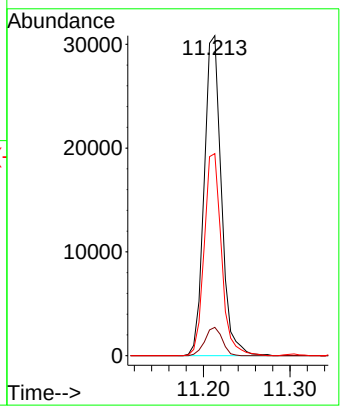
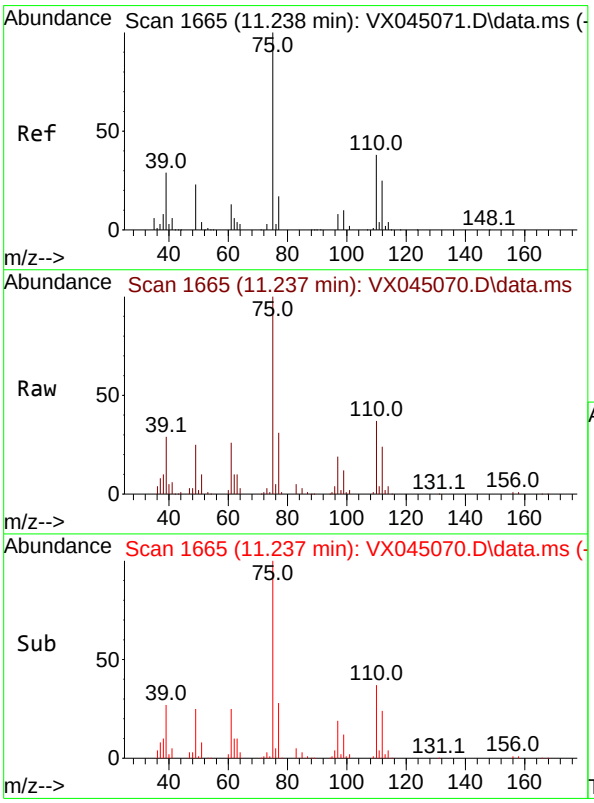
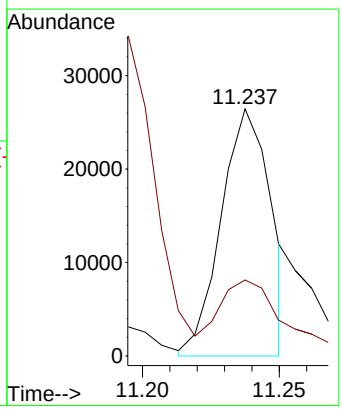


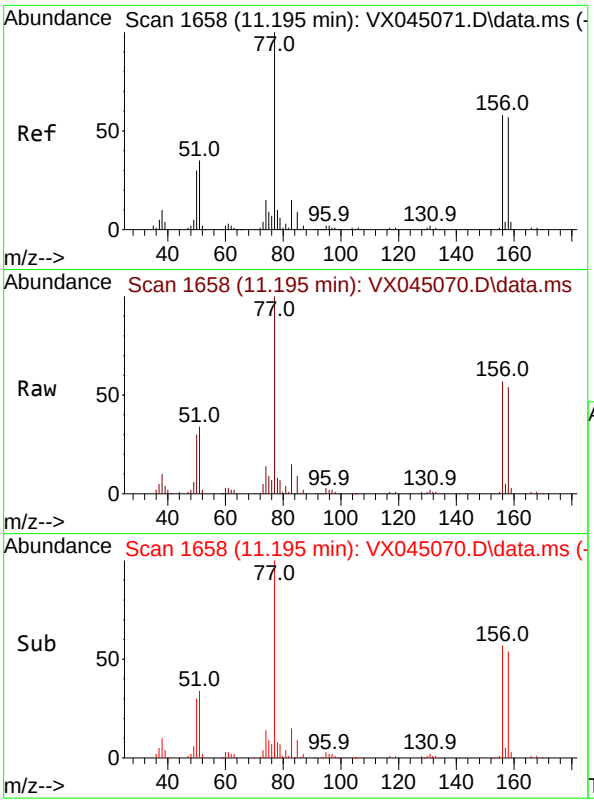


#76
1,2,3-Trichloropropane
Concen: 21.394 ug/l m
RT: 11.237 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 75 Resp: 33440

Ion	Ratio	Lower	Upper
75	100		
77	40.6	20.7	62.1





#77
Bromobenzene
Concen: 20.466 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion:156 Resp: 2631

Ion	Ratio	Lower	Upper
156	100		
77	170.2	85.8	257.4
158	95.9	48.4	145.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
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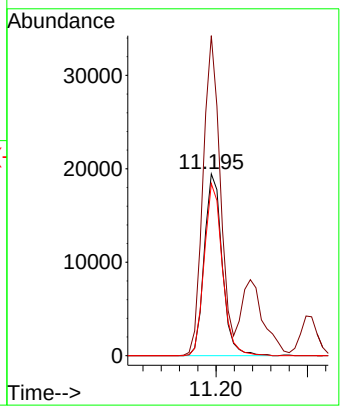
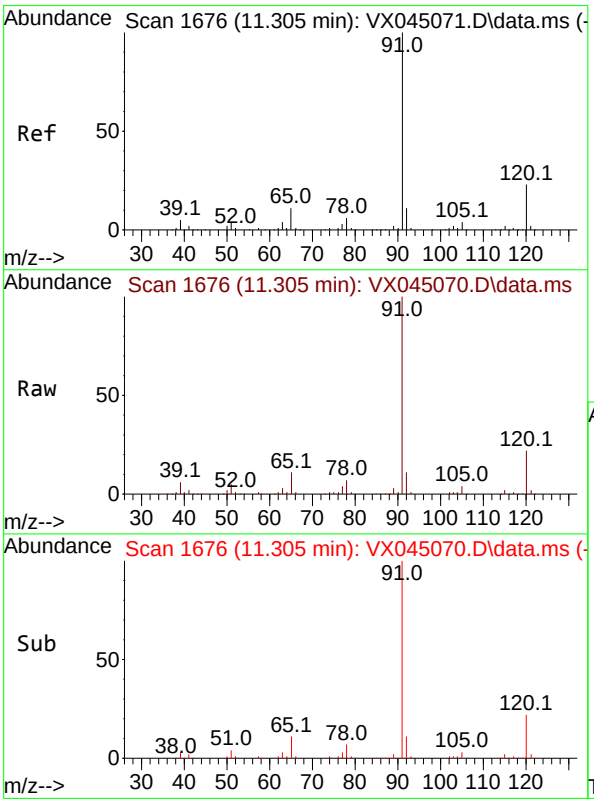
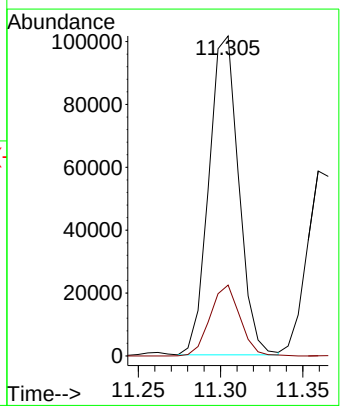


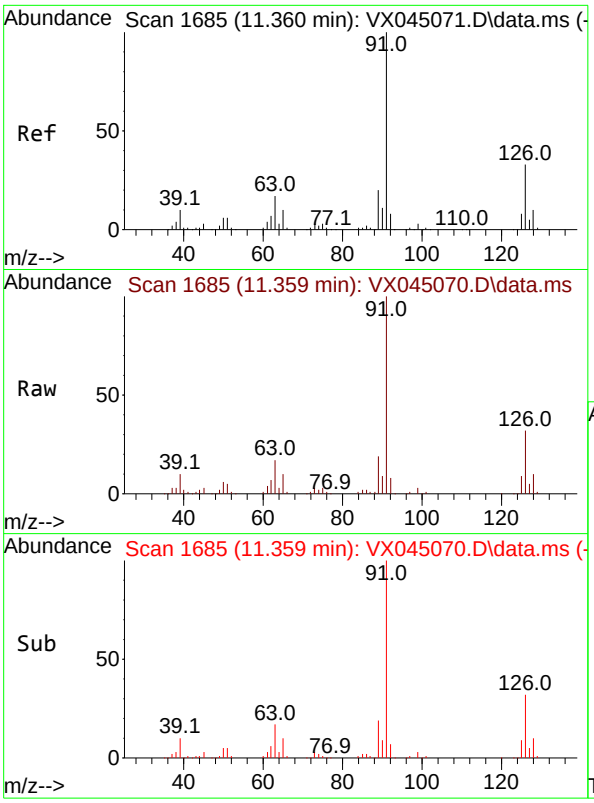


#78
n-propylbenzene
Concen: 19.641 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 91 Resp: 128284

Ion	Ratio	Lower	Upper
91	100		
120	22.3	11.2	33.6





#79
2-Chlorotoluene
Concen: 19.775 ug/l
RT: 11.359 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 91 Resp: 7927

Ion	Ratio	Lower	Upper
91	100		
126	33.1	16.4	49.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
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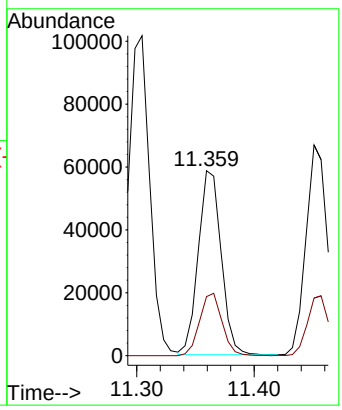
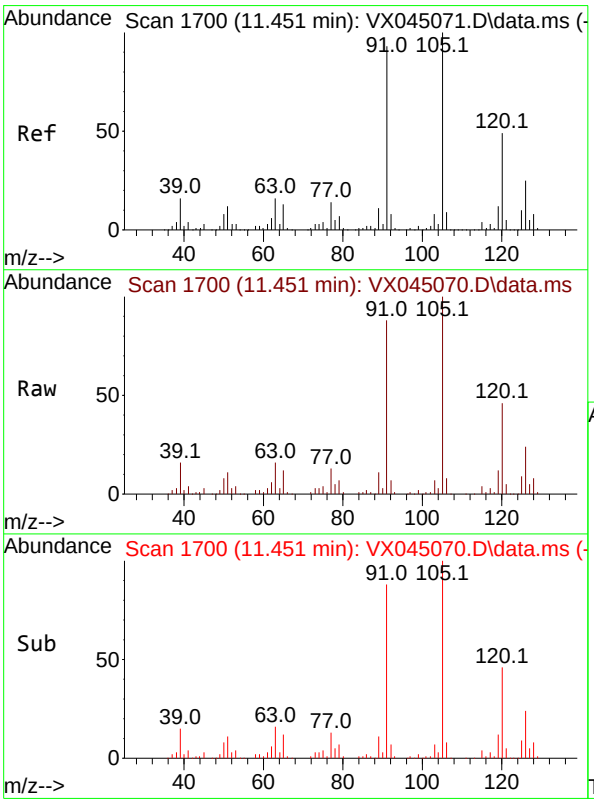
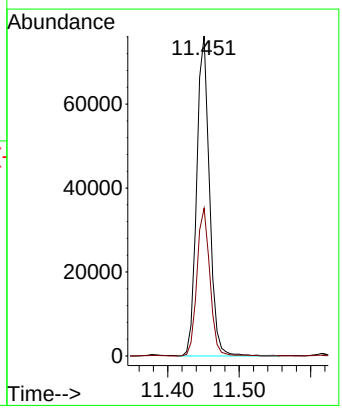


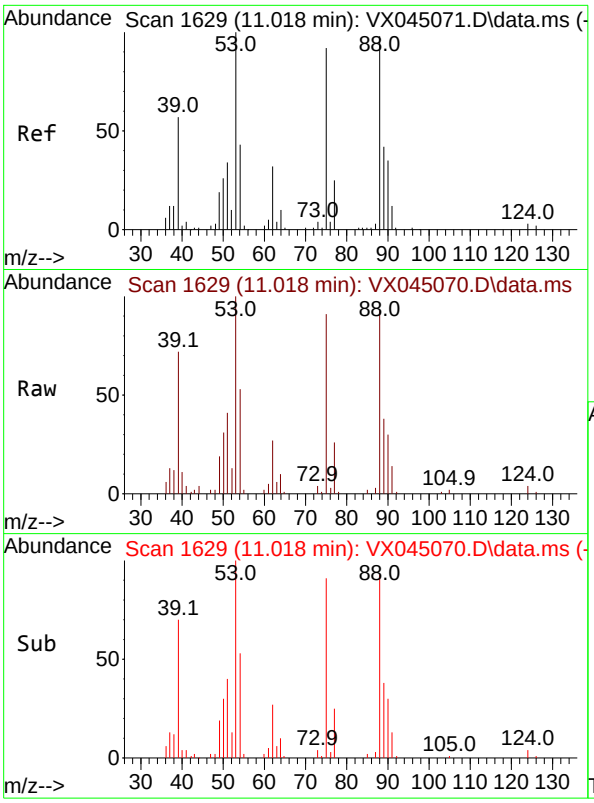


#80
1,3,5-Trimethylbenzene
Concen: 20.581 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion:105 Resp: 94545

Ion	Ratio	Lower	Upper
105	100		
120	46.8	24.1	72.2





#81
trans-1,4-Dichloro-2-butene
Concen: 15.196 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 75 Resp: 875

Ion	Ratio	Lower	Upper
75	100		
53	115.4	88.5	132.7
89	44.3	36.2	54.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
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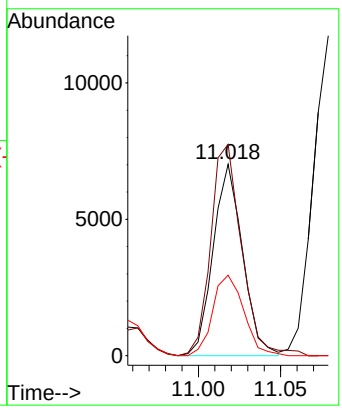
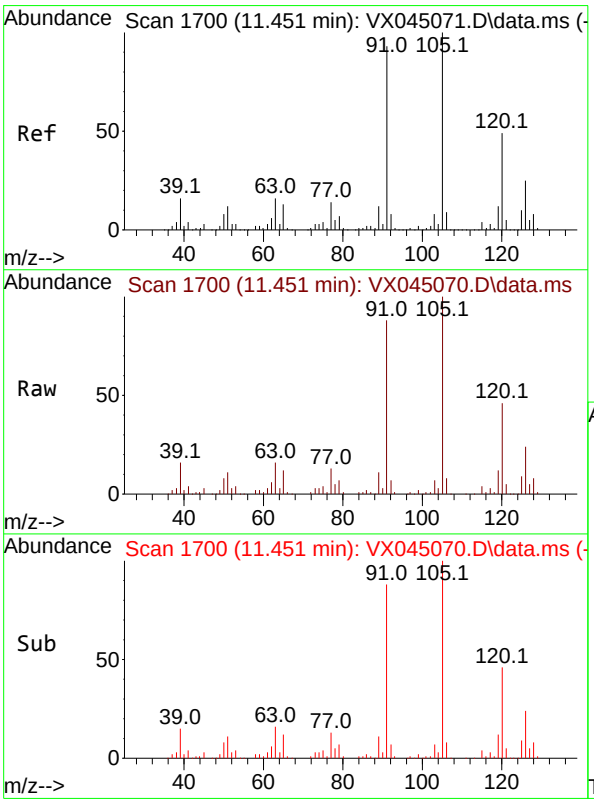
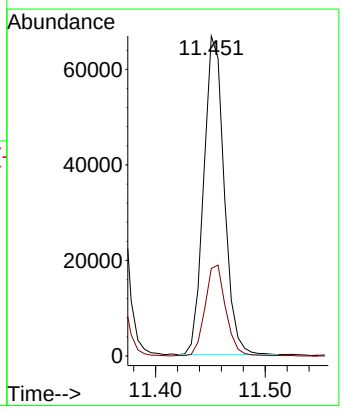


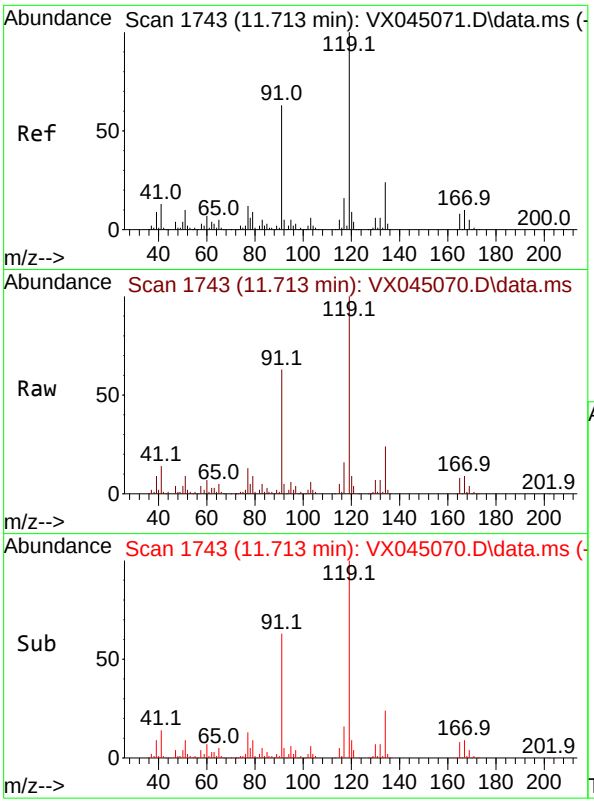


#82
4-Chlorotoluene
Concen: 19.443 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 91 Resp: 86281

Ion	Ratio	Lower	Upper
91	100		
126	29.1	14.1	42.4





#83
tert-Butylbenzene
Concen: 20.159 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

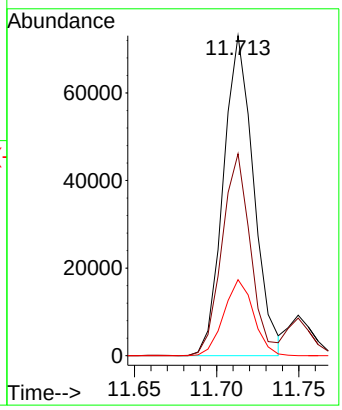
Tgt Ion:119 Resp: 9367

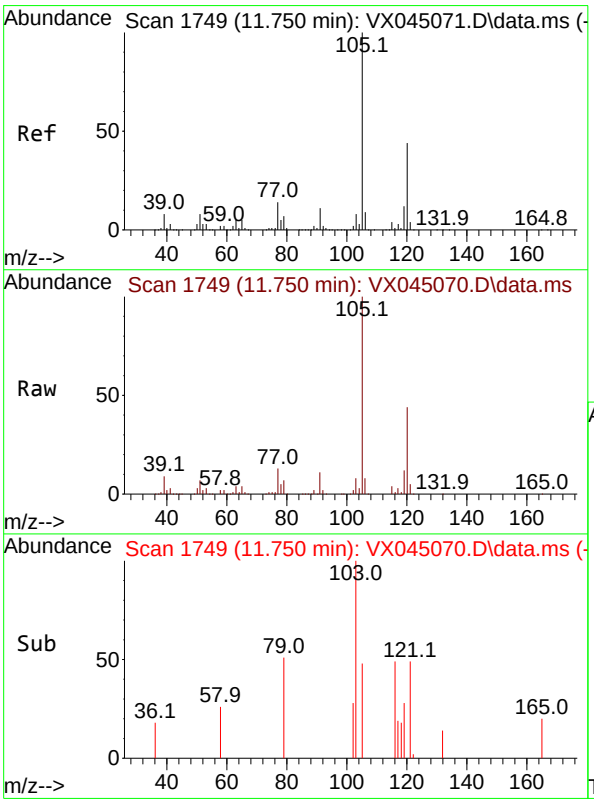
Ion	Ratio	Lower	Upper
119	100		
91	60.0	30.7	92.1
134	23.4	11.7	35.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

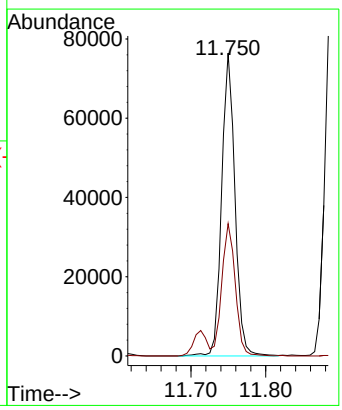


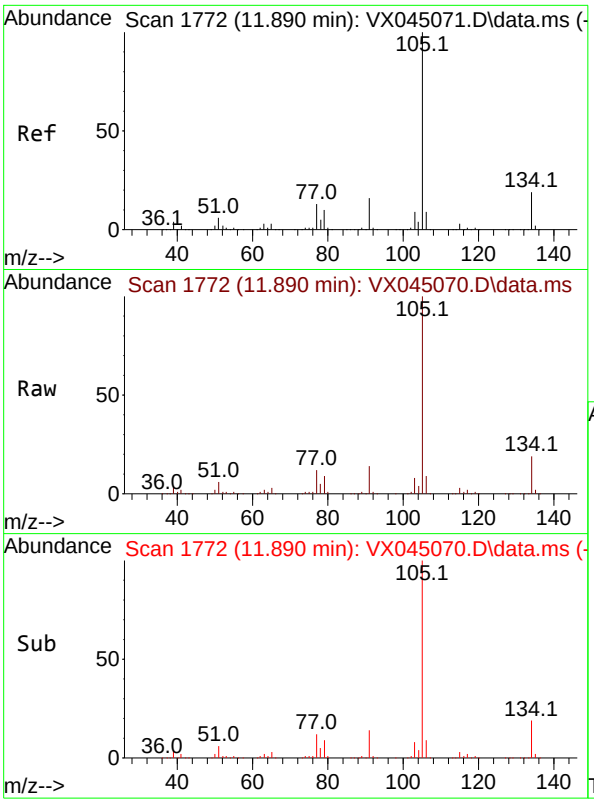


#84
1,2,4-Trimethylbenzene
Concen: 20.943 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion:105 Resp: 94734

Ion	Ratio	Lower	Upper
105	100		
120	44.3	22.1	66.1





#85
sec-Butylbenzene
Concen: 20.160 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

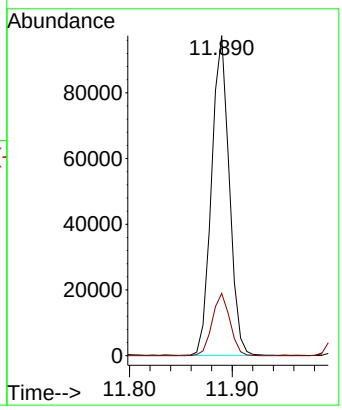
Tgt Ion:105 Resp: 11595

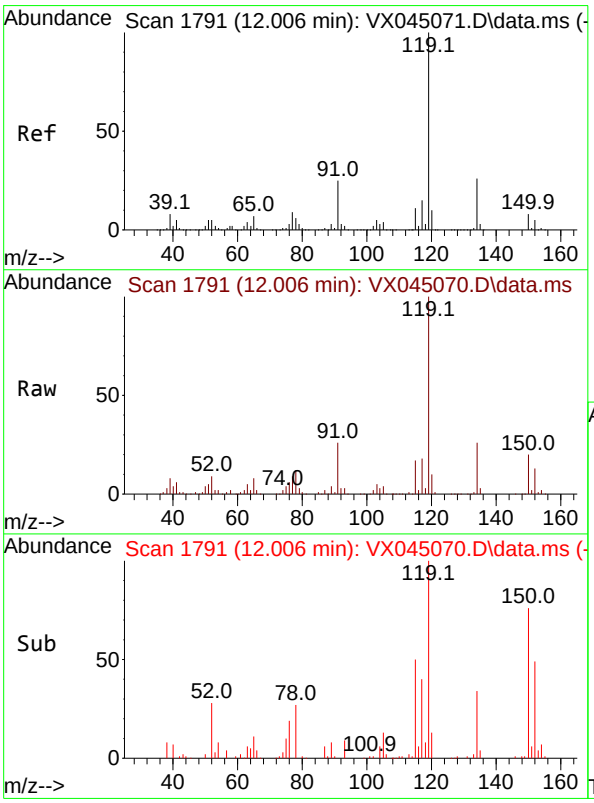
Ion	Ratio	Lower	Upper
105	100		
134	19.6	9.8	29.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

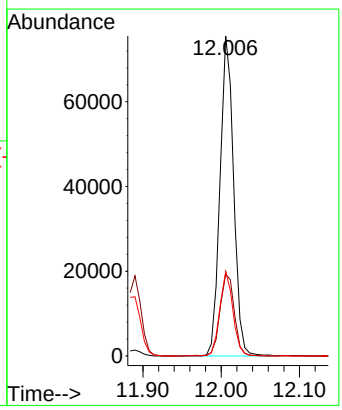


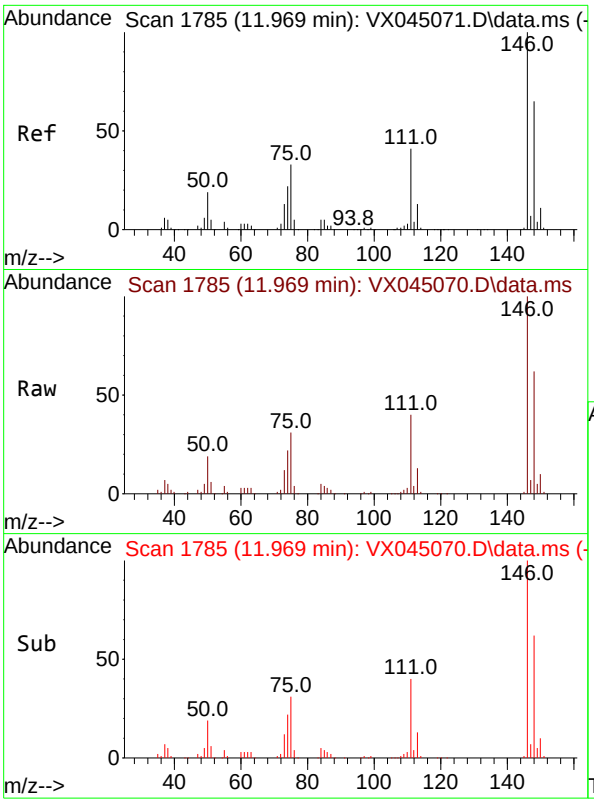


#86
p-Isopropyltoluene
Concen: 19.827 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion:119 Resp: 91554

Ion	Ratio	Lower	Upper
119	100		
134	26.8	12.9	38.6
91	25.6	12.7	38.0





#87
1,3-Dichlorobenzene
Concen: 20.400 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

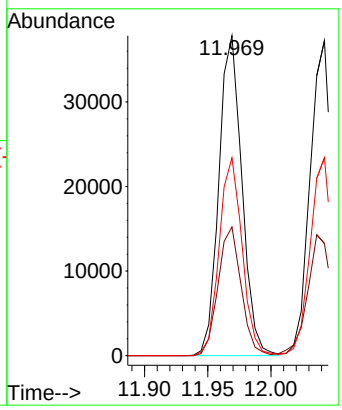
Tgt Ion:146 Resp: 4793

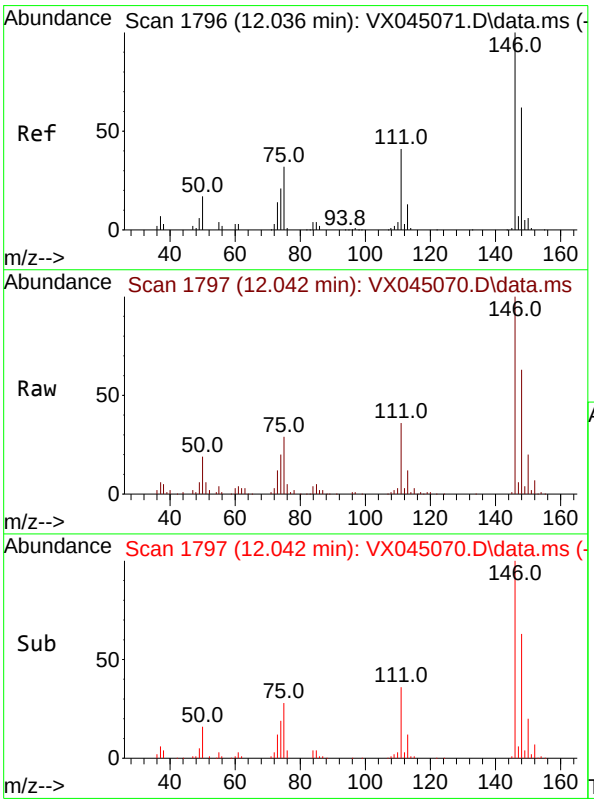
Ion	Ratio	Lower	Upper
146	100		
111	40.2	21.1	63.4
148	61.6	31.9	95.7

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

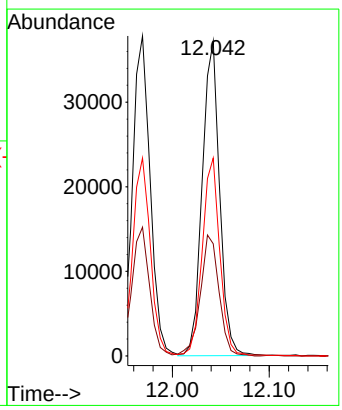


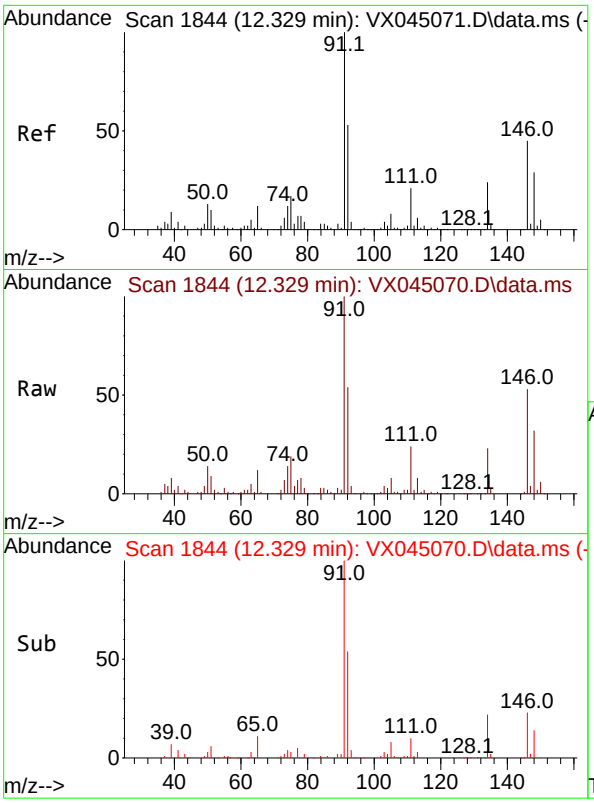


#88
1,4-Dichlorobenzene
Concen: 19.615 ug/l
RT: 12.042 min Scan# 1797
Delta R.T. 0.006 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion:146 Resp: 46657

Ion	Ratio	Lower	Upper
146	100		
111	41.4	20.2	60.5
148	63.8	31.9	95.9





#89
n-Butylbenzene
Concen: 19.249 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

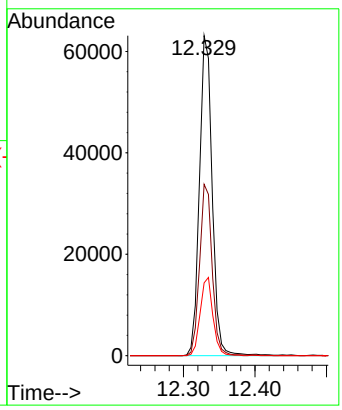
Tgt Ion: 91 Resp: 7813

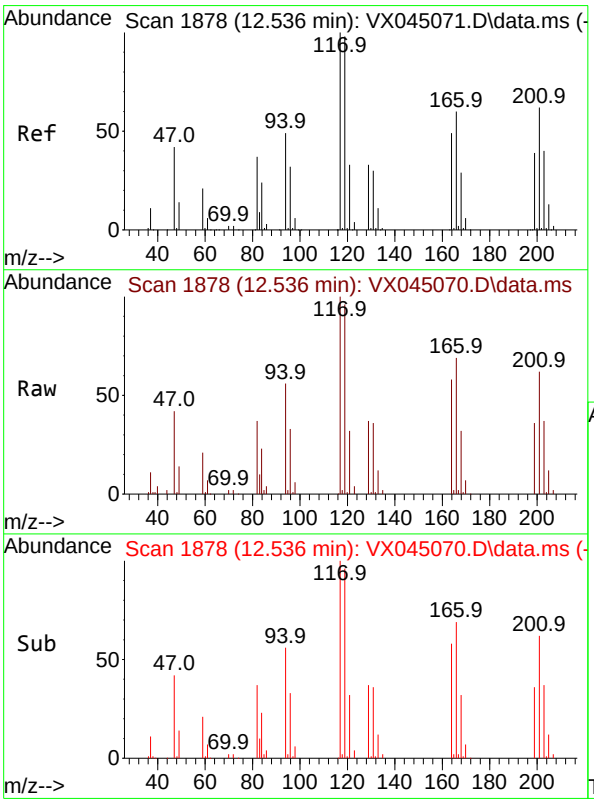
Ion	Ratio	Lower	Upper
91	100		
92	52.9	26.7	80.0
134	24.3	12.2	36.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

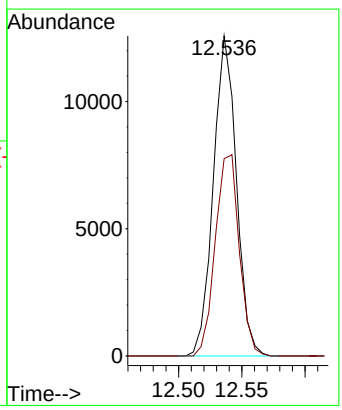


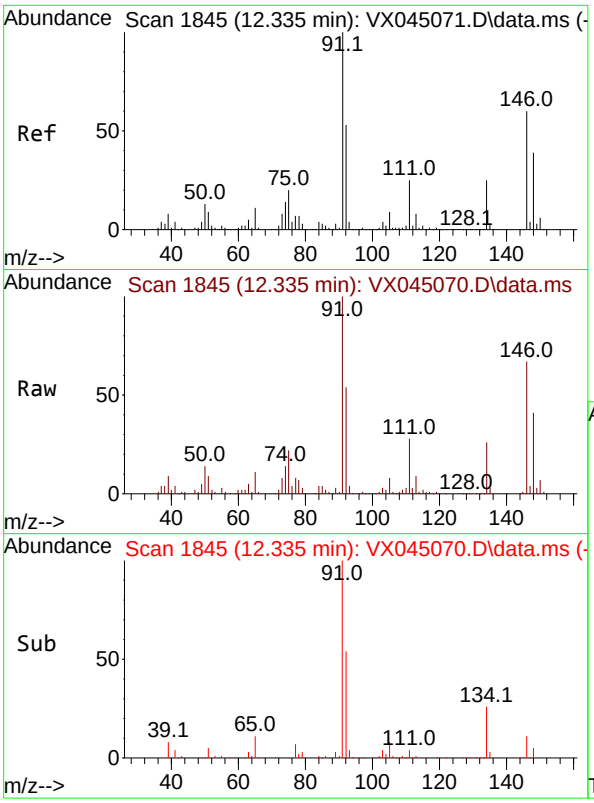


#90
Hexachloroethane
Concen: 18.483 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion:117 Resp: 15919

Ion	Ratio	Lower	Upper
117	100		
201	65.6	31.9	95.9





#91
1,2-Dichlorobenzene
Concen: 21.031 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

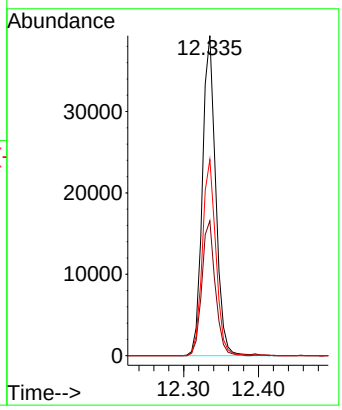
Tgt Ion:146 Resp: 4863

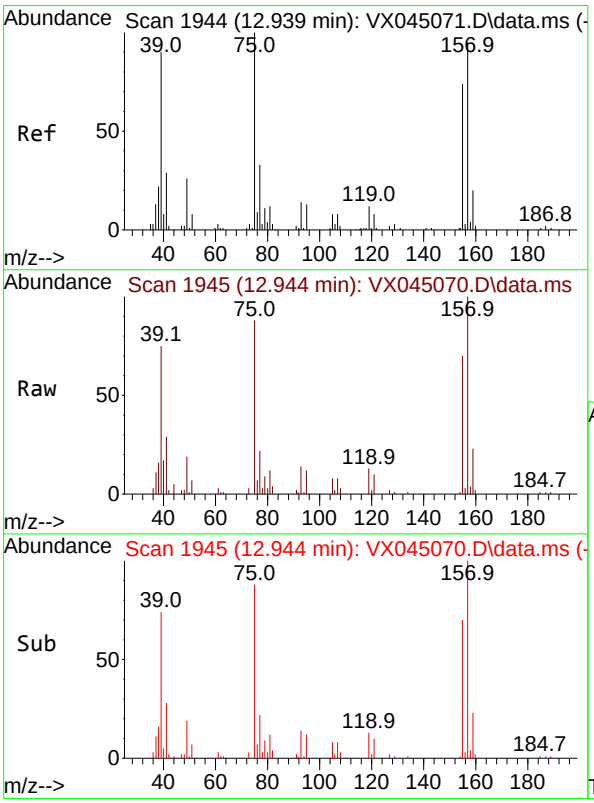
Ion	Ratio	Lower	Upper
146	100		
111	42.6	21.6	65.0
148	62.1	31.9	95.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

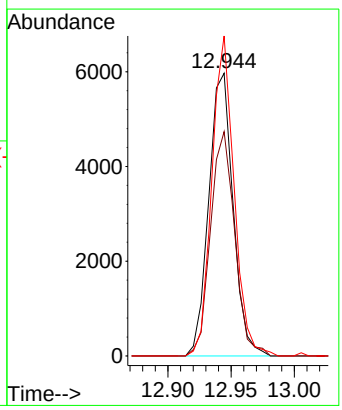


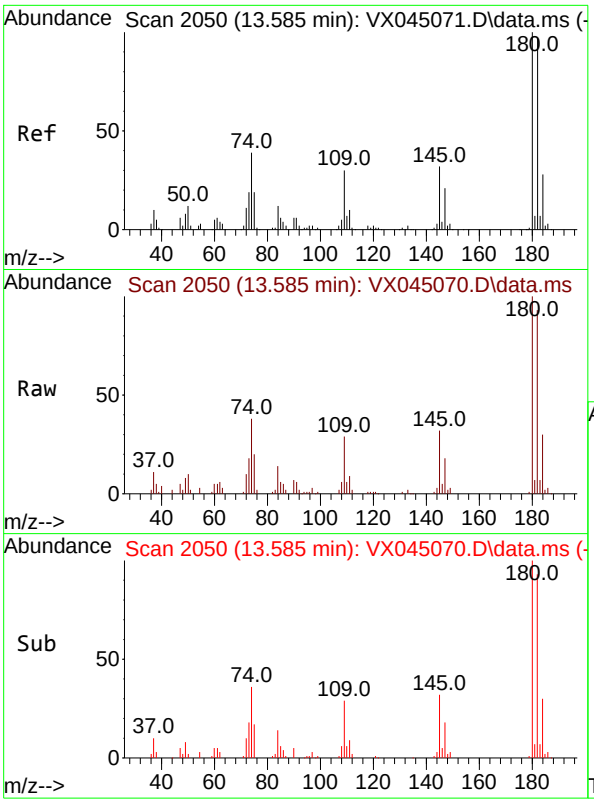


#92
1,2-Dibromo-3-Chloropropane
Concen: 22.119 ug/l
RT: 12.944 min Scan# 1945
Delta R.T. 0.006 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion: 75 Resp: 7987

Ion	Ratio	Lower	Upper
75	100		
155	78.7	39.6	118.7
157	103.3	51.1	153.4





#93
1,2,4-Trichlorobenzene
Concen: 19.617 ug/l
RT: 13.585 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

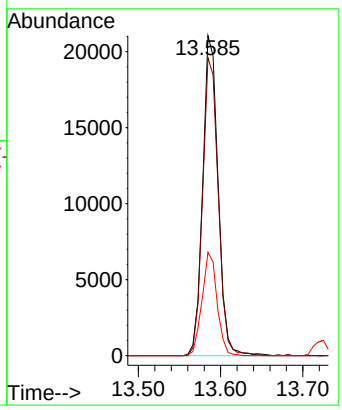
Tgt Ion:180 Resp: 2742

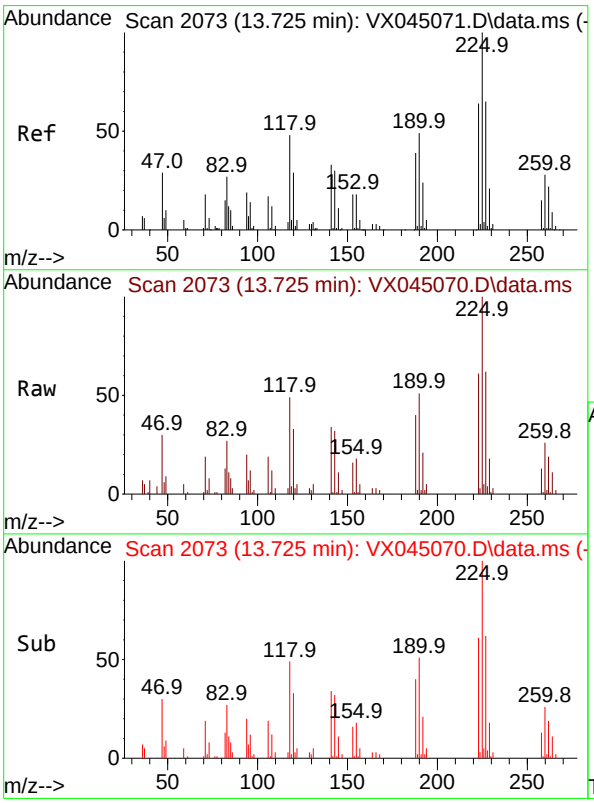
Ion	Ratio	Lower	Upper
180	100		
182	93.9	47.3	141.9
145	31.5	16.3	48.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

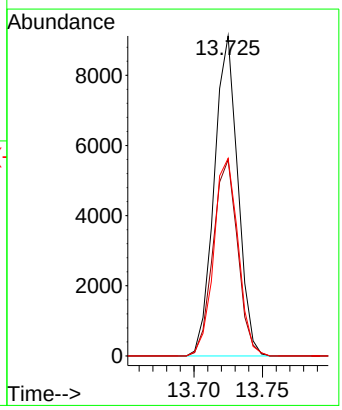


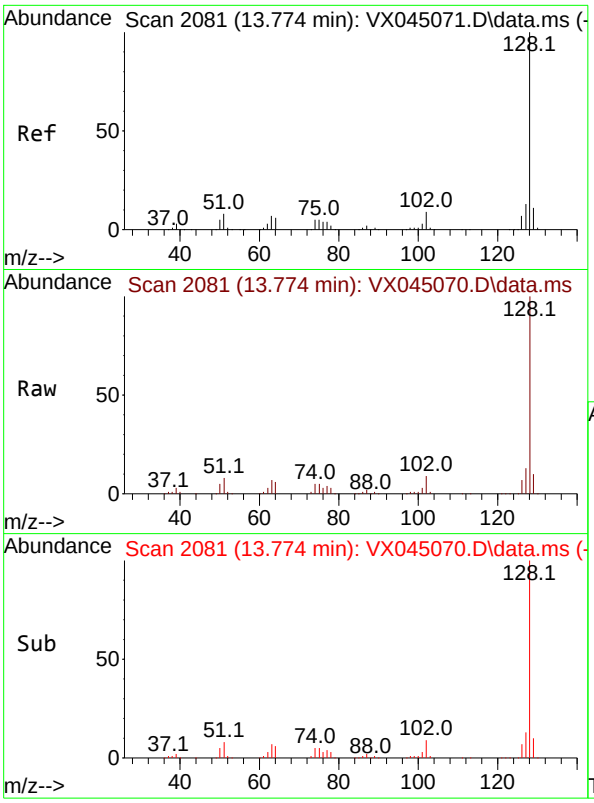


#94
Hexachlorobutadiene
Concen: 19.616 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion:225 Resp: 10934

Ion	Ratio	Lower	Upper
225	100		
223	63.7	31.9	95.7
227	63.7	31.4	94.0





#95
Naphthalene
Concen: 21.279 ug/l
RT: 13.774 min Scan# 2(
Delta R.T. -0.000 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

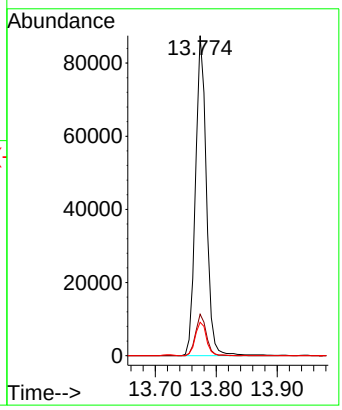
Tgt Ion:128 Resp: 10835(

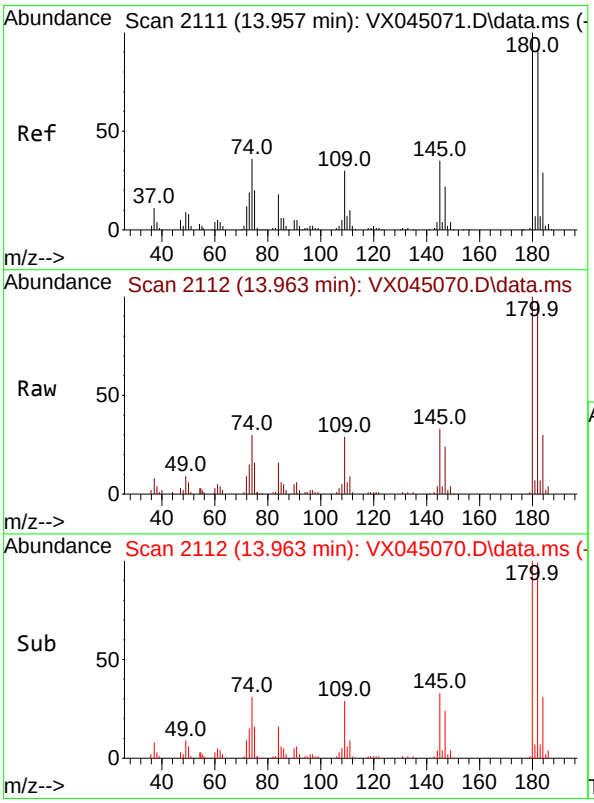
Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.3	15.5
129	10.8	8.7	13.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

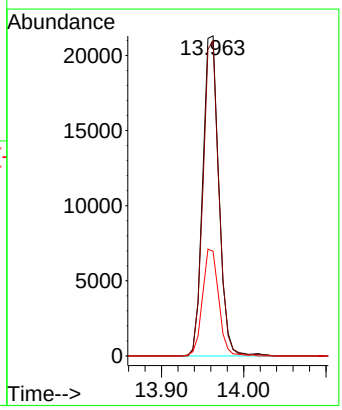




#96
1,2,3-Trichlorobenzene
Concen: 20.432 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. 0.006 min
Lab File: VX045070.D
Acq: 28 Feb 2025 02:37

Tgt Ion:180 Resp: 28937

Ion	Ratio	Lower	Upper
180	100		
182	97.0	47.5	142.6
145	33.7	17.0	50.9



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045071.D
Acq On : 28 Feb 2025 03:00
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Feb 28 05:34:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 05:28:02 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene	5.550	168	103235	50.000 ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	186358	50.000 ug/l	0.00
63) Chlorobenzene-d5	10.049	117	162079	50.000 ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	71264	50.000 ug/l	0.00
System Monitoring Compounds					
33) 1,2-Dichloroethane-d4	5.952	65	78159	51.250 ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 102.500%		
35) Dibromofluoromethane	5.385	113	61323	50.346 ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.700%		
50) Toluene-d8	8.647	98	225493	49.449 ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 98.900%		
62) 4-Bromofluorobenzene	11.079	95	74945	49.212 ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 98.420%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.166	85	64743	45.502 ug/l	100
3) Chloromethane	1.307	50	77729	44.894 ug/l	100
4) Vinyl Chloride	1.374	62	78524	46.434 ug/l	100
5) Bromomethane	1.593	94	30169	57.066 ug/l	100
6) Chloroethane	1.660	64	38461	59.750 ug/l	100
7) Trichlorofluoromethane	1.868	101	108411	50.047 ug/l	100
8) Diethyl Ether	2.136	74	40001	50.814 ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.313	101	61312	47.399 ug/l	100
10) Methyl Iodide	2.441	142	79357	47.854 ug/l	100
11) Tert butyl alcohol	2.983	59	69139	247.496 ug/l	100
12) 1,1-Dichloroethene	2.307	96	64327	48.434 ug/l	100
13) Acrolein	2.233	56	89603	296.189 ug/l	100
14) Allyl chloride	2.654	41	114313	47.875 ug/l	100
15) Acrylonitrile	3.062	53	211455	278.519 ug/l	100
16) Acetone	2.386	43	181429	289.130 ug/l	100
17) Carbon Disulfide	2.502	76	171353	47.419 ug/l	100
18) Methyl Acetate	2.703	43	89508	47.359 ug/l	100
19) Methyl tert-butyl Ether	3.117	73	215043	50.642 ug/l	100
20) Methylene Chloride	2.782	84	72081	48.500 ug/l	100
21) trans-1,2-Dichloroethene	3.087	96	65093	49.832 ug/l	100
22) Diisopropyl ether	3.764	45	236563	51.816 ug/l	100
23) Vinyl Acetate	3.721	43	1018631	271.773 ug/l	100
24) 1,1-Dichloroethane	3.605	63	128235	50.270 ug/l	100
25) 2-Butanone	4.562	43	298785	295.330 ug/l	100
26) 2,2-Dichloropropane	4.471	77	61631	32.498 ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	78657	49.955 ug/l	100
28) Bromochloromethane	4.898	49	62299	50.643 ug/l	100
29) Tetrahydrofuran	5.007	42	192607	287.345 ug/l	100
30) Chloroform	5.087	83	128581	51.532 ug/l	100
31) Cyclohexane	5.464	56	114333	48.836 ug/l	100
32) 1,1,1-Trichloroethane	5.379	97	105671	50.306 ug/l	100
36) 1,1-Dichloropropene	5.690	75	87338	49.861 ug/l	100
37) Ethyl Acetate	4.715	43	112892	56.641 ug/l	100
38) Carbon Tetrachloride	5.672	117	87123	50.593 ug/l	100
39) Methylcyclohexane	7.373	83	108974	48.715 ug/l	100
40) Benzene	6.031	78	278802	50.925 ug/l	100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045071.D
Acq On : 28 Feb 2025 03:00
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Feb 28 05:34:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 05:28:02 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	4.922	41	63454	59.598 ug/l	100
42) 1,2-Dichloroethane	6.080	62	98340	55.428 ug/l	100
43) Isopropyl Acetate	6.342	43	173045	54.544 ug/l	100
44) Trichloroethene	7.123	130	63513	50.756 ug/l	100
45) 1,2-Dichloropropane	7.428	63	69128	50.808 ug/l	100
46) Dibromomethane	7.580	93	50143	52.757 ug/l	100
47) Bromodichloromethane	7.818	83	97729	53.153 ug/l	100
48) Methyl methacrylate	7.690	41	86231	57.256 ug/l	100
49) 1,4-Dioxane	7.659	88	35053	1095.003 ug/l	100
51) 4-Methyl-2-Pentanone	8.574	43	568737	292.570 ug/l	100
52) Toluene	8.714	92	167431	51.505 ug/l	100
53) t-1,3-Dichloropropene	8.976	75	87373	48.078 ug/l	100
54) cis-1,3-Dichloropropene	8.366	75	99713	49.079 ug/l	100
55) 1,1,2-Trichloroethane	9.147	97	66379	52.724 ug/l	100
56) Ethyl methacrylate	9.116	69	106157	52.724 ug/l	100
57) 1,3-Dichloropropane	9.305	76	115488	52.594 ug/l	100
58) 2-Chloroethyl Vinyl ether	8.238	63	264555	267.612 ug/l	100
59) 2-Hexanone	9.427	43	416984	297.362 ug/l	100
60) Dibromochloromethane	9.519	129	71569	53.284 ug/l	100
61) 1,2-Dibromoethane	9.604	107	66312	52.217 ug/l	100
64) Tetrachloroethene	9.269	164	52531	51.021 ug/l	100
65) Chlorobenzene	10.079	112	176922	50.853 ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.159	131	57642	51.402 ug/l	100
67) Ethyl Benzene	10.189	91	316427	51.431 ug/l	100
68) m/p-Xylenes	10.299	106	234554	103.515 ug/l	100
69) o-Xylene	10.640	106	114440	50.341 ug/l	100
70) Styrene	10.653	104	191406	52.387 ug/l	100
71) Bromoform	10.799	173	44730	53.645 ug/l #	100
73) Isopropylbenzene	10.963	105	294694	51.167 ug/l	100
74) N-amyl acetate	10.842	43	140869	53.881 ug/l	100
75) 1,1,2,2-Tetrachloroethane	11.213	83	101089	50.945 ug/l	100
76) 1,2,3-Trichloropropane	11.238	75	81743m	51.421 ug/l	
77) Bromobenzene	11.195	156	66904	51.173 ug/l	100
78) n-propylbenzene	11.305	91	342399	51.546 ug/l	100
79) 2-Chlorotoluene	11.360	91	204484	50.154 ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	241129	51.613 ug/l	100
81) trans-1,4-Dichloro-2-b...	11.018	75	24135	41.172 ug/l	100
82) 4-Chlorotoluene	11.451	91	230493	51.072 ug/l	100
83) tert-Butylbenzene	11.713	119	240510	50.895 ug/l	100
84) 1,2,4-Trimethylbenzene	11.750	105	240719	52.326 ug/l	100
85) sec-Butylbenzene	11.890	105	300393	51.353 ug/l	100
86) p-Isopropyltoluene	12.006	119	244031	51.964 ug/l	100
87) 1,3-Dichlorobenzene	11.969	146	118879	49.747 ug/l	100
88) 1,4-Dichlorobenzene	12.036	146	120217	49.694 ug/l	100
89) n-Butylbenzene	12.329	91	214685	52.006 ug/l	100
90) Hexachloroethane	12.536	117	43086	49.188 ug/l	100
91) 1,2-Dichlorobenzene	12.335	146	118896	50.557 ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.939	75	20610	56.123 ug/l	100
93) 1,2,4-Trichlorobenzene	13.585	180	71897	50.571 ug/l	100
94) Hexachlorobutadiene	13.725	225	27916	49.245 ug/l	100
95) Naphthalene	13.774	128	278086	53.700 ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	75482	52.406 ug/l	100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045071.D
Acq On : 28 Feb 2025 03:00
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Feb 28 05:34:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 05:28:02 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

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

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

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045071.D
Acq On : 28 Feb 2025 03:00
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Feb 28 05:34:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 05:28:02 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 02/28/2025
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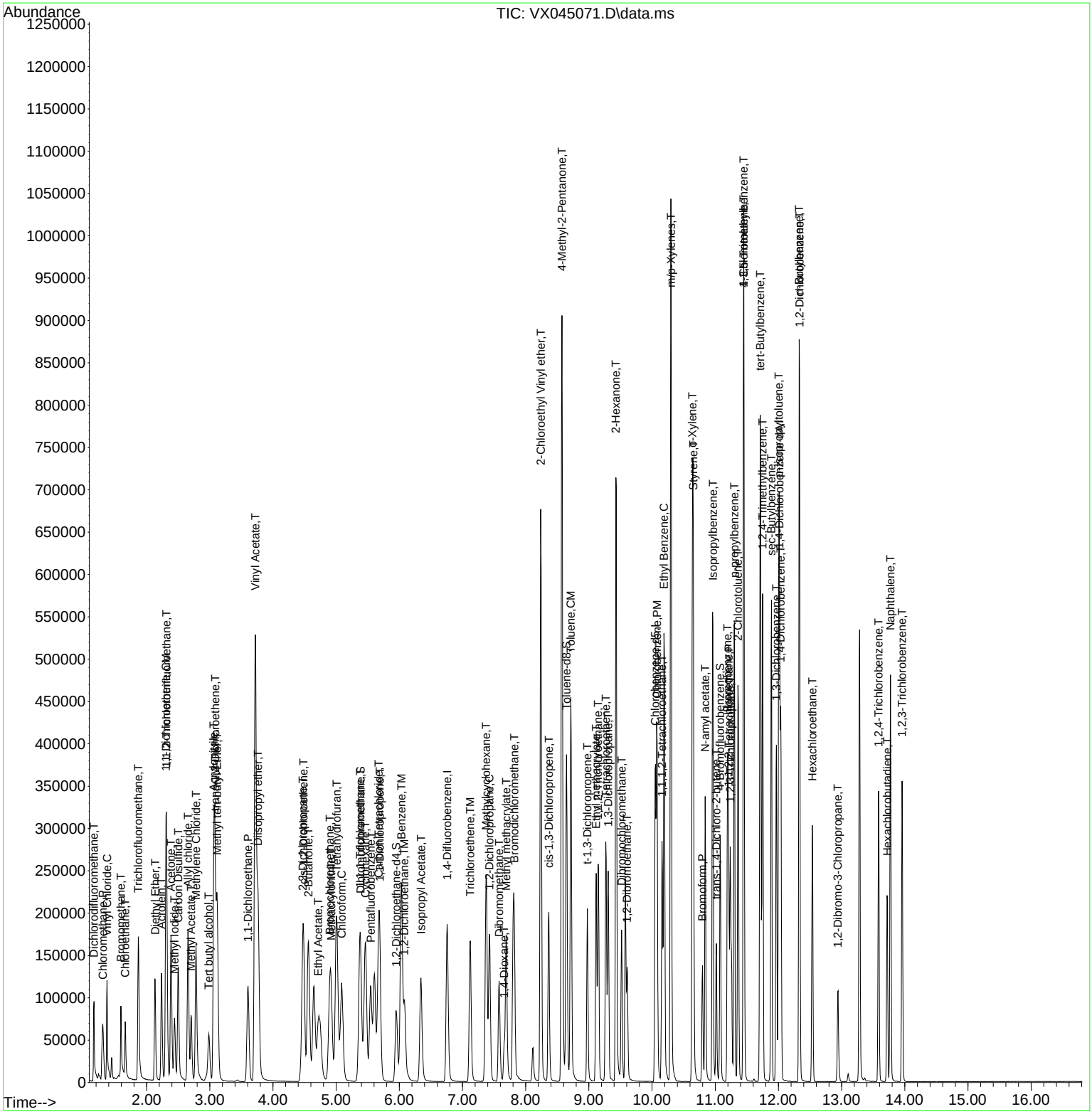
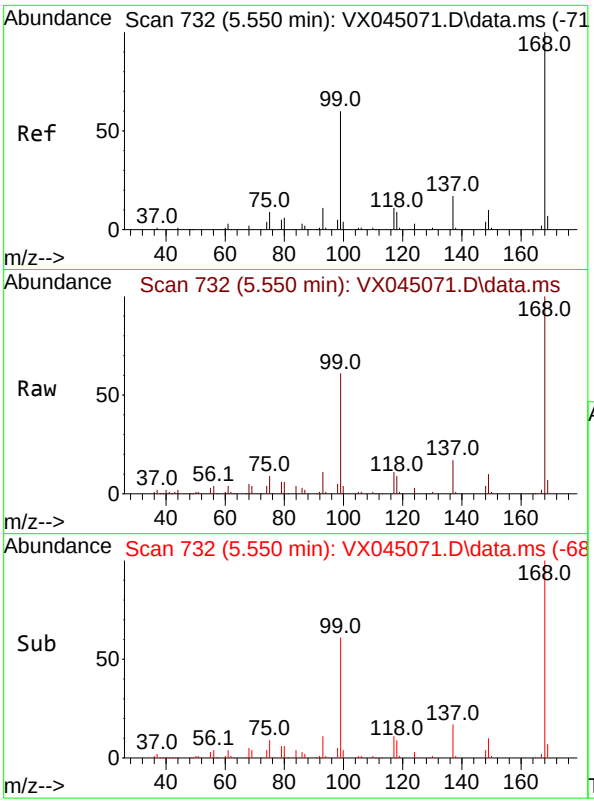




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

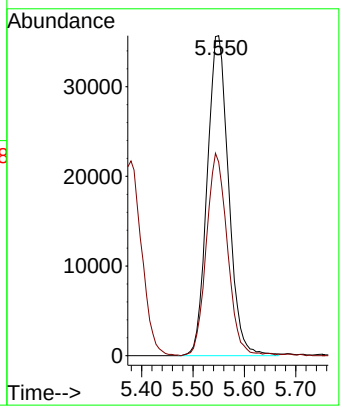
Tgt Ion:168 Resp: 10323

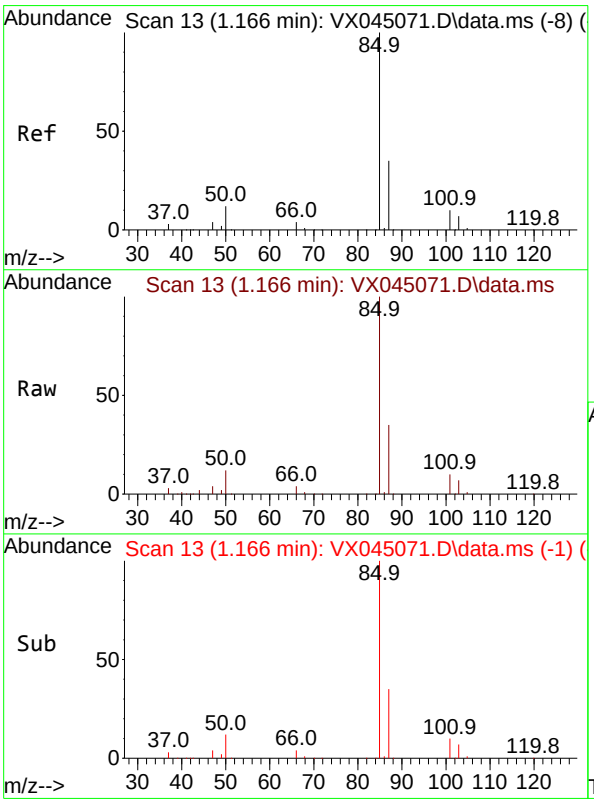
Ion	Ratio	Lower	Upper
168	100		
99	60.3	48.2	72.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

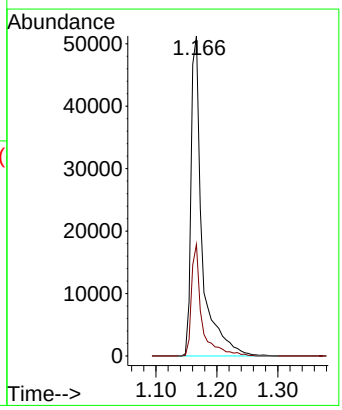


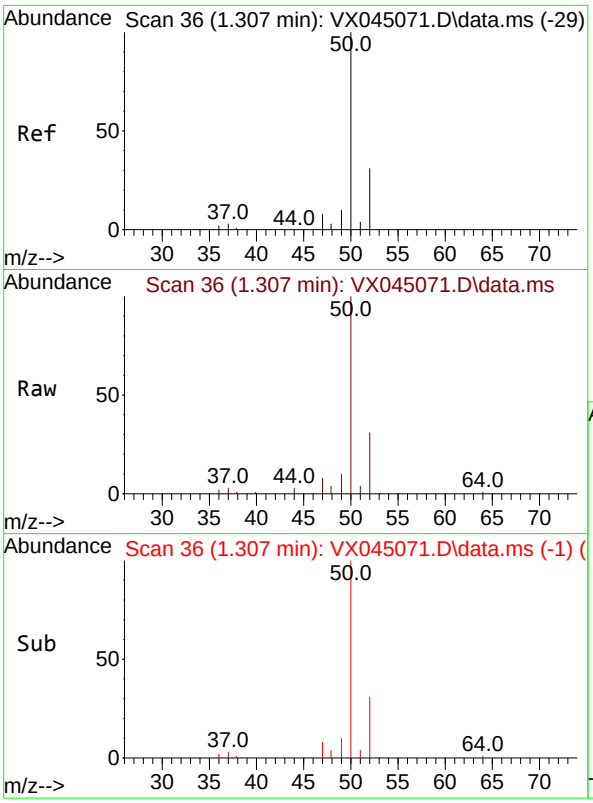


#2
Dichlorodifluoromethane
Concen: 45.502 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 85 Resp: 64743

Ion	Ratio	Lower	Upper
85	100		
87	34.9	17.4	52.3





#3
Chloromethane
Concen: 44.894 ug/l
RT: 1.307 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

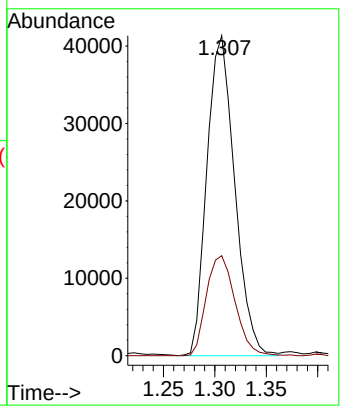
Tgt Ion: 50 Resp: 7772

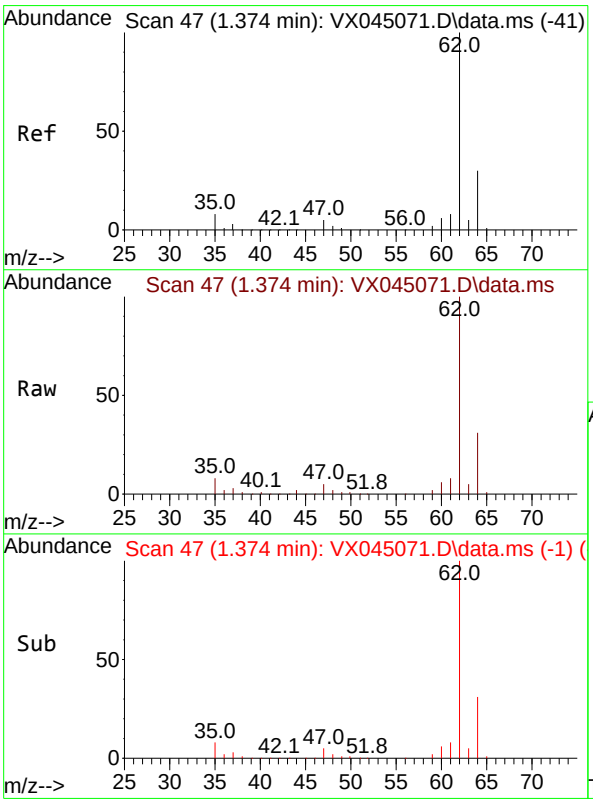
Ion	Ratio	Lower	Upper
50	100		
52	31.2	25.0	37.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

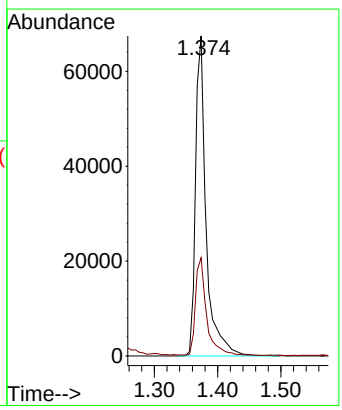


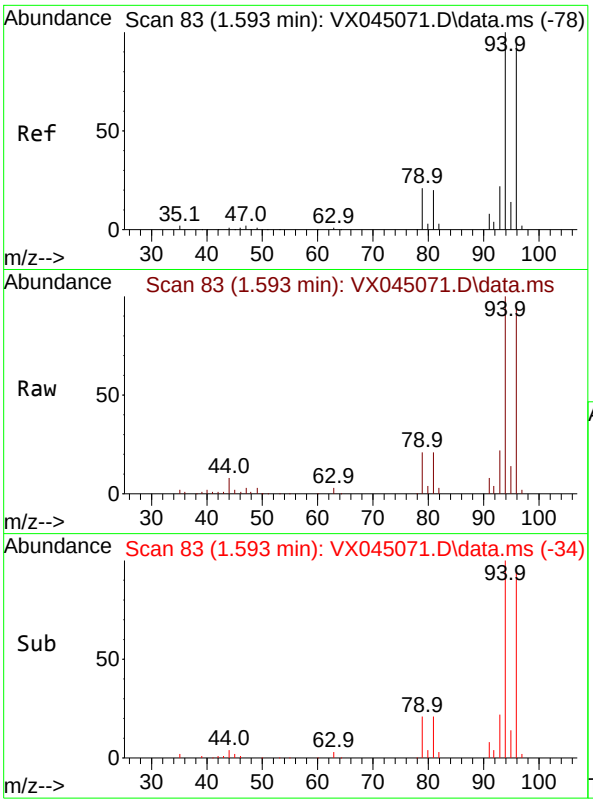


#4
Vinyl Chloride
Concen: 46.434 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 62 Resp: 78524

Ion	Ratio	Lower	Upper
62	100		
64	30.4	24.3	36.5





#5
Bromomethane
Concen: 57.066 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

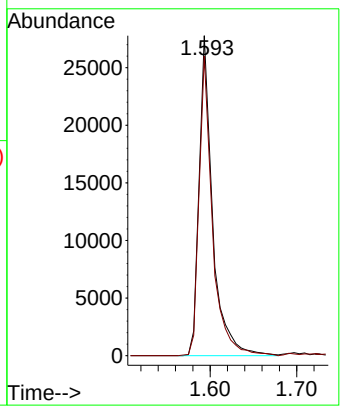
Tgt Ion: 94 Resp: 3016

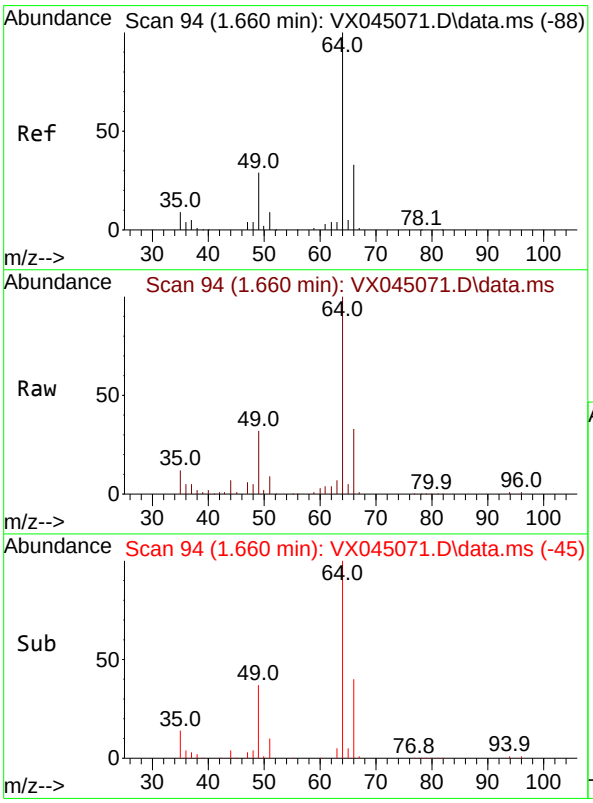
Ion	Ratio	Lower	Upper
94	100		
96	93.7	75.0	112.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

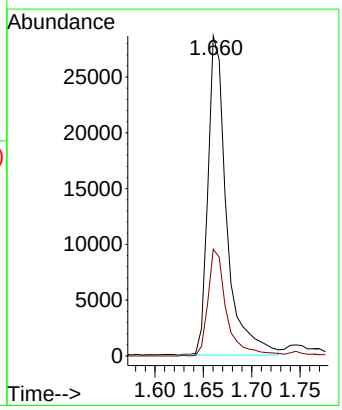


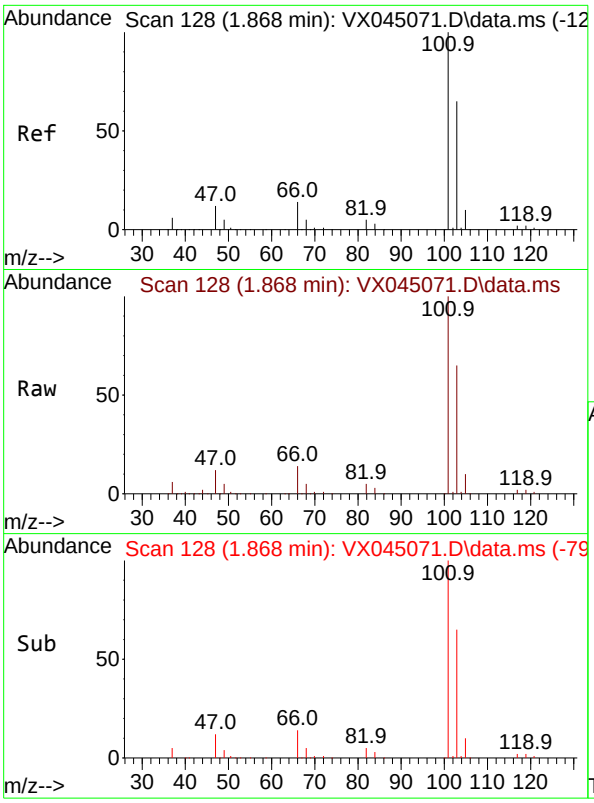


#6
Chloroethane
Concen: 59.750 ug/l
RT: 1.660 min Scan# 94
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 64 Resp: 38461

Ion	Ratio	Lower	Upper
64	100		
66	33.4	26.7	40.1





#7
Trichlorofluoromethane
Concen: 50.047 ug/l
RT: 1.868 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

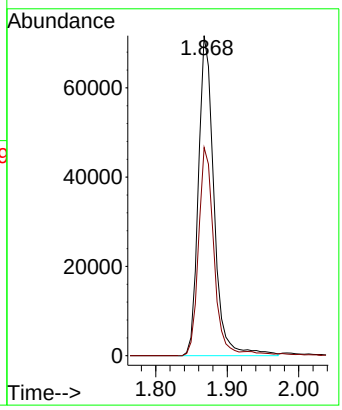
Tgt Ion:101 Resp: 10841

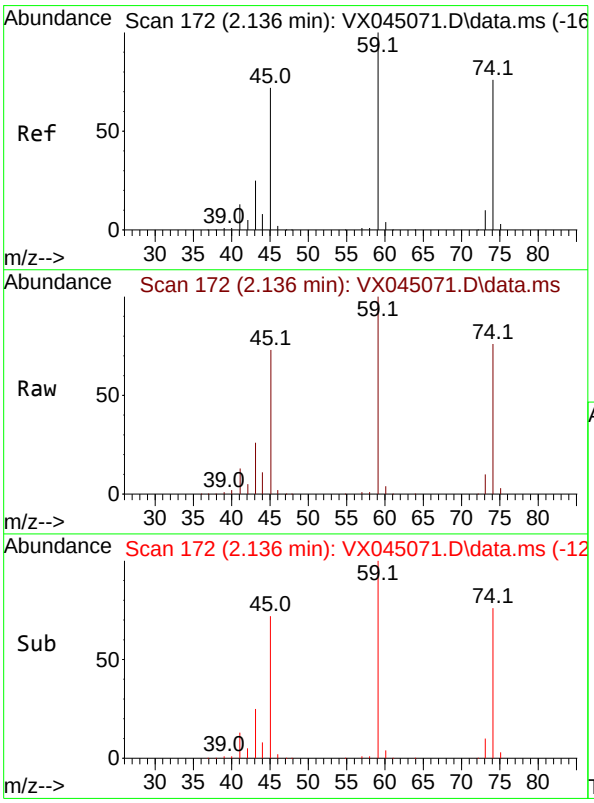
Ion	Ratio	Lower	Upper
101	100		
103	65.1	52.1	78.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

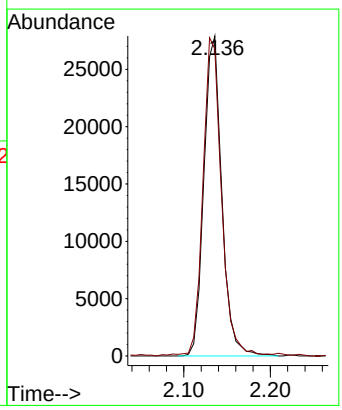


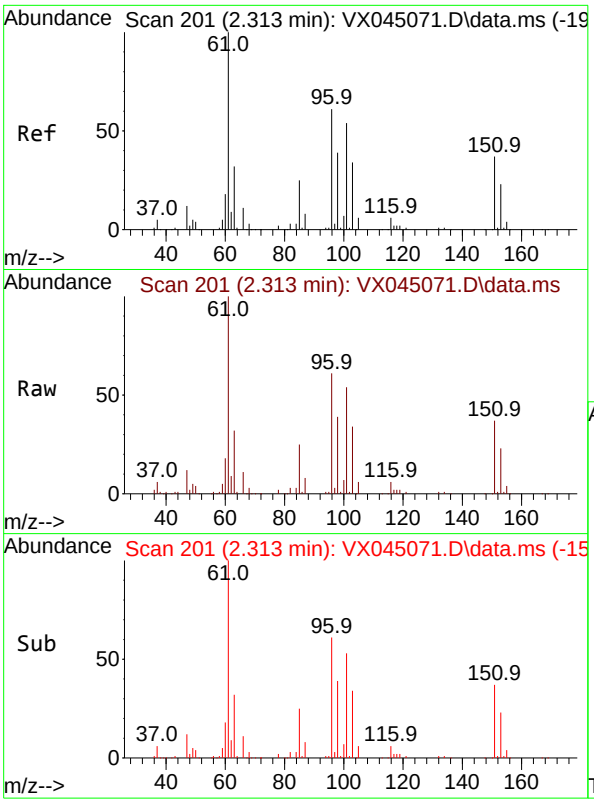


#8
Diethyl Ether
Concen: 50.814 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 74 Resp: 40001

Ion	Ratio	Lower	Upper
74	100		
45	103.0	51.5	154.5





#9
1,1,2-Trichlorotrifluoroethane
Concen: 47.399 ug/l
RT: 2.313 min Scan# 2(
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

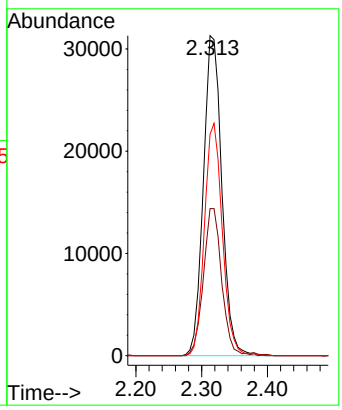
Tgt Ion:101 Resp: 6131

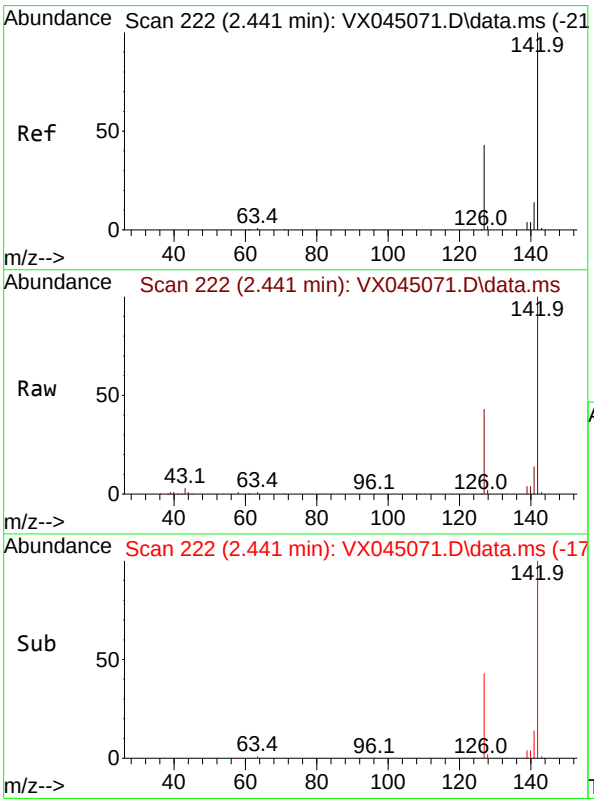
Ion	Ratio	Lower	Upper
101	100		
85	45.3	36.2	54.4
151	70.5	56.4	84.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

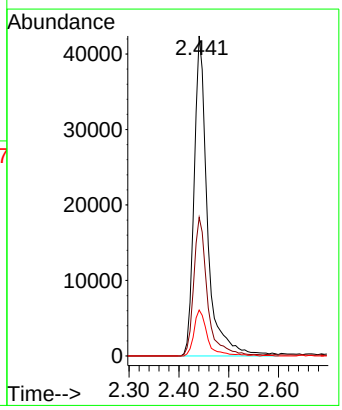


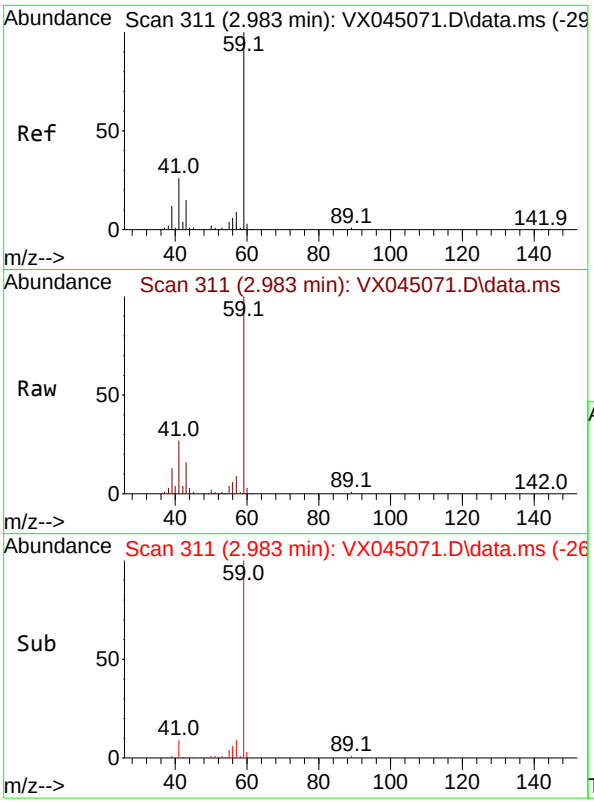


#10
Methyl Iodide
Concen: 47.854 ug/l
RT: 2.441 min Scan# 222
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion:142 Resp: 79357

Ion	Ratio	Lower	Upper
142	100		
127	44.3	35.4	53.2
141	14.5	11.6	17.4





#11
Tert butyl alcohol
Concen: 247.496 ug/l
RT: 2.983 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

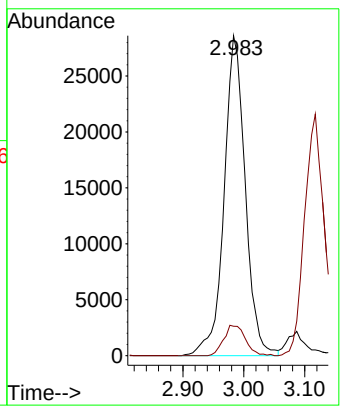
Tgt Ion: 59 Resp: 6913

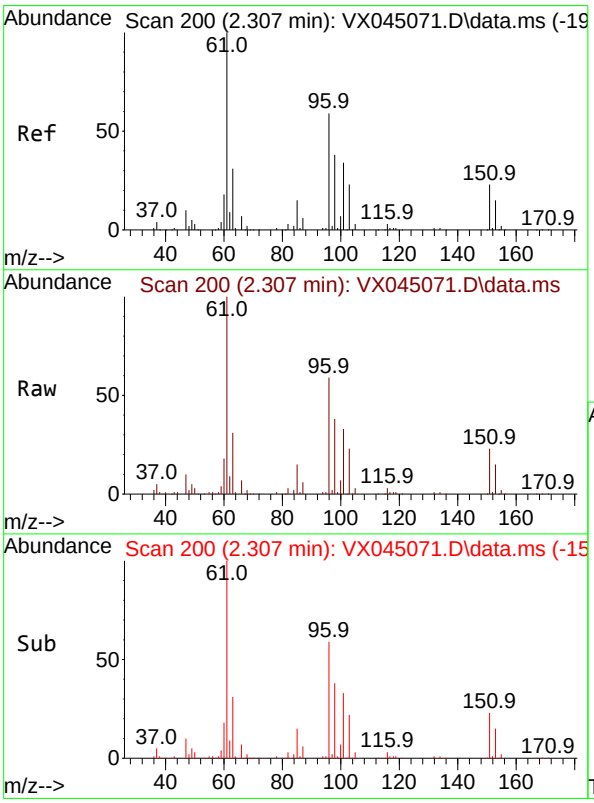
Ion	Ratio	Lower	Upper
59	100		
57	9.8	7.8	11.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

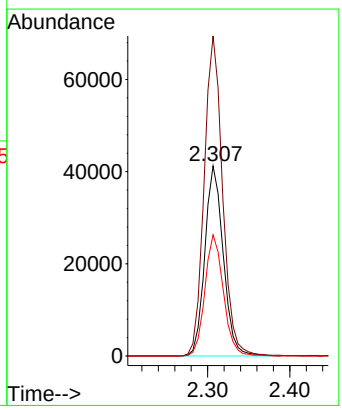


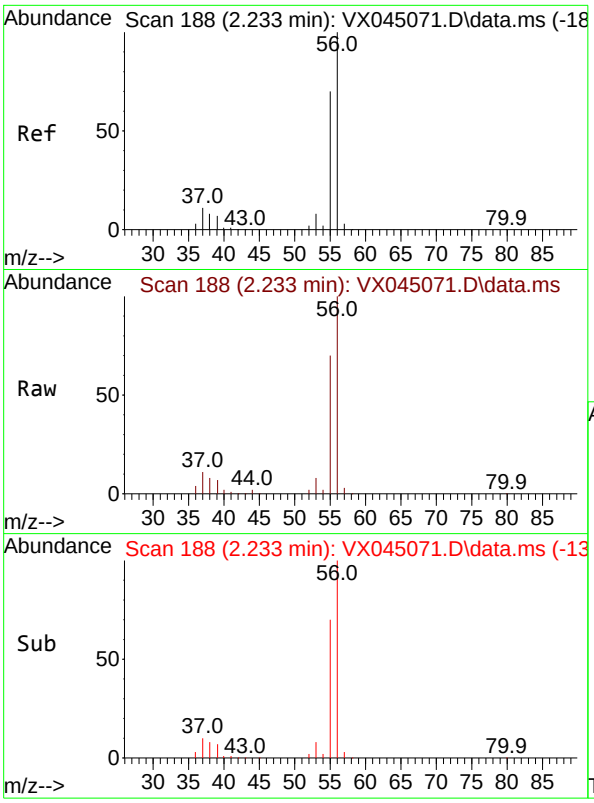


#12
1,1-Dichloroethene
Concen: 48.434 ug/l
RT: 2.307 min Scan# 200
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 96 Resp: 64327

Ion	Ratio	Lower	Upper
96	100		
61	168.3	134.6	202.0
98	63.8	51.0	76.6





#13
Acrolein
Concen: 296.189 ug/l
RT: 2.233 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 56 Resp: 8960

Ion	Ratio	Lower	Upper
56	100		
55	70.3	56.2	84.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
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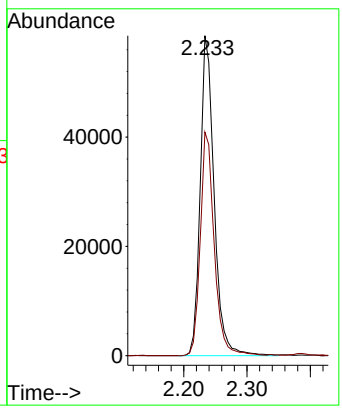
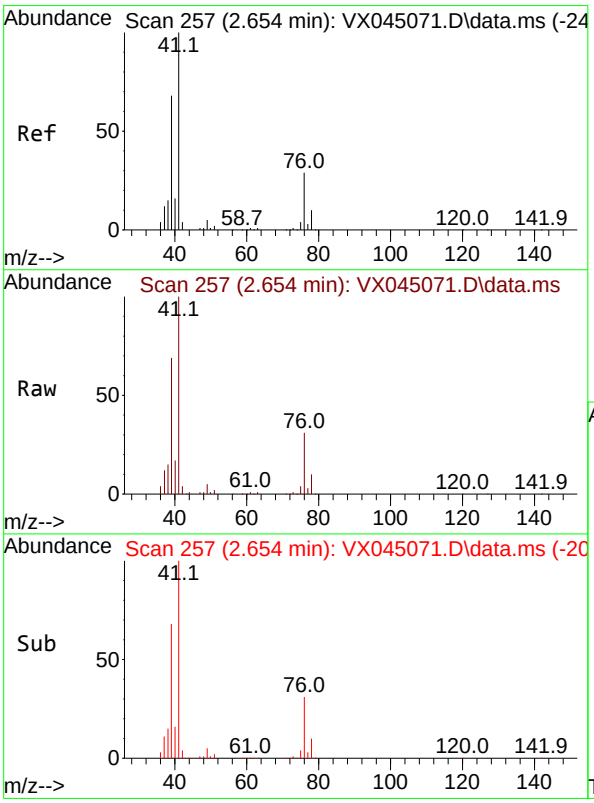
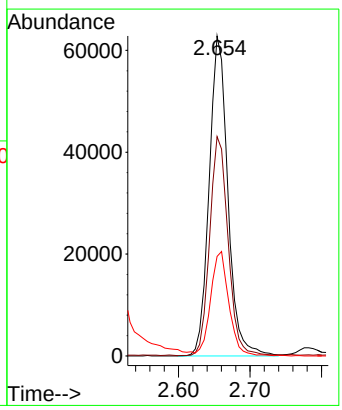


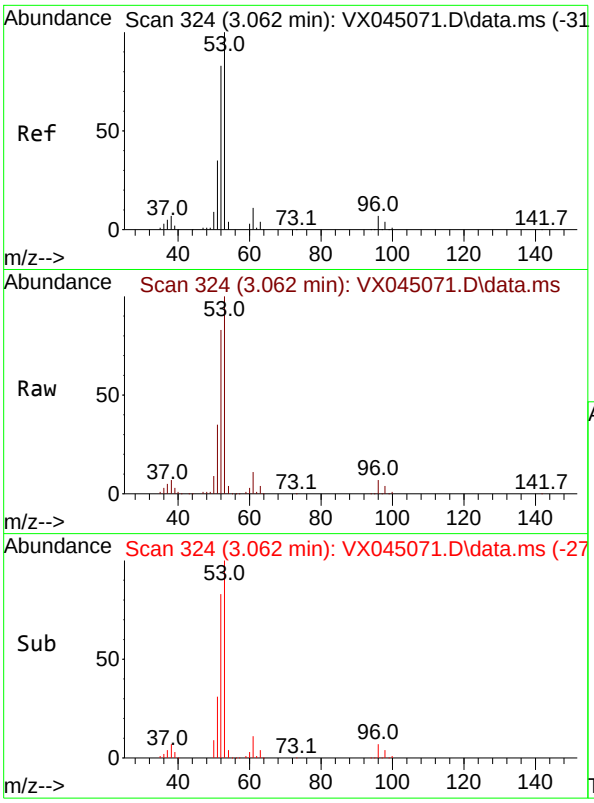


#14
Allyl chloride
Concen: 47.875 ug/l
RT: 2.654 min Scan# 257
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 41 Resp: 114313

Ion	Ratio	Lower	Upper
41	100		
39	67.3	53.8	80.8
76	31.5	25.2	37.8





#15
Acrylonitrile
Concen: 278.519 ug/l
RT: 3.062 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

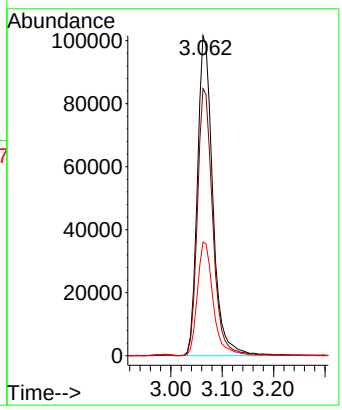
Tgt Ion: 53 Resp: 21145

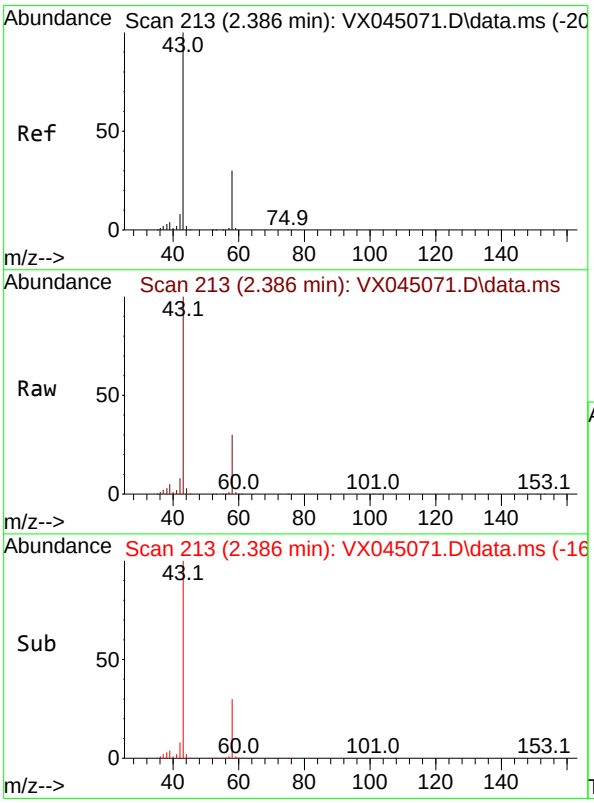
Ion	Ratio	Lower	Upper
53	100		
52	82.7	66.2	99.2
51	36.2	29.0	43.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

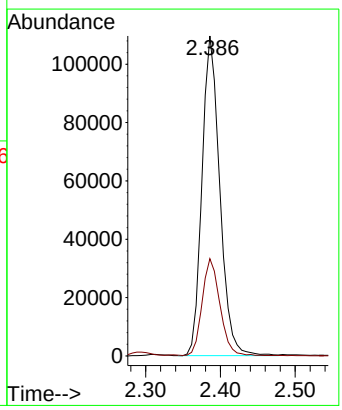


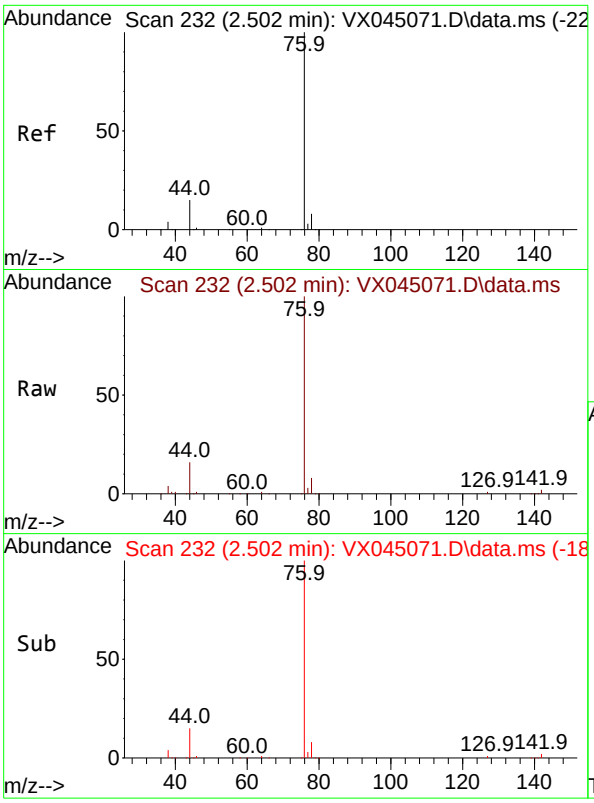


#16
Acetone
Concen: 289.130 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 43 Resp: 181429

Ion	Ratio	Lower	Upper
43	100		
58	30.3	24.2	36.4





#17
Carbon Disulfide
Concen: 47.419 ug/l
RT: 2.502 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 76 Resp: 17135

Ion	Ratio	Lower	Upper
76	100		
78	8.2	6.6	9.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
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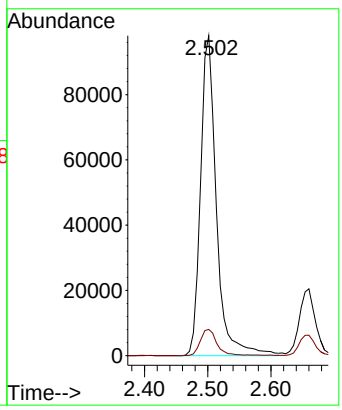
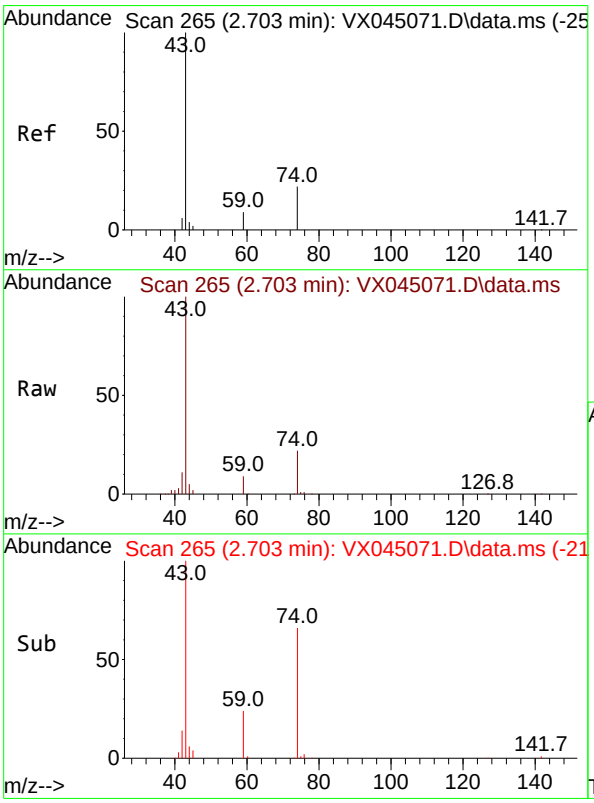
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

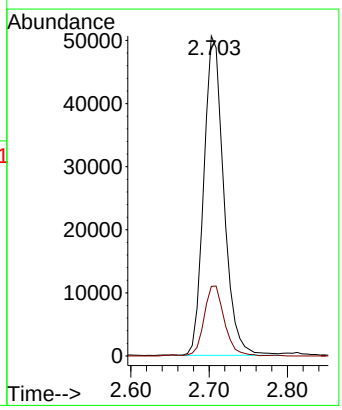


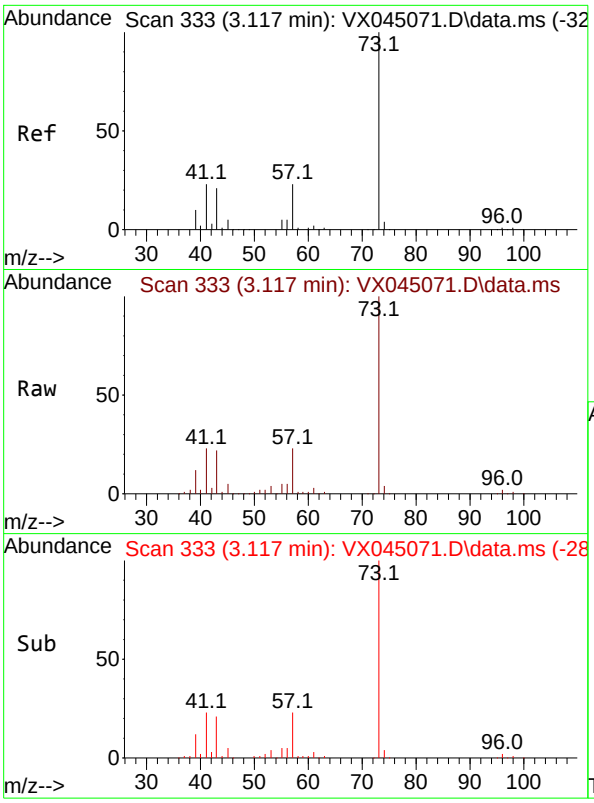


#18
Methyl Acetate
Concen: 47.359 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 43 Resp: 89508

Ion	Ratio	Lower	Upper
43	100		
74	21.8	17.4	26.2





#19
Methyl tert-butyl Ether
Concen: 50.642 ug/l
RT: 3.117 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 73 Resp: 21504

Ion	Ratio	Lower	Upper
73	100		
57	23.1	18.5	27.7

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
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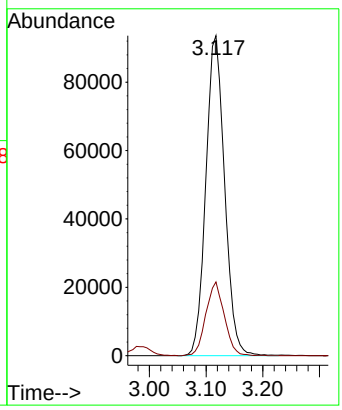
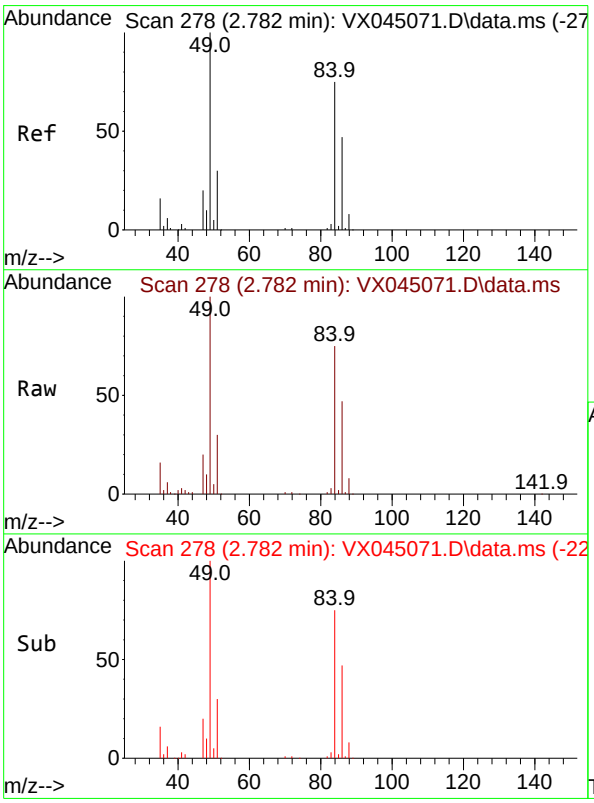
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

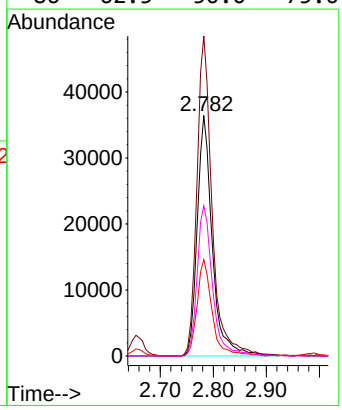


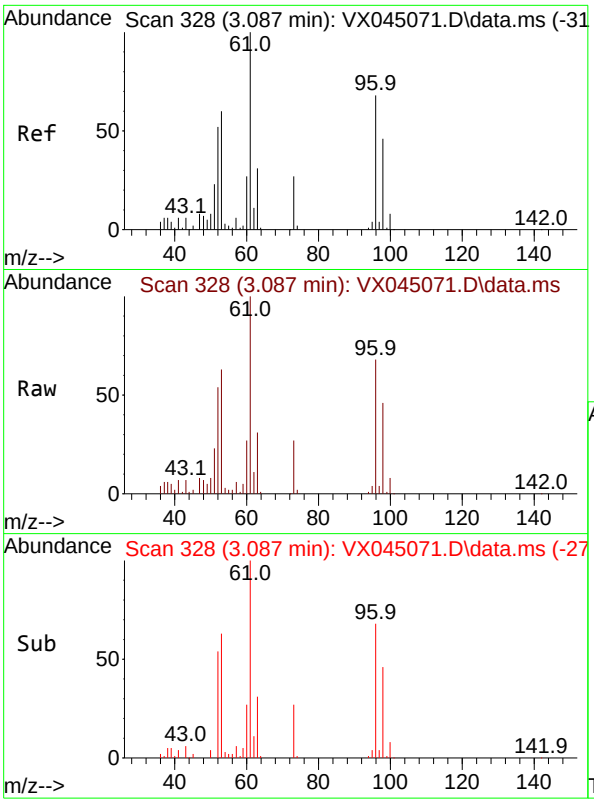


#20
Methylene Chloride
Concen: 48.500 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 84 Resp: 72081

Ion	Ratio	Lower	Upper
84	100		
49	133.1	106.5	159.7
51	40.1	32.1	48.1
86	62.5	50.0	75.0





#21
trans-1,2-Dichloroethene
Concen: 49.832 ug/l
RT: 3.087 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 96 Resp: 6509

Ion	Ratio	Lower	Upper
96	100		
61	146.2	117.0	175.4
98	66.8	53.4	80.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
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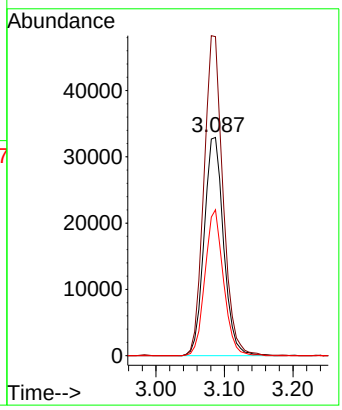
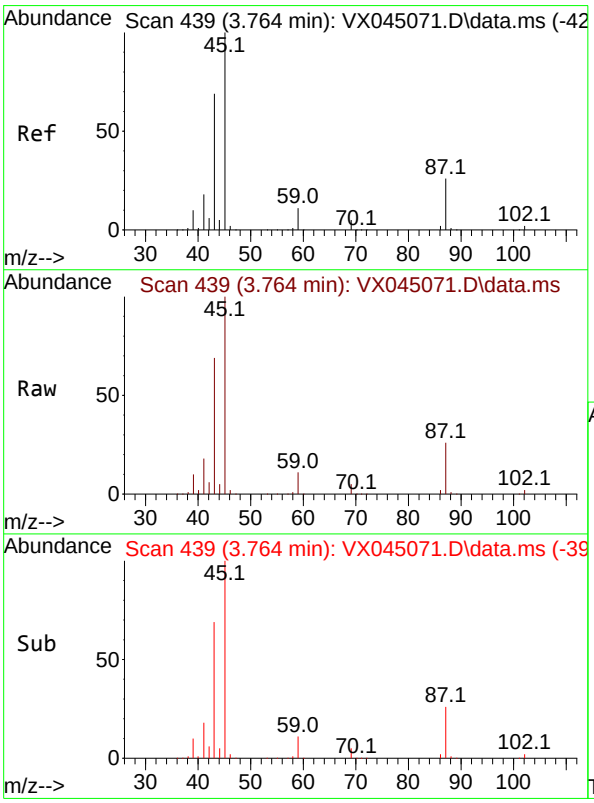
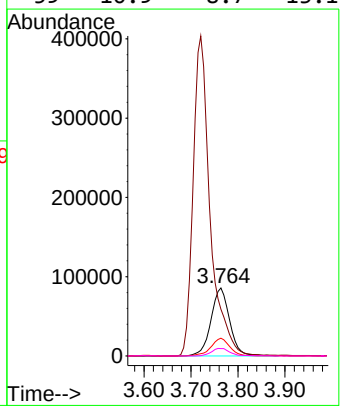


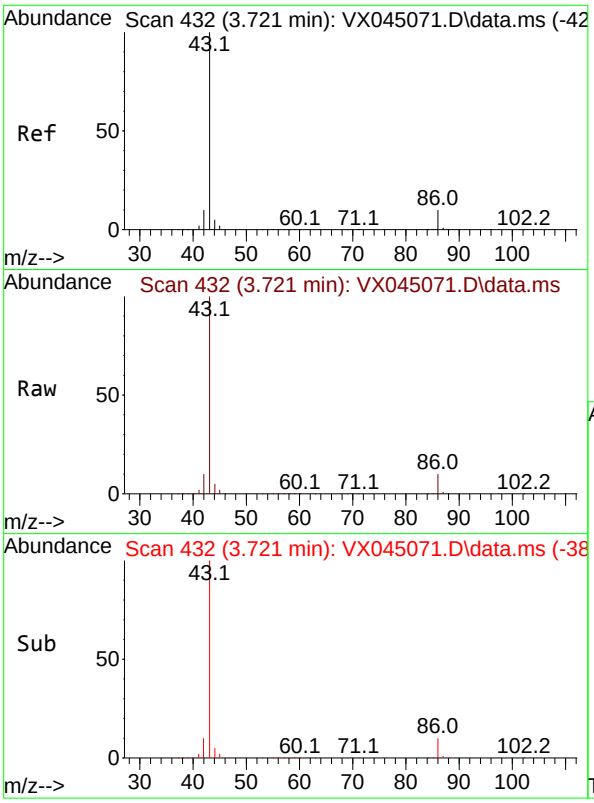


#22
Diisopropyl ether
Concen: 51.816 ug/l
RT: 3.764 min Scan# 439
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 45 Resp: 236563

Ion	Ratio	Lower	Upper
45	100		
43	68.6	54.9	82.3
87	26.2	21.0	31.4
59	10.9	8.7	13.1





#23
Vinyl Acetate
Concen: 271.773 ug/l
RT: 3.721 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 43 Resp: 101863

Ion	Ratio	Lower	Upper
43	100		
86	10.1	8.1	12.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
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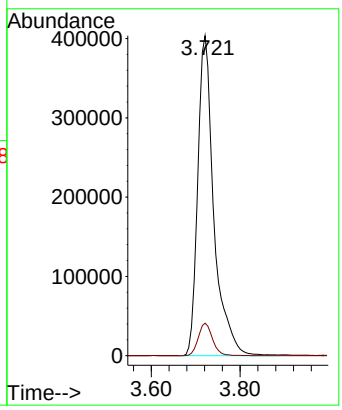
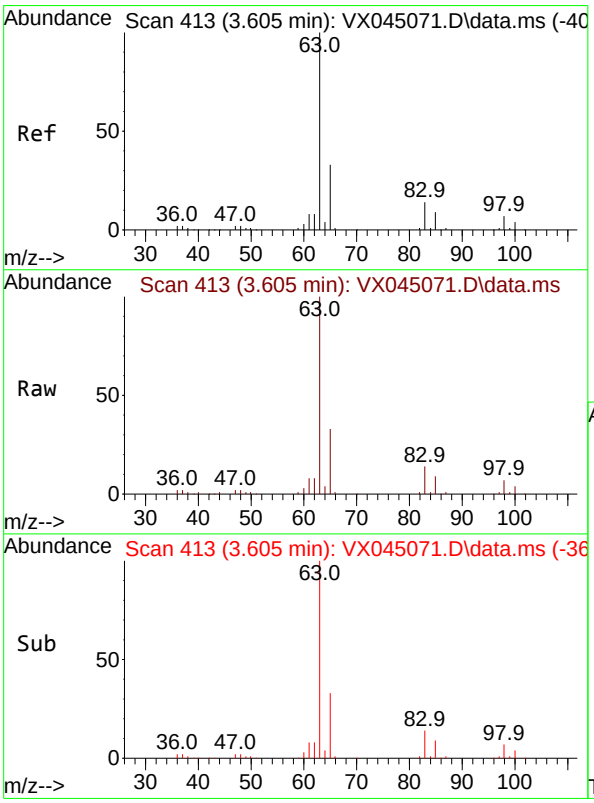
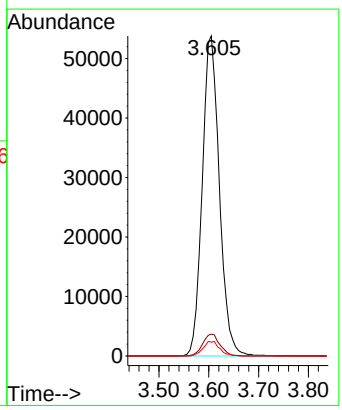


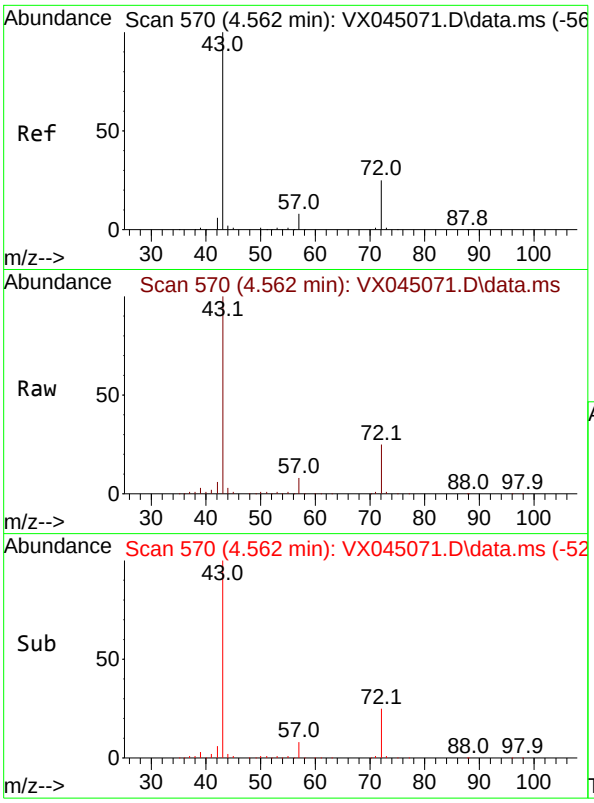


#24
1,1-Dichloroethane
Concen: 50.270 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 63 Resp: 128235

Ion	Ratio	Lower	Upper
63	100		
98	6.8	3.4	10.2
100	4.3	2.1	6.5





#25
2-Butanone
Concen: 295.330 ug/l
RT: 4.562 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 43 Resp: 29878

Ion	Ratio	Lower	Upper
43	100		
72	25.0	20.0	30.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
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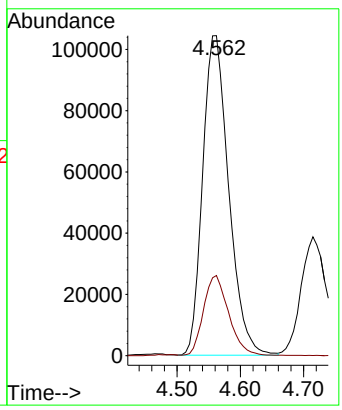
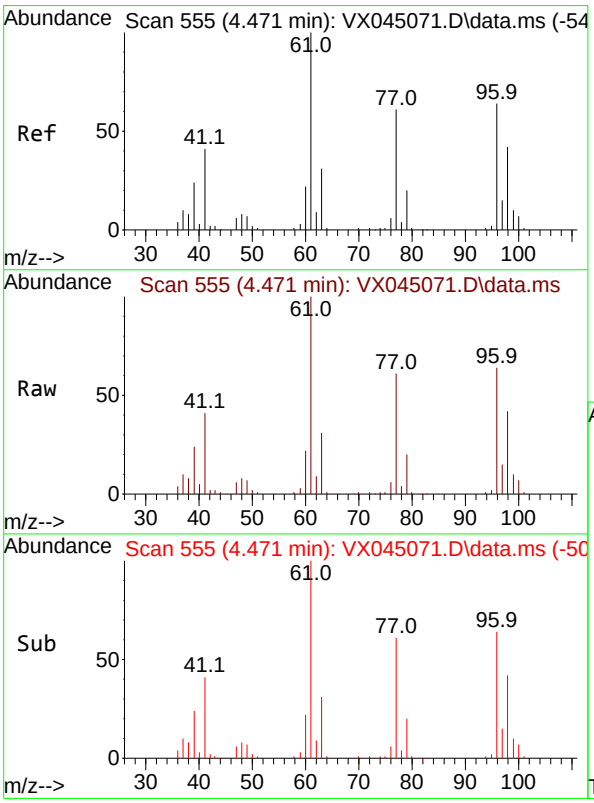
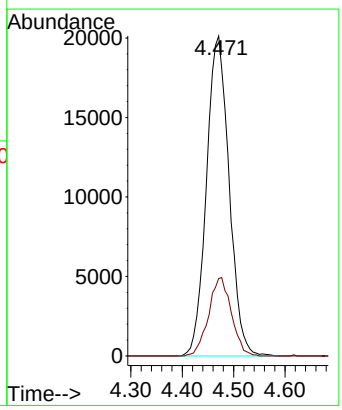


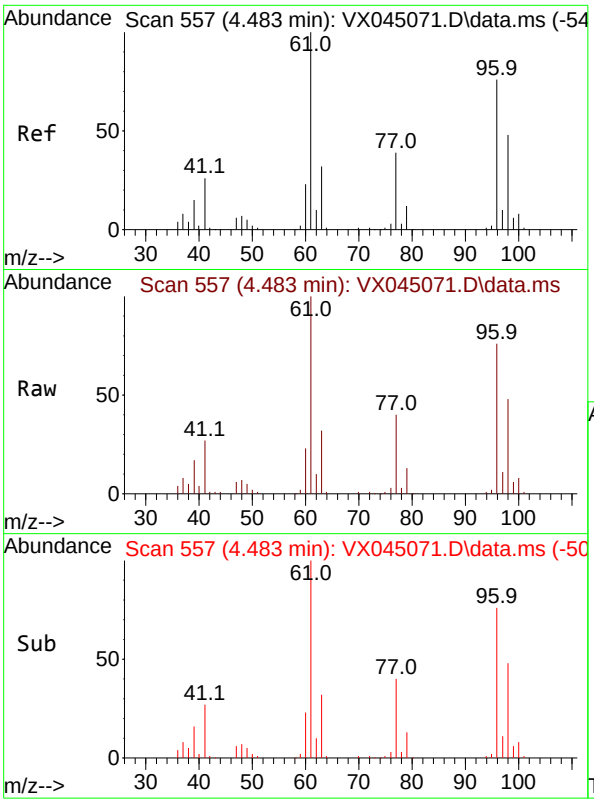


#26
2,2-Dichloropropane
Concen: 32.498 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 77 Resp: 61631

Ion	Ratio	Lower	Upper
77	100		
97	24.7	12.4	37.0





#27
cis-1,2-Dichloroethene
Concen: 49.955 ug/l
RT: 4.483 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 96 Resp: 7865

Ion	Ratio	Lower	Upper
96	100		
61	141.6	0.0	283.2
98	64.0	0.0	128.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
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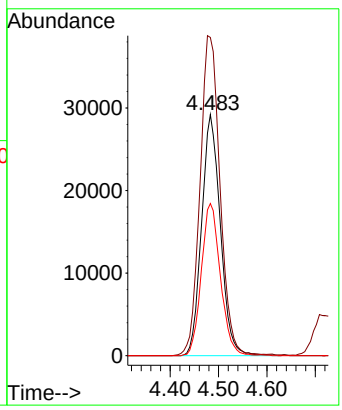
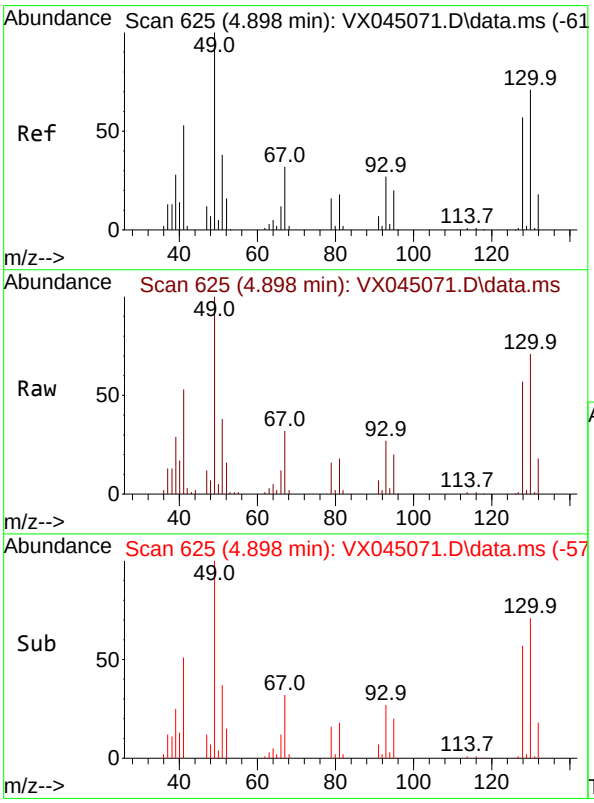
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

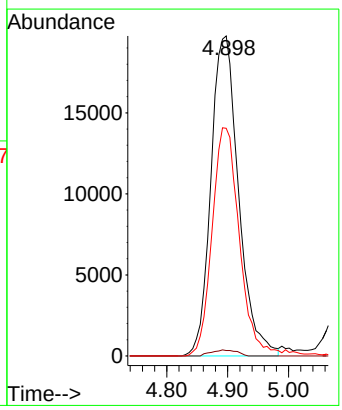


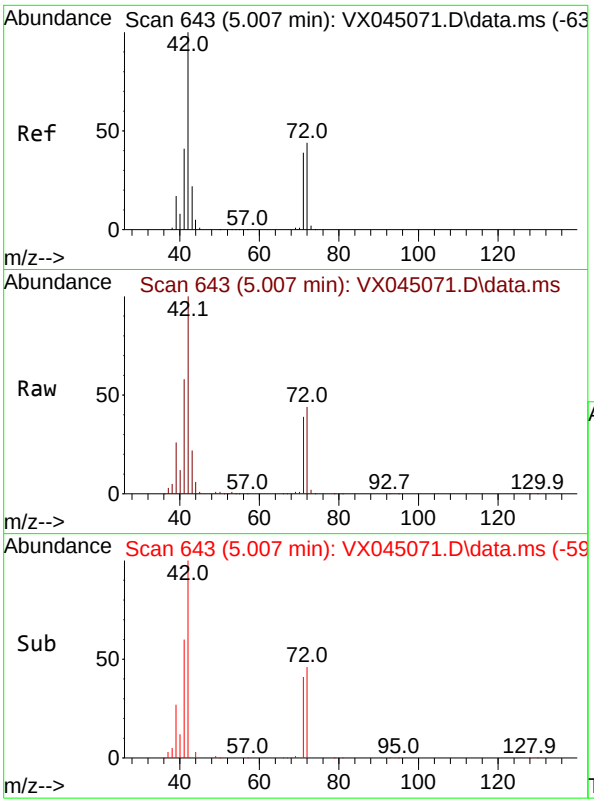


#28
Bromochloromethane
Concen: 50.643 ug/l
RT: 4.898 min Scan# 625
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 49 Resp: 62299

Ion	Ratio	Lower	Upper
49	100		
129	1.7	0.0	3.4
130	70.1	56.1	84.1





#29
Tetrahydrofuran
Concen: 287.345 ug/l
RT: 5.007 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 42 Resp: 19260

Ion	Ratio	Lower	Upper
42	100		
72	42.6	34.1	51.1
71	39.2	31.4	47.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
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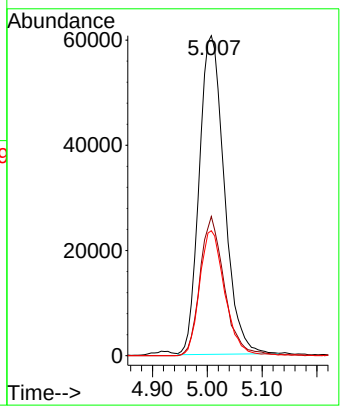
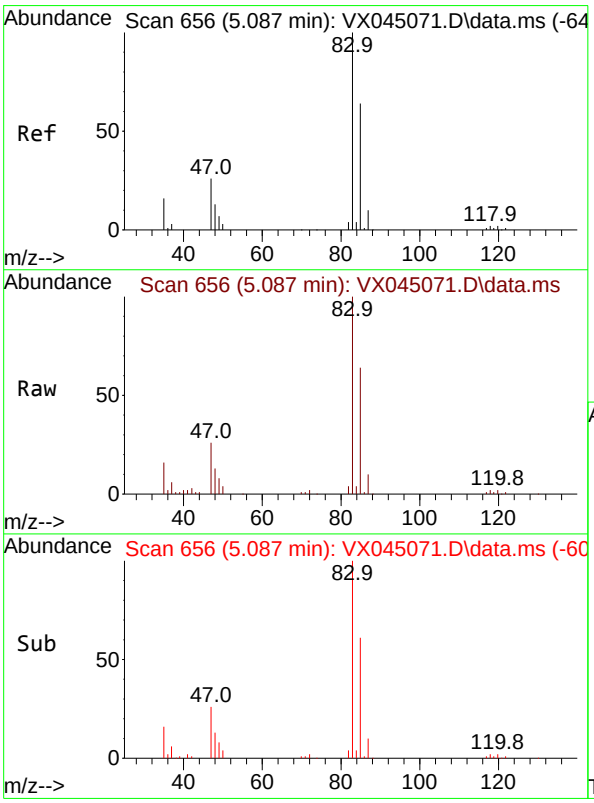
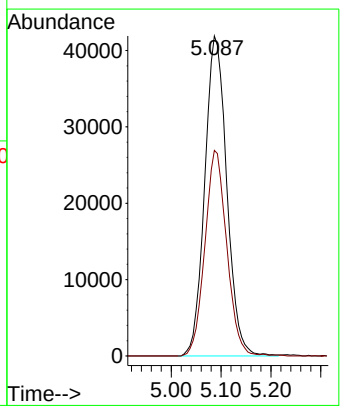


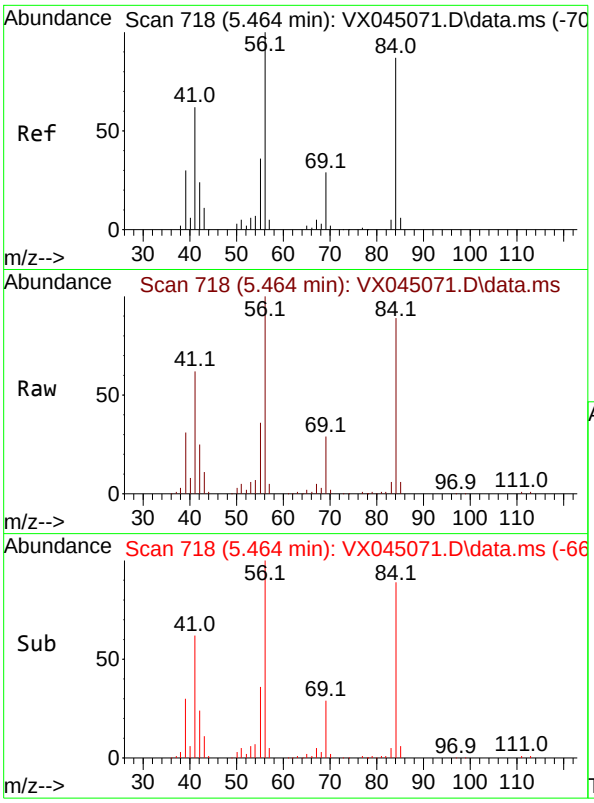


#30
Chloroform
Concen: 51.532 ug/l
RT: 5.087 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 83 Resp: 128581

Ion	Ratio	Lower	Upper
83	100		
85	64.3	51.4	77.2





#31
Cyclohexane
Concen: 48.836 ug/l
RT: 5.464 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 56 Resp: 11433

Ion	Ratio	Lower	Upper
56	100		
69	29.3	23.4	35.2
84	86.8	69.4	104.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
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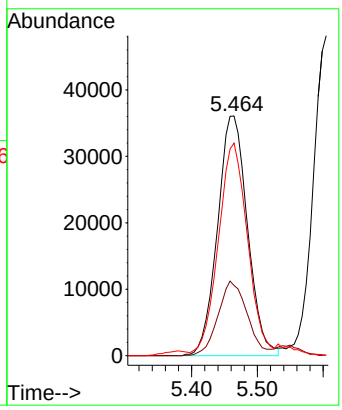
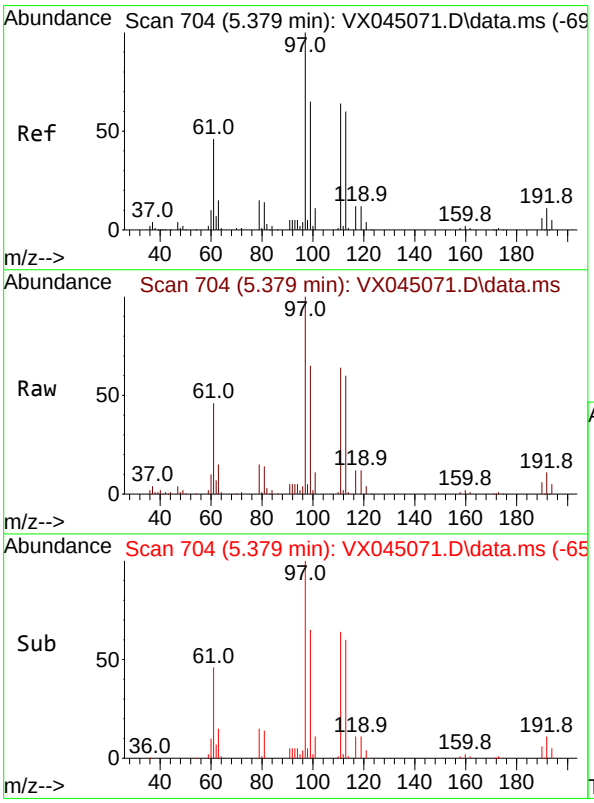
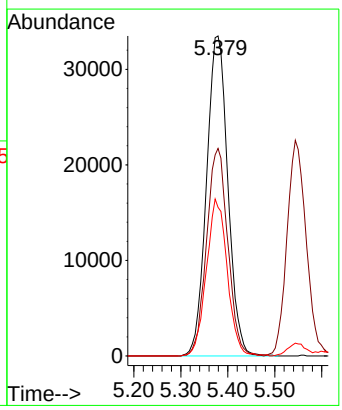


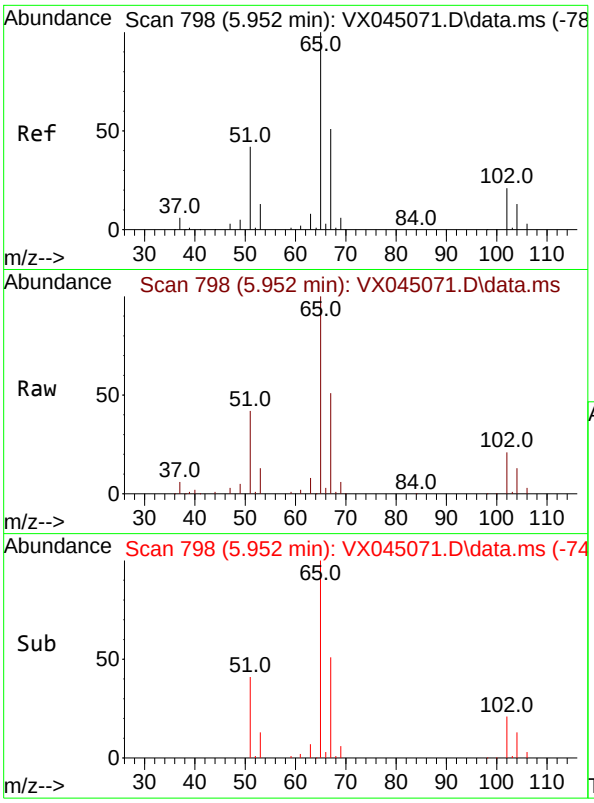


#32
1,1,1-Trichloroethane
Concen: 50.306 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 97 Resp: 105671

Ion	Ratio	Lower	Upper
97	100		
99	64.5	51.6	77.4
61	48.0	38.4	57.6





#33
1,2-Dichloroethane-d4
Concen: 51.250 ug/l
RT: 5.952 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 65 Resp: 7815

Ion	Ratio	Lower	Upper
65	100		
67	53.1	0.0	106.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
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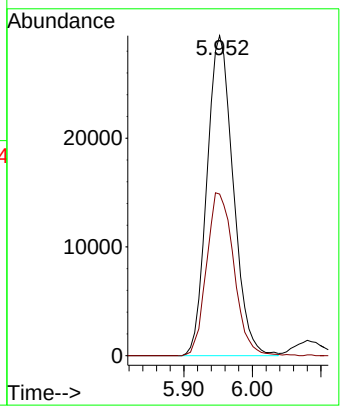
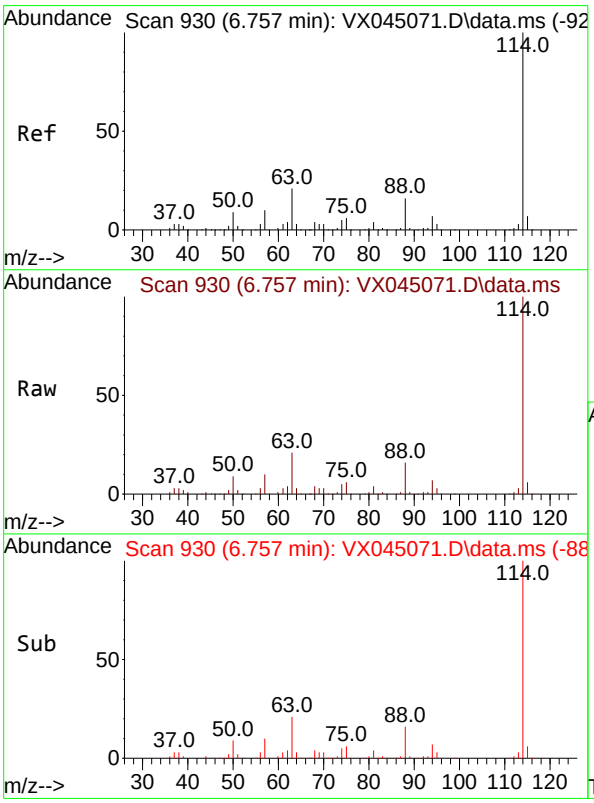
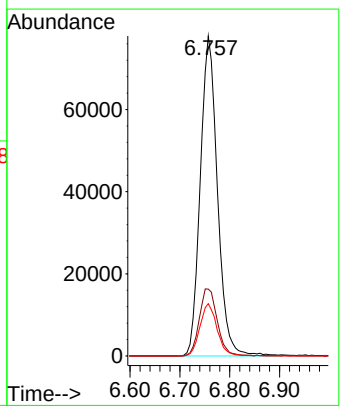


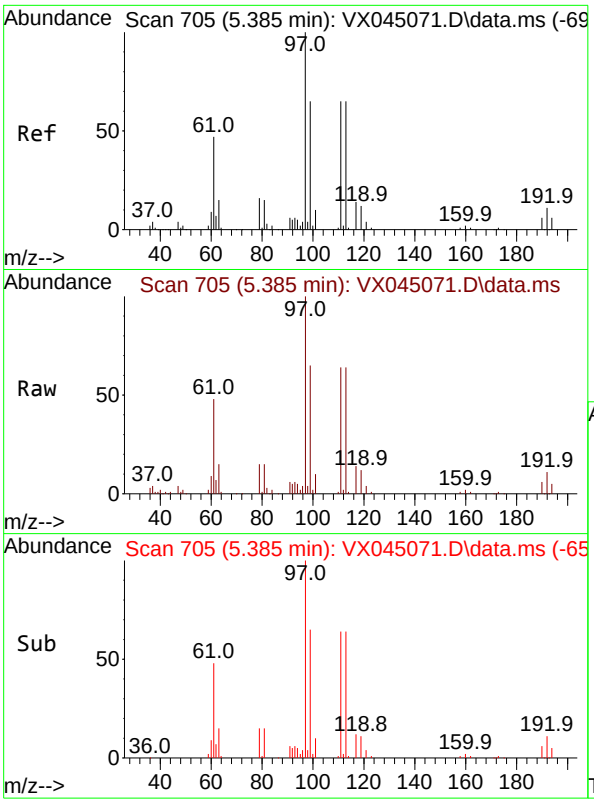


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion:114 Resp: 186358

Ion	Ratio	Lower	Upper
114	100		
63	20.9	0.0	41.8
88	16.4	0.0	32.8





#35
Dibromofluoromethane
Concen: 50.346 ug/l
RT: 5.385 min Scan# 7(
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion:113 Resp: 6132

Ion	Ratio	Lower	Upper
113	100		
111	102.2	81.8	122.6
192	17.9	14.3	21.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
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Reviewed By :John Carlone 02/28/2025
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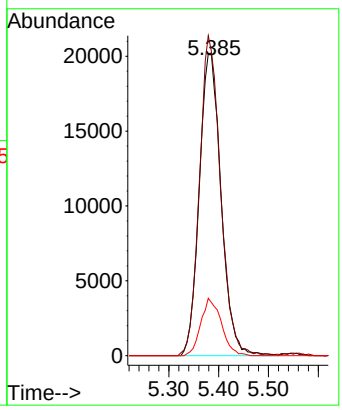
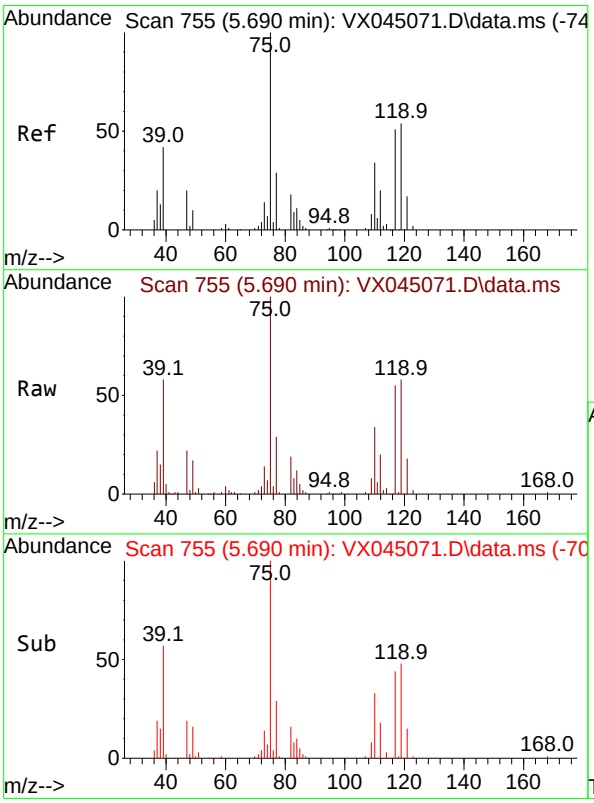
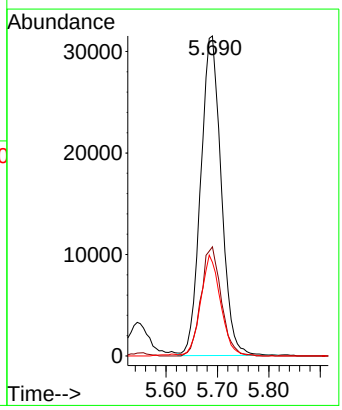


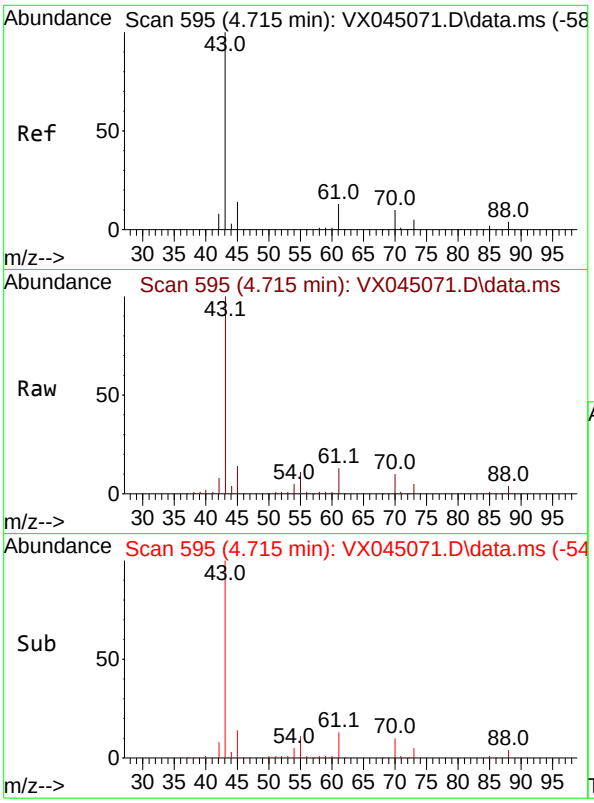


#36
1,1-Dichloropropene
Concen: 49.861 ug/l
RT: 5.690 min Scan# 755
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 75 Resp: 87338

Ion	Ratio	Lower	Upper
75	100		
110	33.7	16.9	50.6
77	30.6	24.5	36.7





#37
Ethyl Acetate
Concen: 56.641 ug/l
RT: 4.715 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 43 Resp: 11289

Ion	Ratio	Lower	Upper
43	100		
61	13.5	10.8	16.2
70	9.6	7.7	11.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
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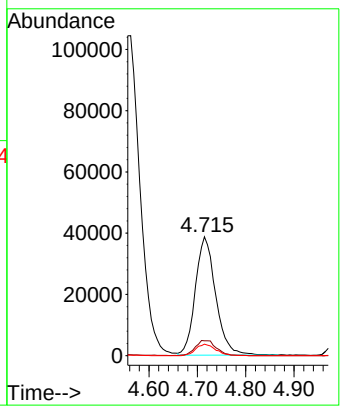
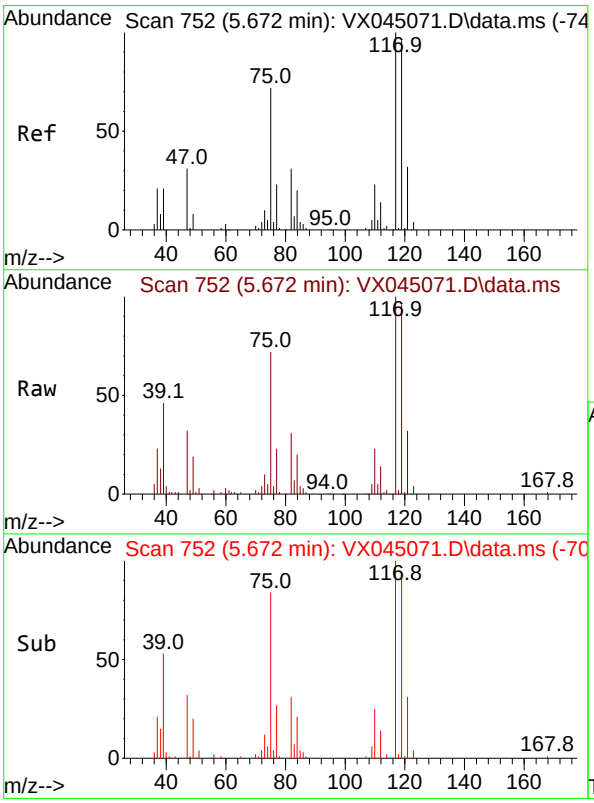
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

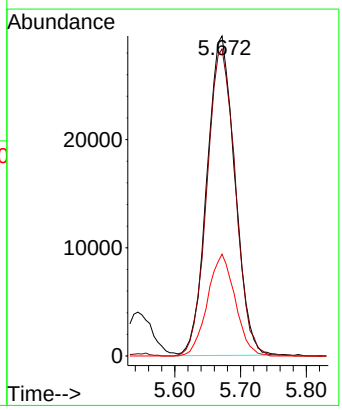


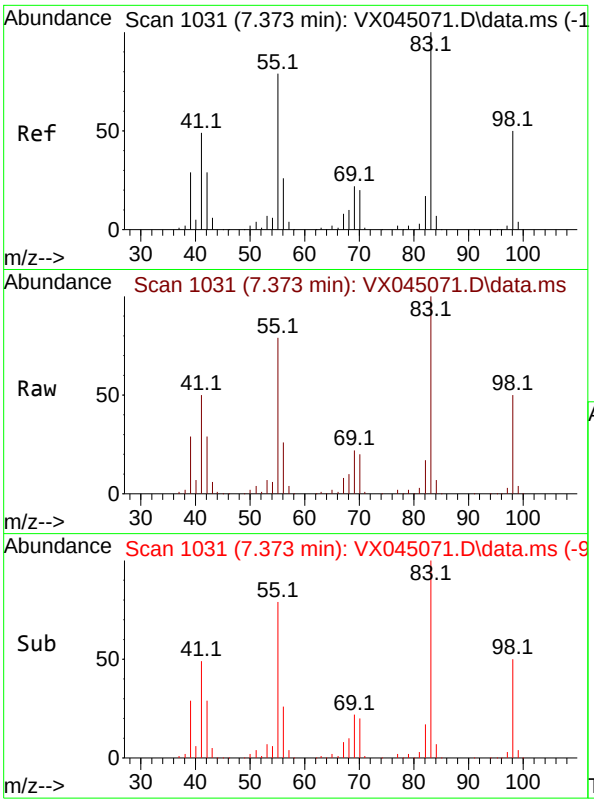


#38
Carbon Tetrachloride
Concen: 50.593 ug/l
RT: 5.672 min Scan# 752
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion:117 Resp: 87123

Ion	Ratio	Lower	Upper
117	100		
119	95.9	76.7	115.1
121	31.9	25.5	38.3





#39
Methylcyclohexane
Concen: 48.715 ug/l
RT: 7.373 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 83 Resp: 10897

Ion	Ratio	Lower	Upper
83	100		
55	78.7	63.0	94.4
98	49.6	39.7	59.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
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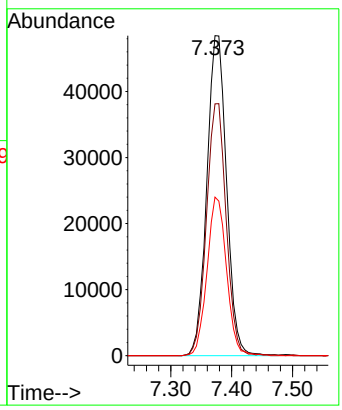
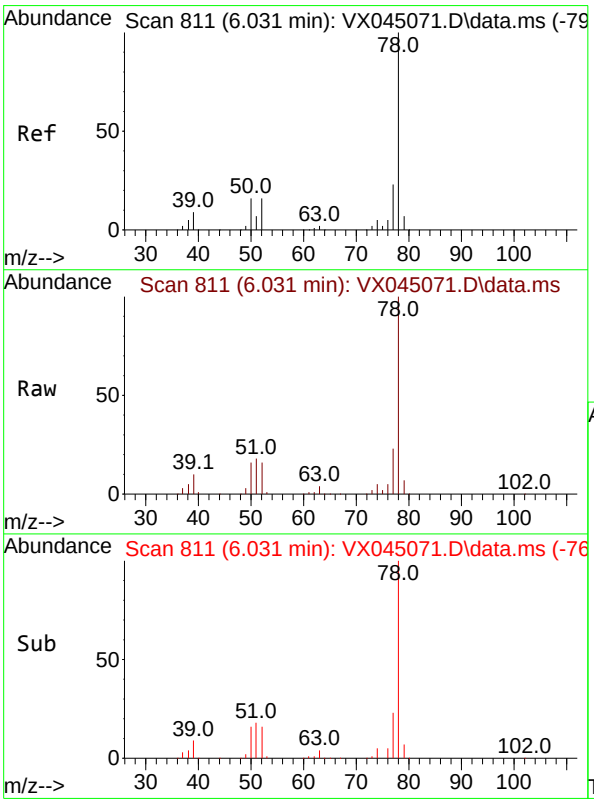
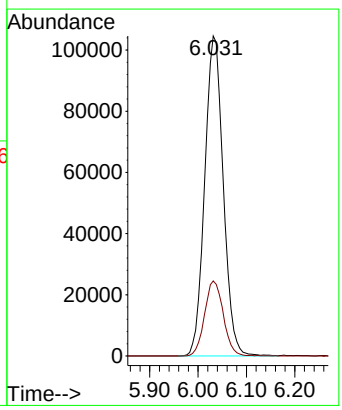


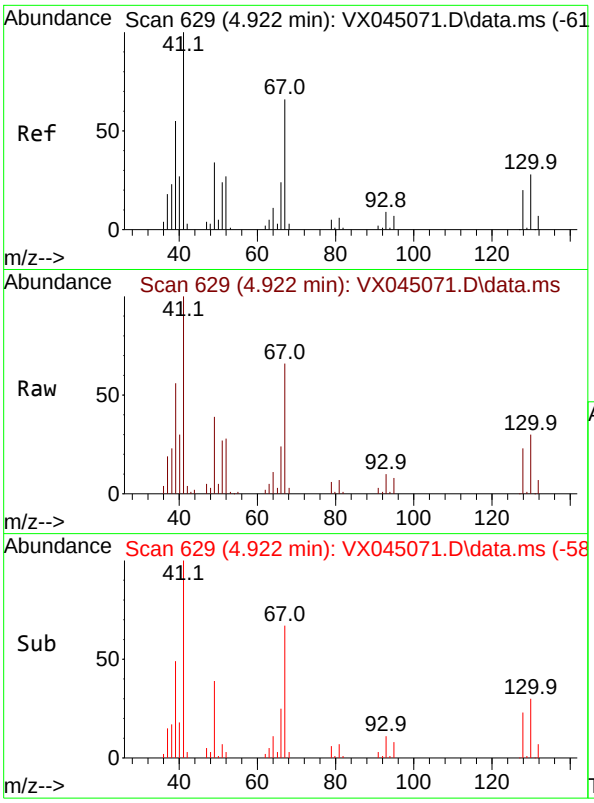


#40
Benzene
Concen: 50.925 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 78 Resp: 278802

Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.8	28.2

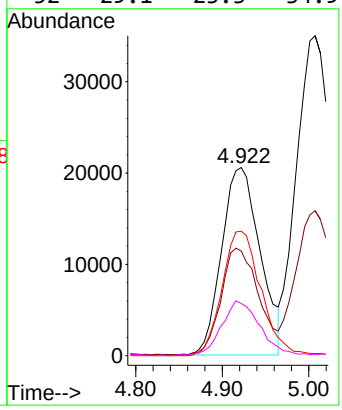




#41
Methacrylonitrile
Concen: 59.598 ug/l
RT: 4.922 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 41 Resp: 6345

Ion	Ratio	Lower	Upper
41	100		
39	55.8	44.6	67.0
67	67.4	53.9	80.9
52	29.1	23.3	34.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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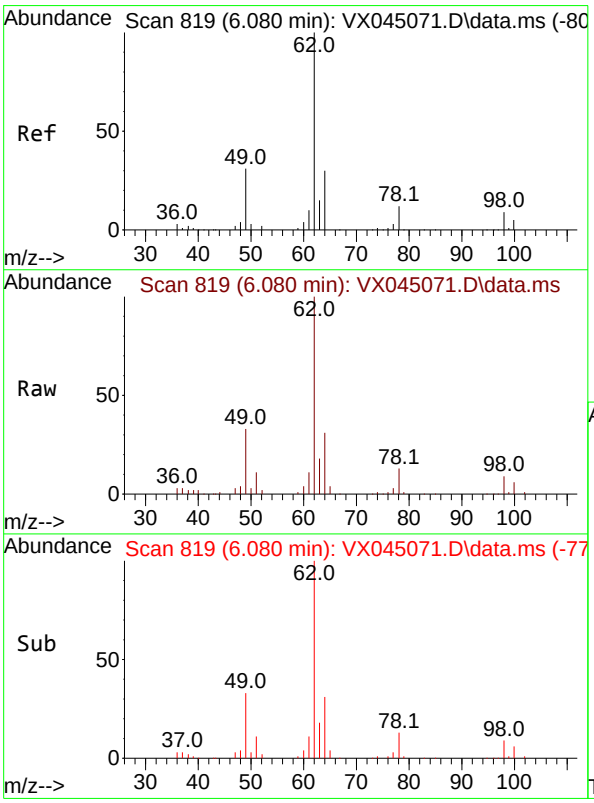
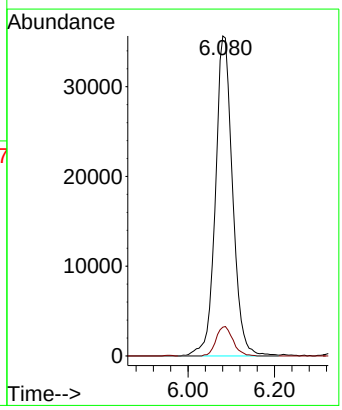
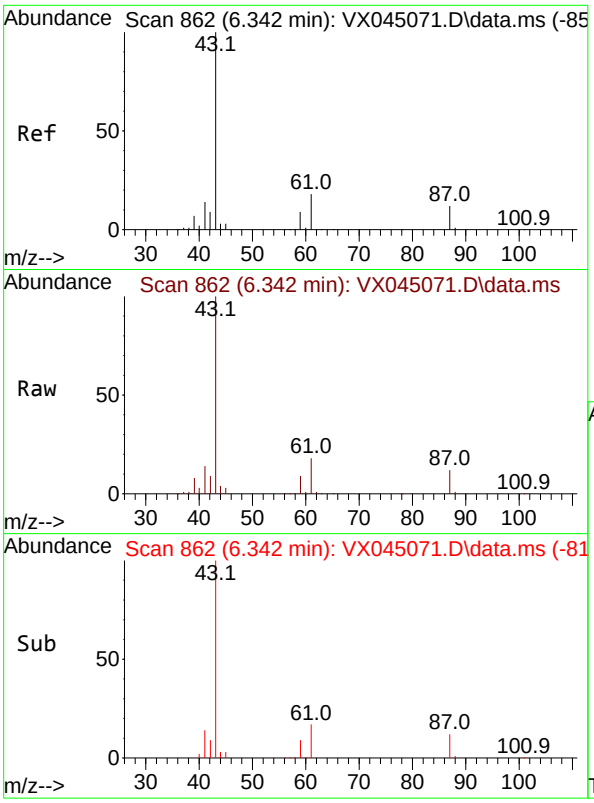


#42
1,2-Dichloroethane
Concen: 55.428 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 62 Resp: 98340

Ion	Ratio	Lower	Upper
62	100		
98	9.1	0.0	18.2





#43
Isopropyl Acetate
Concen: 54.544 ug/l
RT: 6.342 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 43 Resp: 17304

Ion	Ratio	Lower	Upper
43	100		
61	18.6	14.9	22.3
87	11.8	9.4	14.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 02/28/2025
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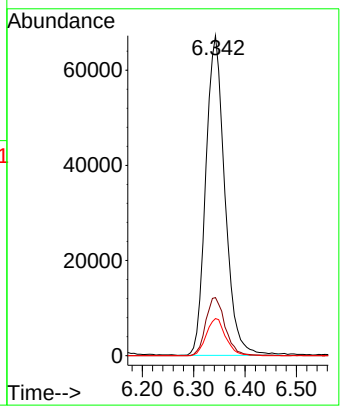
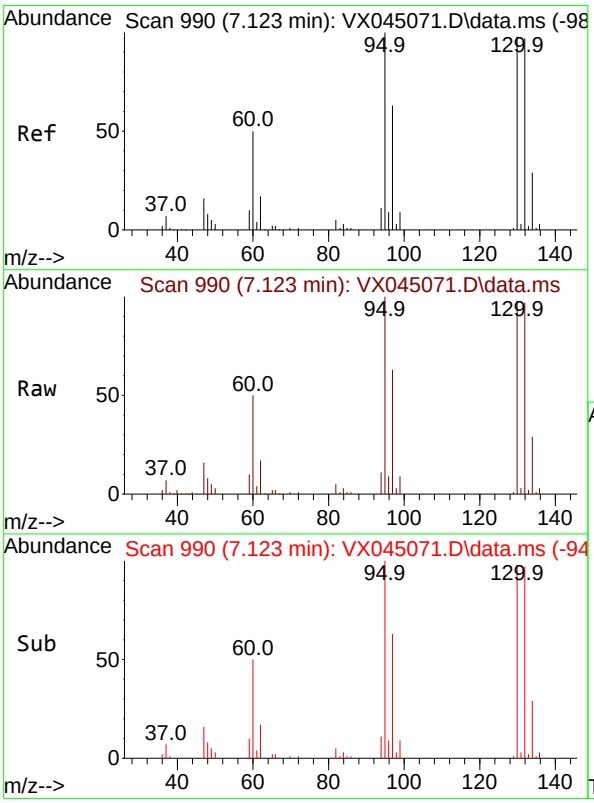
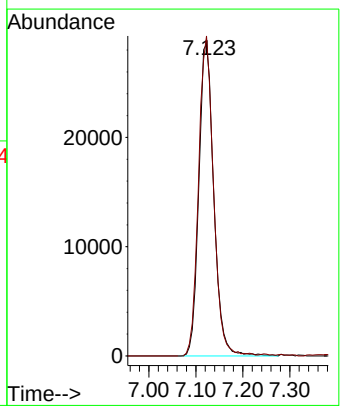


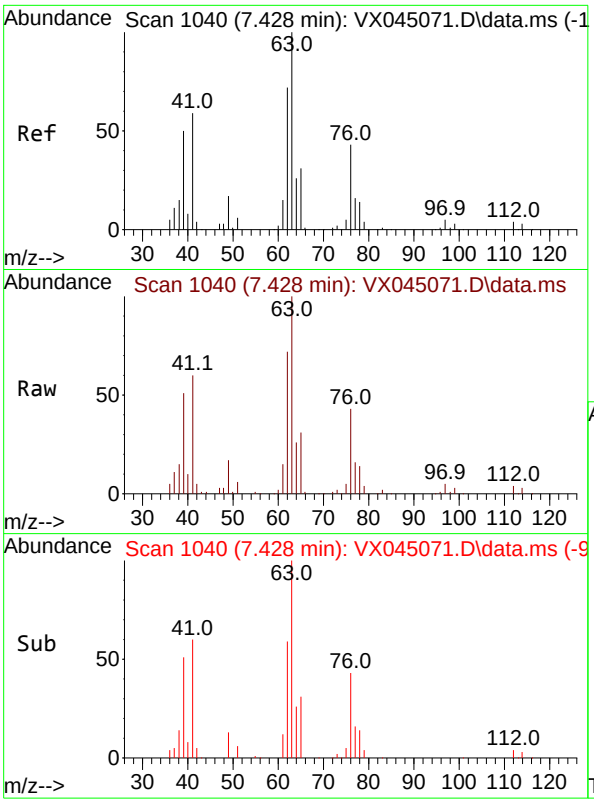


#44
Trichloroethene
Concen: 50.756 ug/l
RT: 7.123 min Scan# 990
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion:130 Resp: 63513

Ion	Ratio	Lower	Upper
130	100		
95	102.5	0.0	205.0





#45
1,2-Dichloropropane
Concen: 50.808 ug/l
RT: 7.428 min Scan# 1(
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 63 Resp: 6912

Ion	Ratio	Lower	Upper
63	100		
65	30.9	24.7	37.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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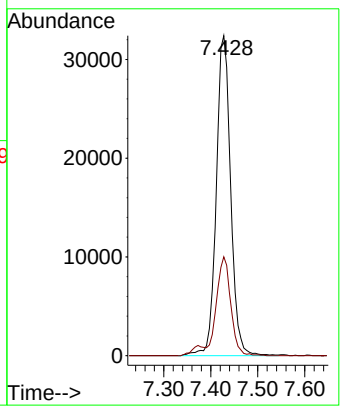
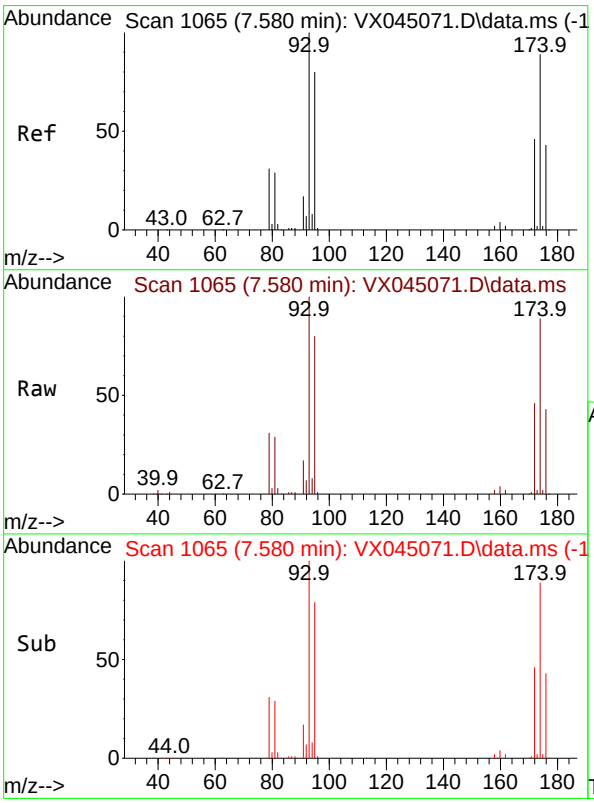
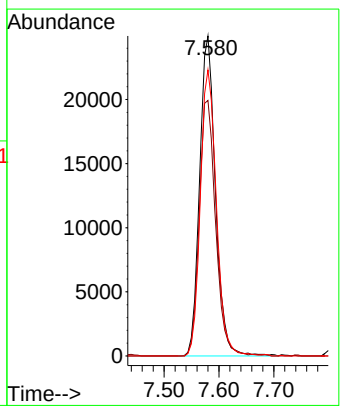


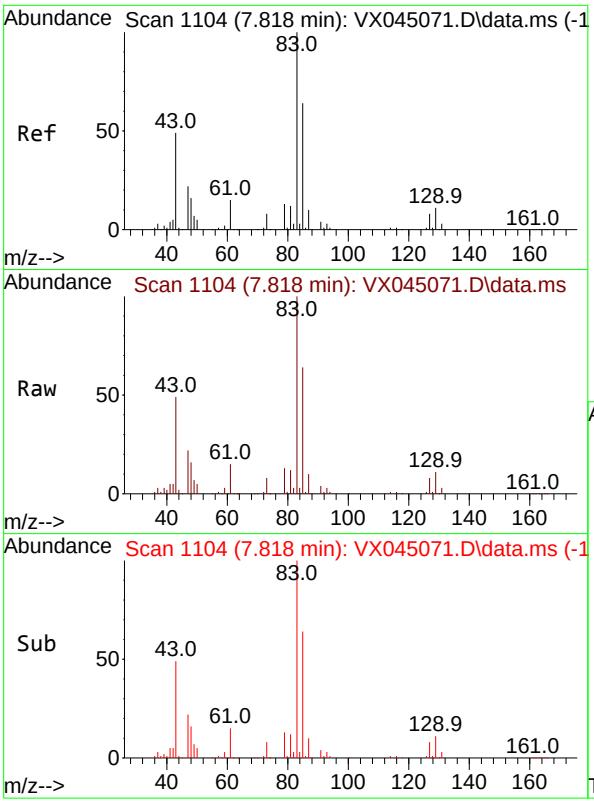


#46
Dibromomethane
Concen: 52.757 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 93 Resp: 50143

Ion	Ratio	Lower	Upper
93	100		
95	82.3	65.8	98.8
174	90.2	72.2	108.2





#47
Bromodichloromethane
Concen: 53.153 ug/l
RT: 7.818 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 83 Resp: 9772

Ion	Ratio	Lower	Upper
83	100		
85	63.9	51.1	76.7
127	8.0	6.4	9.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
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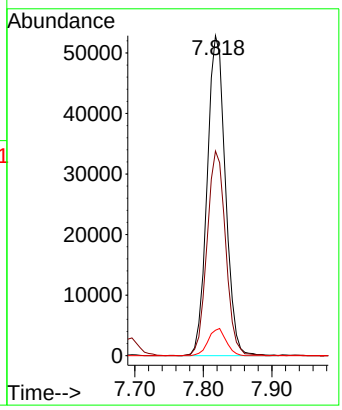
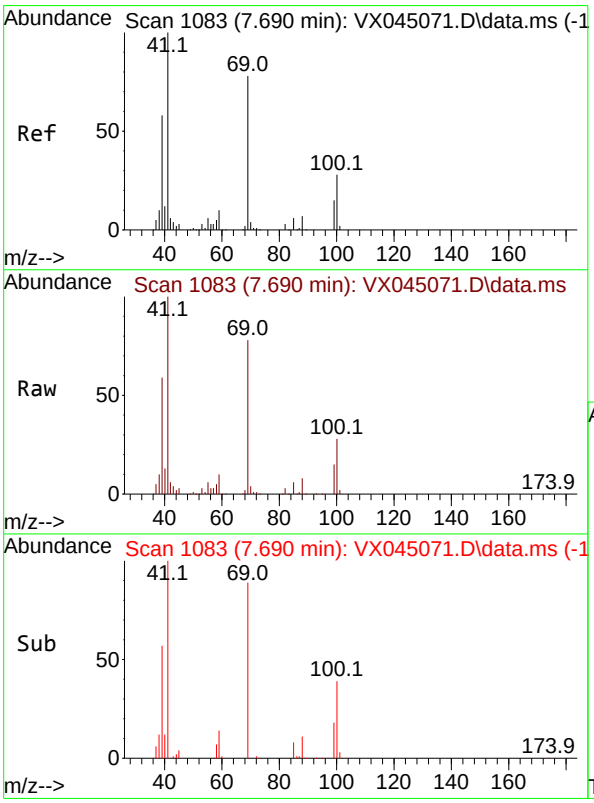
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

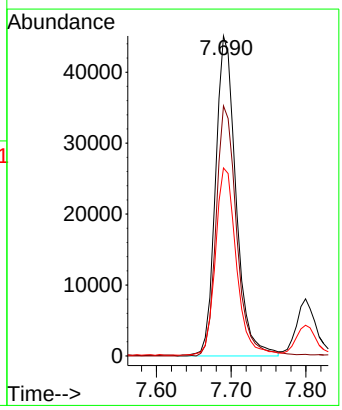


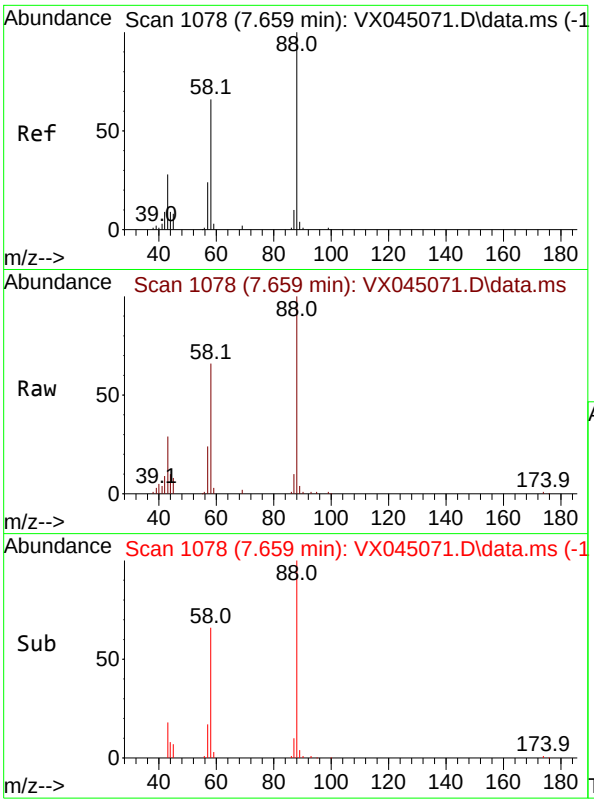


#48
Methyl methacrylate
Concen: 57.256 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 41 Resp: 86231

Ion	Ratio	Lower	Upper
41	100		
69	78.8	63.0	94.6
39	59.4	47.5	71.3





#49
1,4-Dioxane
Concen: 1095.003 ug/l
RT: 7.659 min Scan# 1(
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 88 Resp: 3505

Ion	Ratio	Lower	Upper
88	100		
43	35.9	28.7	43.1
58	69.8	55.8	83.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
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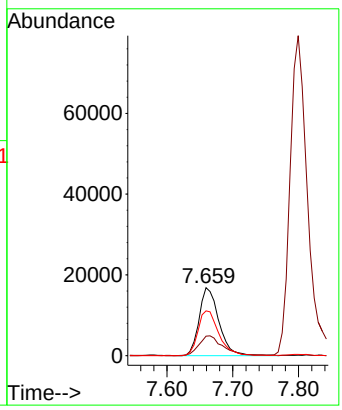
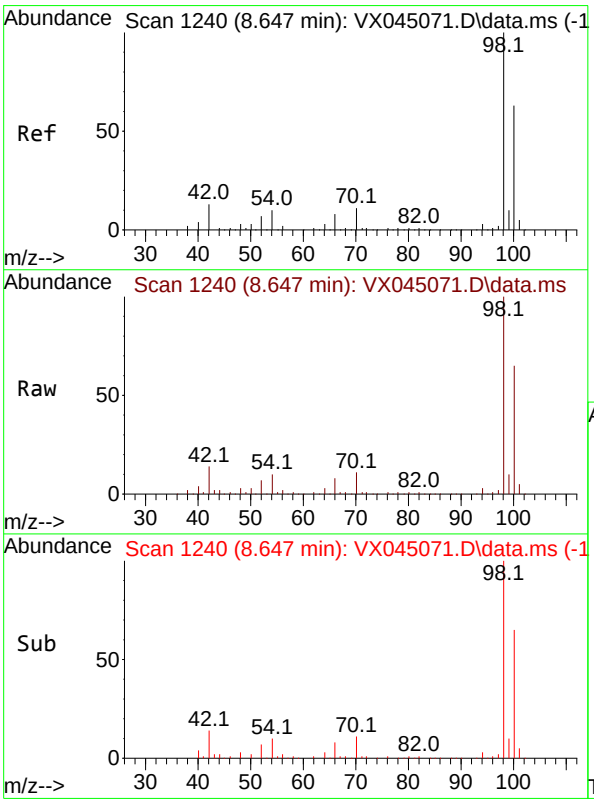
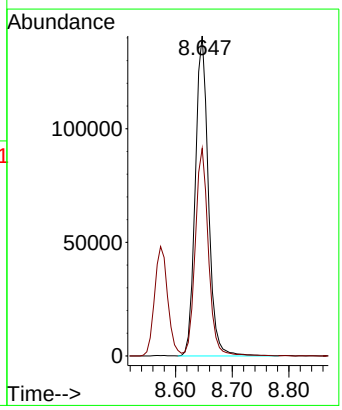


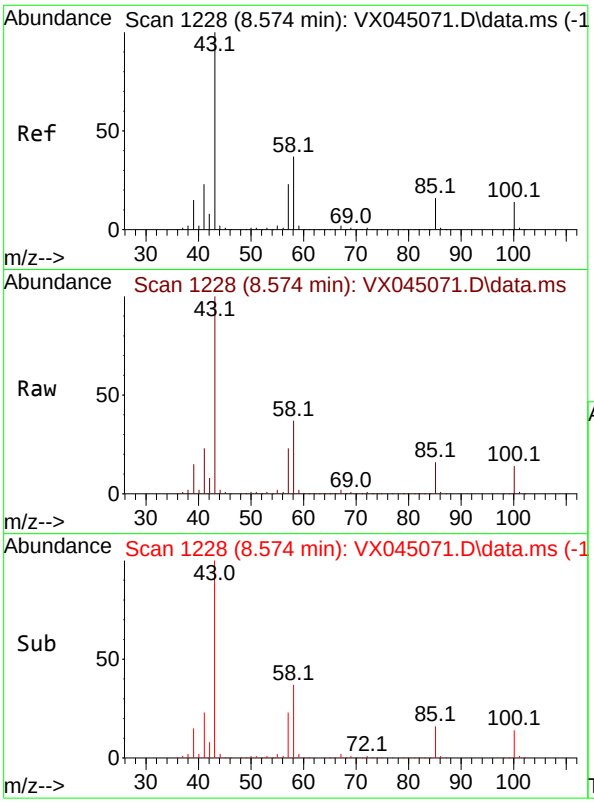


#50
Toluene-d8
Concen: 49.449 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 98 Resp: 225493

Ion	Ratio	Lower	Upper
98	100		
100	65.0	52.0	78.0





#51
4-Methyl-2-Pentanone
Concen: 292.570 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 43 Resp: 56873

Ion	Ratio	Lower	Upper
43	100		
58	36.5	29.2	43.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
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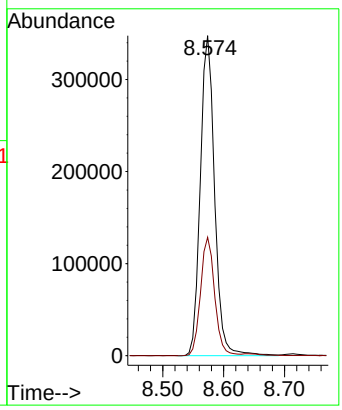
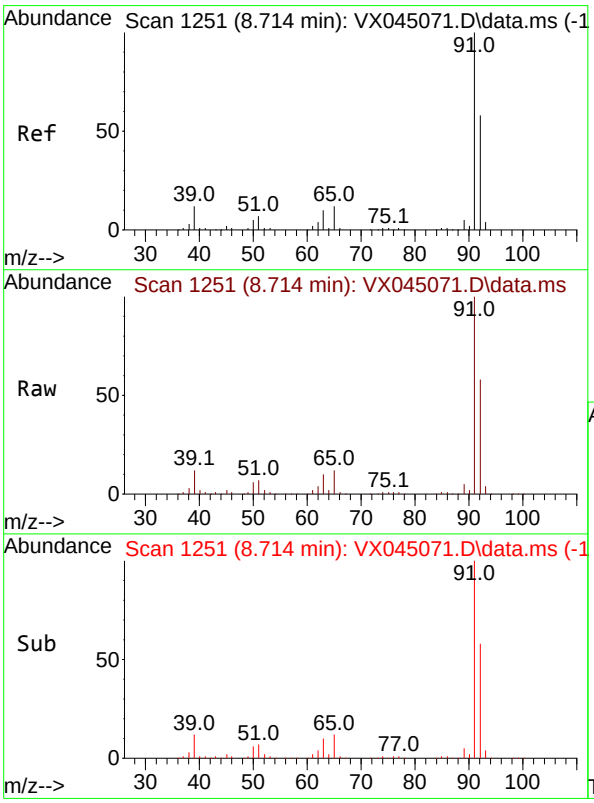
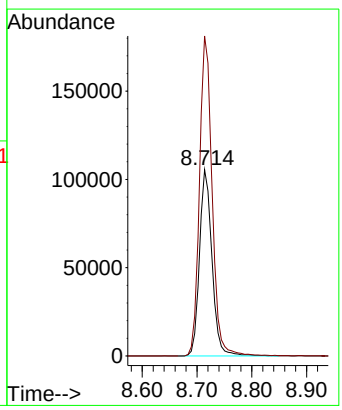


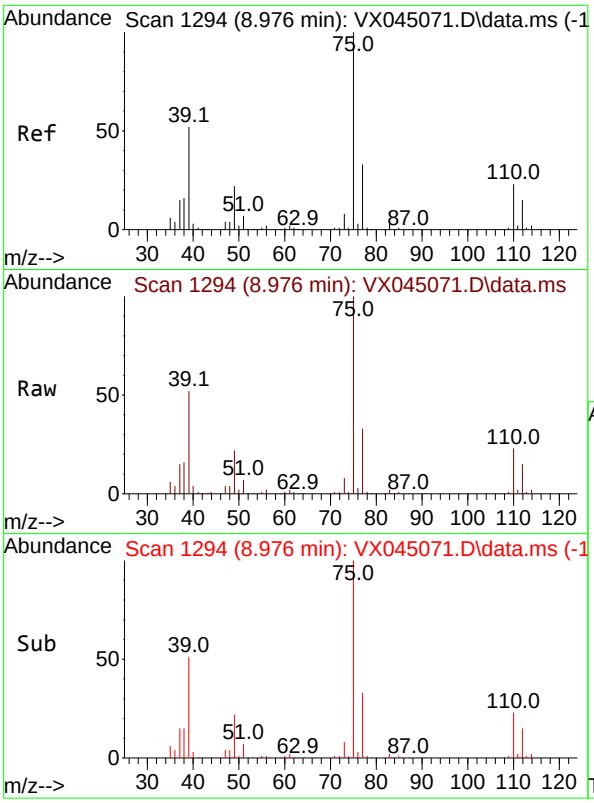


#52
Toluene
Concen: 51.505 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 92 Resp: 167431

Ion	Ratio	Lower	Upper
92	100		
91	173.6	138.9	208.3





#53
t-1,3-Dichloropropene
Concen: 48.078 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 75 Resp: 8737

Ion	Ratio	Lower	Upper
75	100		
77	33.1	26.5	39.7

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
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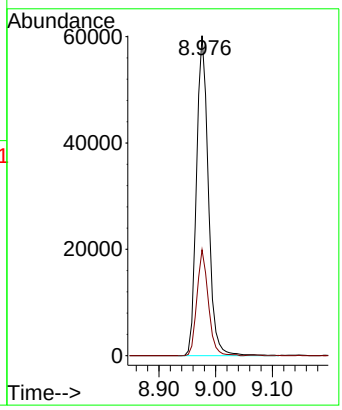
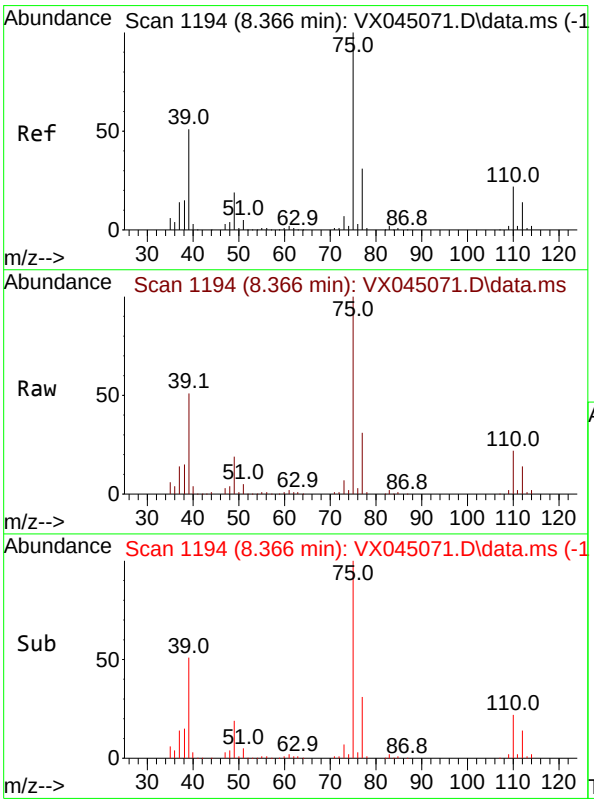
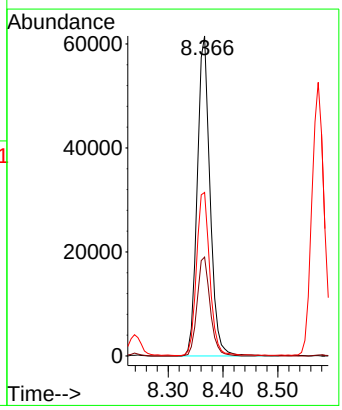


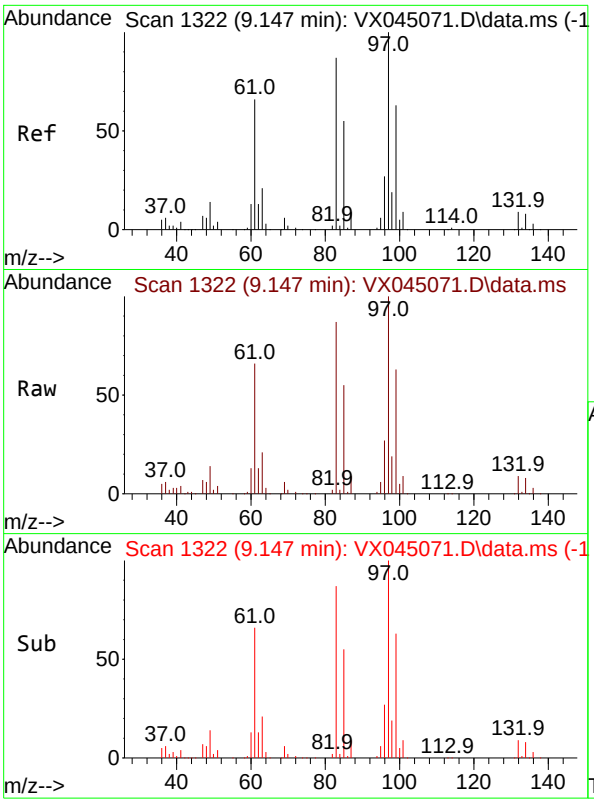


#54
cis-1,3-Dichloropropene
Concen: 49.079 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 75 Resp: 99713

Ion	Ratio	Lower	Upper
75	100		
77	30.9	24.7	37.1
39	50.9	40.7	61.1

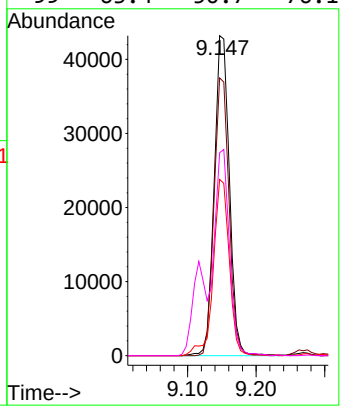




#55
1,1,2-Trichloroethane
Concen: 52.724 ug/l
RT: 9.147 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 97 Resp: 6637

Ion	Ratio	Lower	Upper
97	100		
83	86.8	69.4	104.2
85	55.1	44.1	66.1
99	63.4	50.7	76.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
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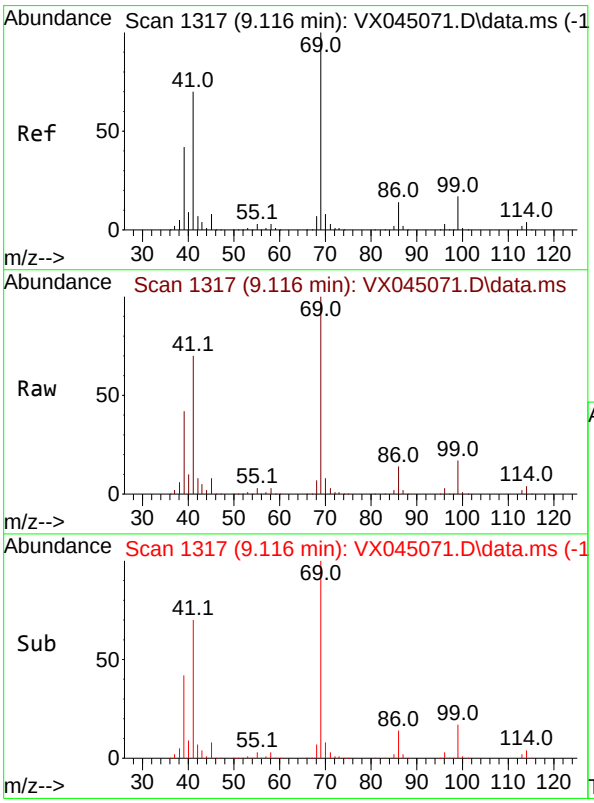
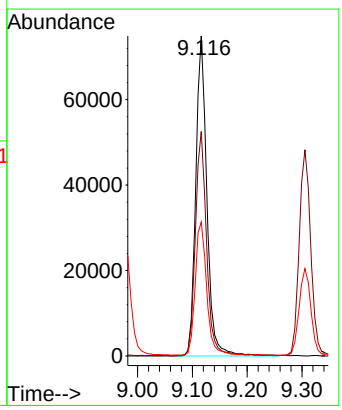
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

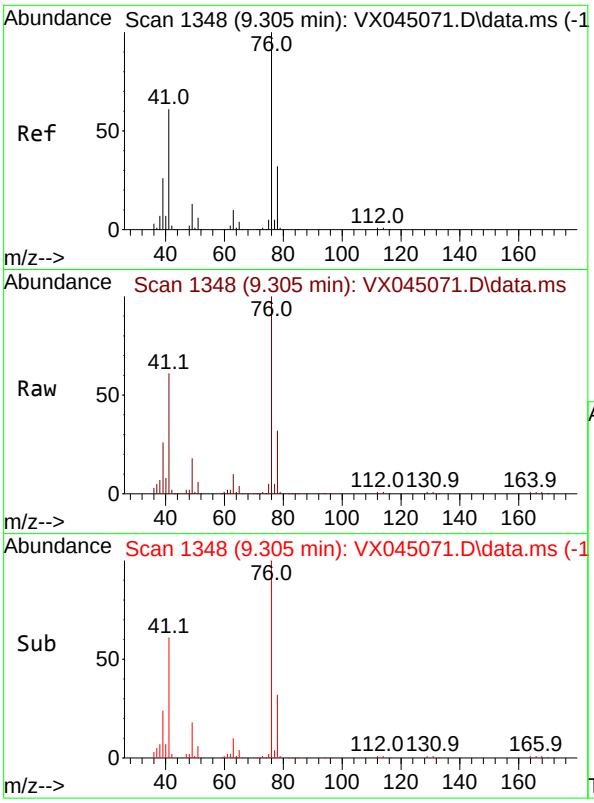


#56
Ethyl methacrylate
Concen: 52.724 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 69 Resp: 106157

Ion	Ratio	Lower	Upper
69	100		
41	71.2	57.0	85.4
39	42.8	34.2	51.4





#57
1,3-Dichloropropane
Concen: 52.594 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 76 Resp: 11548

Ion	Ratio	Lower	Upper
76	100		
78	31.9	25.5	38.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
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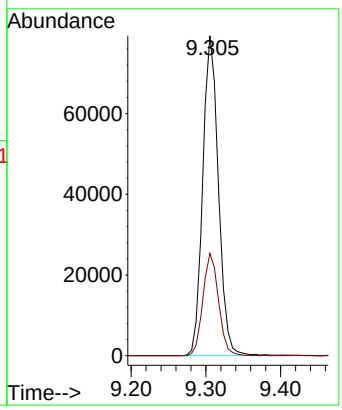
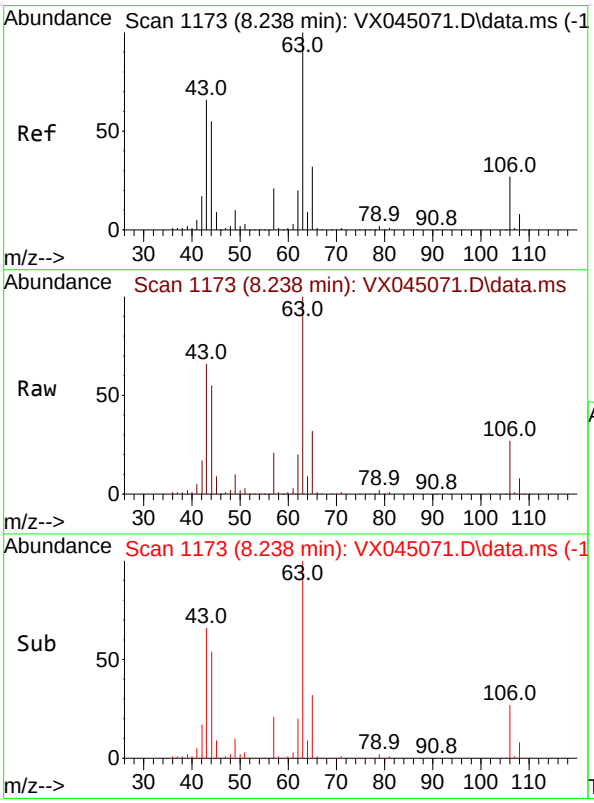
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

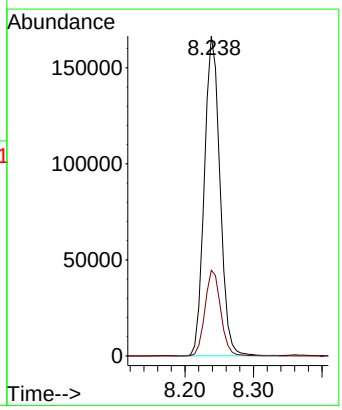


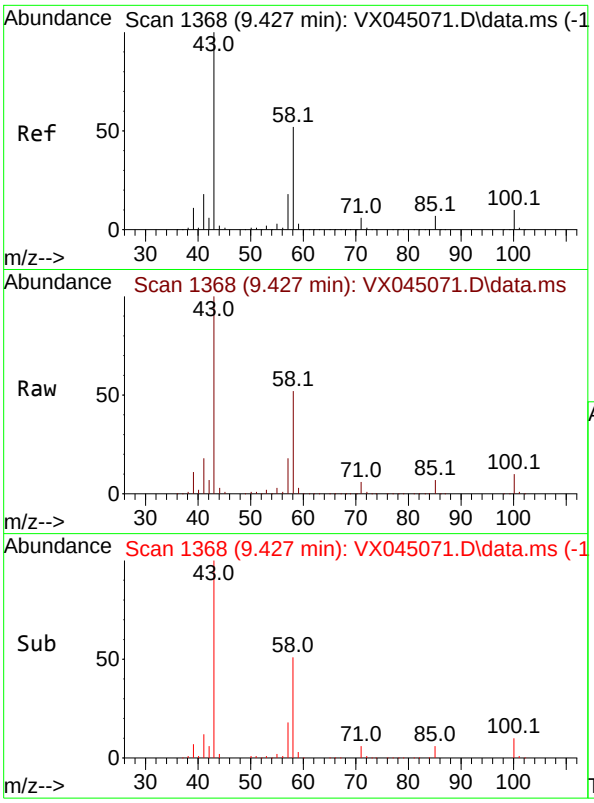


#58
2-Chloroethyl Vinyl ether
Concen: 267.612 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 63 Resp: 264555

Ion	Ratio	Lower	Upper
63	100		
106	26.9	21.5	32.3





#59
2-Hexanone
Concen: 297.362 ug/l
RT: 9.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 43 Resp: 41698

Ion	Ratio	Lower	Upper
43	100		
58	51.7	25.9	77.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
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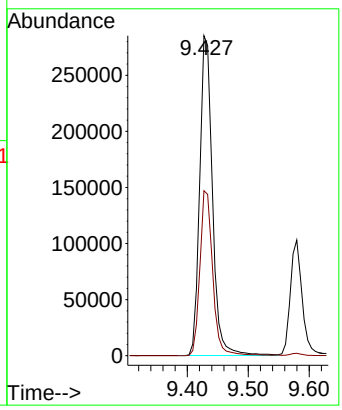
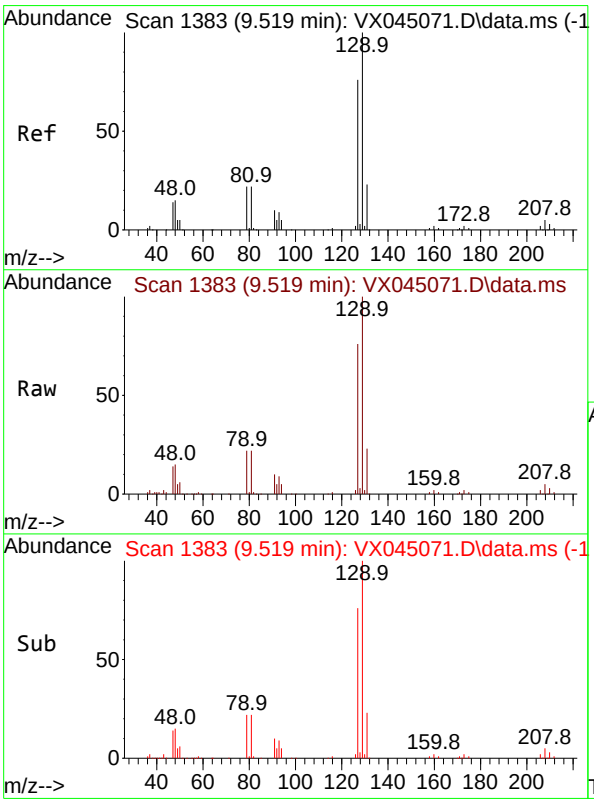
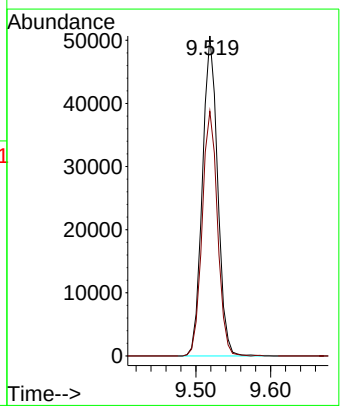


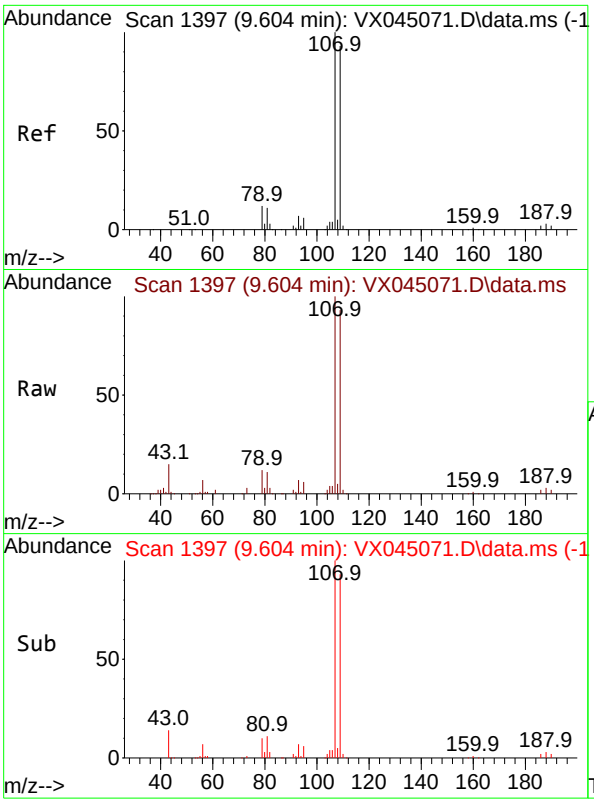


#60
Dibromochloromethane
Concen: 53.284 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion:129 Resp: 71569

Ion	Ratio	Lower	Upper
129	100		
127	77.0	38.5	115.5





#61
1,2-Dibromoethane
Concen: 52.217 ug/l
RT: 9.604 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion:107 Resp: 6631

Ion	Ratio	Lower	Upper
107	100		
109	95.1	76.1	114.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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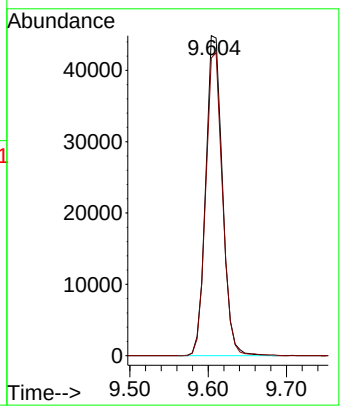
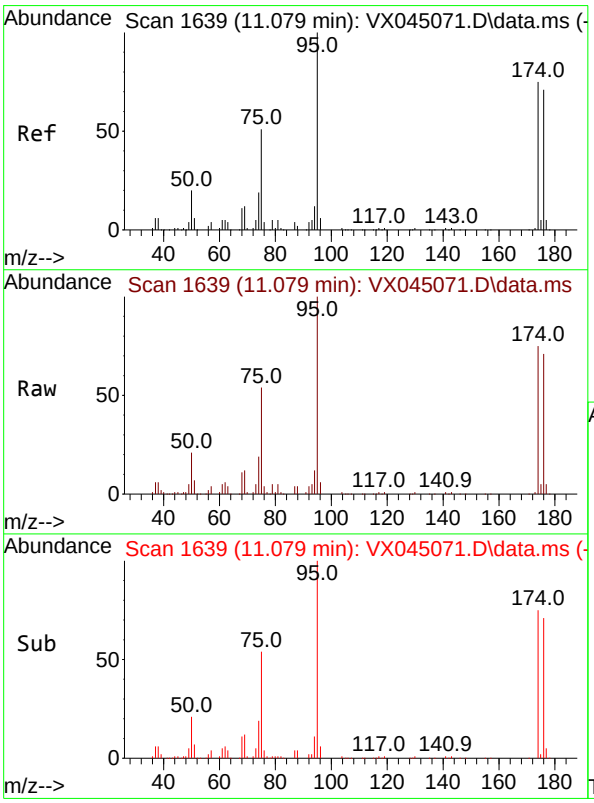
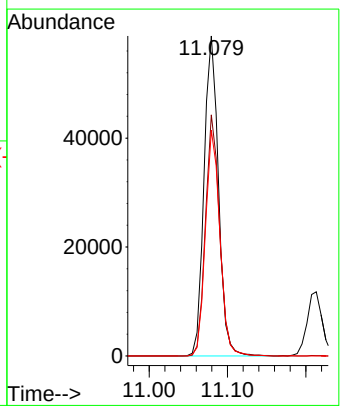


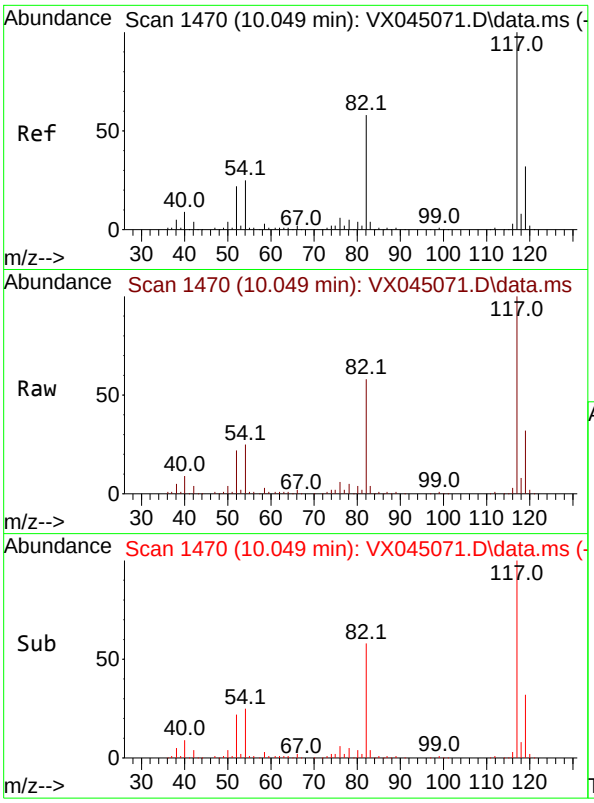


#62
4-Bromofluorobenzene
Concen: 49.212 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 95 Resp: 74945

Ion	Ratio	Lower	Upper
95	100		
174	74.1	0.0	148.2
176	70.7	0.0	141.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion:117 Resp: 162079

Ion	Ratio	Lower	Upper
117	100		
82	57.9	46.3	69.5
119	32.1	25.7	38.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
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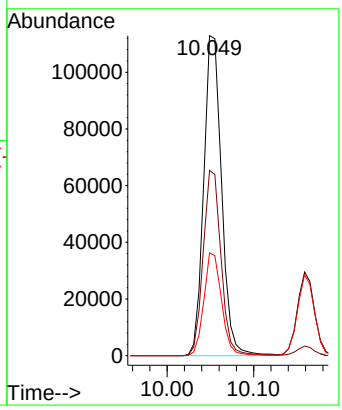
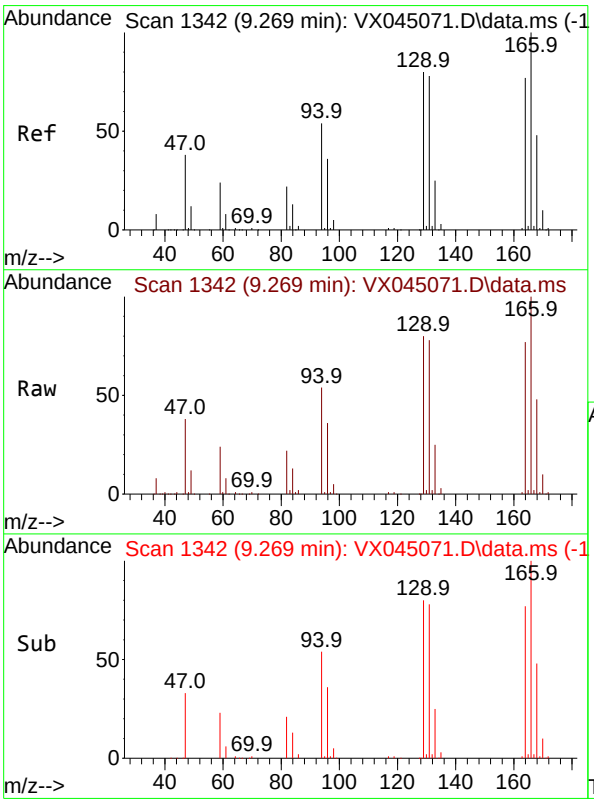
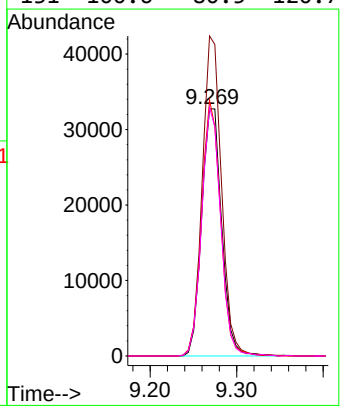


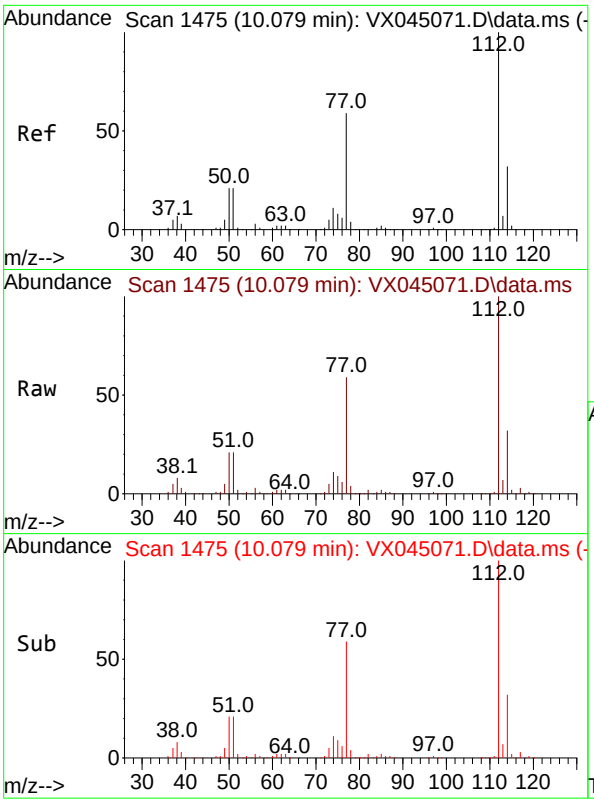


#64
Tetrachloroethene
Concen: 51.021 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion:164 Resp: 52531

Ion	Ratio	Lower	Upper
164	100		
166	129.5	103.6	155.4
129	103.4	82.7	124.1
131	100.6	80.5	120.7





#65
Chlorobenzene
Concen: 50.853 ug/l
RT: 10.079 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion:112 Resp: 17692

Ion	Ratio	Lower	Upper
112	100		
114	32.5	26.0	39.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
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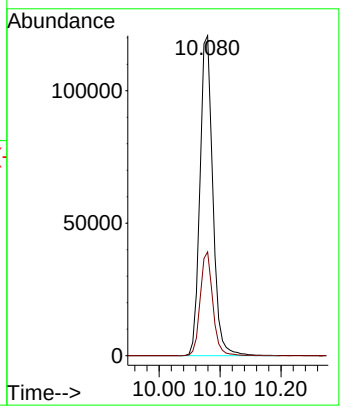
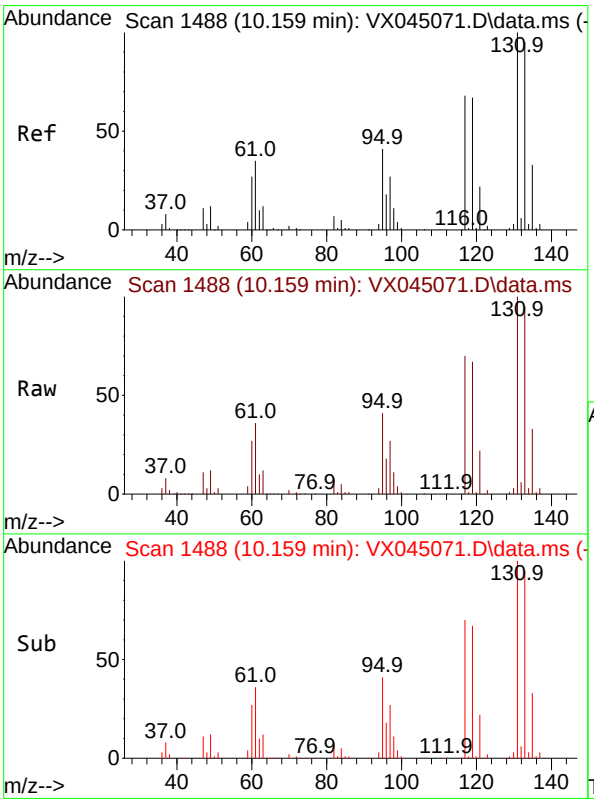
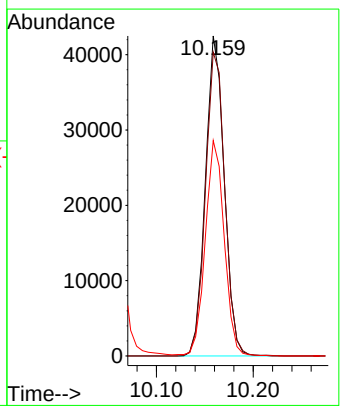


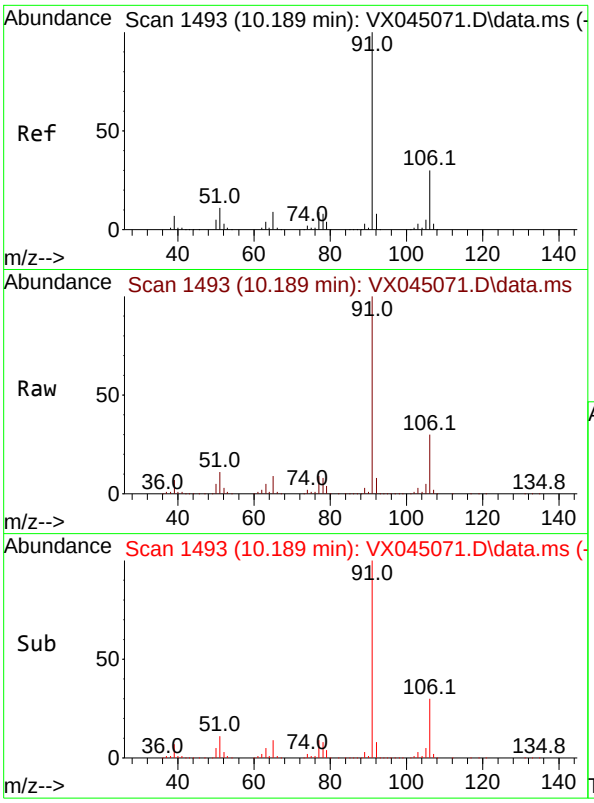


#66
1,1,1,2-Tetrachloroethane
Concen: 51.402 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion:131 Resp: 57642

Ion	Ratio	Lower	Upper
131	100		
133	97.3	48.6	145.9
119	67.8	33.9	101.7





#67
Ethyl Benzene
Concen: 51.431 ug/l
RT: 10.189 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 91 Resp: 31642

Ion	Ratio	Lower	Upper
91	100		
106	29.9	23.9	35.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
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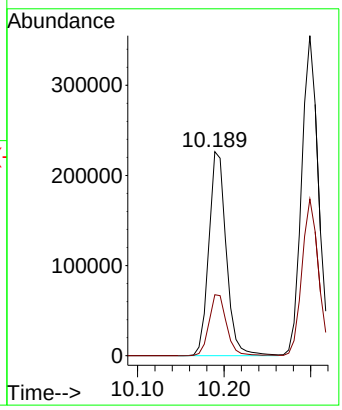
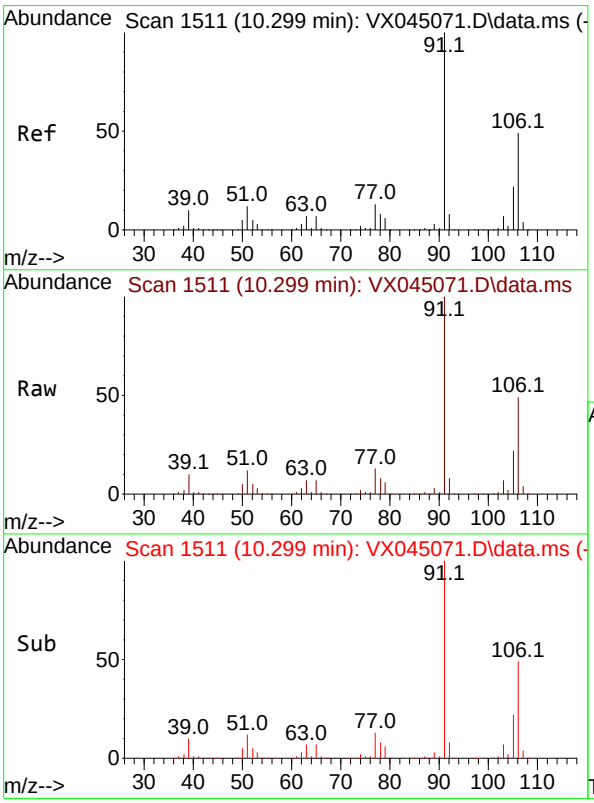
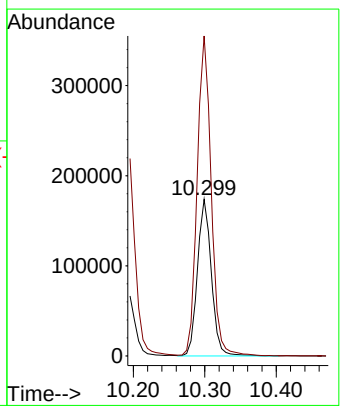


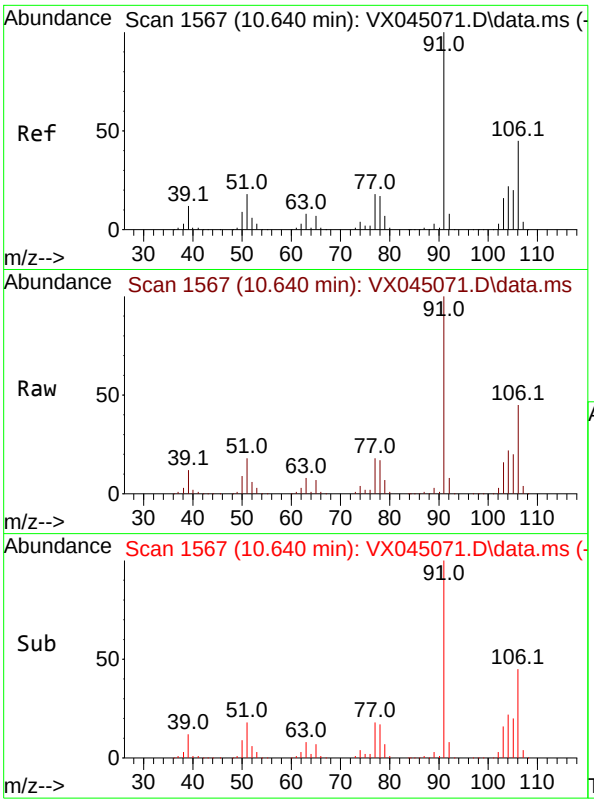


#68
m/p-Xylenes
Concen: 103.515 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion:106 Resp: 234554

Ion	Ratio	Lower	Upper
106	100		
91	206.7	165.4	248.0





#69
o-Xylene
Concen: 50.341 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion:106 Resp: 114440

Ion	Ratio	Lower	Upper
106	100		
91	219.7	109.9	329.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
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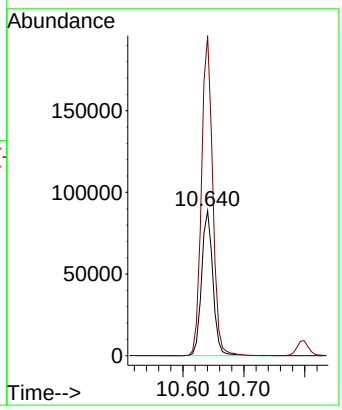
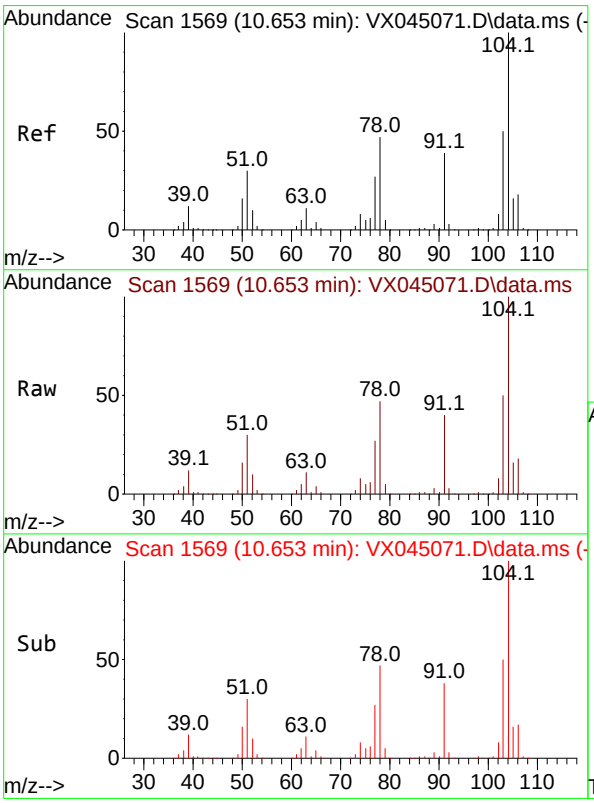
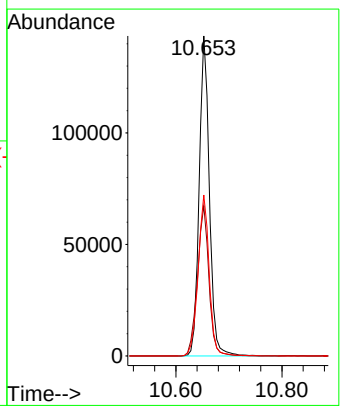


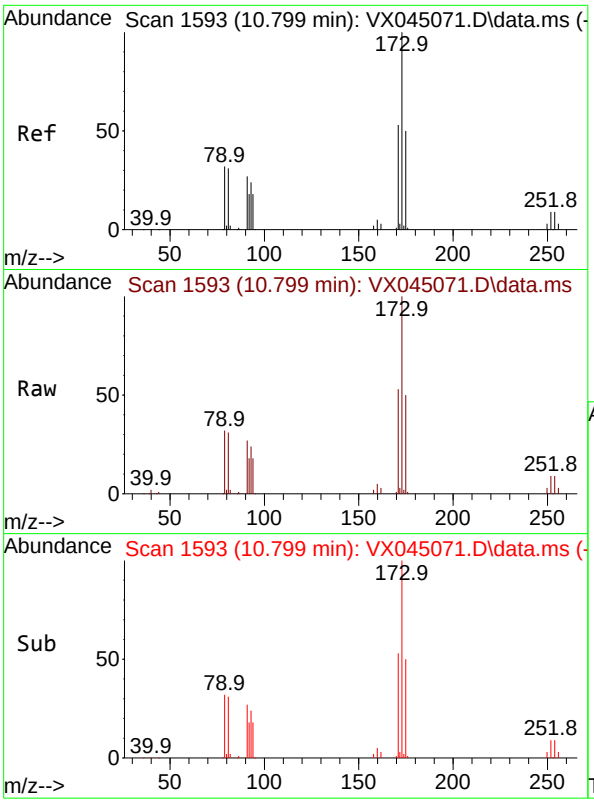


#70
Styrene
Concen: 52.387 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion:104 Resp: 191406

Ion	Ratio	Lower	Upper
104	100		
78	52.8	42.2	63.4
103	54.8	43.8	65.8





#71
Bromoform
Concen: 53.645 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion:173 Resp: 4473

Ion	Ratio	Lower	Upper
173	100		
175	49.1	24.6	73.6
254	0.0	0.0	0.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
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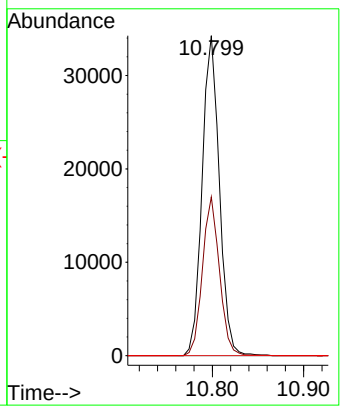
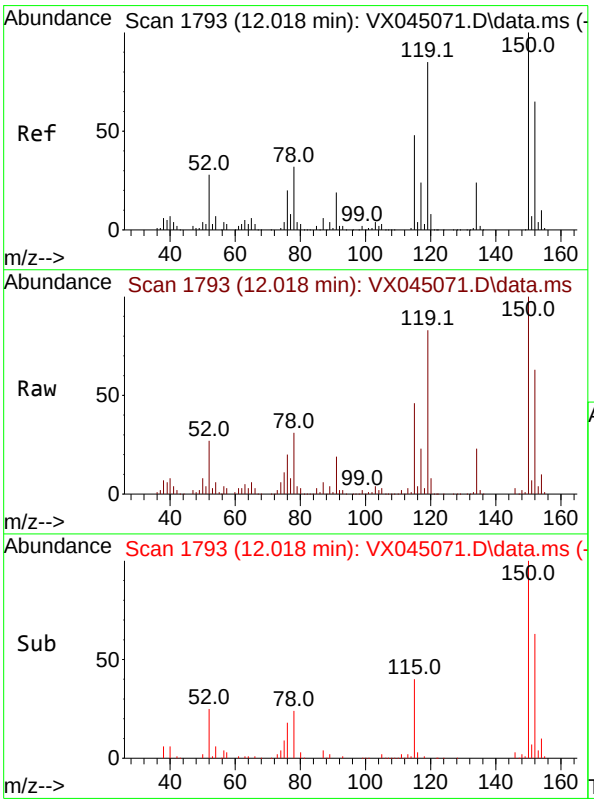
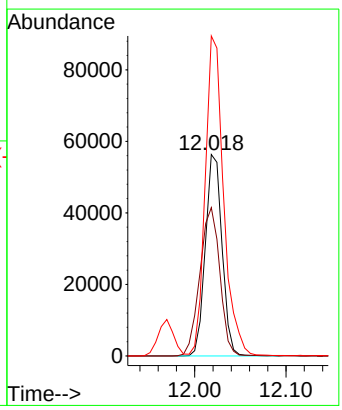


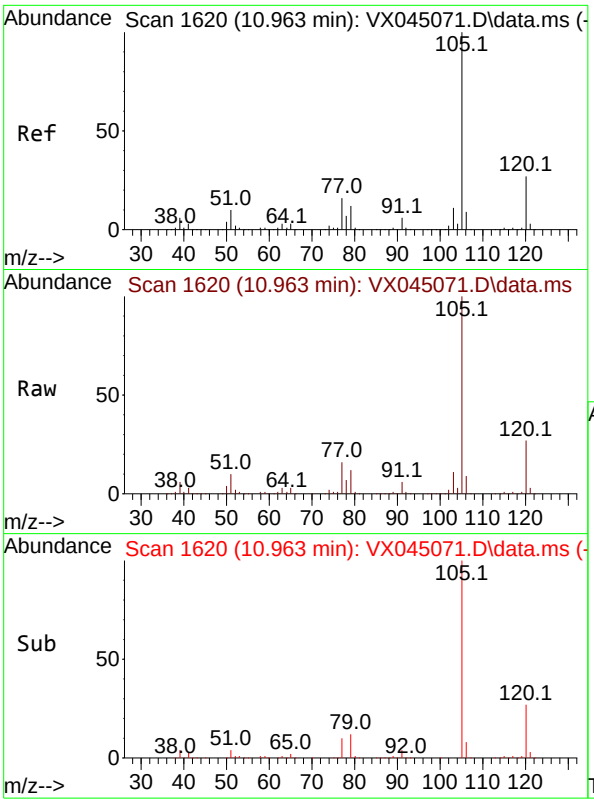


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion:152 Resp: 71264

Ion	Ratio	Lower	Upper
152	100		
115	88.4	44.2	132.6
150	174.5	0.0	349.0





#73
Isopropylbenzene
Concen: 51.167 ug/l
RT: 10.963 min Scan# 1(
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion:105 Resp: 29469

Ion	Ratio	Lower	Upper
105	100		
120	26.3	13.2	39.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
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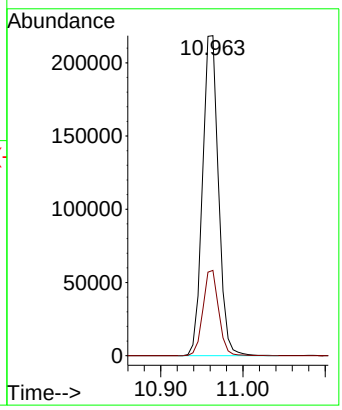
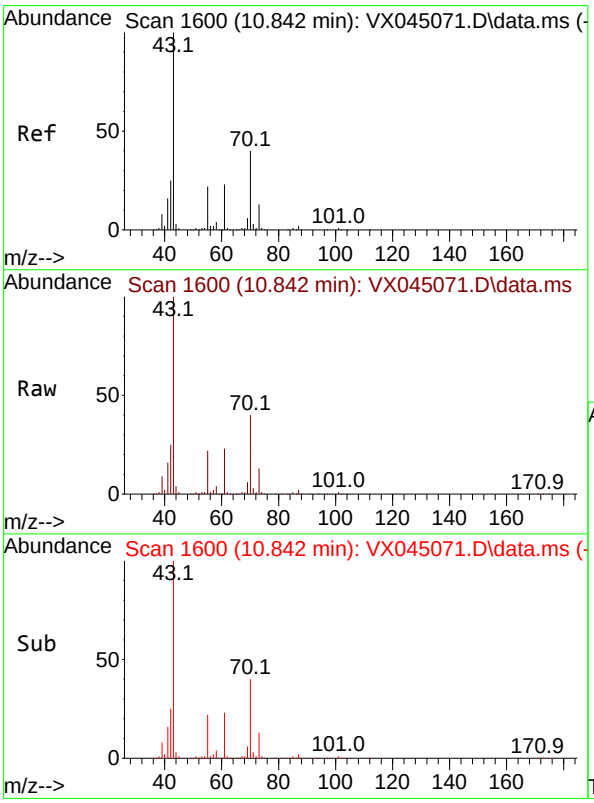
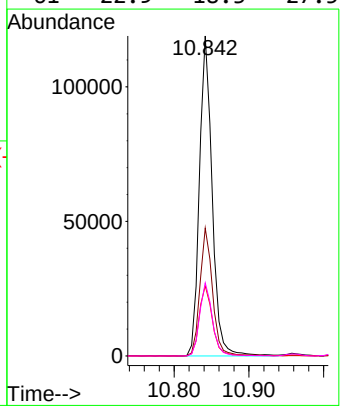


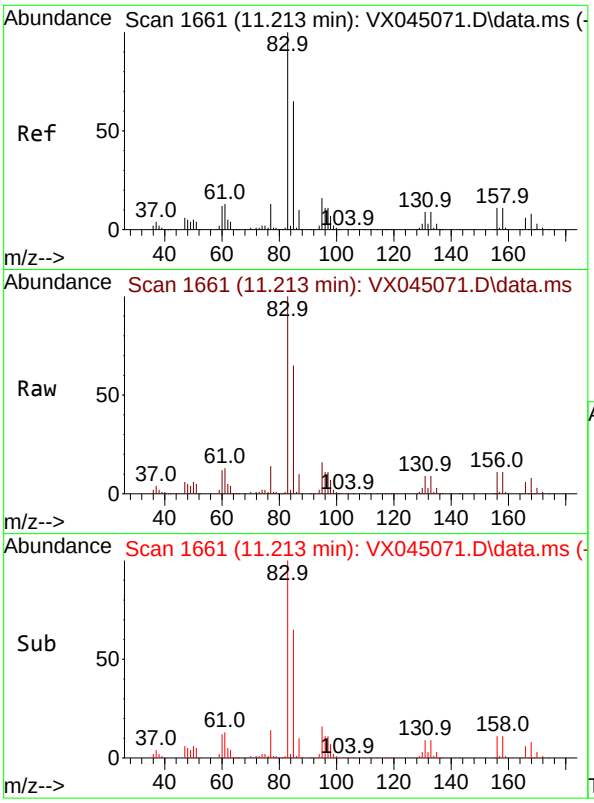


#74
N-amyl acetate
Concen: 53.881 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 43 Resp: 140869

Ion	Ratio	Lower	Upper
43	100		
70	39.7	31.8	47.6
55	22.9	18.3	27.5
61	22.9	18.3	27.5





#75
1,1,2,2-Tetrachloroethane
Concen: 50.945 ug/l
RT: 11.213 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 83 Resp: 10108

Ion	Ratio	Lower	Upper
83	100		
131	8.9	4.5	13.4
85	63.4	31.7	95.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
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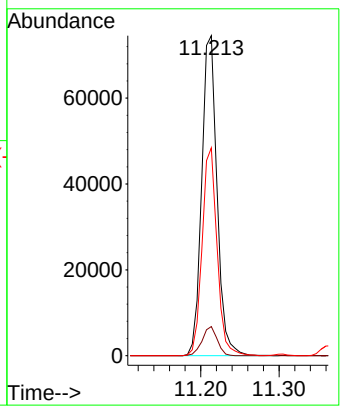
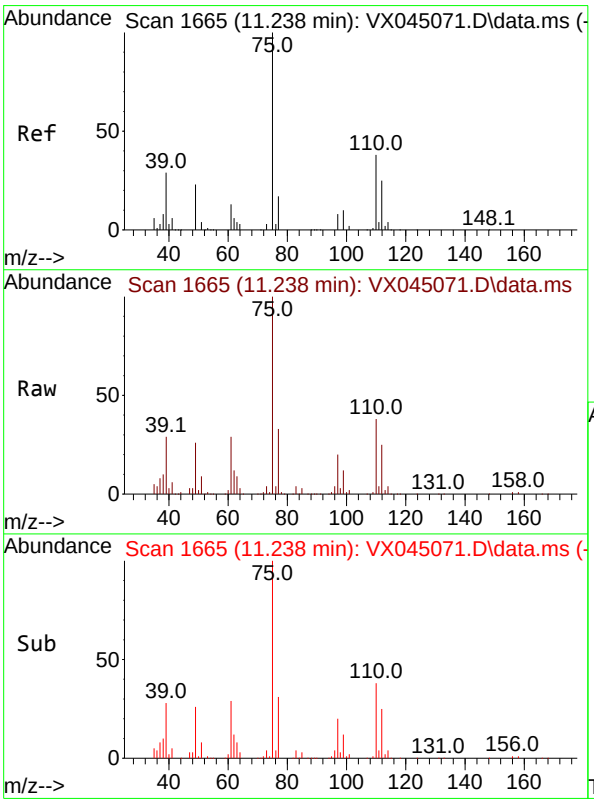
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

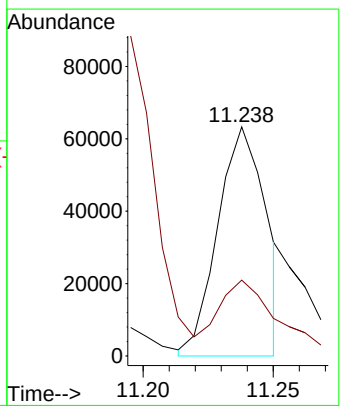


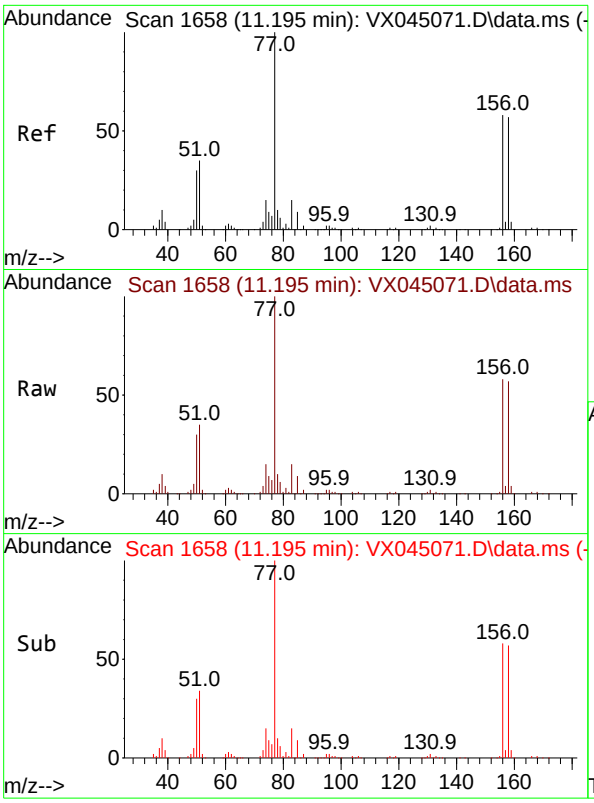


#76
1,2,3-Trichloropropane
Concen: 51.421 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 75 Resp: 81743

Ion	Ratio	Lower	Upper
75	100		
77	41.4	20.7	62.1





#77
Bromobenzene
Concen: 51.173 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion:156 Resp: 6690

Ion	Ratio	Lower	Upper
156	100		
77	171.6	85.8	257.4
158	96.8	48.4	145.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
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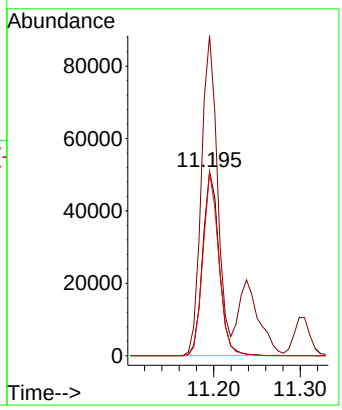
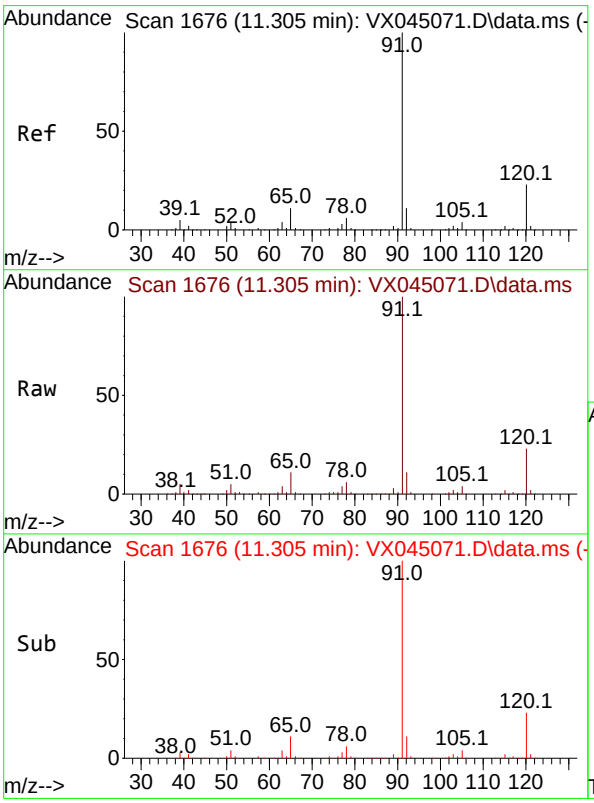
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

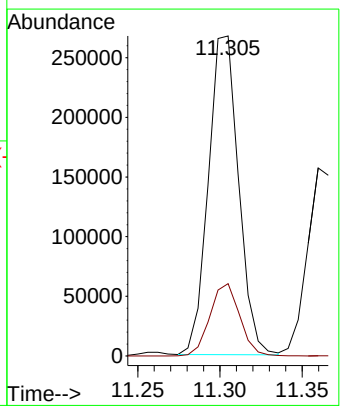


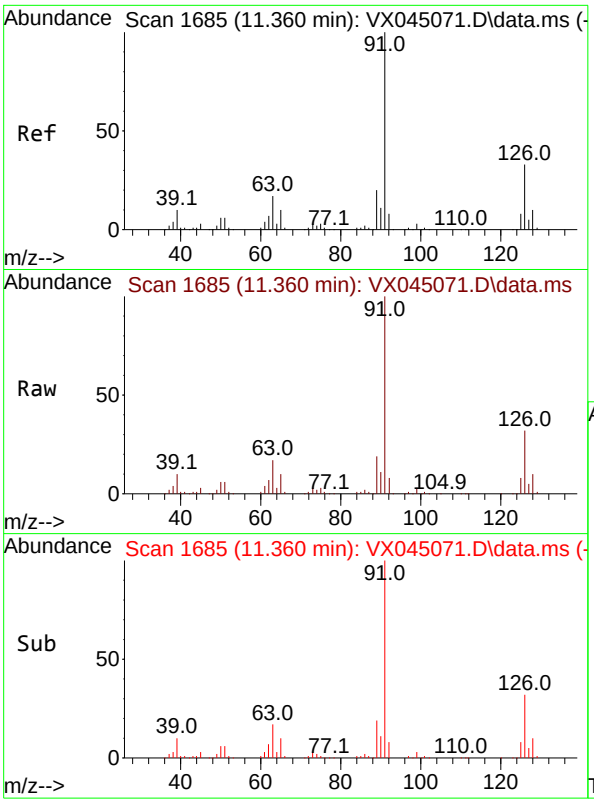


#78
n-propylbenzene
Concen: 51.546 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 91 Resp: 342399

Ion	Ratio	Lower	Upper
91	100		
120	22.4	11.2	33.6





#79
2-Chlorotoluene
Concen: 50.154 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 91 Resp: 20448

Ion	Ratio	Lower	Upper
91	100		
126	32.9	16.4	49.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
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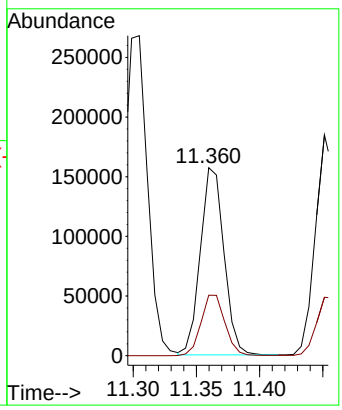
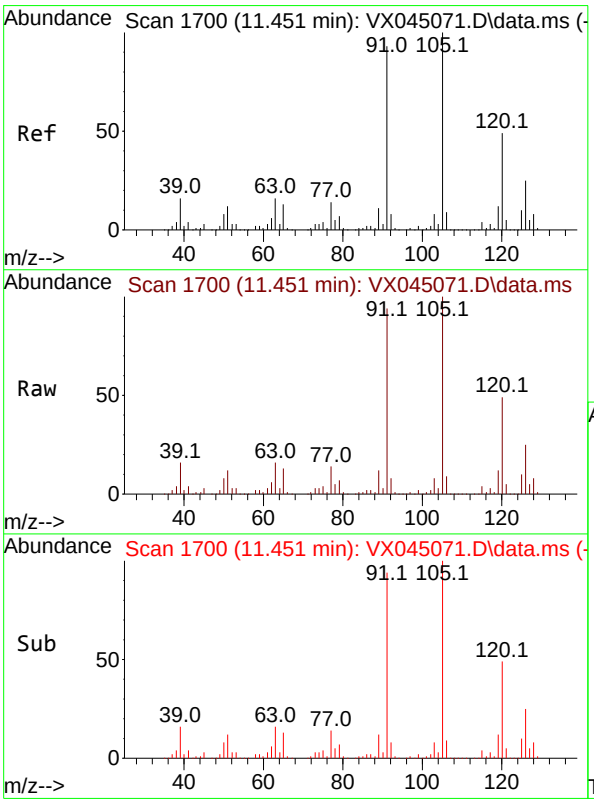
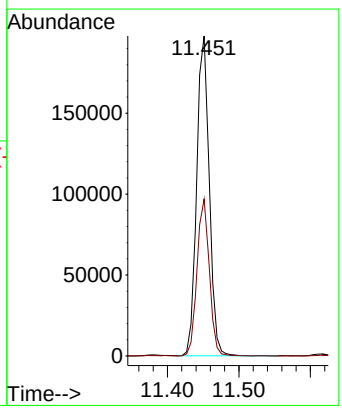


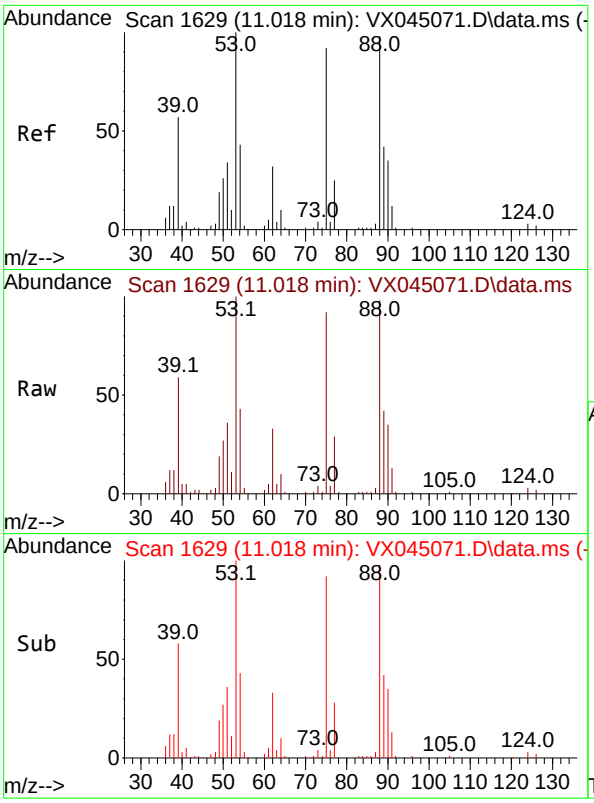


#80
1,3,5-Trimethylbenzene
Concen: 51.613 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion:105 Resp: 241129

Ion	Ratio	Lower	Upper
105	100		
120	48.1	24.1	72.2





#81
trans-1,4-Dichloro-2-butene
Concen: 41.172 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 75 Resp: 2413

Ion	Ratio	Lower	Upper
75	100		
53	110.6	88.5	132.7
89	45.3	36.2	54.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
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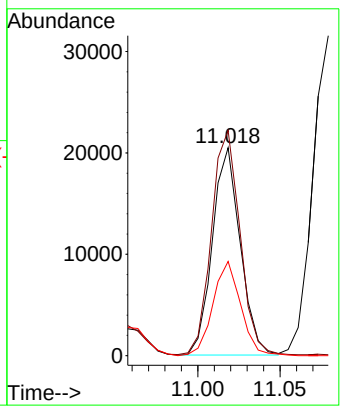
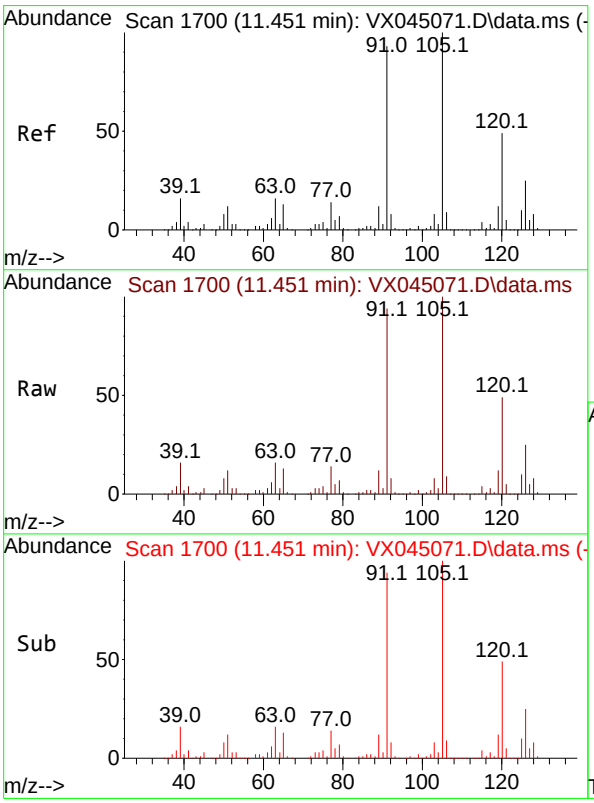
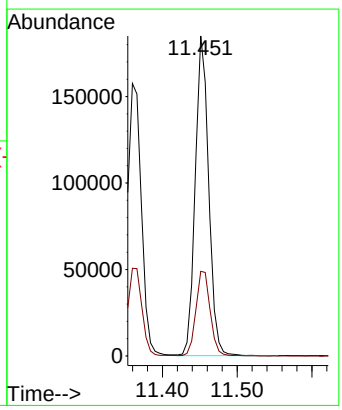


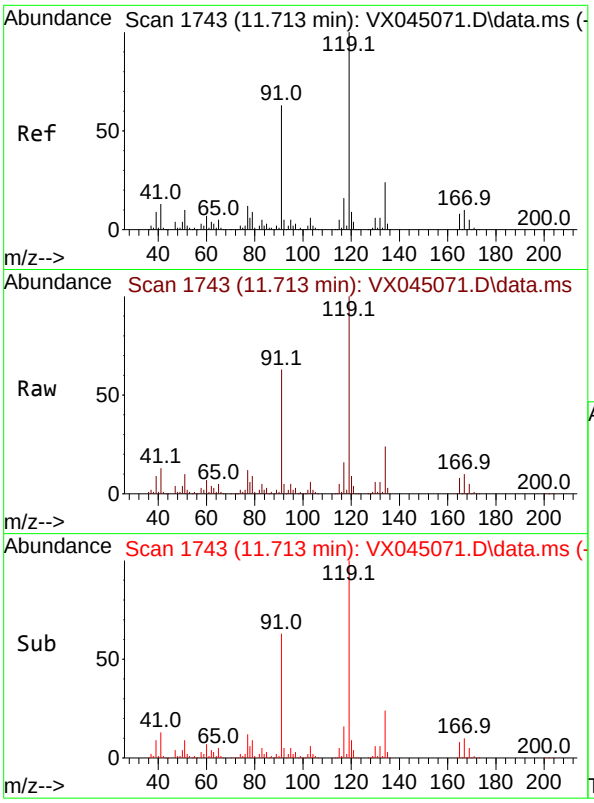


#82
4-Chlorotoluene
Concen: 51.072 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 91 Resp: 230493

Ion	Ratio	Lower	Upper
91	100		
126	28.3	14.1	42.4





#83
tert-Butylbenzene
Concen: 50.895 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion:119 Resp: 24051

Ion	Ratio	Lower	Upper
119	100		
91	61.4	30.7	92.1
134	23.3	11.7	35.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
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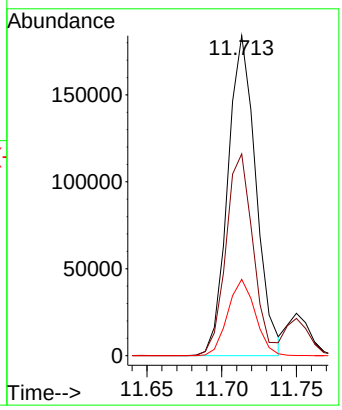
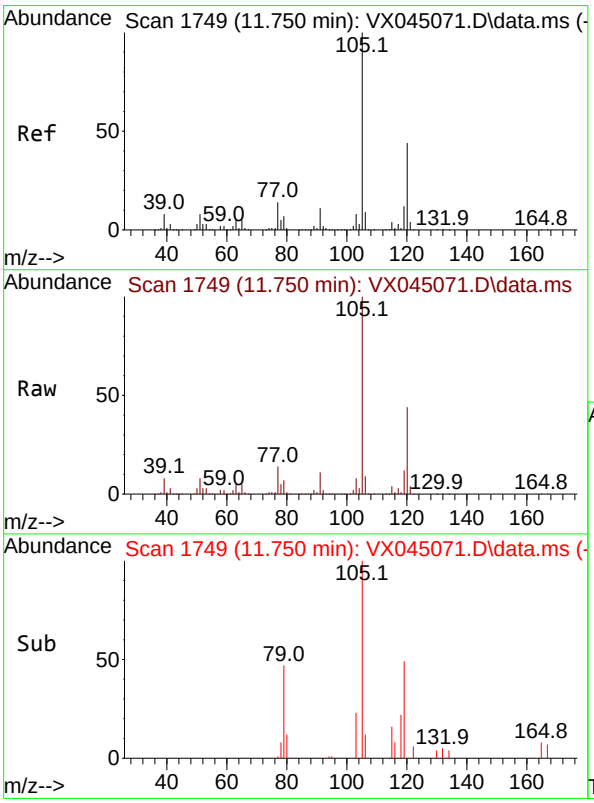
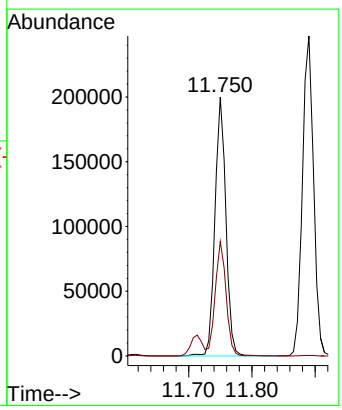


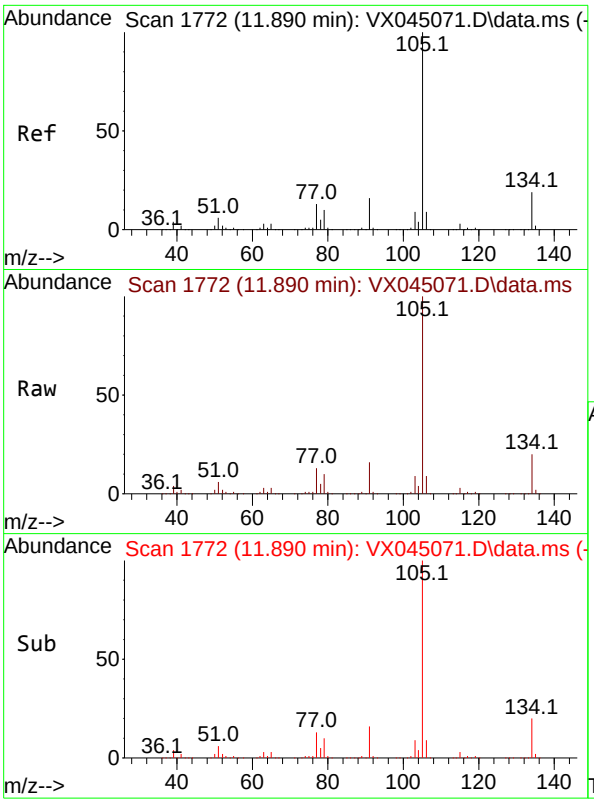


#84
1,2,4-Trimethylbenzene
Concen: 52.326 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion:105 Resp: 240719

Ion	Ratio	Lower	Upper
105	100		
120	44.1	22.1	66.1





#85
sec-Butylbenzene
Concen: 51.353 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion:105 Resp: 30039

Ion	Ratio	Lower	Upper
105	100		
134	19.6	9.8	29.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
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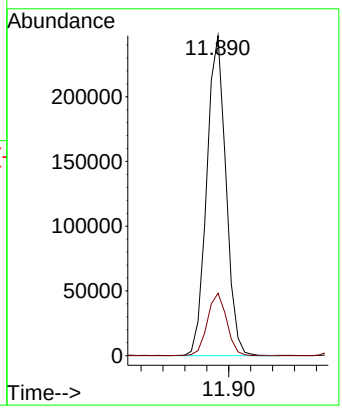
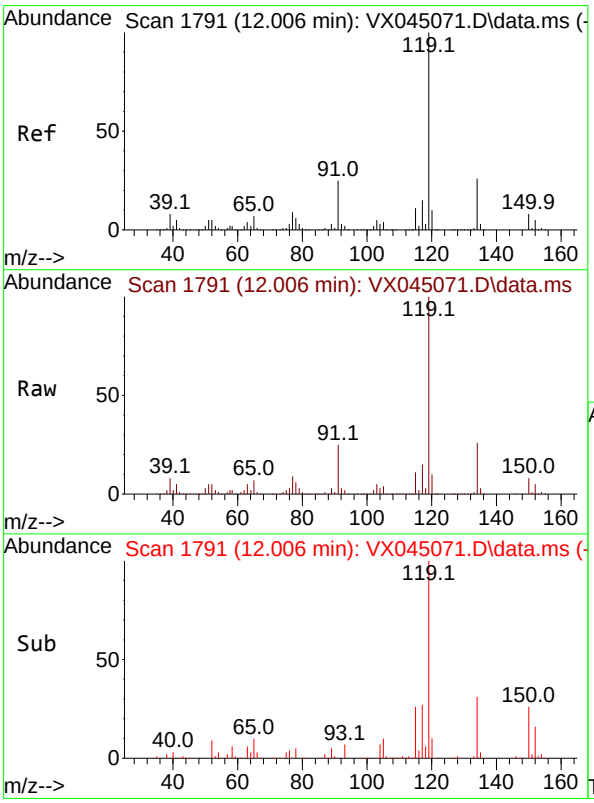
Supervised By :Mahesh Dadoda 02/28/2025

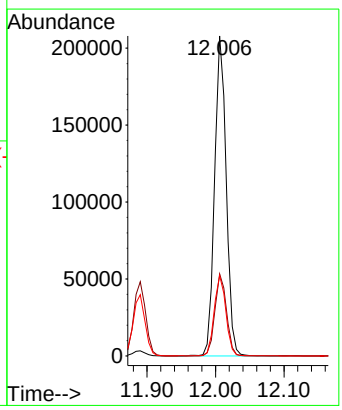


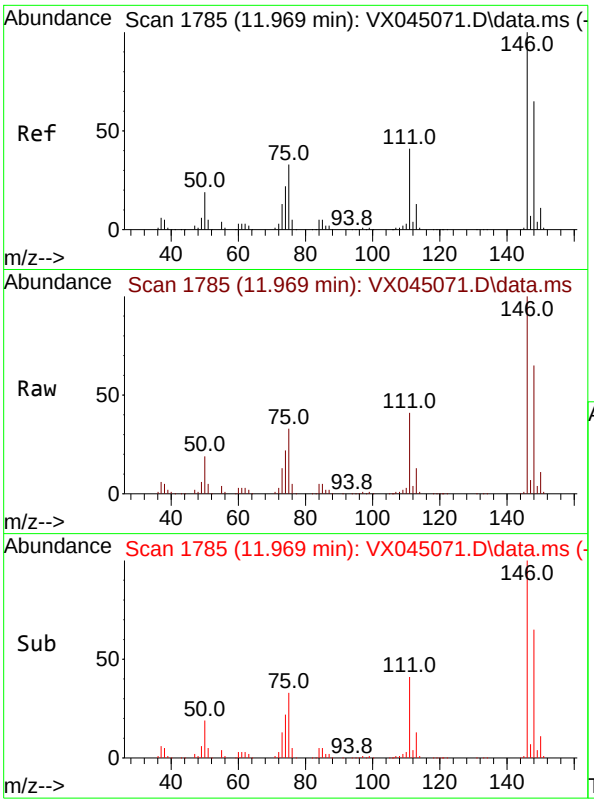


#86
p-Isopropyltoluene
Concen: 51.964 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion:119 Resp: 244031

Ion	Ratio	Lower	Upper
119	100		
134	25.7	12.9	38.6
91	25.3	12.7	38.0





#87
1,3-Dichlorobenzene
Concen: 49.747 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion:146 Resp: 118879

Ion	Ratio	Lower	Upper
146	100		
111	42.3	21.1	63.4
148	63.8	31.9	95.7

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
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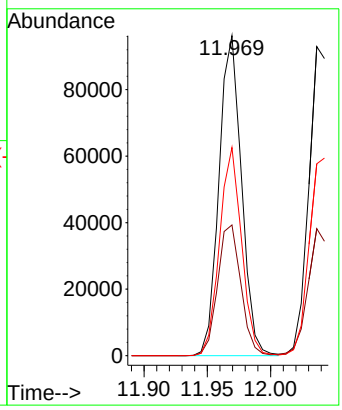
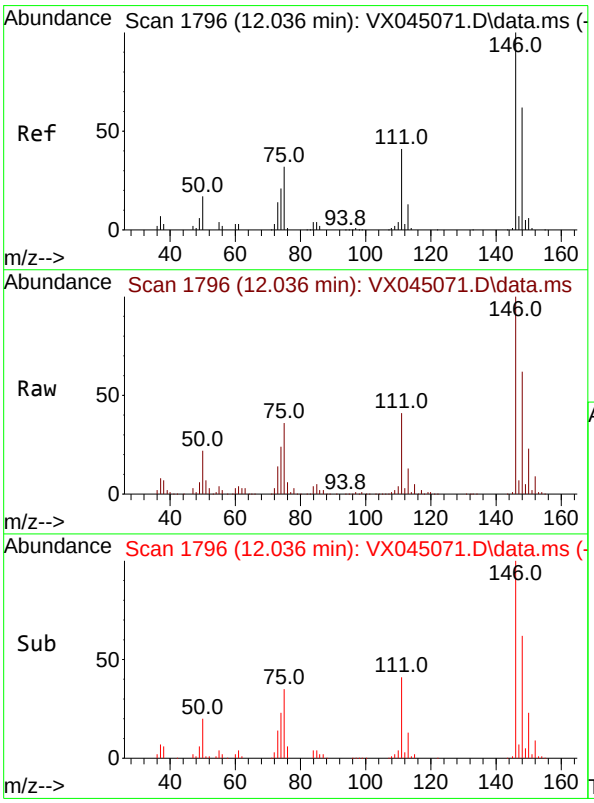
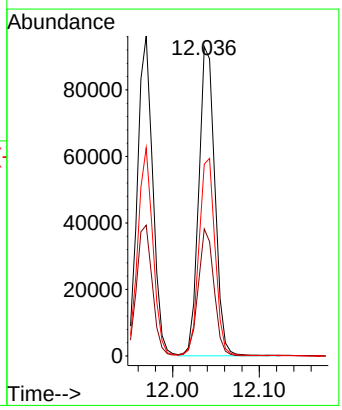


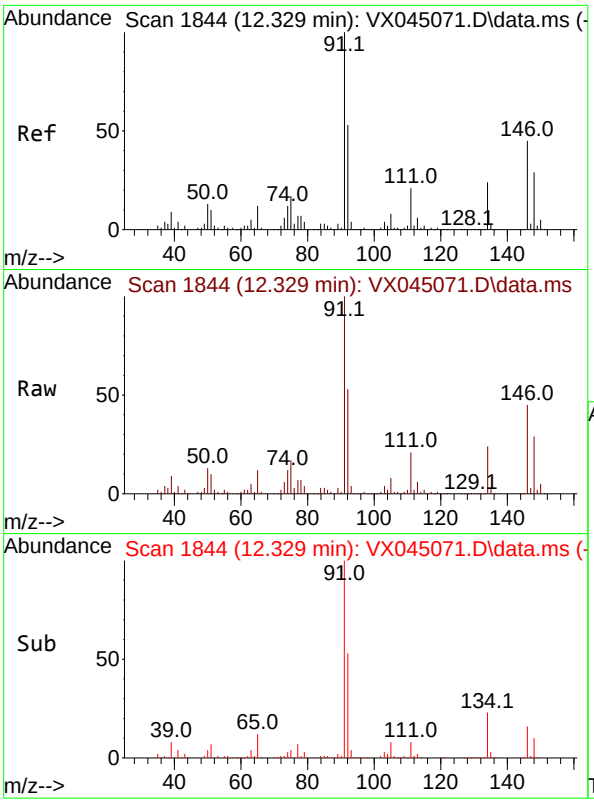


#88
1,4-Dichlorobenzene
Concen: 49.694 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion:146 Resp: 120217

Ion	Ratio	Lower	Upper
146	100		
111	40.3	20.2	60.5
148	63.9	31.9	95.9





#89
n-Butylbenzene
Concen: 52.006 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 91 Resp: 21468

Ion	Ratio	Lower	Upper
91	100		
92	53.3	26.7	80.0
134	24.4	12.2	36.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
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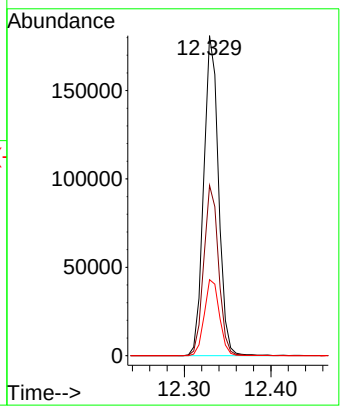
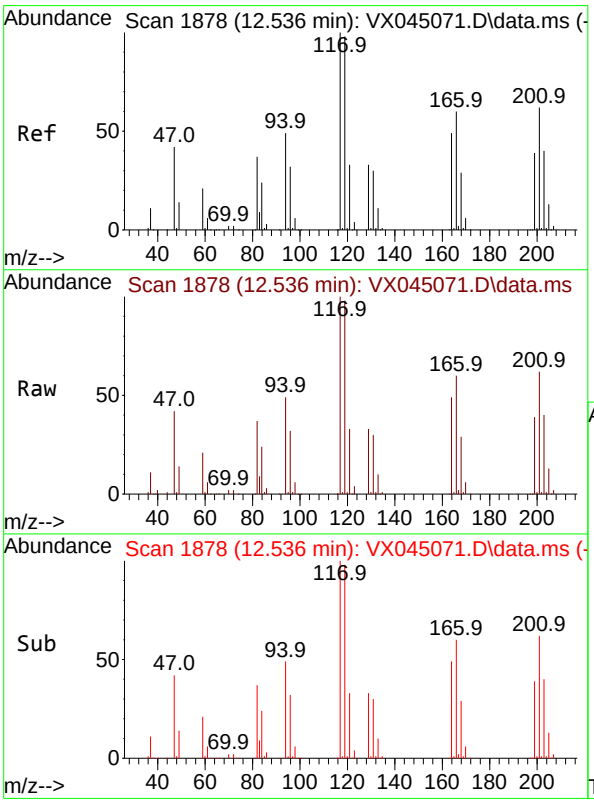
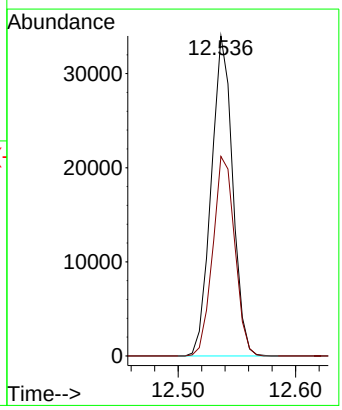


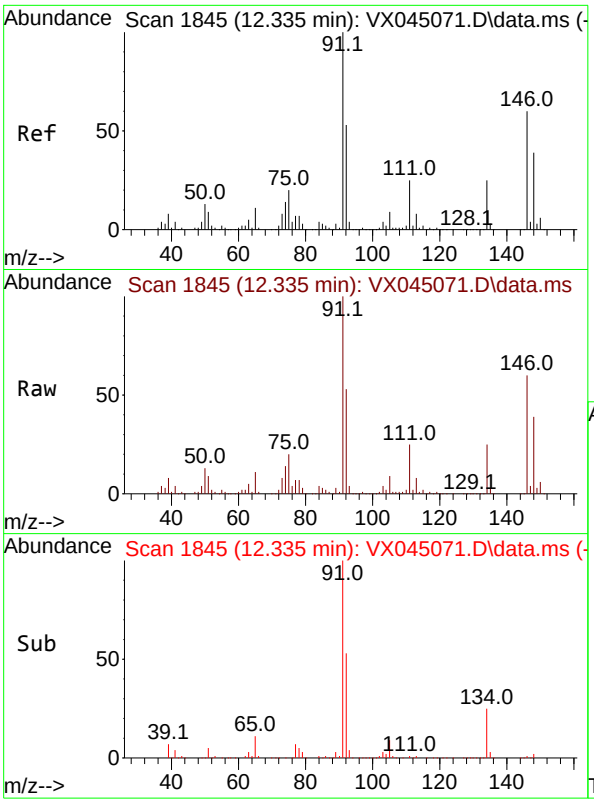


#90
Hexachloroethane
Concen: 49.188 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion:117 Resp: 43086

Ion	Ratio	Lower	Upper
117	100		
201	63.9	31.9	95.9





#91
1,2-Dichlorobenzene
Concen: 50.557 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion:146 Resp: 11889

Ion	Ratio	Lower	Upper
146	100		
111	43.3	21.6	65.0
148	63.9	31.9	95.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
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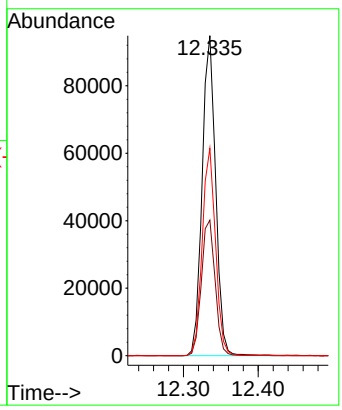
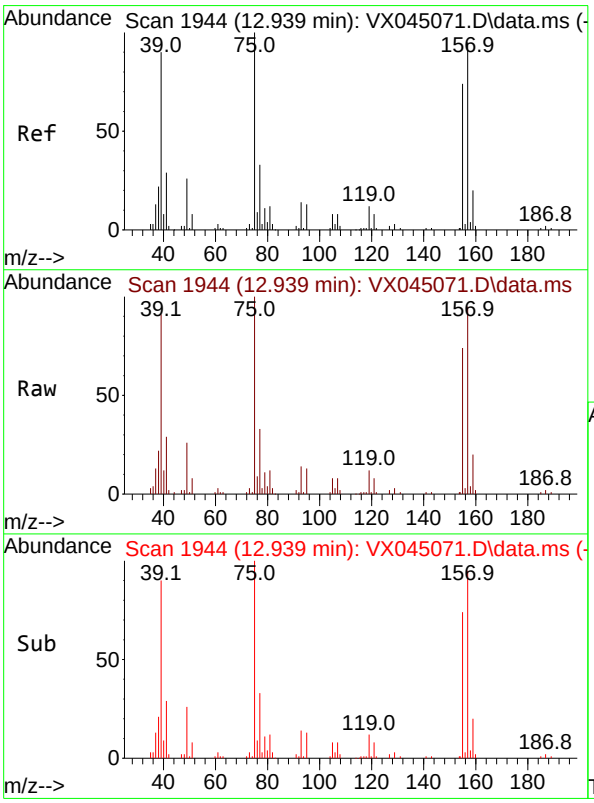
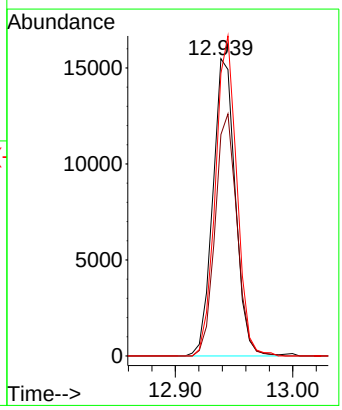


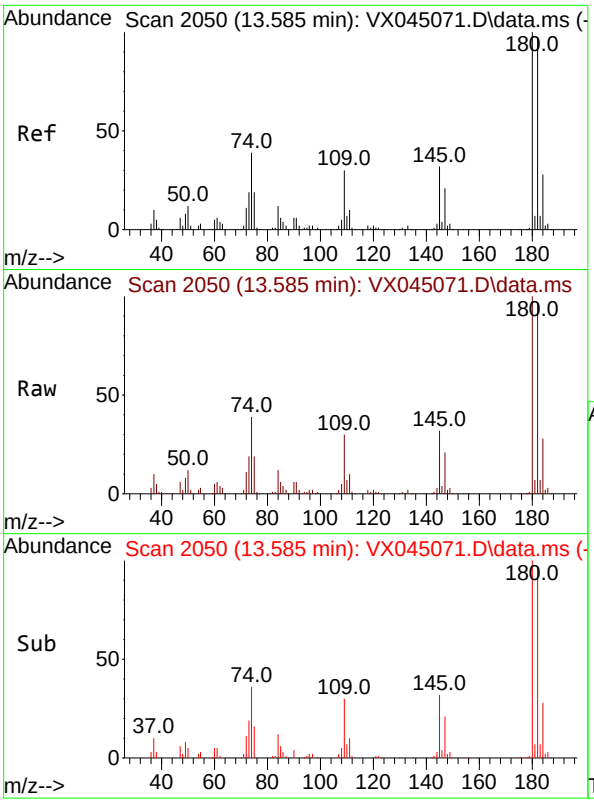


#92
1,2-Dibromo-3-Chloropropane
Concen: 56.123 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion: 75 Resp: 20610

Ion	Ratio	Lower	Upper
75	100		
155	79.1	39.6	118.7
157	102.3	51.1	153.4





#93
1,2,4-Trichlorobenzene
Concen: 50.571 ug/l
RT: 13.585 min Scan# 2(
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion:180 Resp: 7189

Ion	Ratio	Lower	Upper
180	100		
182	94.6	47.3	141.9
145	32.6	16.3	48.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
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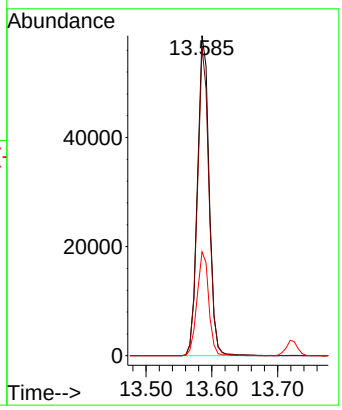
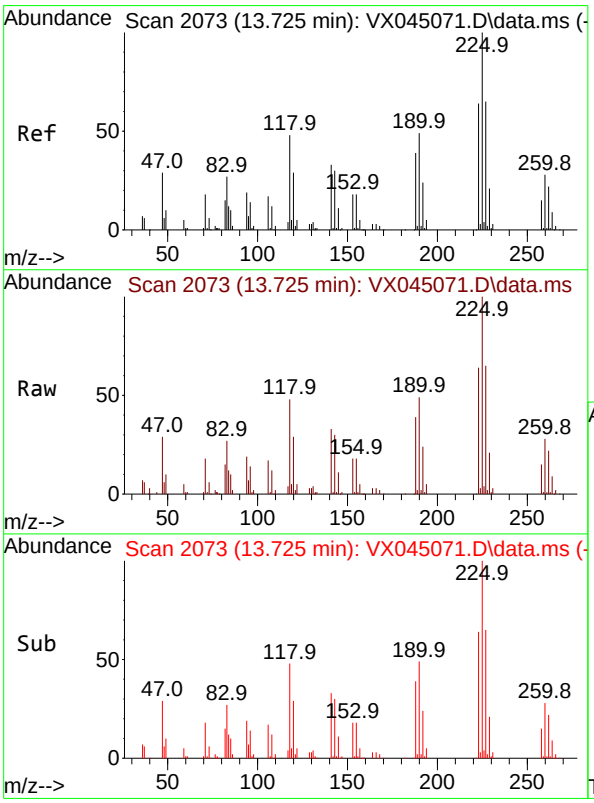
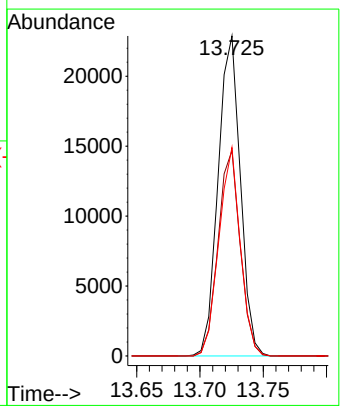


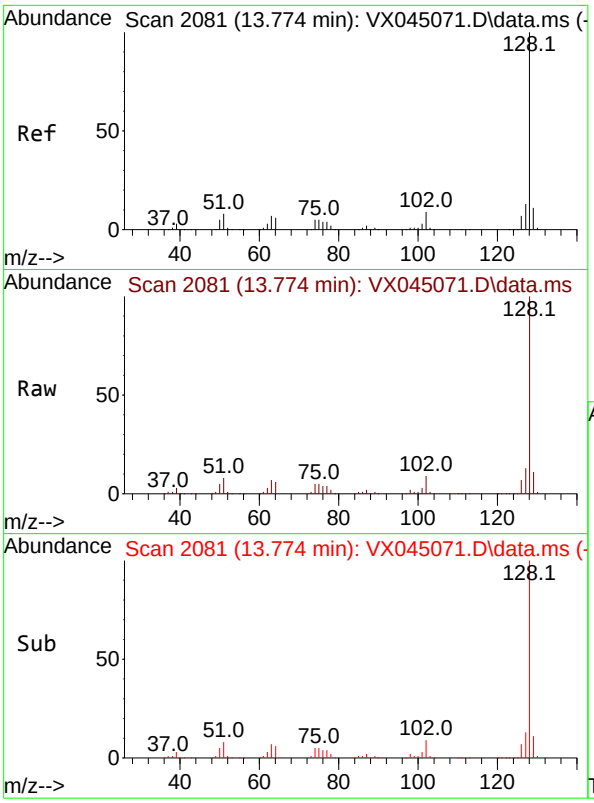


#94
Hexachlorobutadiene
Concen: 49.245 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion:225 Resp: 27916

Ion	Ratio	Lower	Upper
225	100		
223	63.8	31.9	95.7
227	62.7	31.4	94.0





#95
Naphthalene
Concen: 53.700 ug/l
RT: 13.774 min Scan# 2(
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

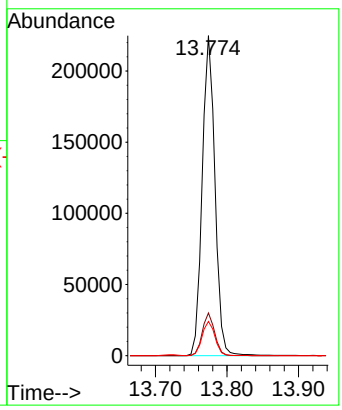
Tgt Ion:128 Resp: 27808(

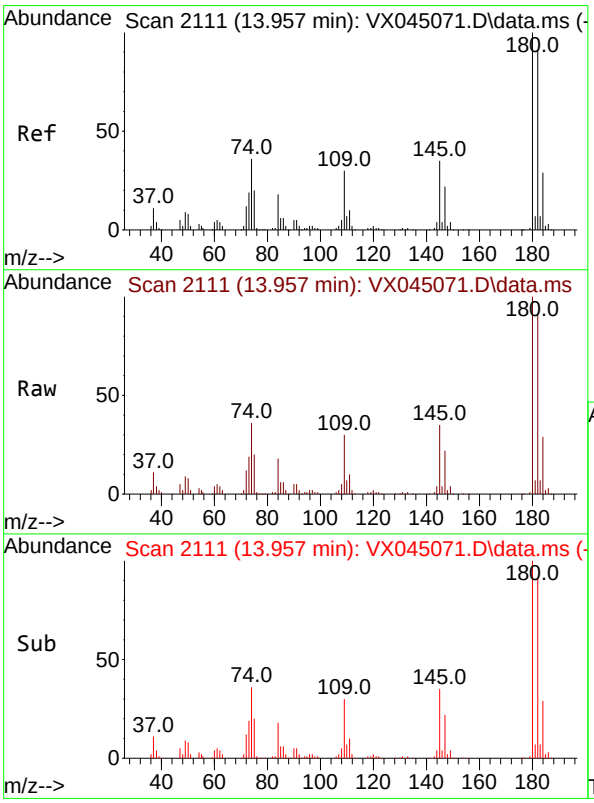
Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.3	15.5
129	10.9	8.7	13.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

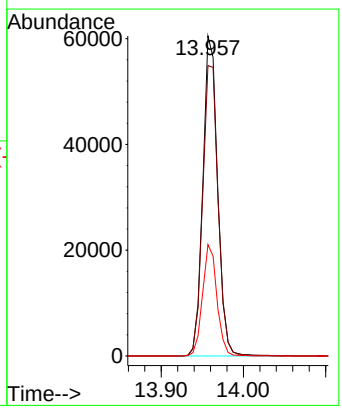




#96
1,2,3-Trichlorobenzene
Concen: 52.406 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX045071.D
Acq: 28 Feb 2025 03:00

Tgt Ion:180 Resp: 75482

Ion	Ratio	Lower	Upper
180	100		
182	95.1	47.5	142.6
145	33.9	17.0	50.9



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045072.D
Acq On : 28 Feb 2025 03:23
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 28 05:35:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 05:28:02 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene	5.550	168	101178	50.000 ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	181031	50.000 ug/l	0.00
63) Chlorobenzene-d5	10.055	117	151175	50.000 ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	69086	50.000 ug/l	0.00
System Monitoring Compounds					
33) 1,2-Dichloroethane-d4	5.952	65	158452	106.011 ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 212.020%#		
35) Dibromofluoromethane	5.385	113	123185	104.110 ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 208.220%#		
50) Toluene-d8	8.647	98	441188	99.595 ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 199.200%#		
62) 4-Bromofluorobenzene	11.079	95	148476	100.365 ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 200.720%#		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.166	85	126718	90.869 ug/l	95
3) Chloromethane	1.306	50	145825	85.936 ug/l	98
4) Vinyl Chloride	1.373	62	154734	93.360 ug/l	96
5) Bromomethane	1.593	94	57503	110.980 ug/l	97
6) Chloroethane	1.660	64	60155	95.351 ug/l	97
7) Trichlorofluoromethane	1.861	101	198701	93.594 ug/l	99
8) Diethyl Ether	2.135	74	78263	101.441 ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.312	101	120518	95.064 ug/l	98
10) Methyl Iodide	2.440	142	153466	94.425 ug/l	99
11) Tert butyl alcohol	3.001	59	135016	493.141 ug/l	98
12) 1,1-Dichloroethene	2.306	96	125436	96.366 ug/l	98
13) Acrolein	2.239	56	180411	608.485 ug/l	99
14) Allyl chloride	2.654	41	220783	94.344 ug/l	98
15) Acrylonitrile	3.068	53	391946	526.749 ug/l	100
16) Acetone	2.392	43	348698	566.991 ug/l	99
17) Carbon Disulfide	2.495	76	345572	97.574 ug/l	98
18) Methyl Acetate	2.709	43	175784	94.899 ug/l	98
19) Methyl tert-butyl Ether	3.117	73	431413	103.661 ug/l	100
20) Methylene Chloride	2.782	84	140388	96.381 ug/l	98
21) trans-1,2-Dichloroethene	3.080	96	128232	100.164 ug/l	98
22) Diisopropyl ether	3.763	45	467534	104.489 ug/l	98
23) Vinyl Acetate	3.721	43	2035880	554.219 ug/l	99
24) 1,1-Dichloroethane	3.605	63	257023	102.805 ug/l	100
25) 2-Butanone	4.562	43	559182	563.952 ug/l	99
26) 2,2-Dichloropropane	4.470	77	124805	67.148 ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	155193	100.568 ug/l	99
28) Bromochloromethane	4.897	49	113848	94.428 ug/l	98
29) Tetrahydrofuran	5.007	42	365565	556.465 ug/l	100
30) Chloroform	5.092	83	248978	101.814 ug/l	97
31) Cyclohexane	5.464	56	231082	100.711 ug/l	97
32) 1,1,1-Trichloroethane	5.379	97	211302	102.638 ug/l	99
36) 1,1-Dichloropropene	5.690	75	172295	101.258 ug/l	99
37) Ethyl Acetate	4.720	43	220327	113.796 ug/l	99
38) Carbon Tetrachloride	5.671	117	177219	105.940 ug/l	97
39) Methylcyclohexane	7.372	83	219856	101.175 ug/l	99
40) Benzene	6.031	78	541974	101.908 ug/l	100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045072.D
Acq On : 28 Feb 2025 03:23
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 28 05:35:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 05:28:02 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	4.922	41	120186	116.205 ug/l	98
42) 1,2-Dichloroethane	6.086	62	189857	110.158 ug/l	99
43) Isopropyl Acetate	6.342	43	338414	109.806 ug/l	99
44) Trichloroethene	7.122	130	128124	105.402 ug/l	96
45) 1,2-Dichloropropane	7.427	63	135997	102.898 ug/l	100
46) Dibromomethane	7.580	93	97248	105.329 ug/l	99
47) Bromodichloromethane	7.817	83	191016	106.947 ug/l	97
48) Methyl methacrylate	7.695	41	165825	113.344 ug/l	99
49) 1,4-Dioxane	7.665	88	66308	2132.314 ug/l	99
51) 4-Methyl-2-Pentanone	8.573	43	1048140	555.050 ug/l	99
52) Toluene	8.714	92	316349	100.178 ug/l	100
53) t-1,3-Dichloropropene	8.976	75	177352	100.462 ug/l	97
54) cis-1,3-Dichloropropene	8.366	75	200943	101.815 ug/l	98
55) 1,1,2-Trichloroethane	9.146	97	123426	100.920 ug/l	99
56) Ethyl methacrylate	9.116	69	208782	106.744 ug/l	100
57) 1,3-Dichloropropane	9.305	76	216267	101.387 ug/l	100
58) 2-Chloroethyl Vinyl ether	8.238	63	494551	514.987 ug/l	99
59) 2-Hexanone	9.433	43	779492	572.233 ug/l	99
60) Dibromochloromethane	9.518	129	139245	106.719 ug/l	99
61) 1,2-Dibromoethane	9.610	107	128617	104.259 ug/l	99
64) Tetrachloroethene	9.268	164	99386	103.491 ug/l	98
65) Chlorobenzene	10.079	112	332473	102.456 ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.158	131	112451	107.511 ug/l	96
67) Ethyl Benzene	10.189	91	596257	103.905 ug/l	100
68) m/p-Xylenes	10.299	106	432214	204.507 ug/l	99
69) o-Xylene	10.640	106	213835	100.849 ug/l	99
70) Styrene	10.652	104	357649	104.948 ug/l	99
71) Bromoform	10.799	173	90800	116.751 ug/l #	99
73) Isopropylbenzene	10.963	105	553533	99.138 ug/l	99
74) N-amyl acetate	10.841	43	287104	113.277 ug/l	100
75) 1,1,2,2-Tetrachloroethane	11.213	83	192217	99.923 ug/l	98
76) 1,2,3-Trichloropropane	11.238	75	156259m	101.395 ug/l	
77) Bromobenzene	11.195	156	125700	99.175 ug/l	97
78) n-propylbenzene	11.305	91	648835	100.758 ug/l	99
79) 2-Chlorotoluene	11.359	91	382703	96.825 ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	445466	98.356 ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	51975	91.460 ug/l	99
82) 4-Chlorotoluene	11.451	91	433881	99.168 ug/l	100
83) tert-Butylbenzene	11.713	119	454859	99.288 ug/l	99
84) 1,2,4-Trimethylbenzene	11.750	105	450108	100.926 ug/l	99
85) sec-Butylbenzene	11.890	105	570006	100.517 ug/l	100
86) p-Isopropyltoluene	12.006	119	465512	102.252 ug/l	100
87) 1,3-Dichlorobenzene	11.969	146	231440	99.903 ug/l	100
88) 1,4-Dichlorobenzene	12.042	146	230663	98.355 ug/l	99
89) n-Butylbenzene	12.329	91	428209	107.000 ug/l	99
90) Hexachloroethane	12.536	117	87448	102.980 ug/l	99
91) 1,2-Dichlorobenzene	12.335	146	233125	102.254 ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.938	75	41402	116.296 ug/l	99
93) 1,2,4-Trichlorobenzene	13.585	180	148368	107.648 ug/l	99
94) Hexachlorobutadiene	13.725	225	56065	102.019 ug/l	99
95) Naphthalene	13.774	128	565250	112.593 ug/l	100
96) 1,2,3-Trichlorobenzene	13.963	180	152970	109.554 ug/l	100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045072.D
Acq On : 28 Feb 2025 03:23
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 28 05:35:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 05:28:02 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

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

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

Quantitation Report (QT Reviewed)

ICAL Form

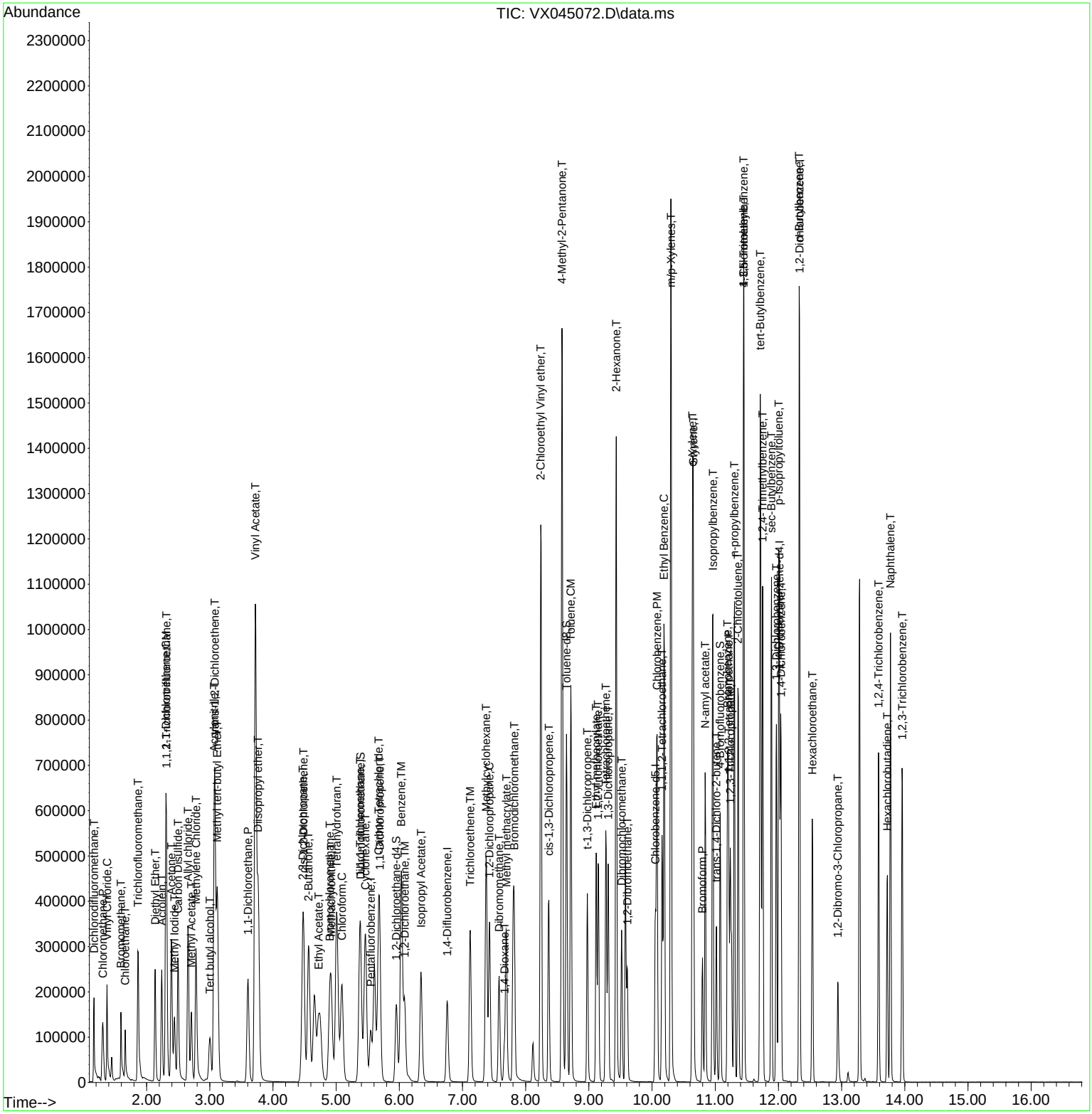
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045072.D
Acq On : 28 Feb 2025 03:23
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 21 Sample Multiplier: 1

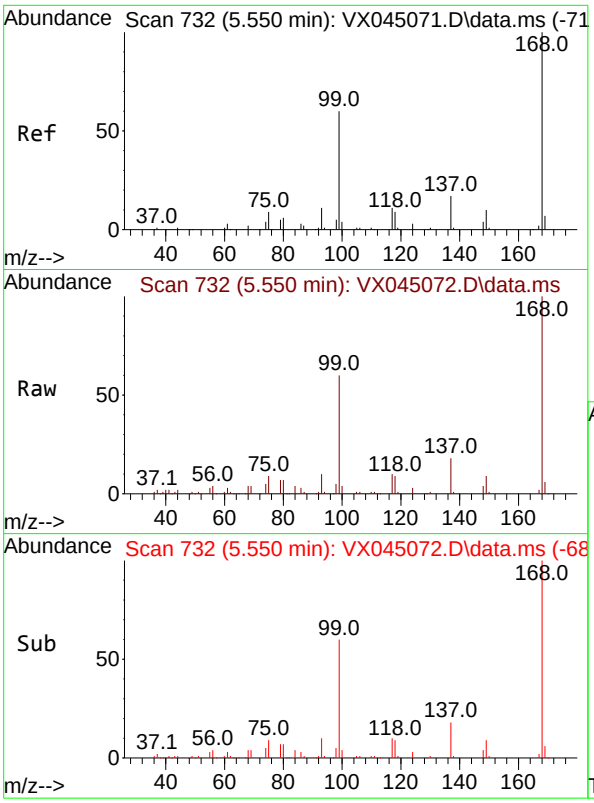
Quant Time: Feb 28 05:35:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 05:28:02 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

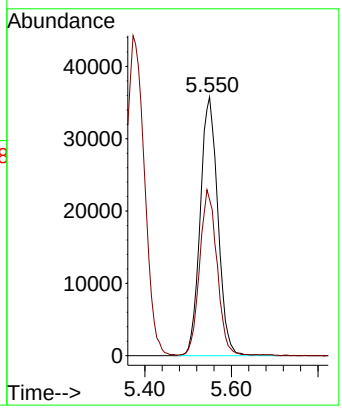
Tgt Ion:168 Resp: 10117

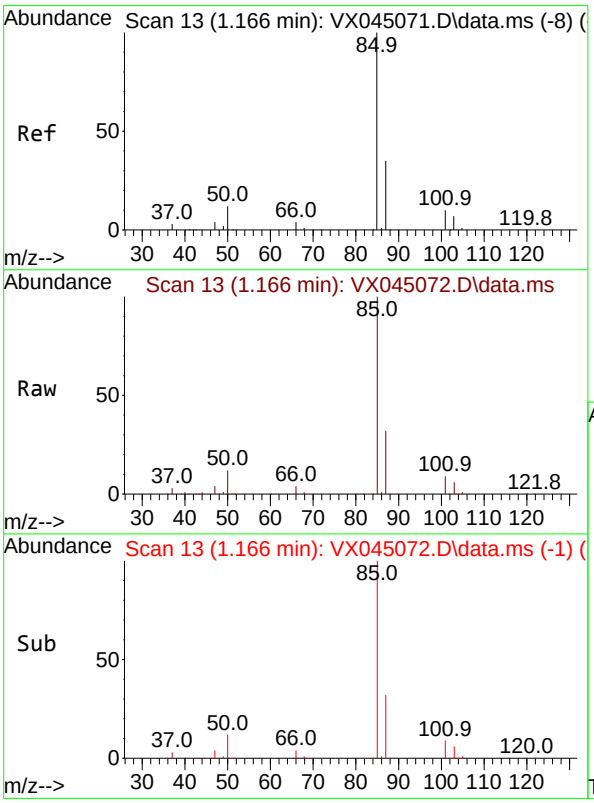
Ion	Ratio	Lower	Upper
168	100		
99	60.2	48.2	72.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

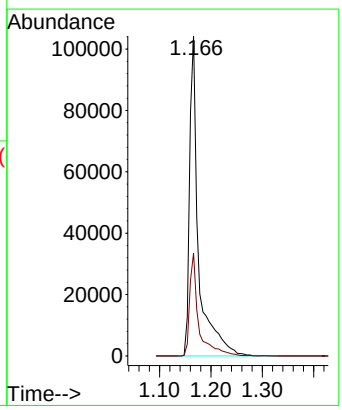


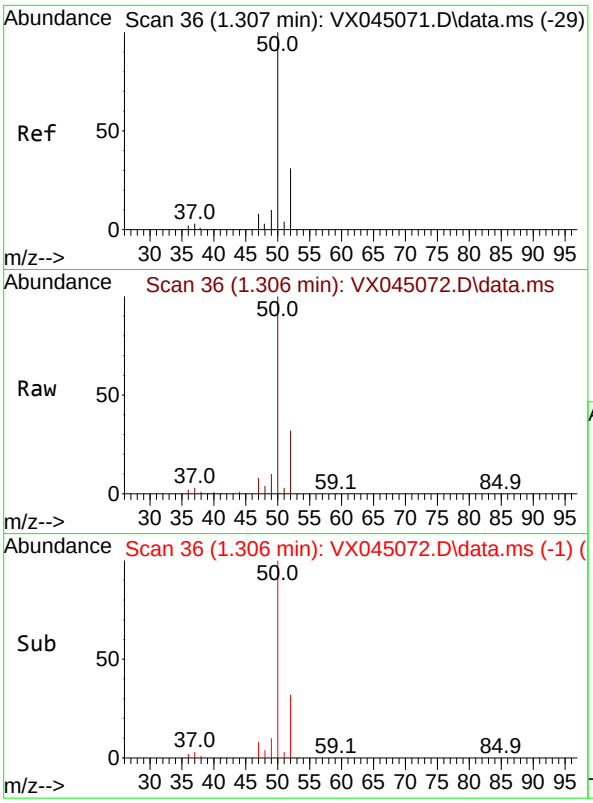


#2
Dichlorodifluoromethane
Concen: 90.869 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 85 Resp: 126718

Ion	Ratio	Lower	Upper
85	100		
87	32.1	17.4	52.3





#3
Chloromethane
Concen: 85.936 ug/l
RT: 1.306 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

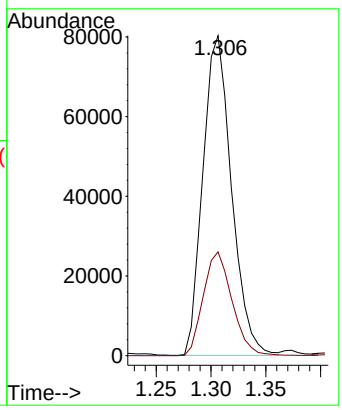
Tgt Ion: 50 Resp: 14582

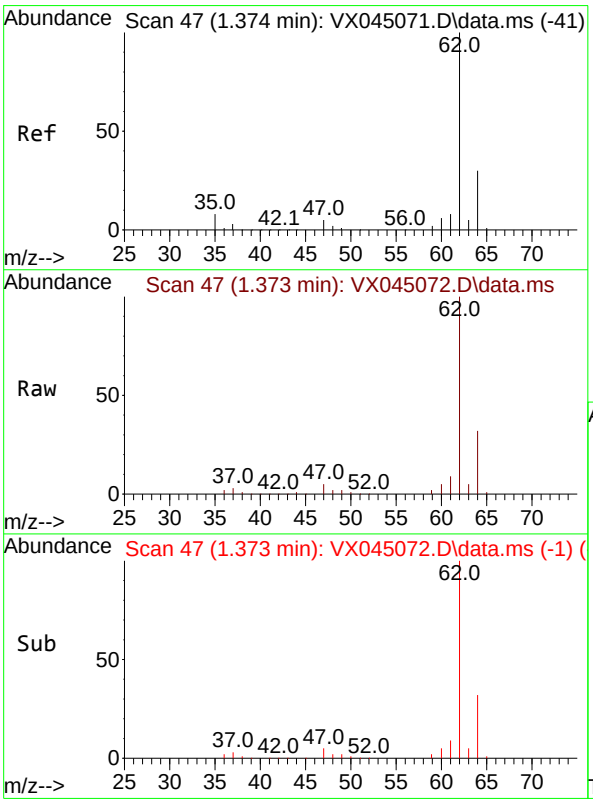
Ion	Ratio	Lower	Upper
50	100		
52	32.5	25.0	37.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

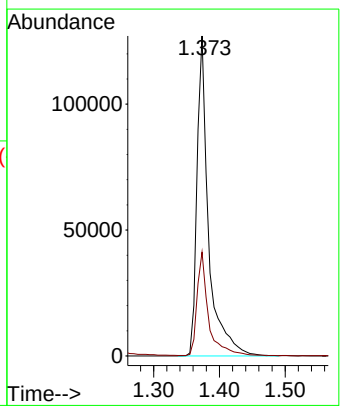


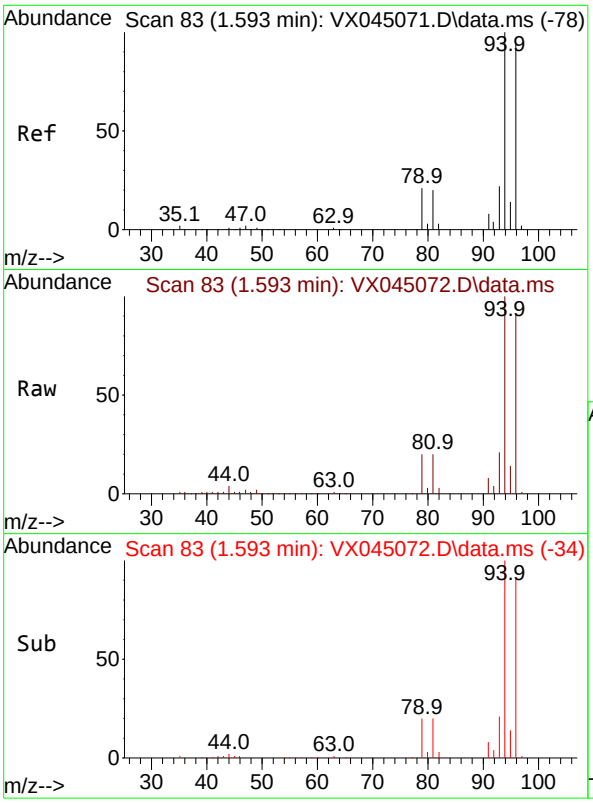


#4
Vinyl Chloride
Concen: 93.360 ug/l
RT: 1.373 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 62 Resp: 154734

Ion	Ratio	Lower	Upper
62	100		
64	32.4	24.3	36.5





#5
Bromomethane
Concen: 110.980 ug/l
RT: 1.593 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

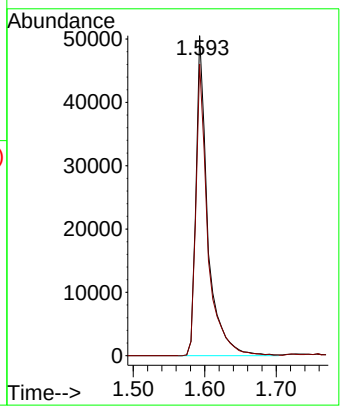
Tgt Ion: 94 Resp: 5750

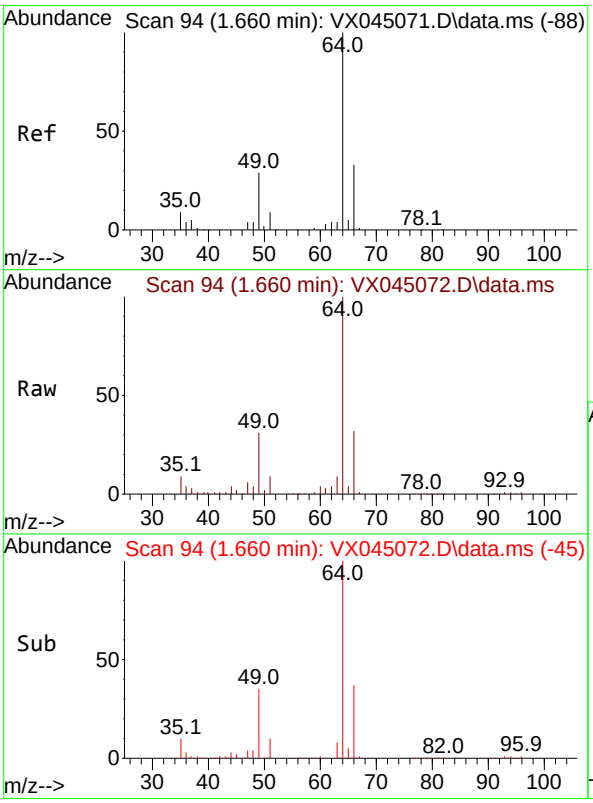
Ion	Ratio	Lower	Upper
94	100		
96	91.2	75.0	112.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

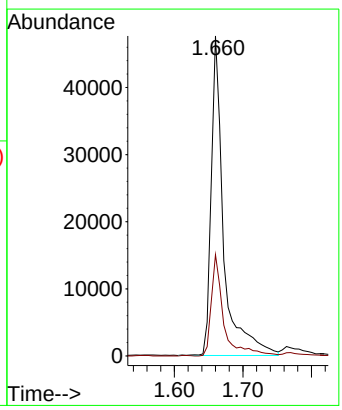


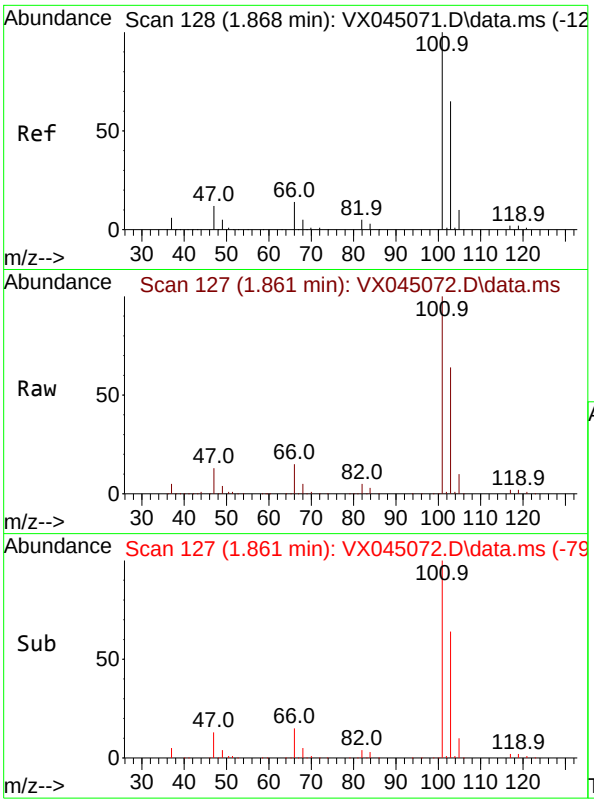


#6
Chloroethane
Concen: 95.351 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 64 Resp: 60155

Ion	Ratio	Lower	Upper
64	100		
66	31.7	26.7	40.1





#7
Trichlorofluoromethane
Concen: 93.594 ug/l
RT: 1.861 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

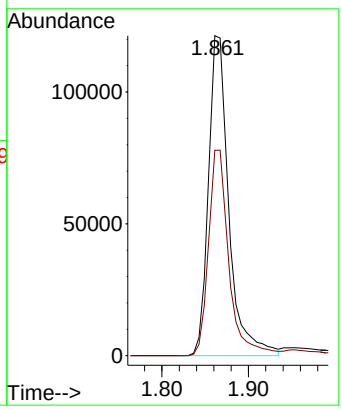
Tgt Ion:101 Resp: 19870

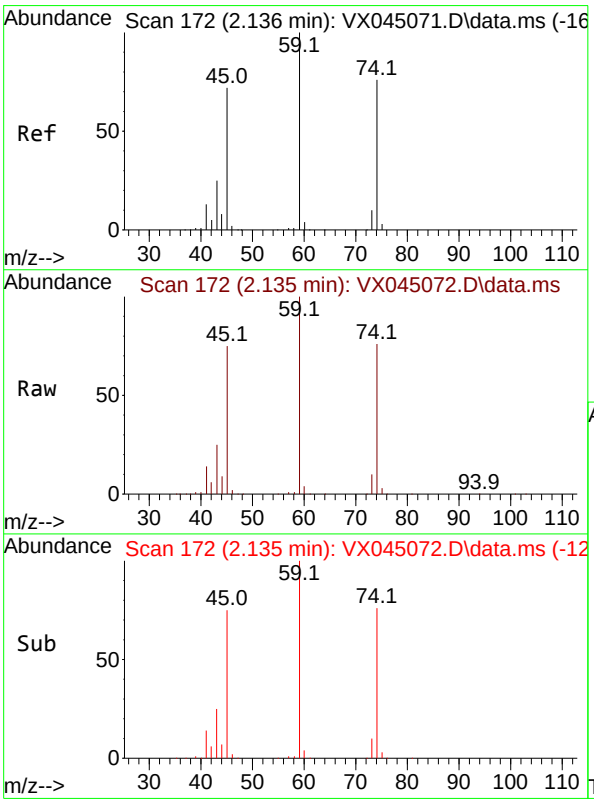
Ion	Ratio	Lower	Upper
101	100		
103	64.2	52.1	78.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

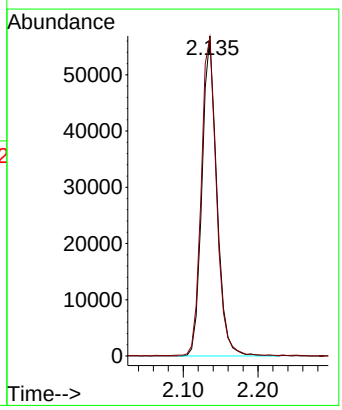


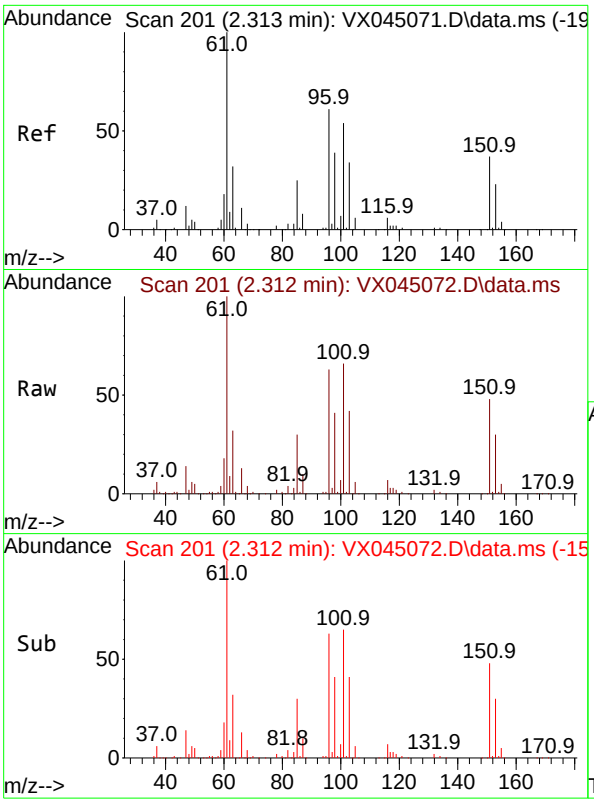


#8
Diethyl Ether
Concen: 101.441 ug/l
RT: 2.135 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 74 Resp: 78263

Ion	Ratio	Lower	Upper
74	100		
45	102.7	51.5	154.5





#9
1,1,2-Trichlorotrifluoroethane
Concen: 95.064 ug/l
RT: 2.312 min Scan# 2(
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion:101 Resp: 12051

Ion	Ratio	Lower	Upper
101	100		
85	46.5	36.2	54.4
151	72.4	56.4	84.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
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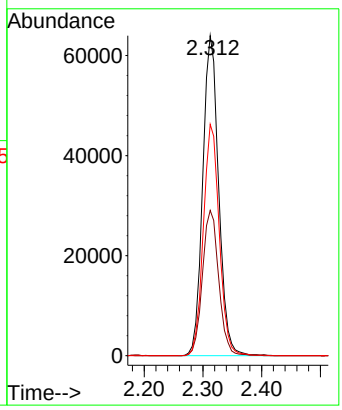
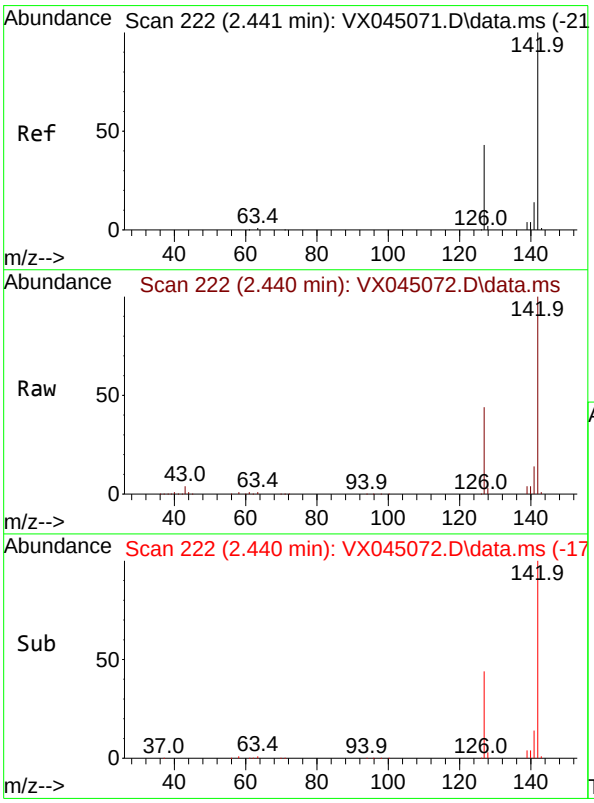
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

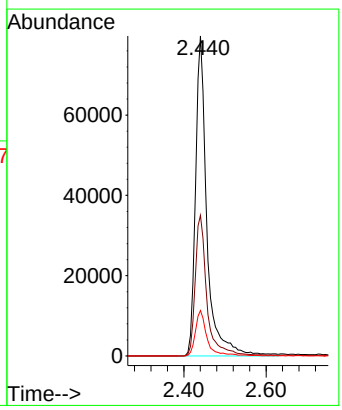


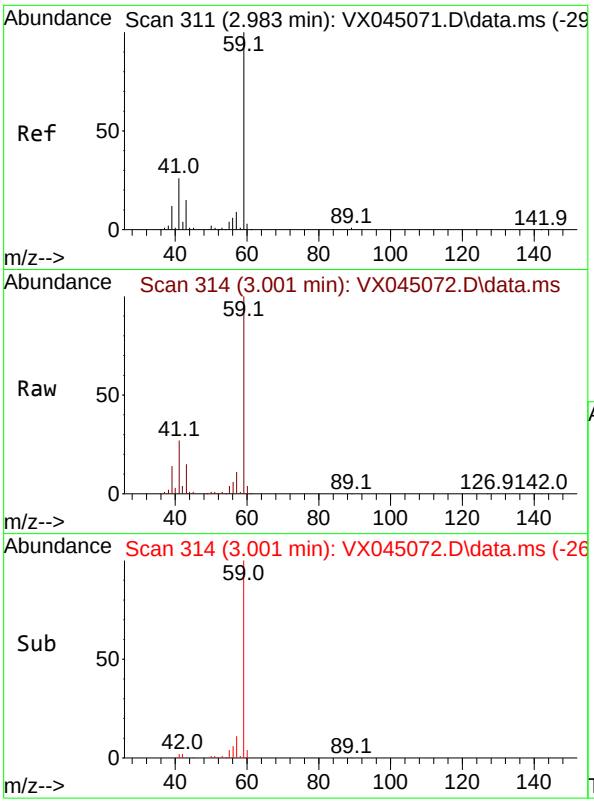


#10
Methyl Iodide
Concen: 94.425 ug/l
RT: 2.440 min Scan# 222
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion:142 Resp: 153466

Ion	Ratio	Lower	Upper
142	100		
127	45.0	35.4	53.2
141	14.4	11.6	17.4





#11
Tert butyl alcohol
Concen: 493.141 ug/l
RT: 3.001 min Scan# 3
Delta R.T. 0.018 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 59 Resp: 13501

Ion	Ratio	Lower	Upper
59	100		
57	10.4	7.8	11.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
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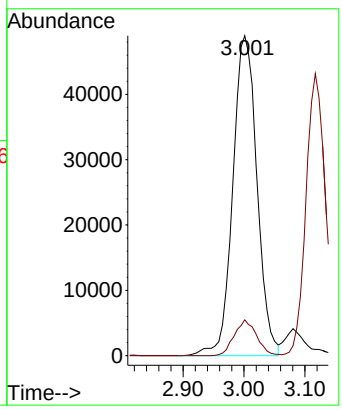
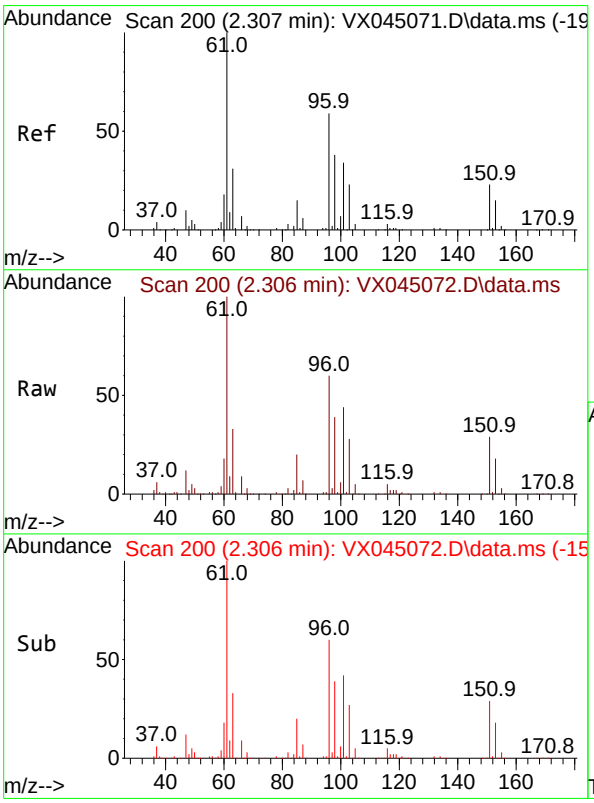
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

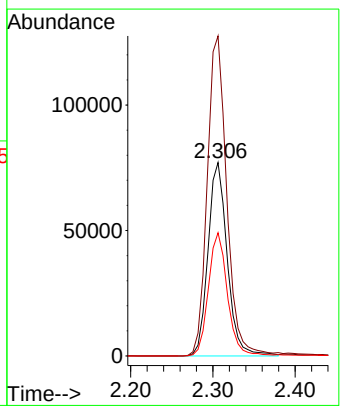


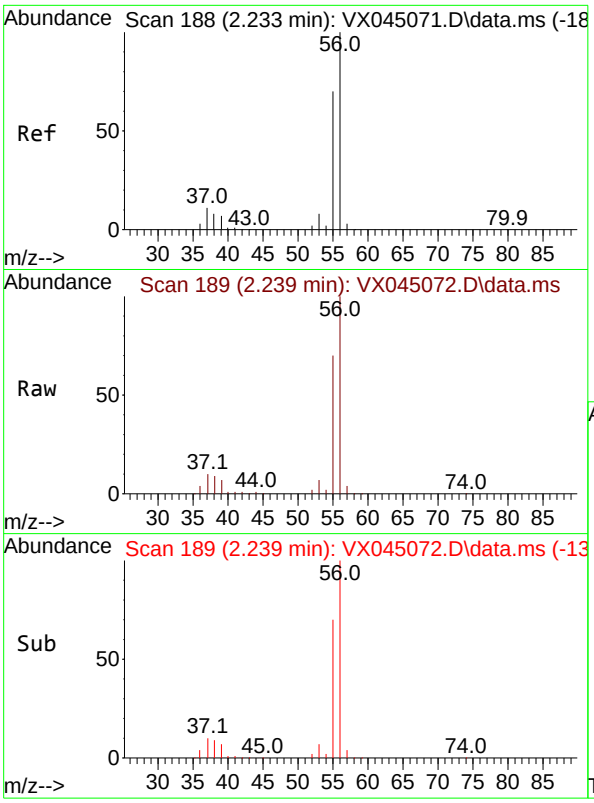


#12
1,1-Dichloroethene
Concen: 96.366 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 96 Resp: 125436

Ion	Ratio	Lower	Upper
96	100		
61	165.4	134.6	202.0
98	63.7	51.0	76.6





#13
Acrolein
Concen: 608.485 ug/l
RT: 2.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 56 Resp: 18041

Ion	Ratio	Lower	Upper
56	100		
55	69.8	56.2	84.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
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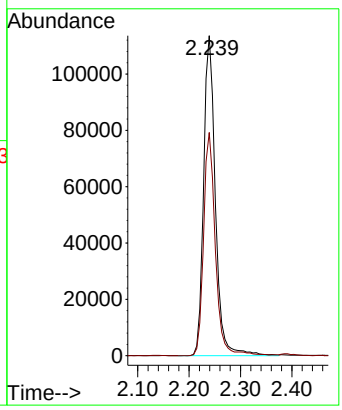
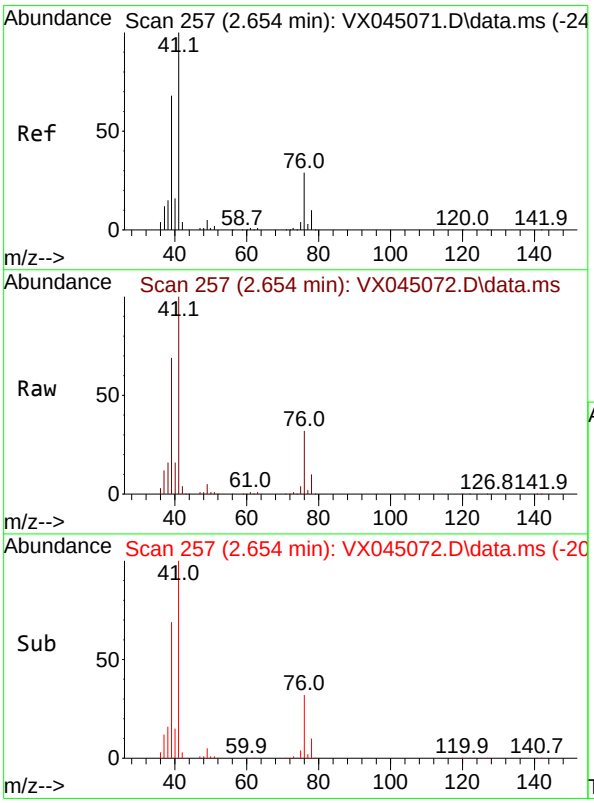
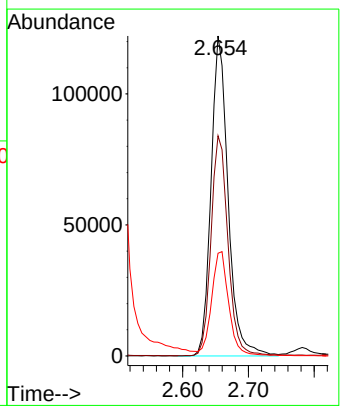


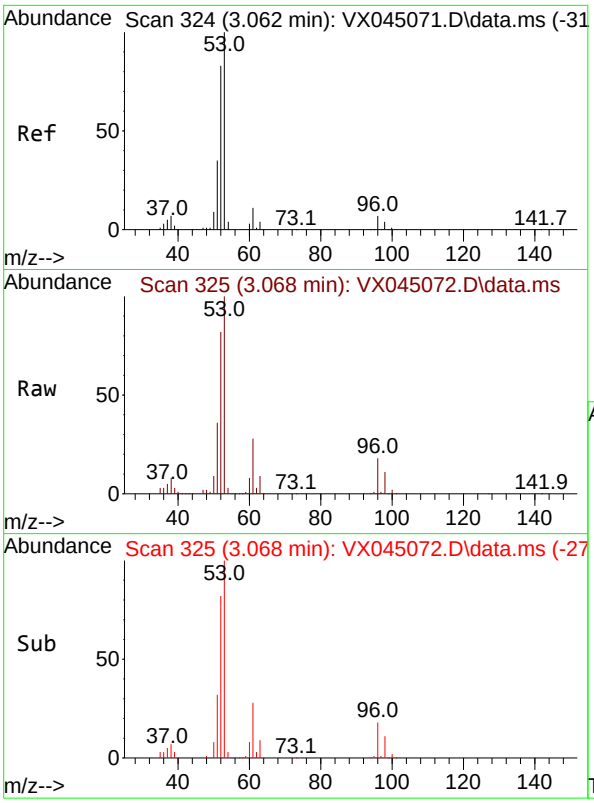


#14
Allyl chloride
Concen: 94.344 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 41 Resp: 220783

Ion	Ratio	Lower	Upper
41	100		
39	68.4	53.8	80.8
76	32.6	25.2	37.8





#15
Acrylonitrile
Concen: 526.749 ug/l
RT: 3.068 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 53 Resp: 39194

Ion	Ratio	Lower	Upper
53	100		
52	82.9	66.2	99.2
51	36.6	29.0	43.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
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Reviewed By :John Carlone 02/28/2025
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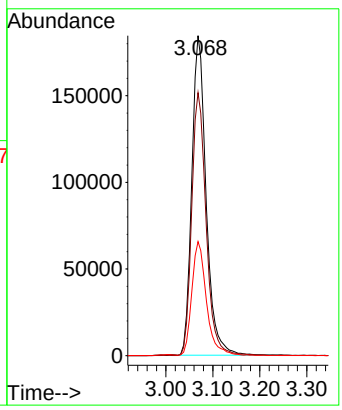
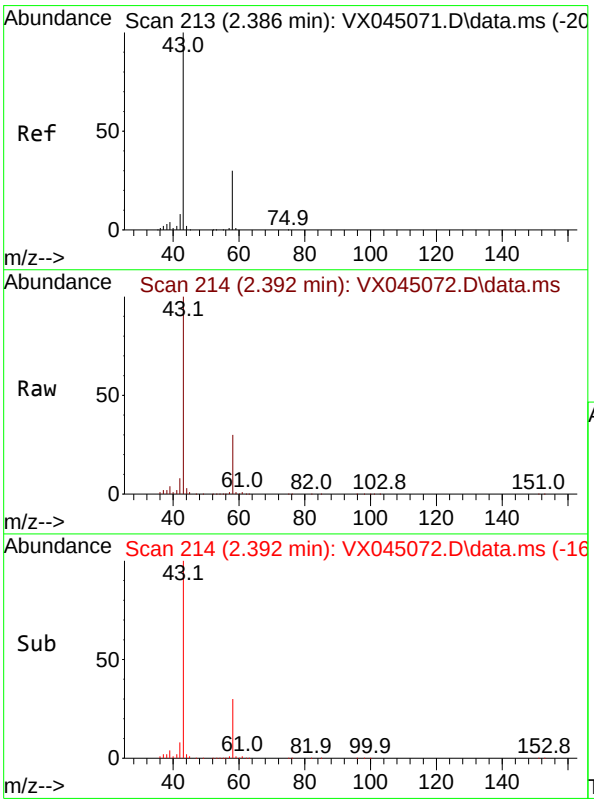
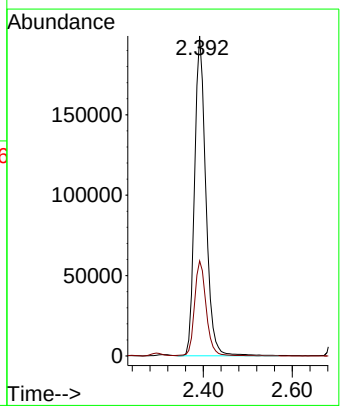


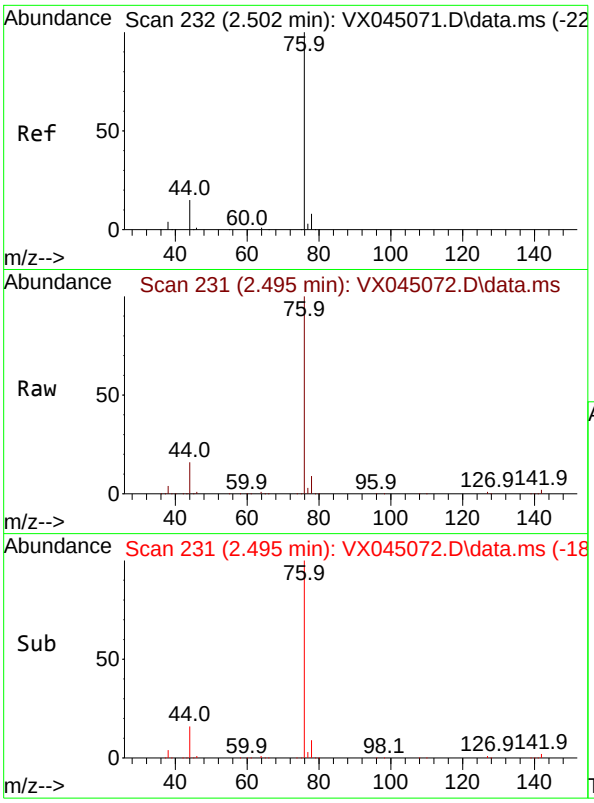


#16
Acetone
Concen: 566.991 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.006 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 43 Resp: 348698

Ion	Ratio	Lower	Upper
43	100		
58	29.7	24.2	36.4





#17
Carbon Disulfide
Concen: 97.574 ug/l
RT: 2.495 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 76 Resp: 34557

Ion	Ratio	Lower	Upper
76	100		
78	8.7	6.6	9.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
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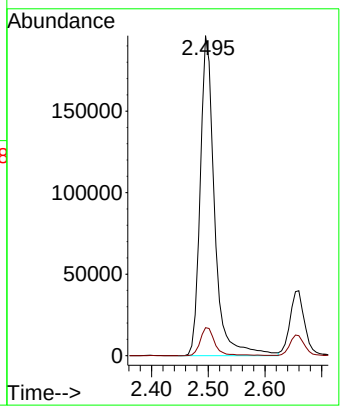
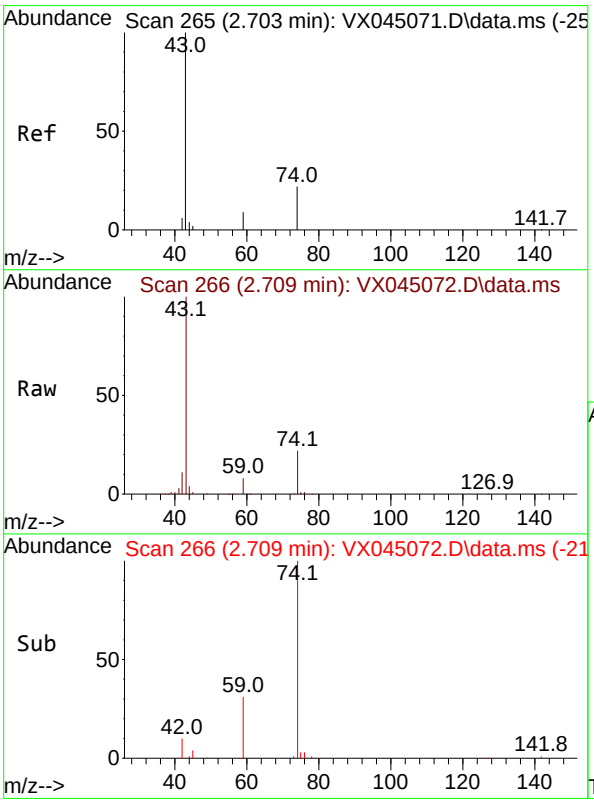
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

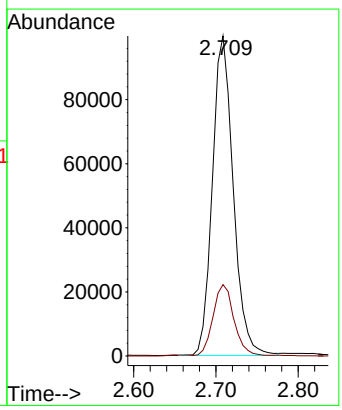


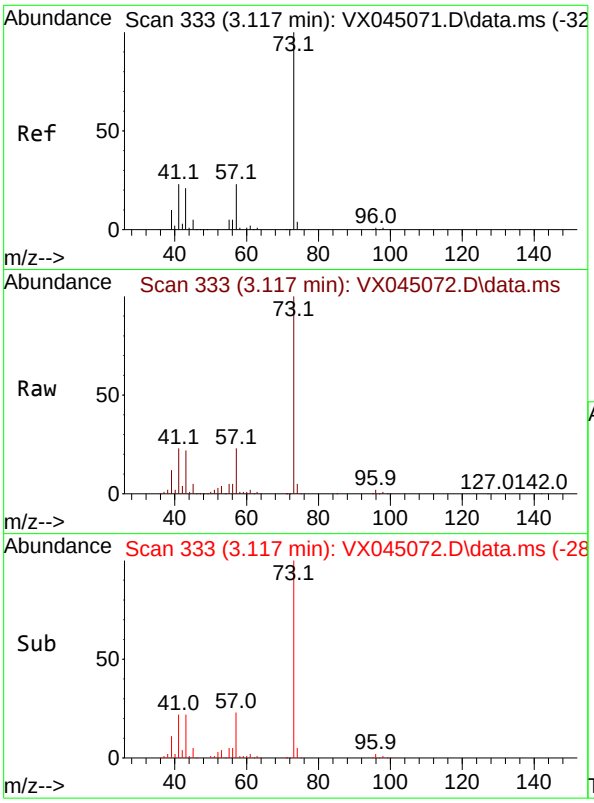


#18
Methyl Acetate
Concen: 94.899 ug/l
RT: 2.709 min Scan# 266
Delta R.T. 0.006 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 43 Resp: 175784

Ion	Ratio	Lower	Upper
43	100		
74	22.7	17.4	26.2





#19
Methyl tert-butyl Ether
Concen: 103.661 ug/l
RT: 3.117 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 73 Resp: 43141

Ion	Ratio	Lower	Upper
73	100		
57	23.0	18.5	27.7

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
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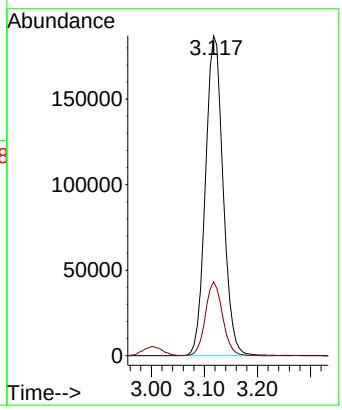
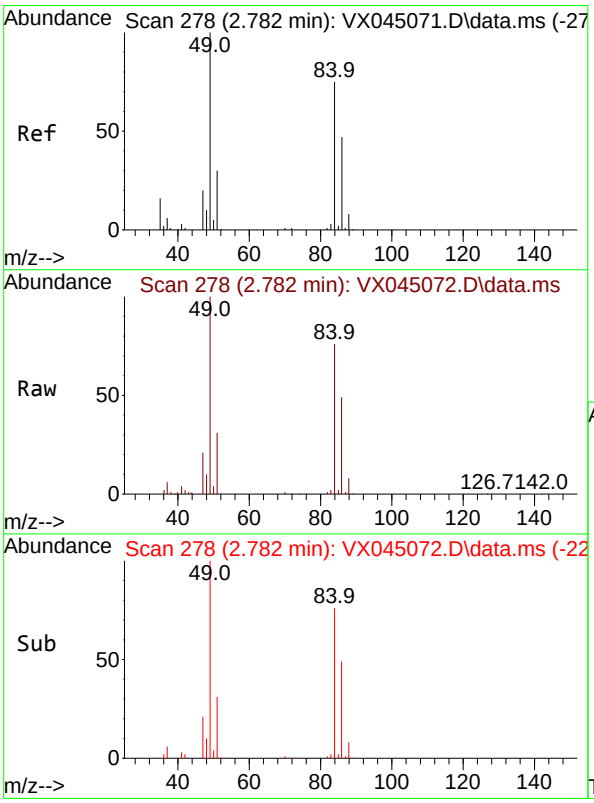
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

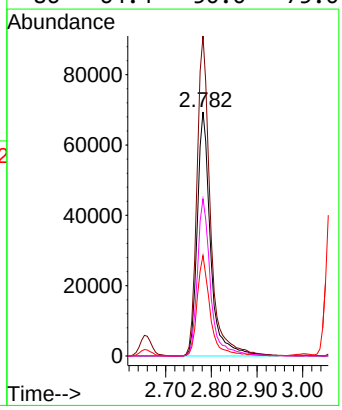


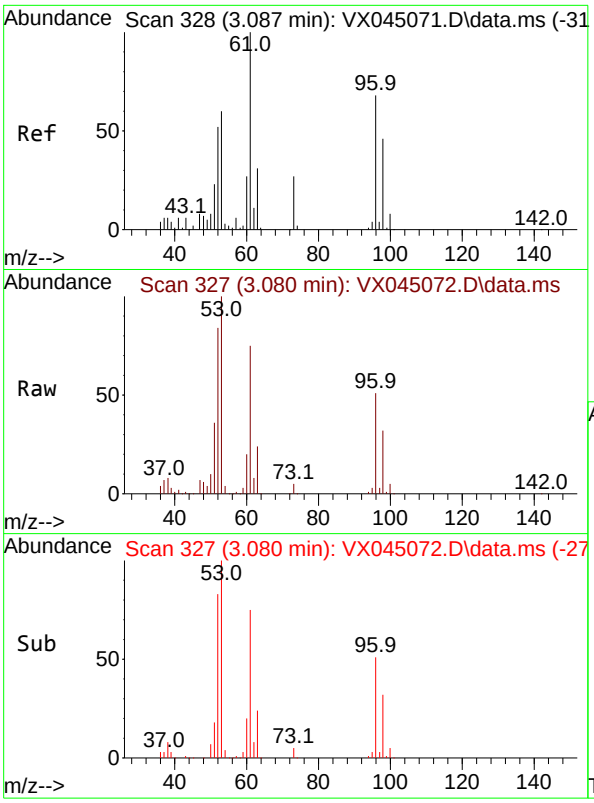


#20
Methylene Chloride
Concen: 96.381 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 84 Resp: 140388

Ion	Ratio	Lower	Upper
84	100		
49	131.2	106.5	159.7
51	41.2	32.1	48.1
86	64.4	50.0	75.0





#21
trans-1,2-Dichloroethene
Concen: 100.164 ug/l
RT: 3.080 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 96 Resp: 12823

Ion	Ratio	Lower	Upper
96	100		
61	147.3	117.0	175.4
98	63.0	53.4	80.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
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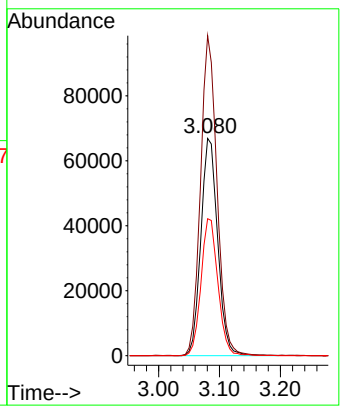
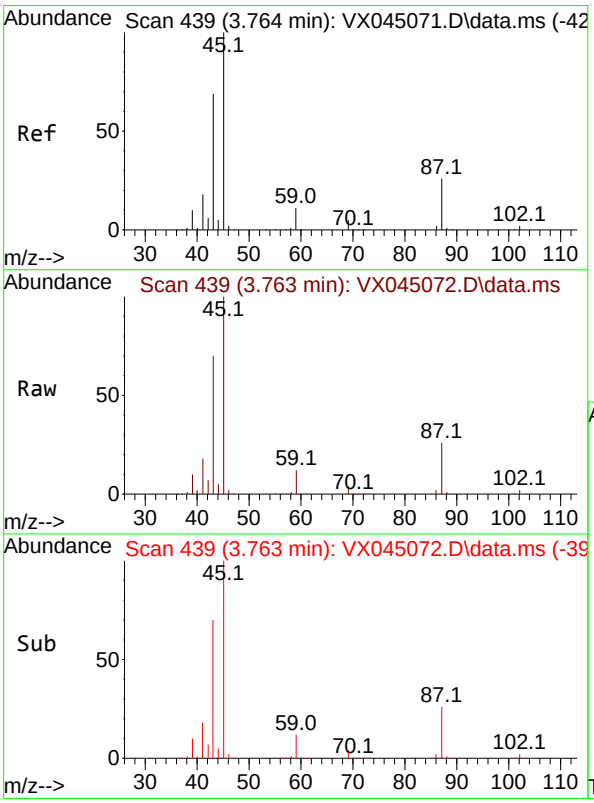
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

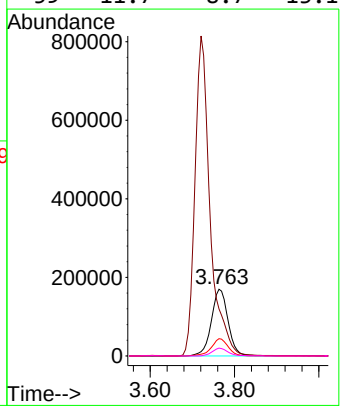


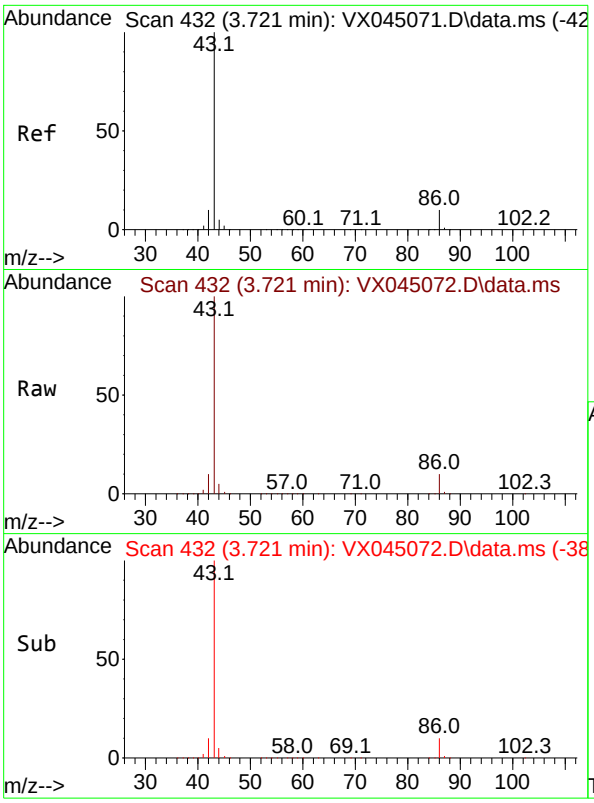


#22
Diisopropyl ether
Concen: 104.489 ug/l
RT: 3.763 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 45 Resp: 467534

Ion	Ratio	Lower	Upper
45	100		
43	70.4	54.9	82.3
87	26.0	21.0	31.4
59	11.7	8.7	13.1





#23
Vinyl Acetate
Concen: 554.219 ug/l
RT: 3.721 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 43 Resp: 203588

Ion	Ratio	Lower	Upper
43	100		
86	9.9	8.1	12.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
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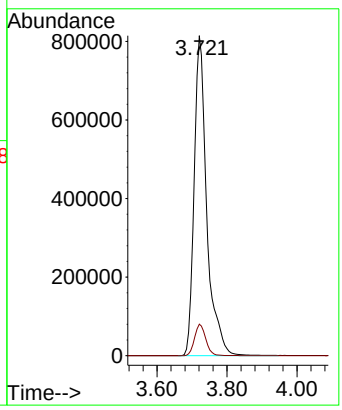
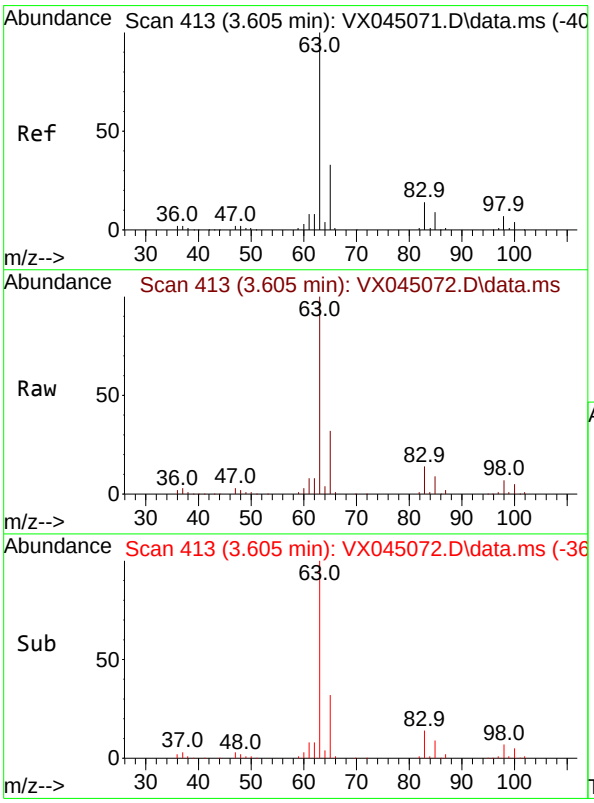
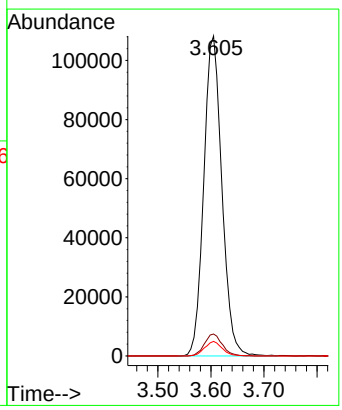


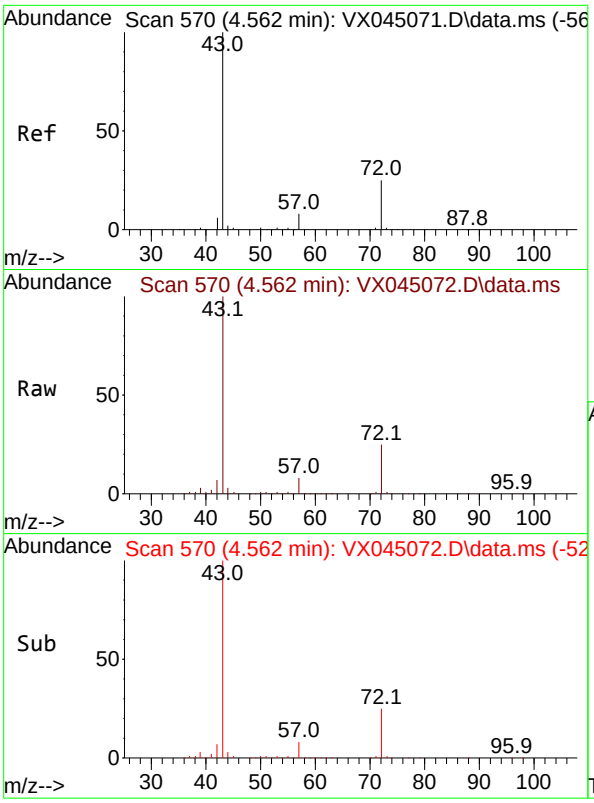


#24
1,1-Dichloroethane
Concen: 102.805 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 63 Resp: 257023

Ion	Ratio	Lower	Upper
63	100		
98	6.8	3.4	10.2
100	4.6	2.1	6.5





#25
2-Butanone
Concen: 563.952 ug/l
RT: 4.562 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 43 Resp: 55918

Ion	Ratio	Lower	Upper
43	100		
72	24.6	20.0	30.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
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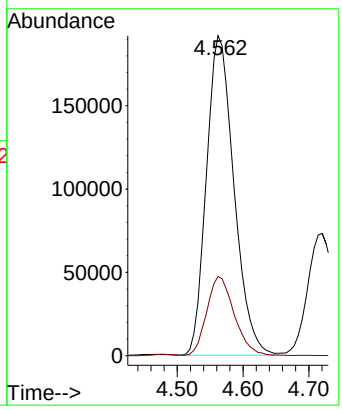
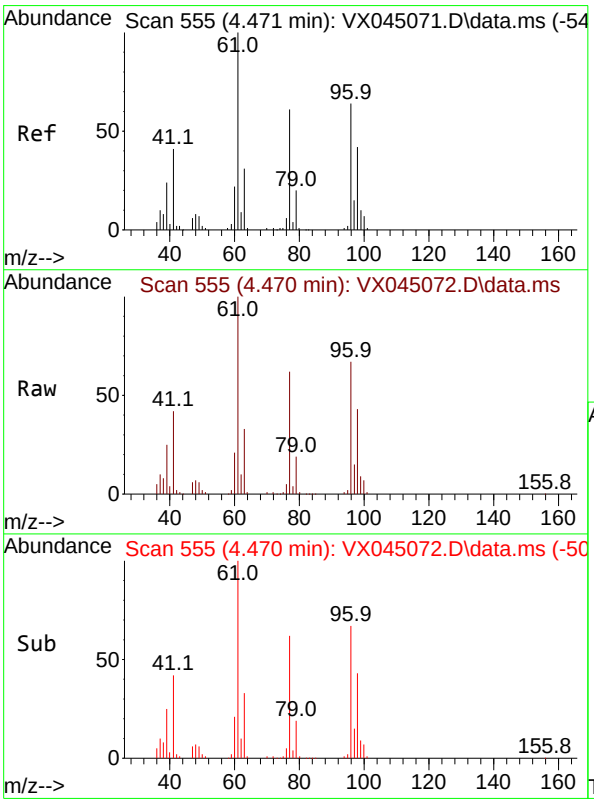
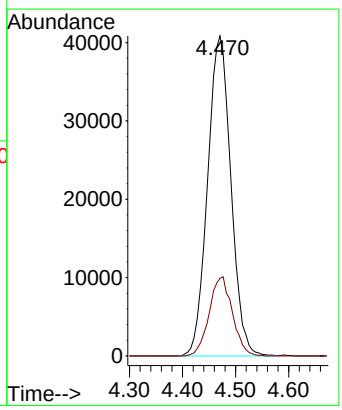


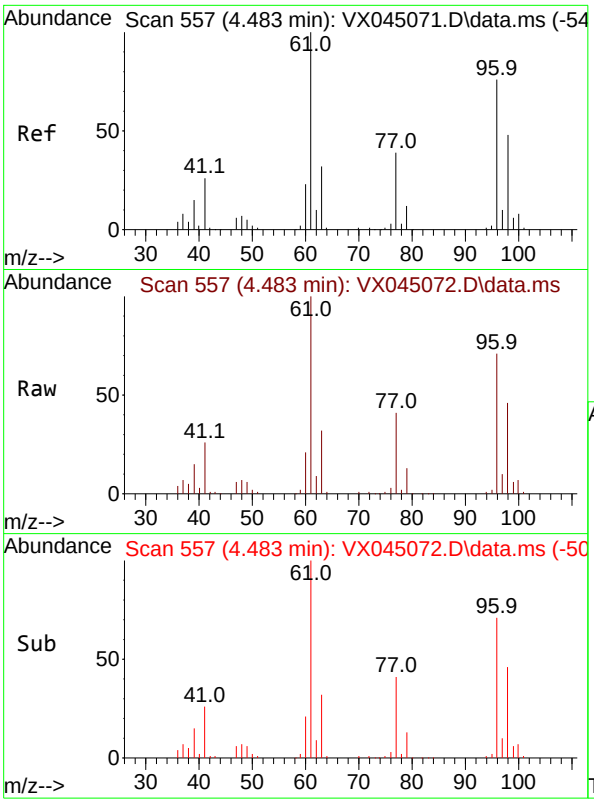


#26
2,2-Dichloropropane
Concen: 67.148 ug/l
RT: 4.470 min Scan# 555
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 77 Resp: 124805

Ion	Ratio	Lower	Upper
77	100		
97	24.6	12.4	37.0





#27
cis-1,2-Dichloroethene
Concen: 100.568 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 96 Resp: 15519

Ion	Ratio	Lower	Upper
96	100		
61	143.8	0.0	283.2
98	64.3	0.0	128.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
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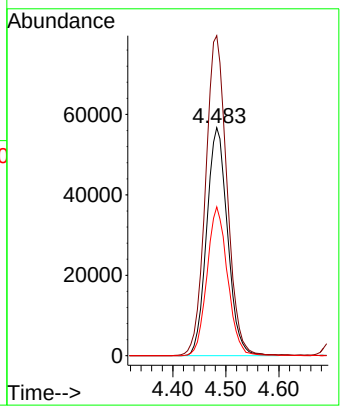
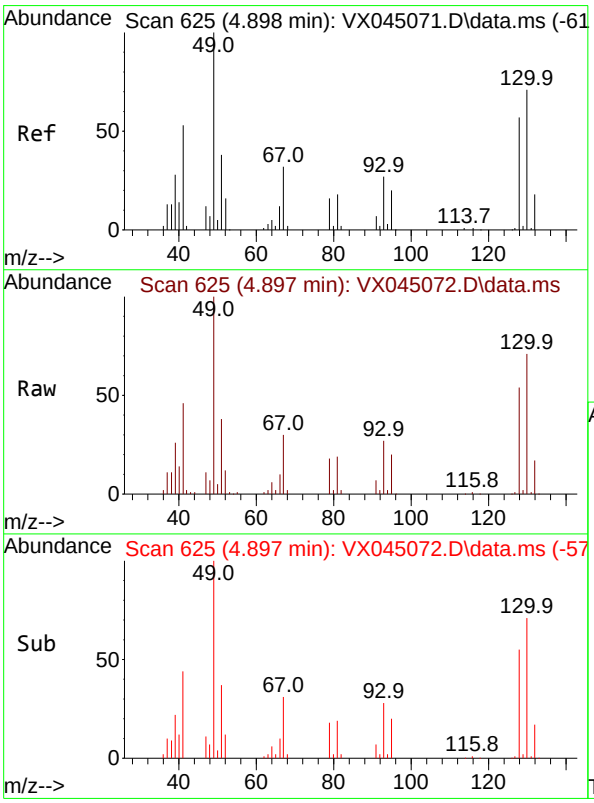
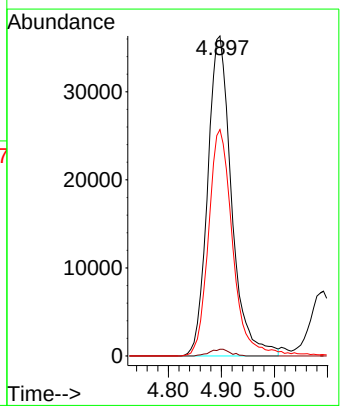


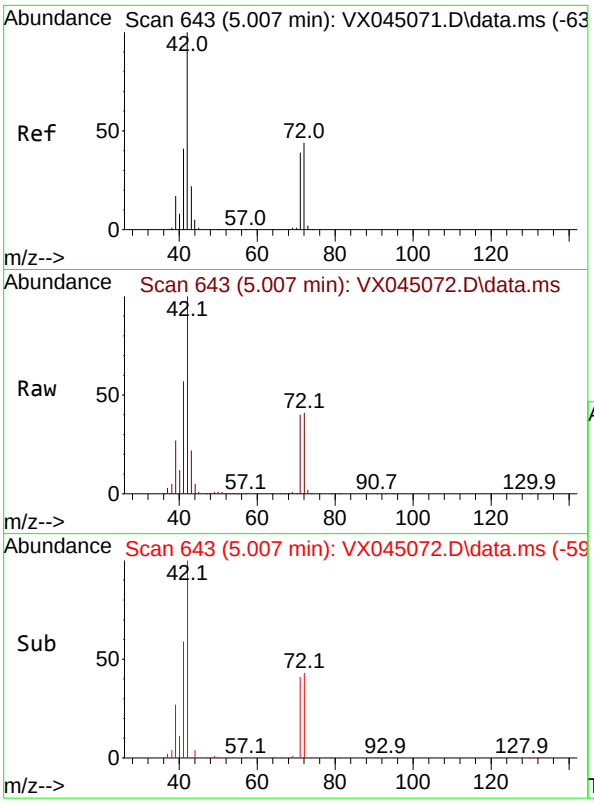


#28
Bromochloromethane
Concen: 94.428 ug/l
RT: 4.897 min Scan# 625
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 49 Resp: 113848

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	3.4
130	72.2	56.1	84.1





#29
Tetrahydrofuran
Concen: 556.465 ug/l
RT: 5.007 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 42 Resp: 36556

Ion	Ratio	Lower	Upper
42	100		
72	42.1	34.1	51.1
71	39.2	31.4	47.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
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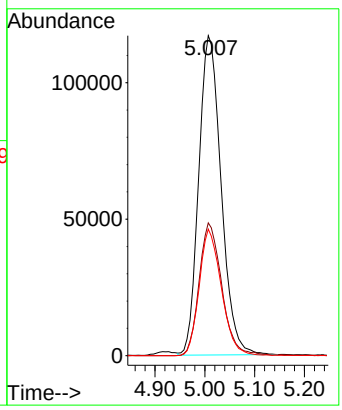
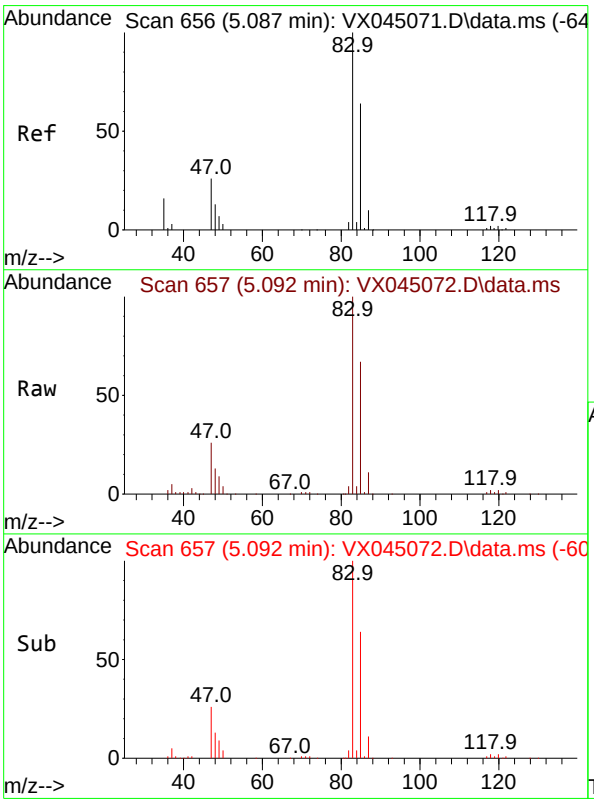
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

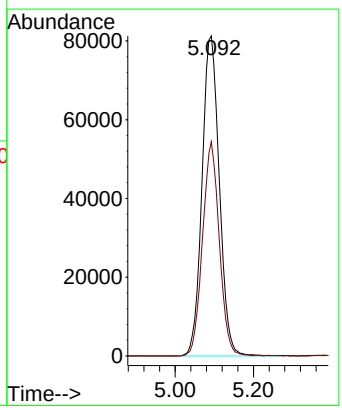


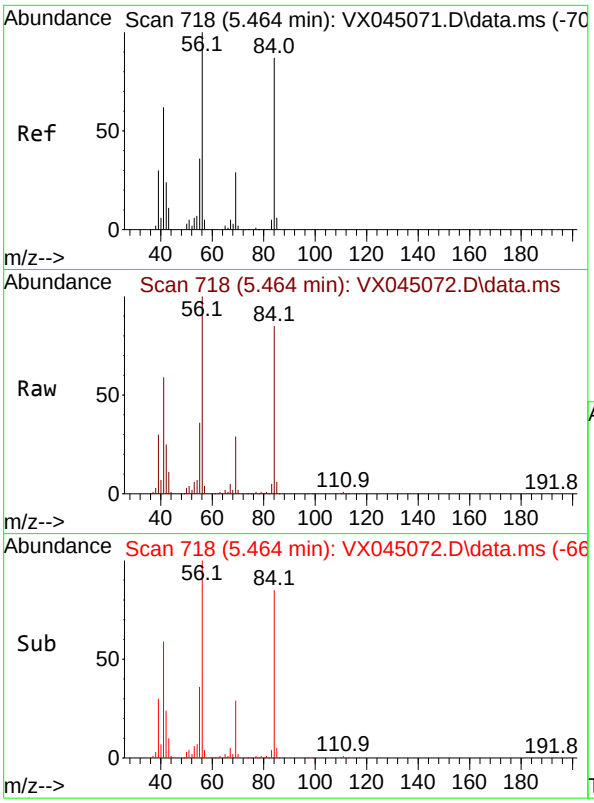


#30
Chloroform
Concen: 101.814 ug/l
RT: 5.092 min Scan# 657
Delta R.T. 0.006 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 83 Resp: 248978

Ion	Ratio	Lower	Upper
83	100		
85	66.9	51.4	77.2





#31
Cyclohexane
Concen: 100.711 ug/l
RT: 5.464 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 56 Resp: 23108

Ion	Ratio	Lower	Upper
56	100		
69	29.1	23.4	35.2
84	83.3	69.4	104.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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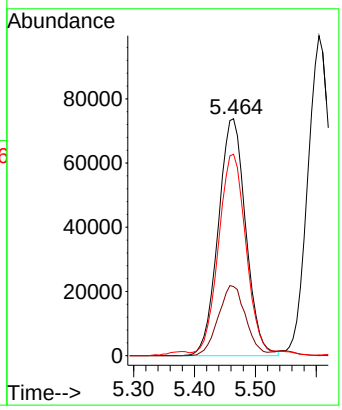
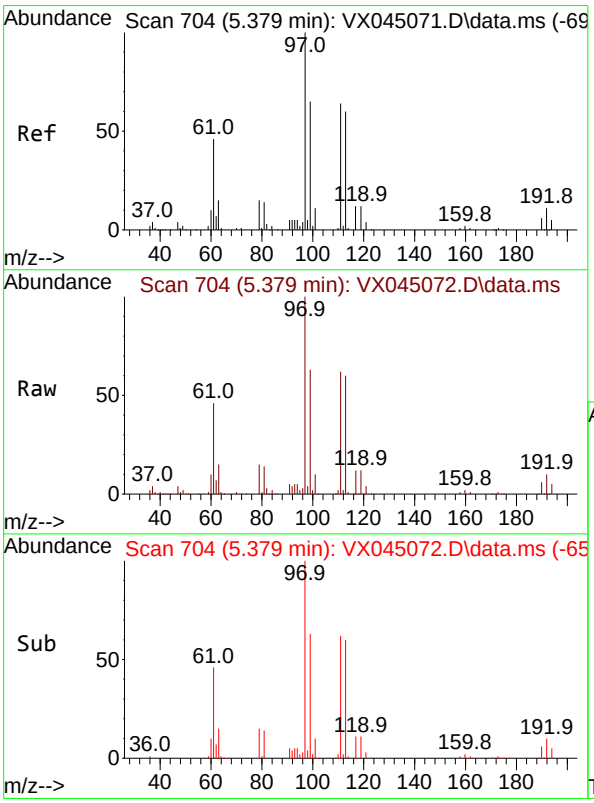
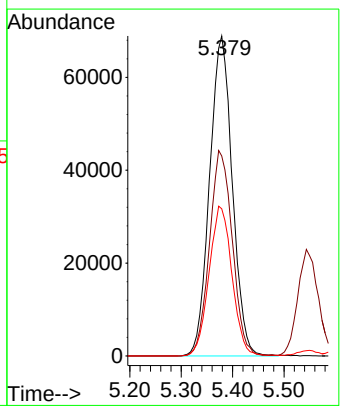


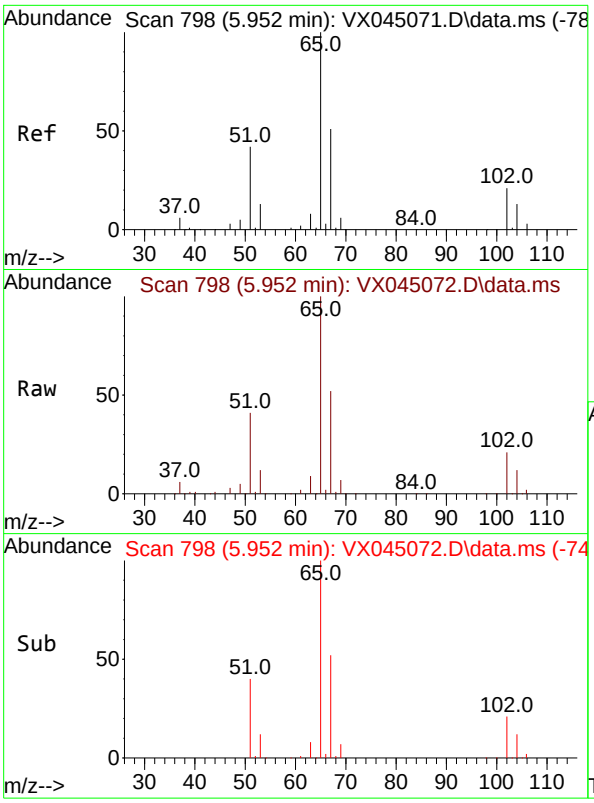


#32
1,1,1-Trichloroethane
Concen: 102.638 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 97 Resp: 211302

Ion	Ratio	Lower	Upper
97	100		
99	64.7	51.6	77.4
61	47.3	38.4	57.6





#33
1,2-Dichloroethane-d4
Concen: 106.011 ug/l
RT: 5.952 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 65 Resp: 15845

Ion	Ratio	Lower	Upper
65	100		
67	52.5	0.0	106.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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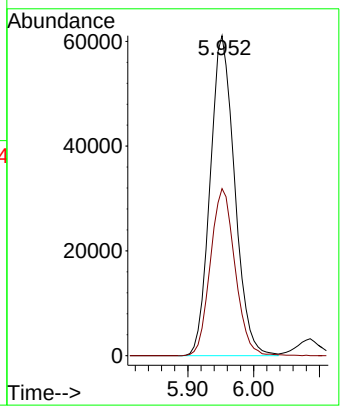
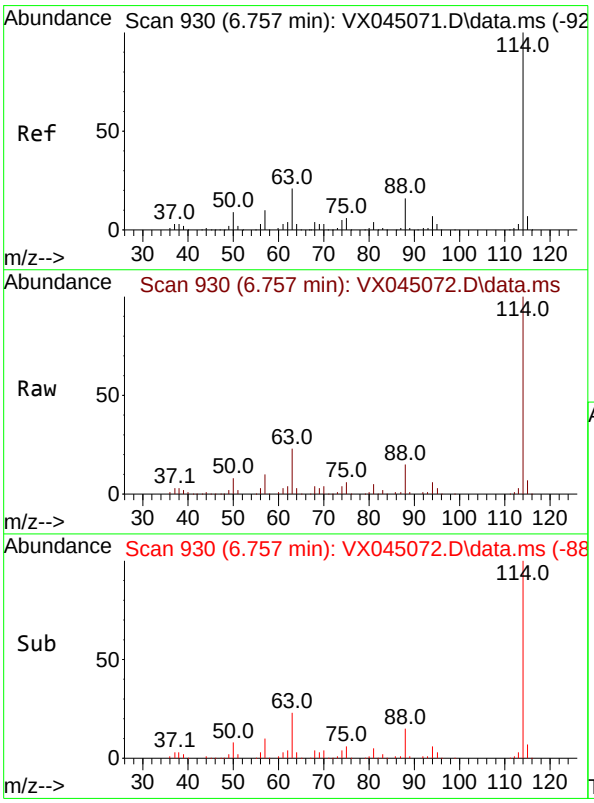
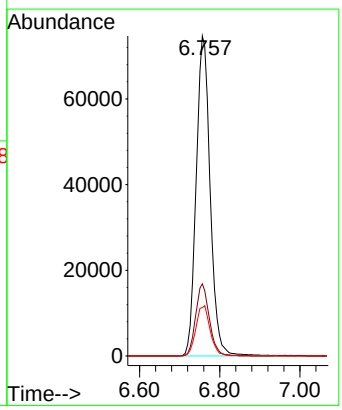


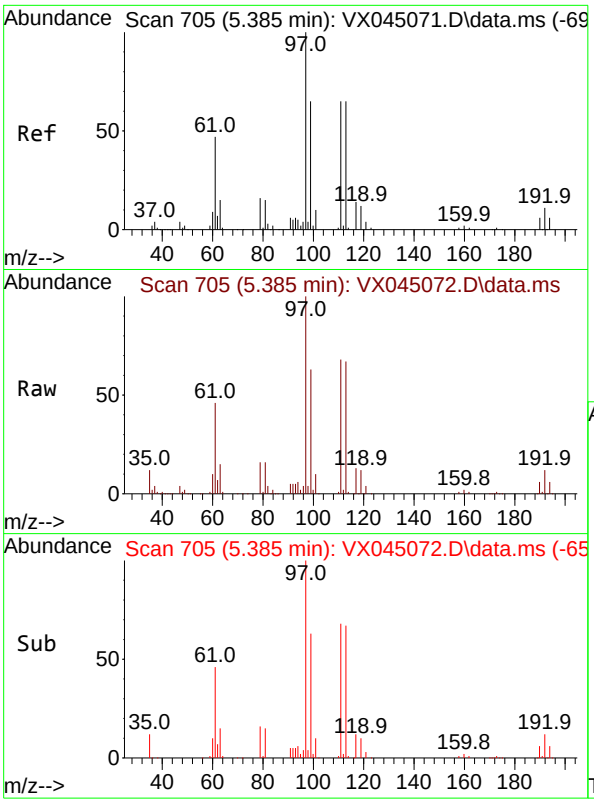


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion:114 Resp: 181031

Ion	Ratio	Lower	Upper
114	100		
63	22.5	0.0	41.8
88	15.1	0.0	32.8





#35
Dibromofluoromethane
Concen: 104.110 ug/l
RT: 5.385 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion:113 Resp: 12318

Ion	Ratio	Lower	Upper
113	100		
111	102.1	81.8	122.6
192	17.5	14.3	21.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
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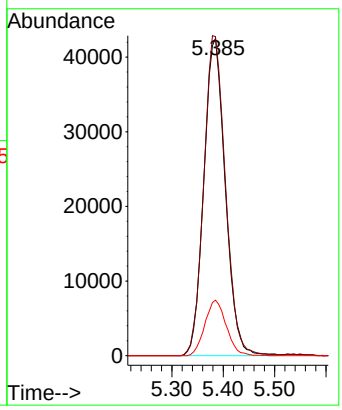
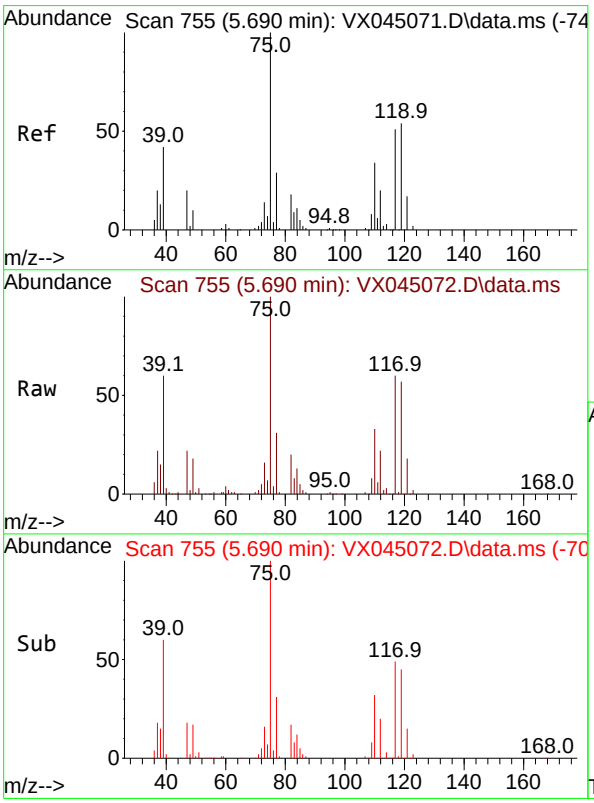
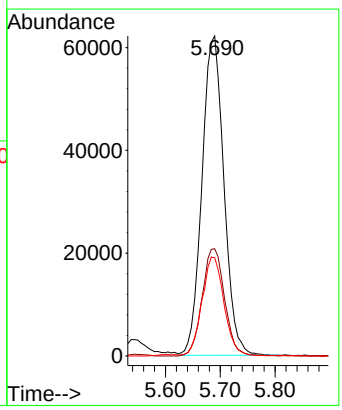


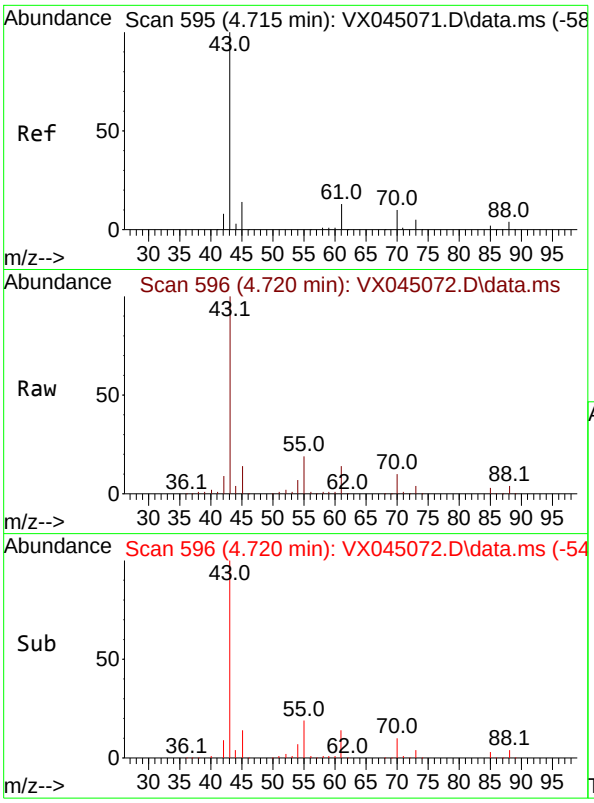


#36
1,1-Dichloropropene
Concen: 101.258 ug/l
RT: 5.690 min Scan# 755
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 75 Resp: 172295

Ion	Ratio	Lower	Upper
75	100		
110	34.4	16.9	50.6
77	31.0	24.5	36.7





#37
Ethyl Acetate
Concen: 113.796 ug/l
RT: 4.720 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 43 Resp: 22032

Ion	Ratio	Lower	Upper
43	100		
61	12.6	10.8	16.2
70	9.6	7.7	11.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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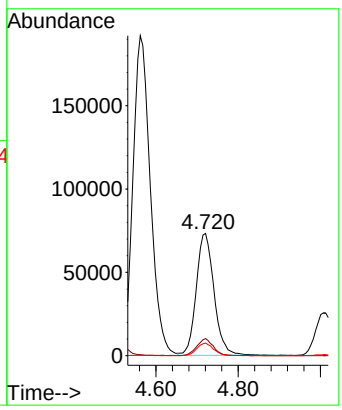
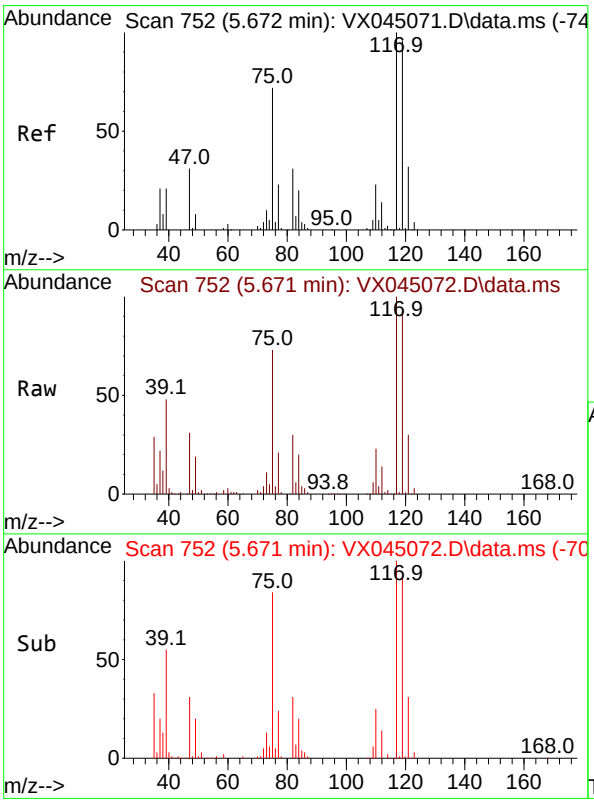
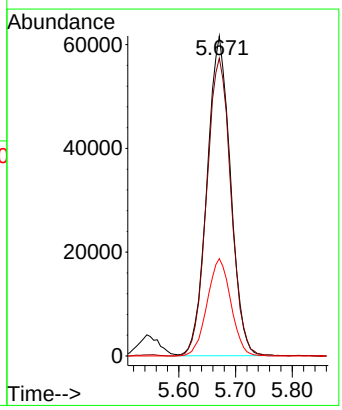


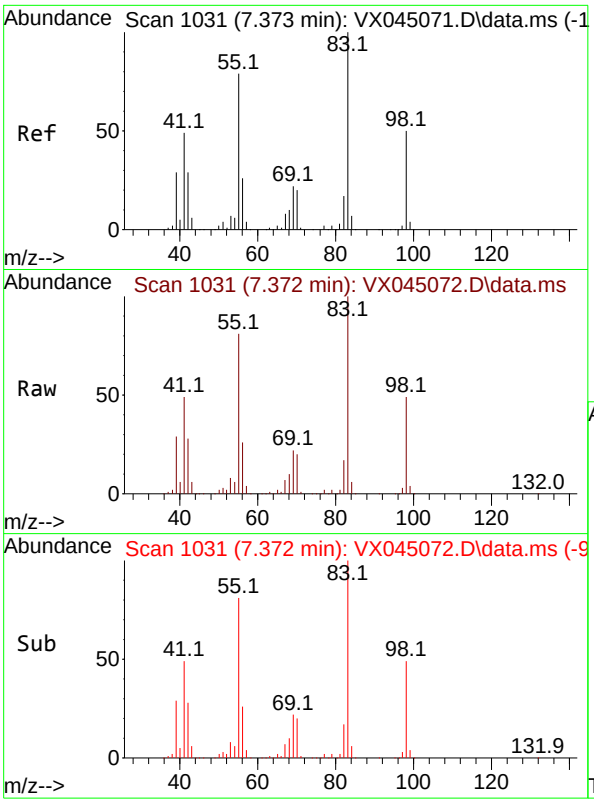


#38
Carbon Tetrachloride
Concen: 105.940 ug/l
RT: 5.671 min Scan# 752
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion:117 Resp: 177219

Ion	Ratio	Lower	Upper
117	100		
119	93.0	76.7	115.1
121	30.4	25.5	38.3





#39
Methylcyclohexane
Concen: 101.175 ug/l
RT: 7.372 min Scan# 1(
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 83 Resp: 21985(

Ion	Ratio	Lower	Upper
83	100		
55	80.6	63.0	94.4
98	49.5	39.7	59.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
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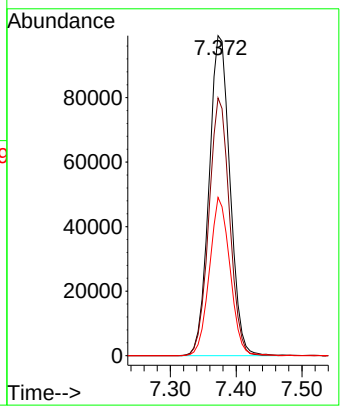
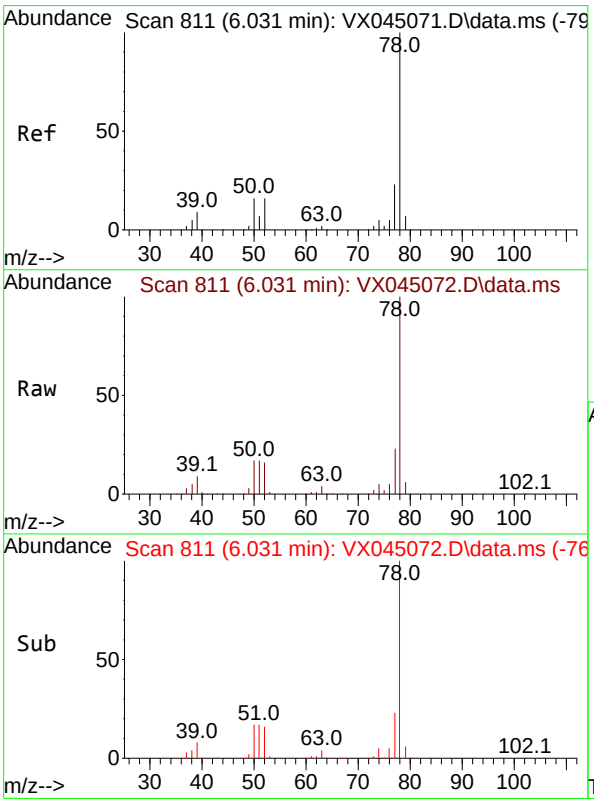
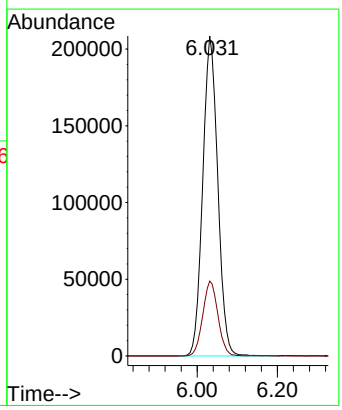


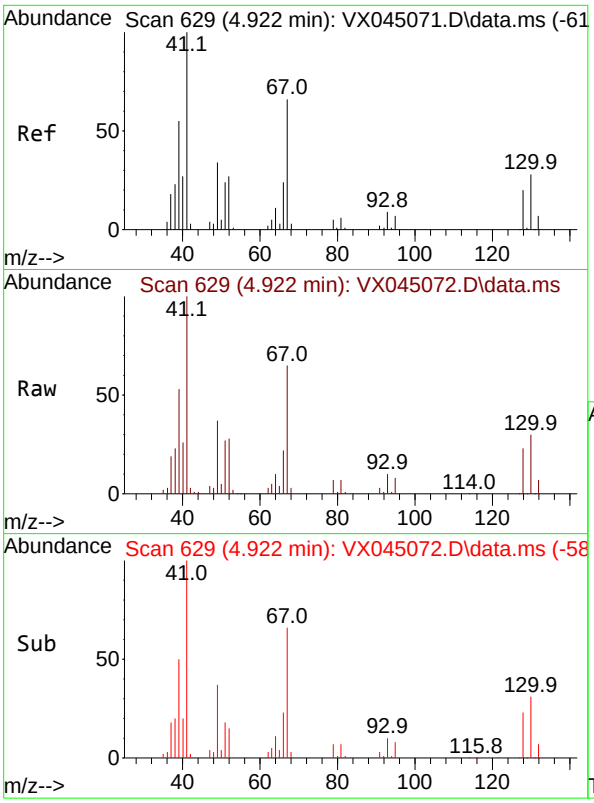


#40
Benzene
Concen: 101.908 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 78 Resp: 541974

Ion	Ratio	Lower	Upper
78	100		
77	23.4	18.8	28.2





#41
Methacrylonitrile
Concen: 116.205 ug/l
RT: 4.922 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 41 Resp: 12018

Ion	Ratio	Lower	Upper
41	100		
39	54.3	44.6	67.0
67	68.3	53.9	80.9
52	29.9	23.3	34.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

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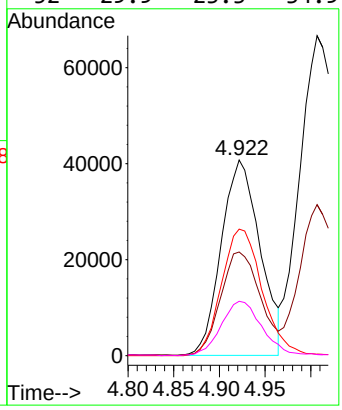
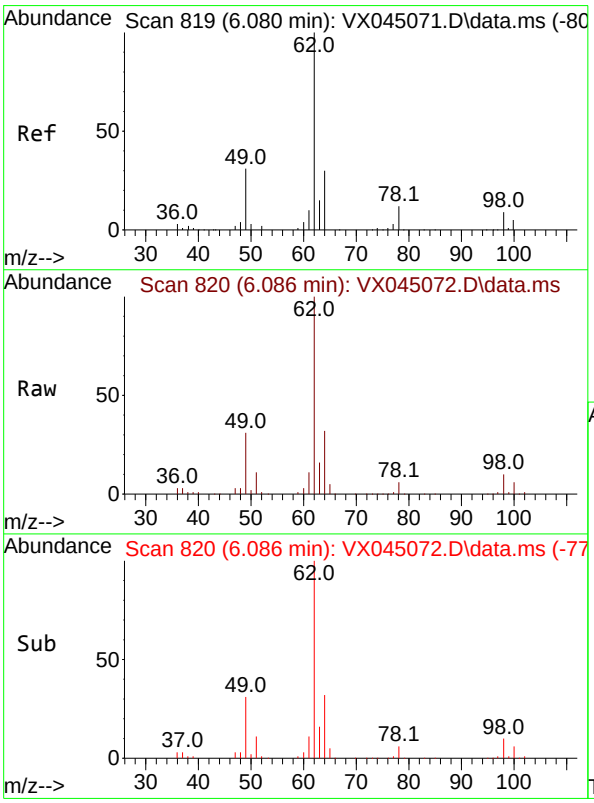
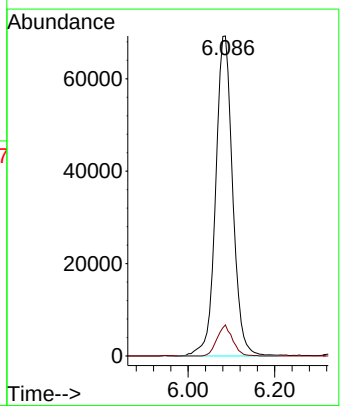


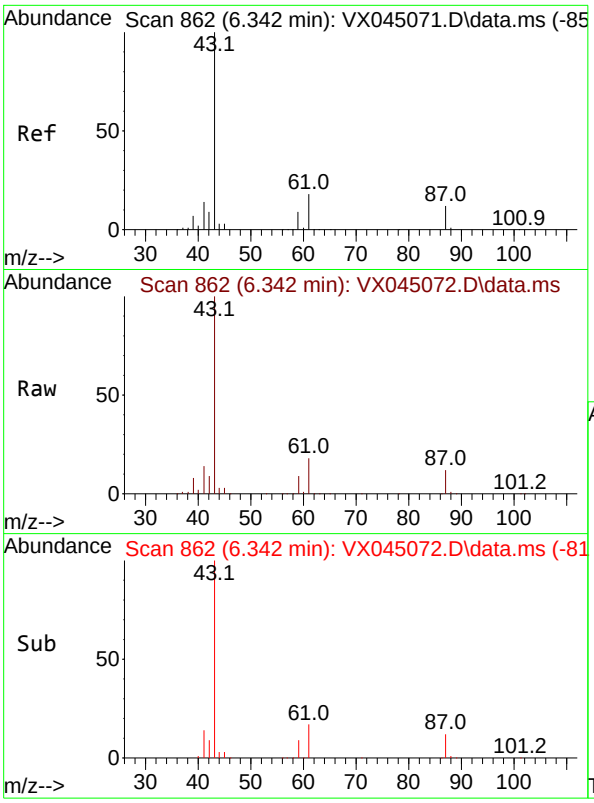


#42
1,2-Dichloroethane
Concen: 110.158 ug/l
RT: 6.086 min Scan# 820
Delta R.T. 0.006 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 62 Resp: 189857

Ion	Ratio	Lower	Upper
62	100		
98	8.8	0.0	18.2





#43
Isopropyl Acetate
Concen: 109.806 ug/l
RT: 6.342 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 43 Resp: 33841

Ion	Ratio	Lower	Upper
43	100		
61	18.9	14.9	22.3
87	12.3	9.4	14.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
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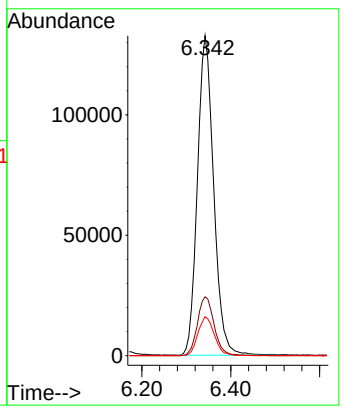
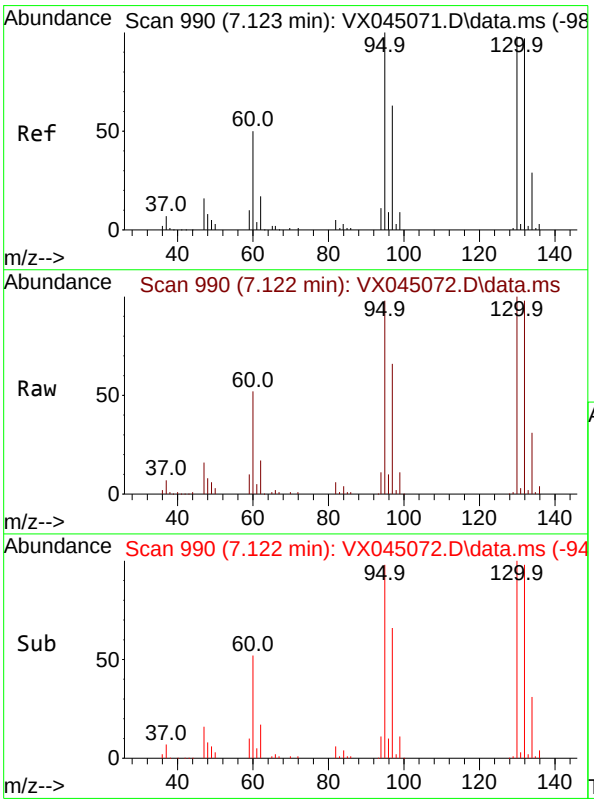
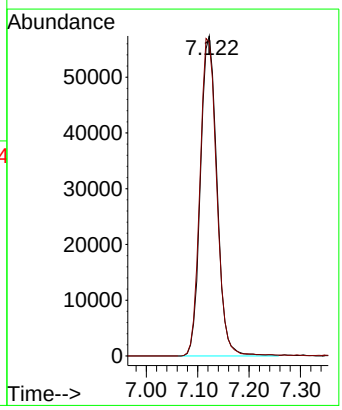


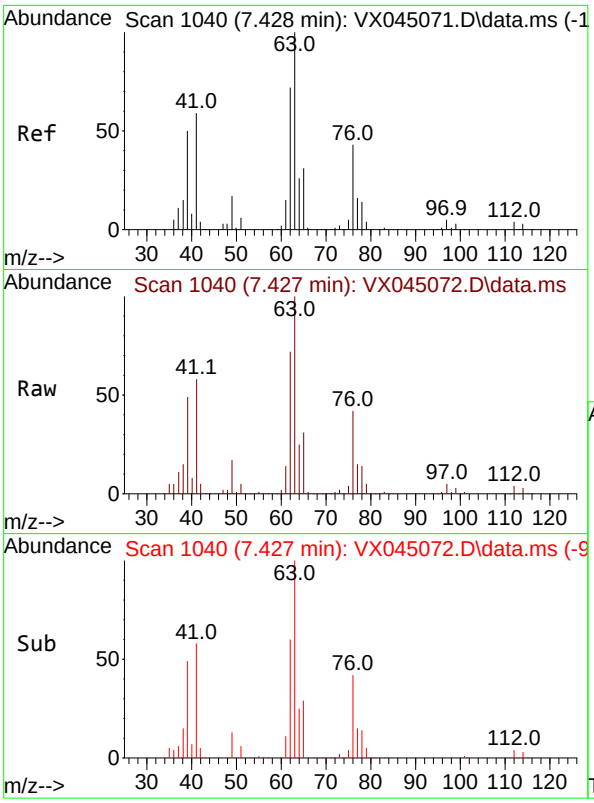


#44
Trichloroethene
Concen: 105.402 ug/l
RT: 7.122 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion:130 Resp: 128124

Ion	Ratio	Lower	Upper
130	100		
95	98.1	0.0	205.0





#45
1,2-Dichloropropane
Concen: 102.898 ug/l
RT: 7.427 min Scan# 1(
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 63 Resp: 13599

Ion	Ratio	Lower	Upper
63	100		
65	30.7	24.7	37.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
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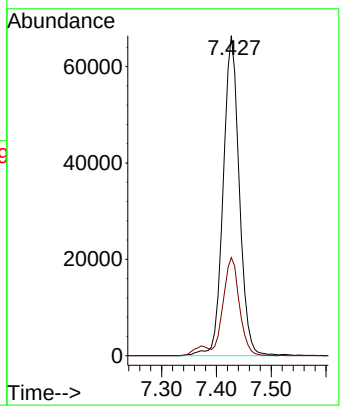
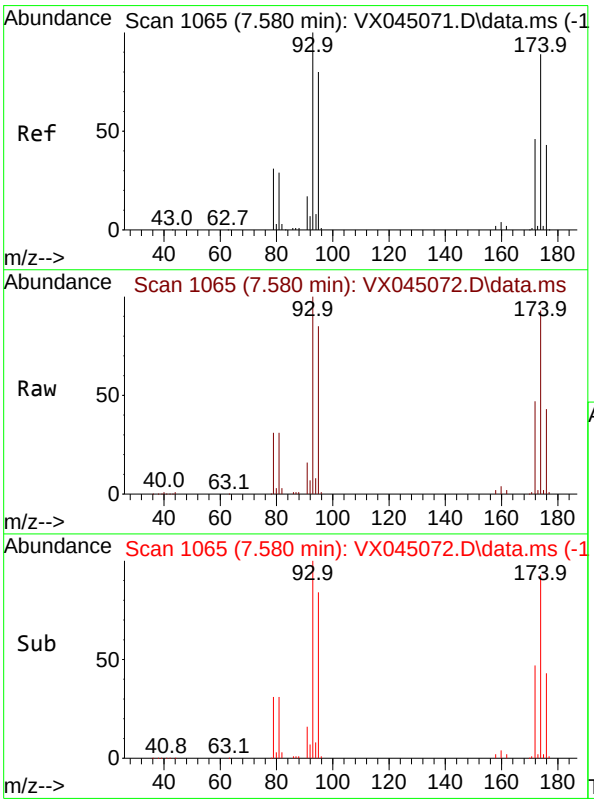
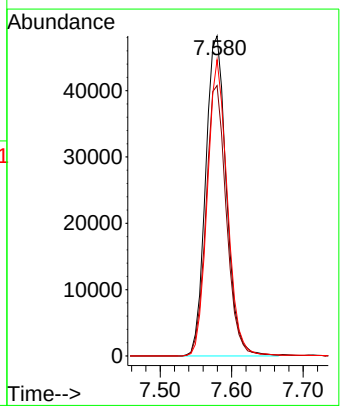


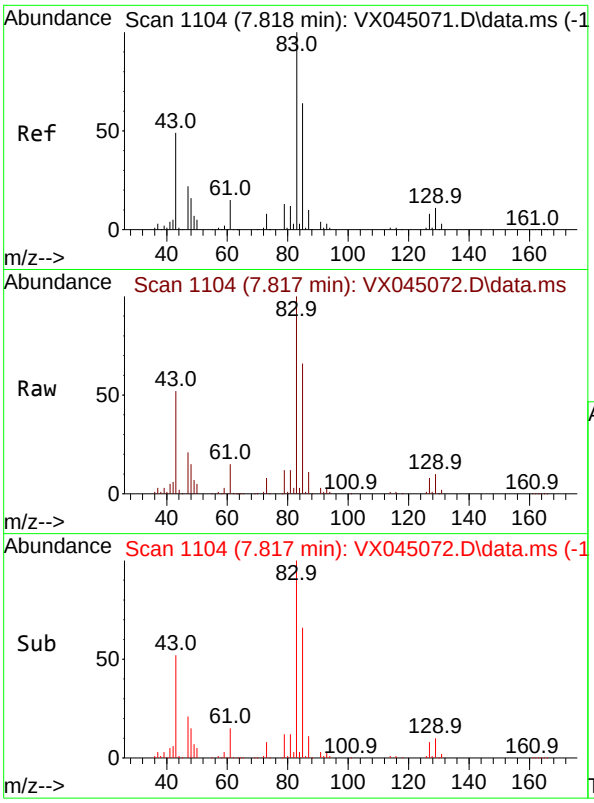


#46
Dibromomethane
Concen: 105.329 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 93 Resp: 97248

Ion	Ratio	Lower	Upper
93	100		
95	83.3	65.8	98.8
174	89.0	72.2	108.2





#47
Bromodichloromethane
Concen: 106.947 ug/l
RT: 7.817 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 83 Resp: 19101

Ion	Ratio	Lower	Upper
83	100		
85	66.4	51.1	76.7
127	7.9	6.4	9.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
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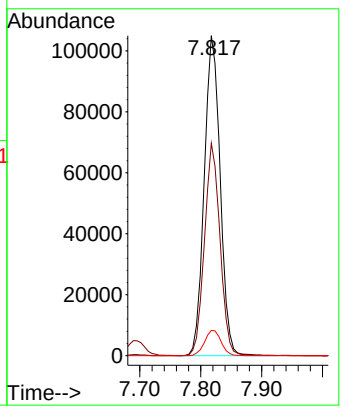
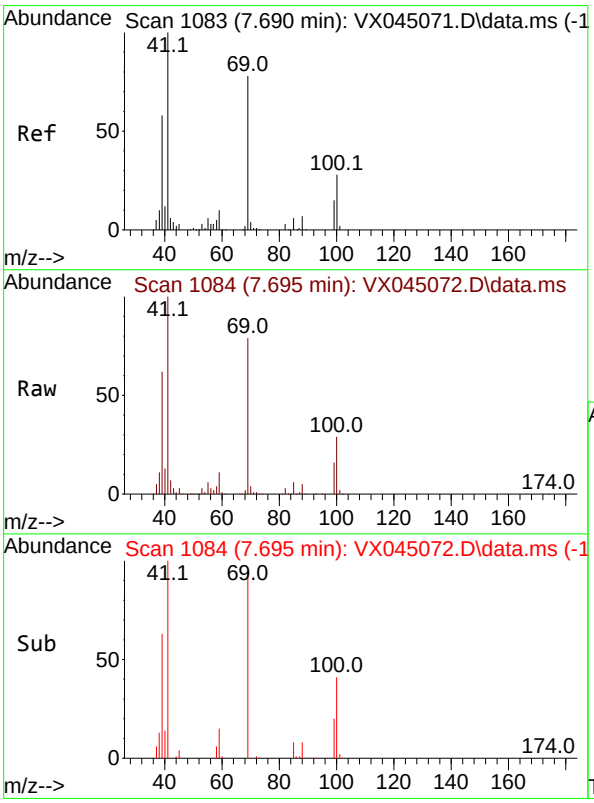
Supervised By :Mahesh Dadoda 02/28/2025

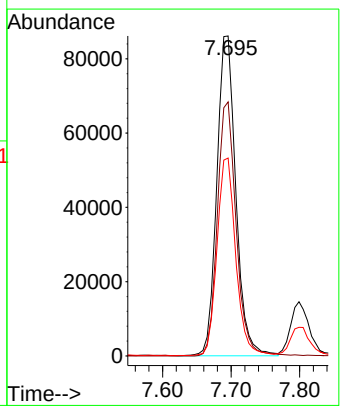


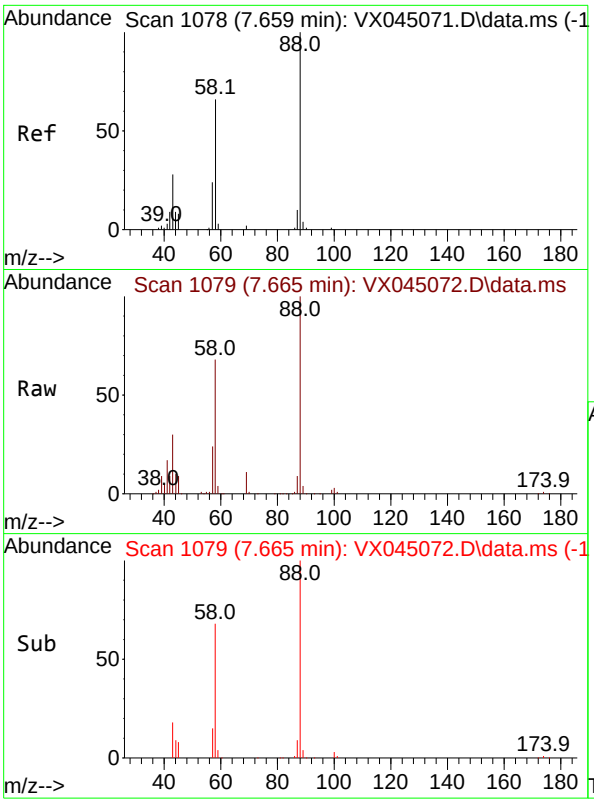


#48
Methyl methacrylate
Concen: 113.344 ug/l
RT: 7.695 min Scan# 1084
Delta R.T. 0.006 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 41 Resp: 165825

Ion	Ratio	Lower	Upper
41	100		
69	78.5	63.0	94.6
39	60.9	47.5	71.3





#49
1,4-Dioxane
Concen: 2132.314 ug/l
RT: 7.665 min Scan# 1(
Delta R.T. 0.006 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 88 Resp: 6630

Ion	Ratio	Lower	Upper
88	100		
43	35.6	28.7	43.1
58	70.5	55.8	83.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
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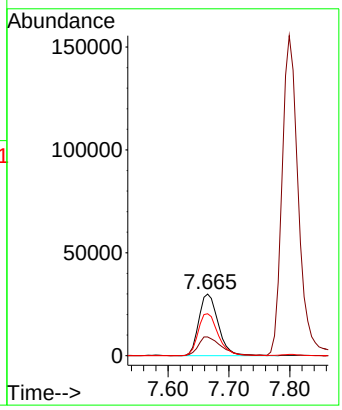
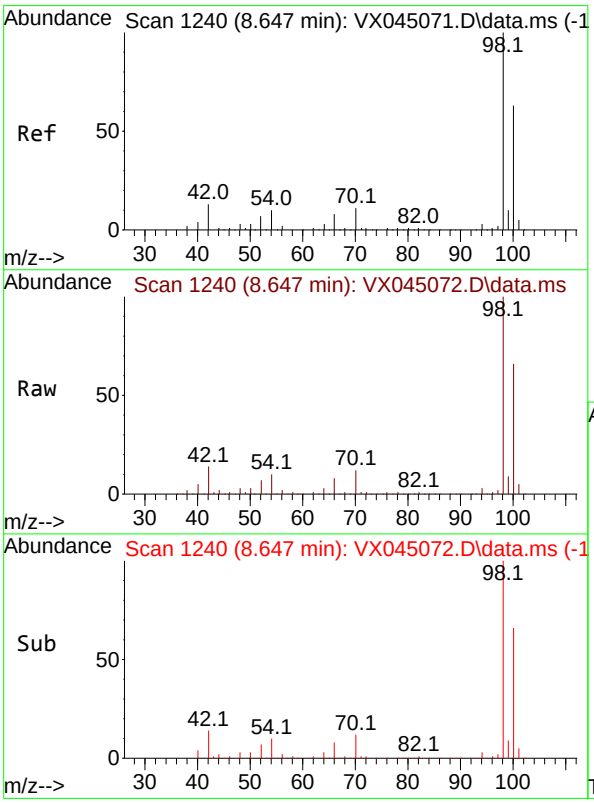
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

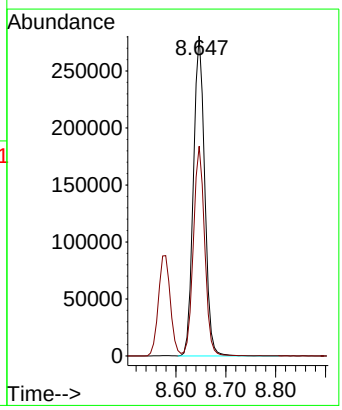


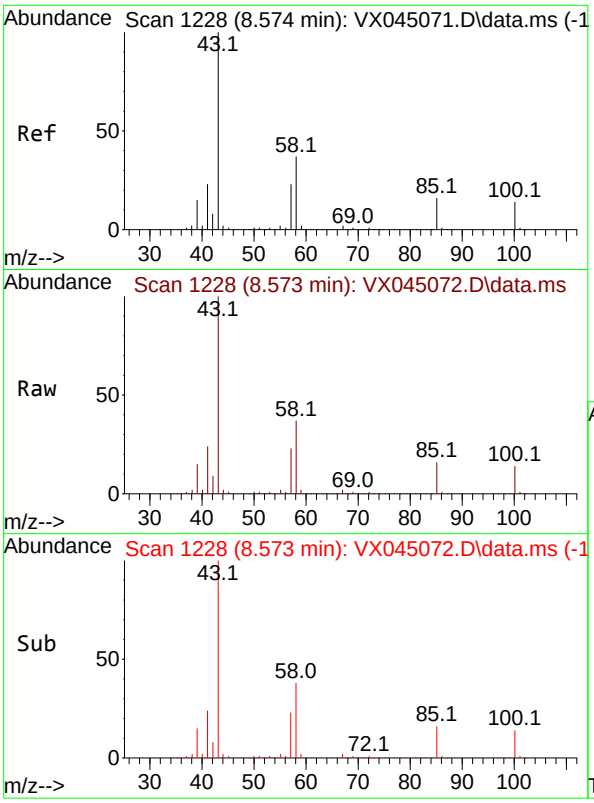


#50
Toluene-d8
Concen: 99.595 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 98 Resp: 441188

Ion	Ratio	Lower	Upper
98	100		
100	65.3	52.0	78.0





#51
4-Methyl-2-Pentanone
Concen: 555.050 ug/l
RT: 8.573 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 43 Resp: 1048140

Ion	Ratio	Lower	Upper
43	100		
58	37.4	29.2	43.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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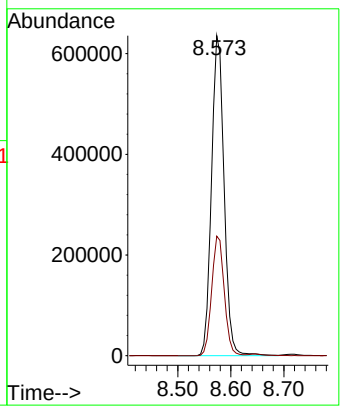
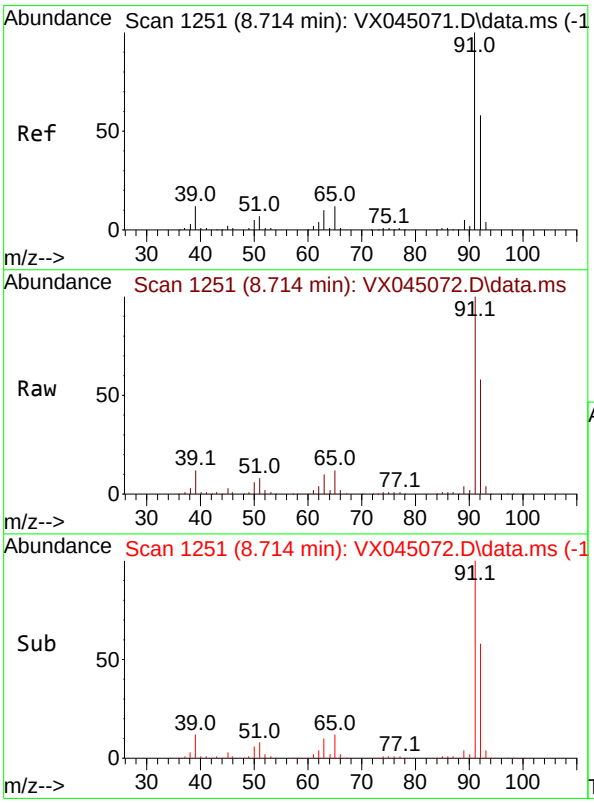
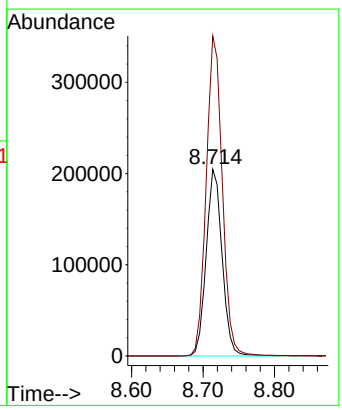


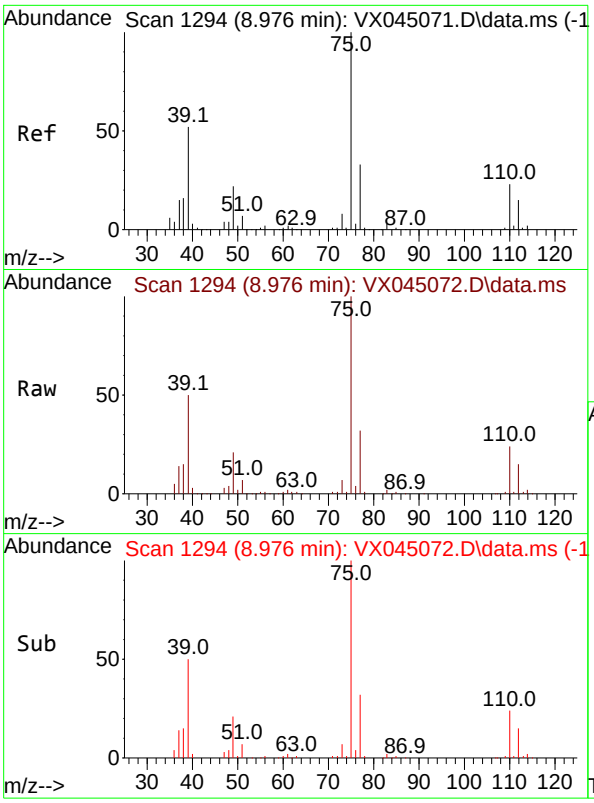


#52
Toluene
Concen: 100.178 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 92 Resp: 316349

Ion	Ratio	Lower	Upper
92	100		
91	173.2	138.9	208.3





#53
t-1,3-Dichloropropene
Concen: 100.462 ug/l
RT: 8.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 75 Resp: 17735

Ion	Ratio	Lower	Upper
75	100		
77	31.6	26.5	39.7

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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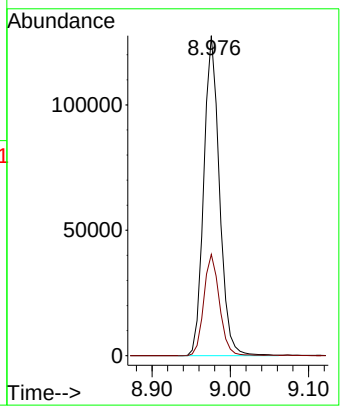
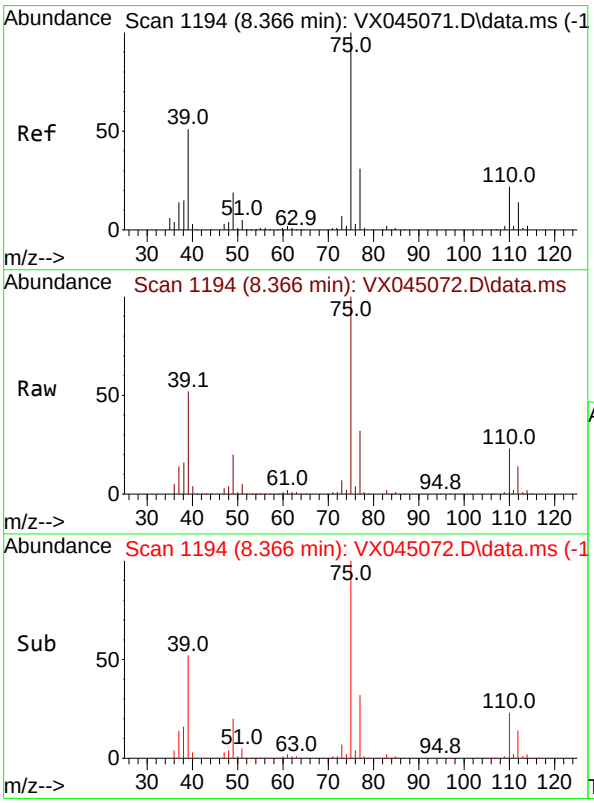
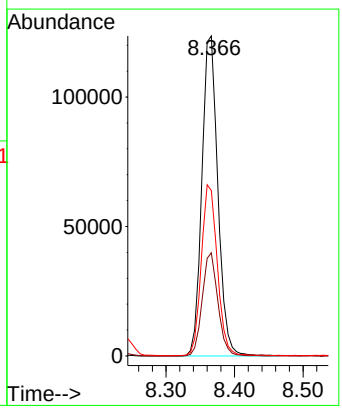


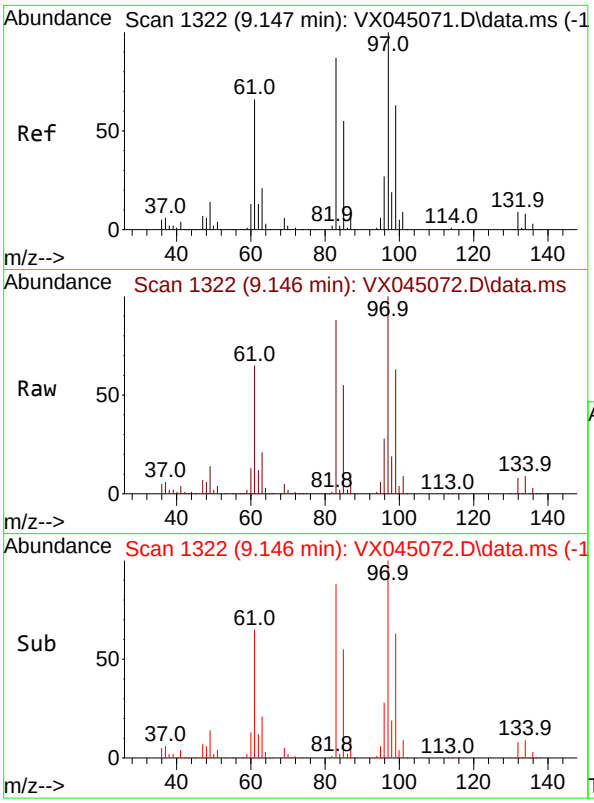


#54
cis-1,3-Dichloropropene
Concen: 101.815 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 75 Resp: 200943

Ion	Ratio	Lower	Upper
75	100		
77	32.2	24.7	37.1
39	51.6	40.7	61.1

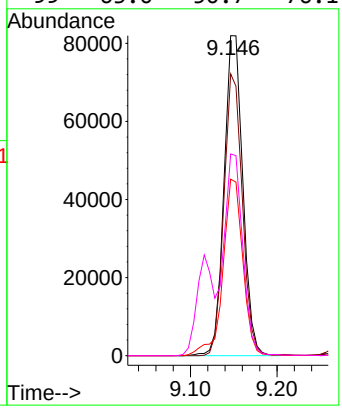




#55
1,1,2-Trichloroethane
Concen: 100.920 ug/l
RT: 9.146 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 97 Resp: 12342

Ion	Ratio	Lower	Upper
97	100		
83	88.0	69.4	104.2
85	55.1	44.1	66.1
99	63.0	50.7	76.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
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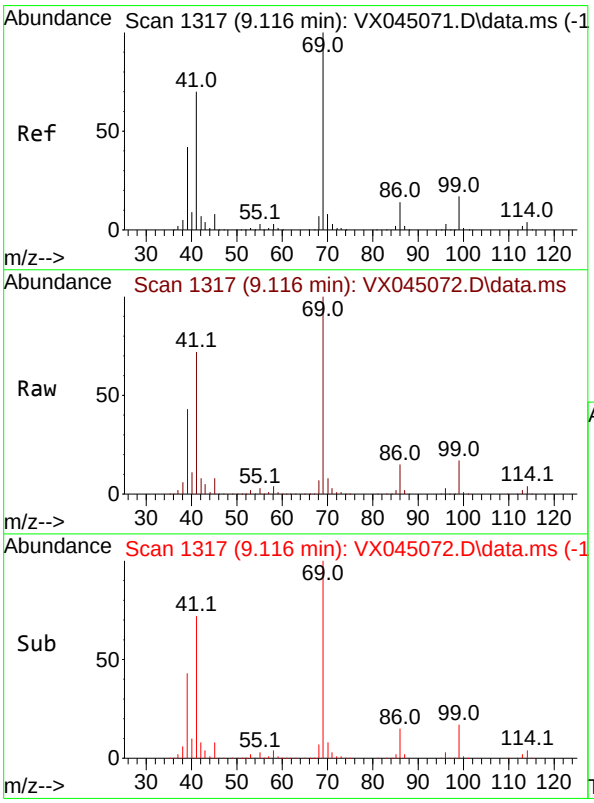
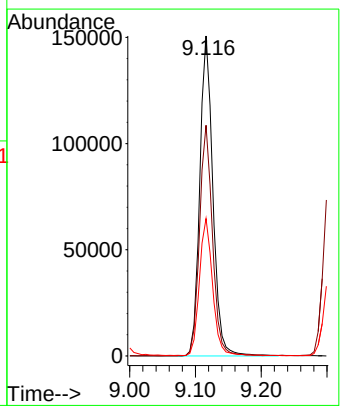
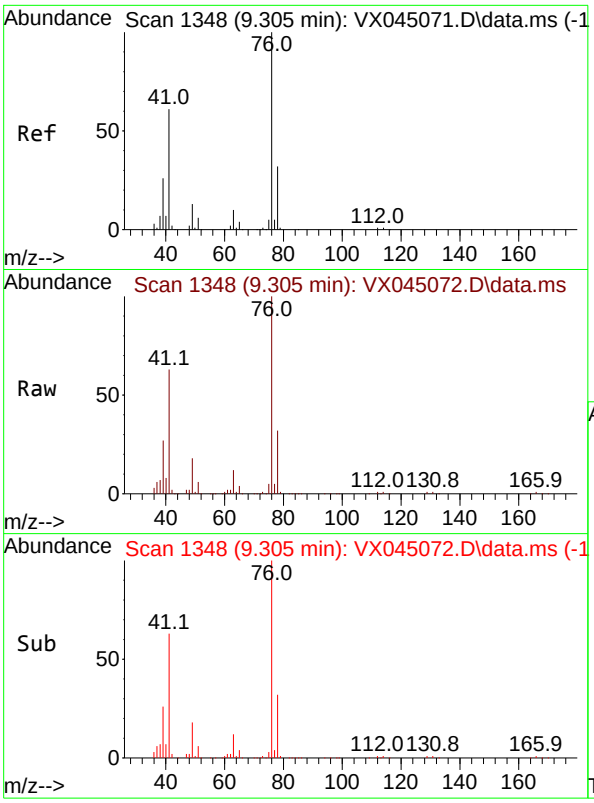


#56
Ethyl methacrylate
Concen: 106.744 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 69 Resp: 208782

Ion	Ratio	Lower	Upper
69	100		
41	71.3	57.0	85.4
39	43.0	34.2	51.4





#57
1,3-Dichloropropane
Concen: 101.387 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 76 Resp: 21626

Ion	Ratio	Lower	Upper
76	100		
78	31.8	25.5	38.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
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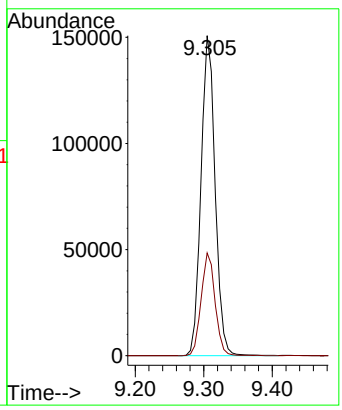
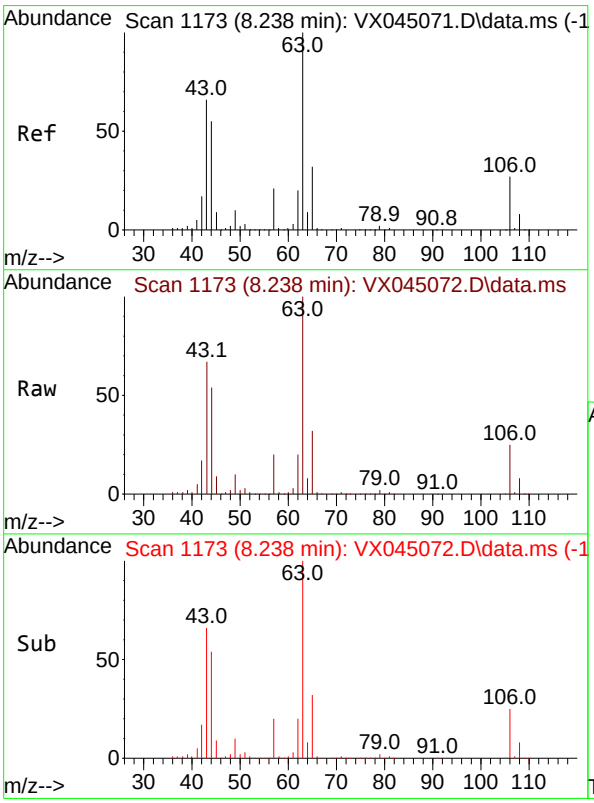
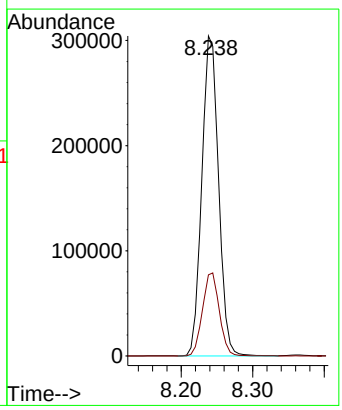


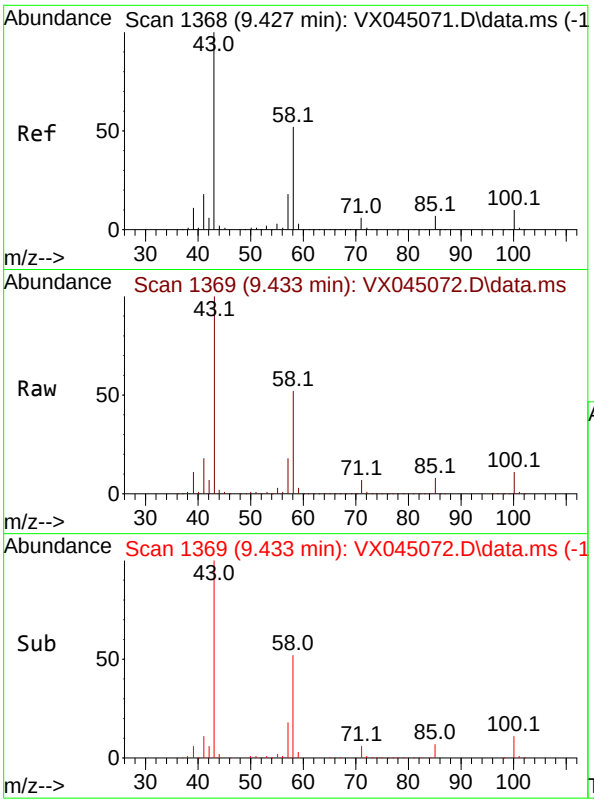


#58
2-Chloroethyl Vinyl ether
Concen: 514.987 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 63 Resp: 494551

Ion	Ratio	Lower	Upper
63	100		
106	26.1	21.5	32.3





#59
2-Hexanone
Concen: 572.233 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 43 Resp: 77949

Ion	Ratio	Lower	Upper
43	100		
58	52.2	25.9	77.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
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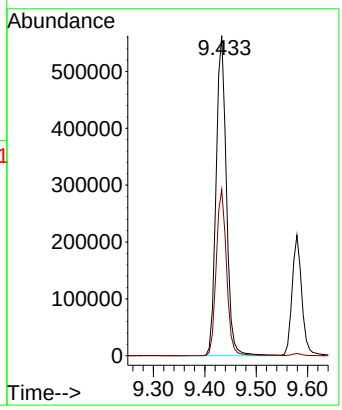
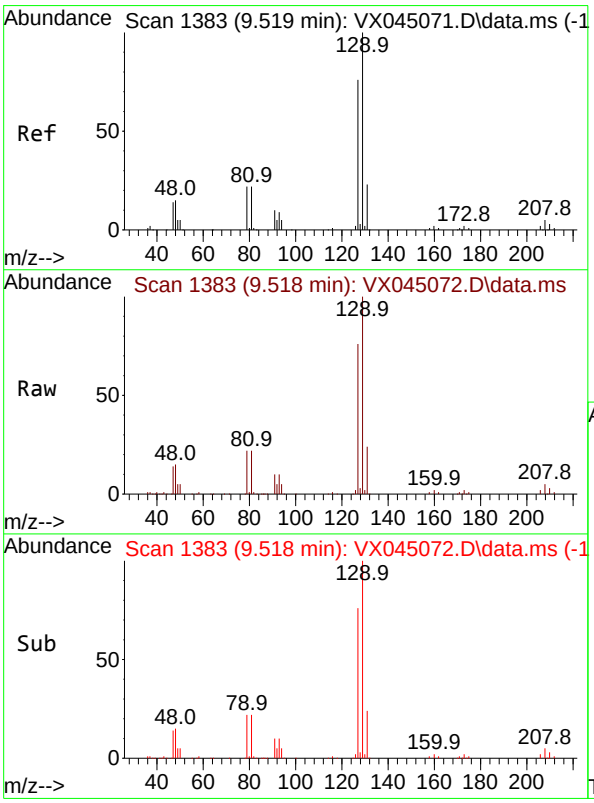
Supervised By :Mahesh Dadoda 02/28/2025

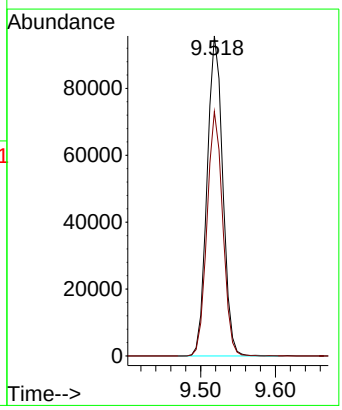


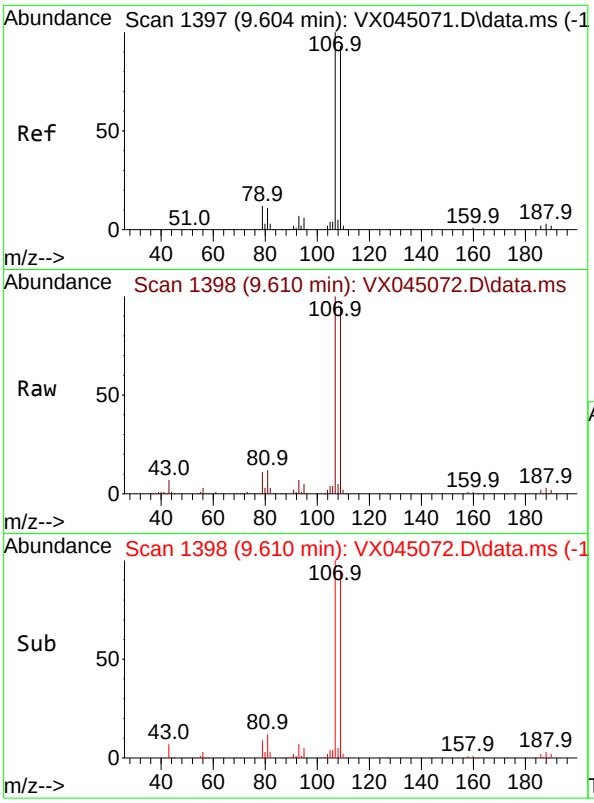


#60
Dibromochloromethane
Concen: 106.719 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion:129 Resp: 139245

Ion	Ratio	Lower	Upper
129	100		
127	76.3	38.5	115.5





#61
1,2-Dibromoethane
Concen: 104.259 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion:107 Resp: 12861

Ion	Ratio	Lower	Upper
107	100		
109	94.3	76.1	114.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
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Reviewed By :John Carlone 02/28/2025
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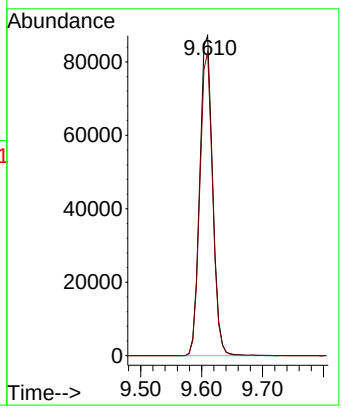
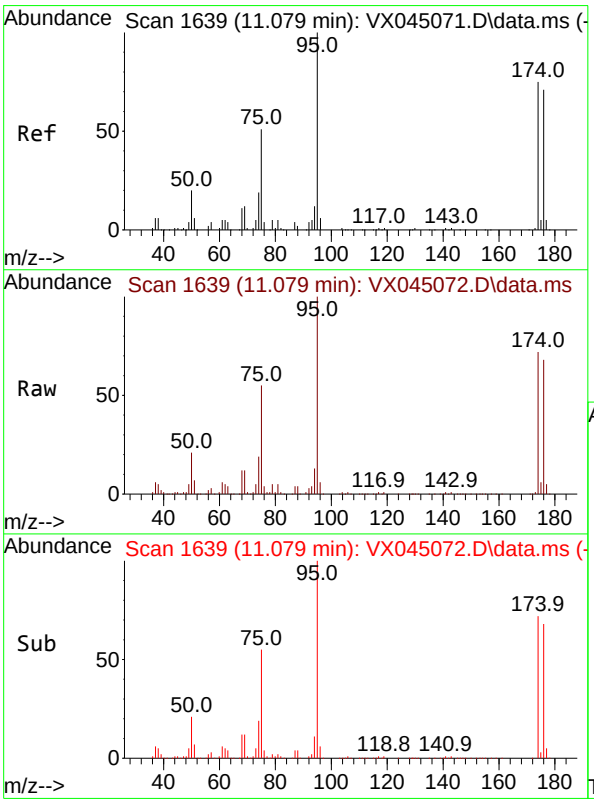
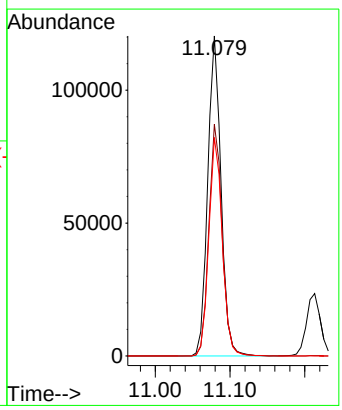


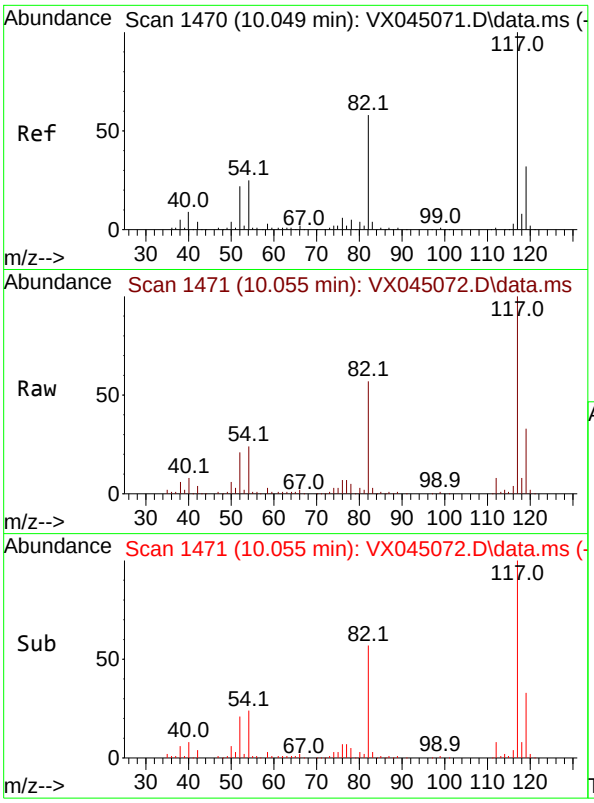


#62
4-Bromofluorobenzene
Concen: 100.365 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 95 Resp: 148476

Ion	Ratio	Lower	Upper
95	100		
174	73.0	0.0	148.2
176	69.2	0.0	141.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion:117 Resp: 15117

Ion	Ratio	Lower	Upper
117	100		
82	57.5	46.3	69.5
119	33.0	25.7	38.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
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Reviewed By :John Carlone 02/28/2025
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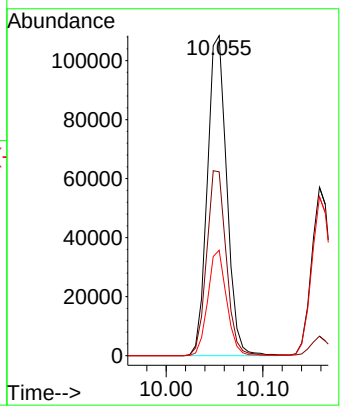
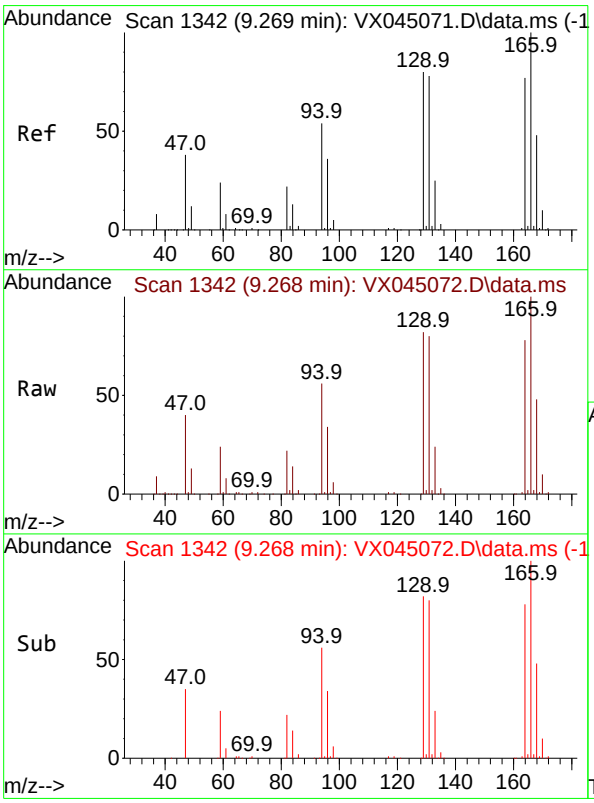
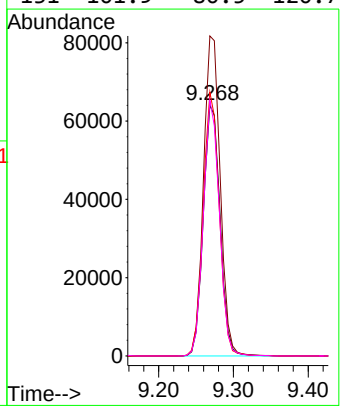


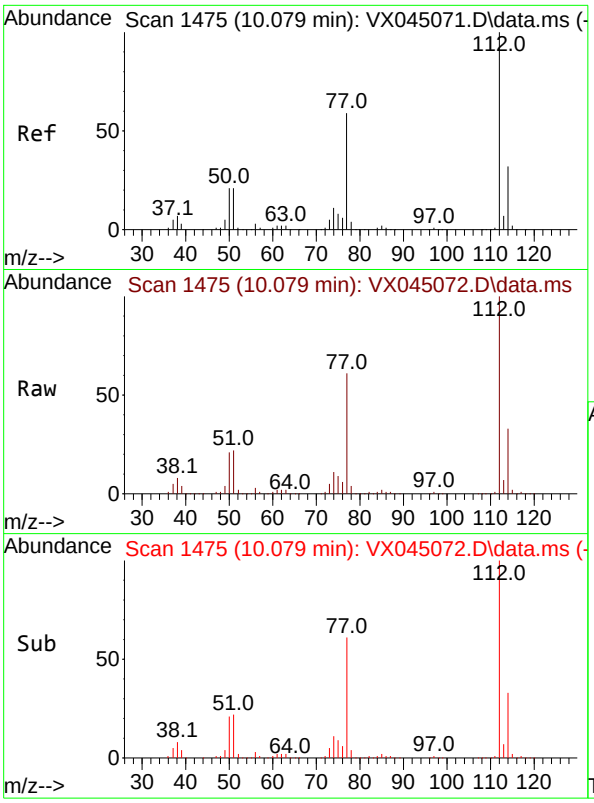


#64
Tetrachloroethene
Concen: 103.491 ug/l
RT: 9.268 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion:164 Resp: 99386

Ion	Ratio	Lower	Upper
164	100		
166	127.6	103.6	155.4
129	105.2	82.7	124.1
131	101.9	80.5	120.7





#65
Chlorobenzene
Concen: 102.456 ug/l
RT: 10.079 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion:112 Resp: 33247

Ion	Ratio	Lower	Upper
112	100		
114	32.5	26.0	39.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
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Reviewed By :John Carlone 02/28/2025
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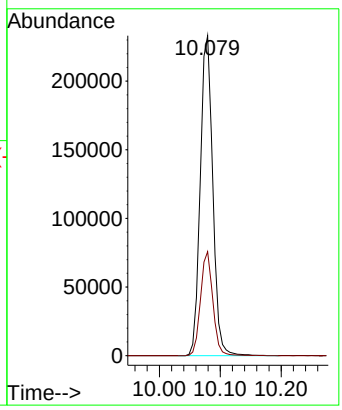
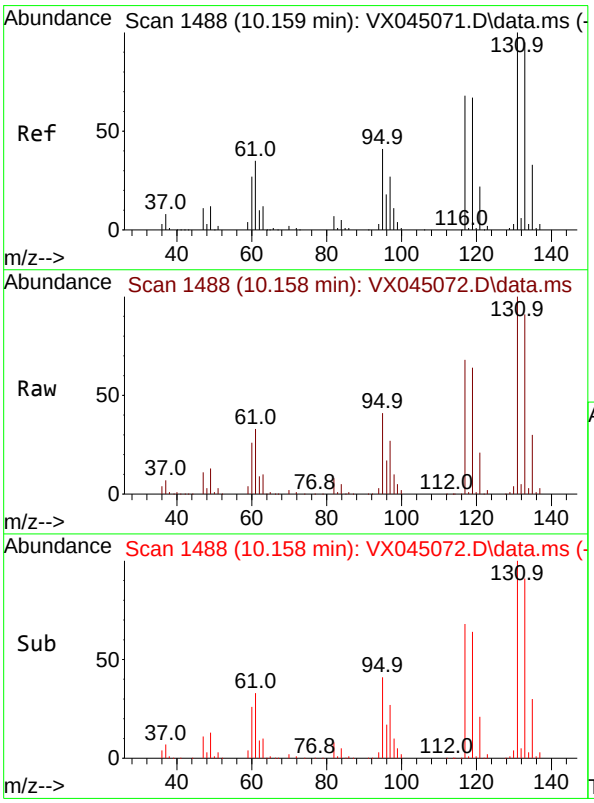
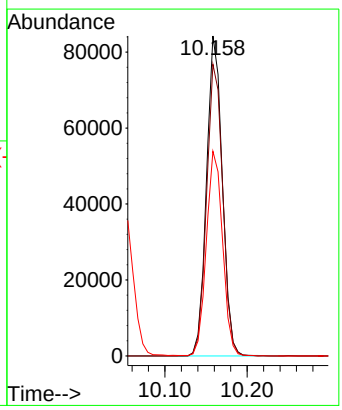


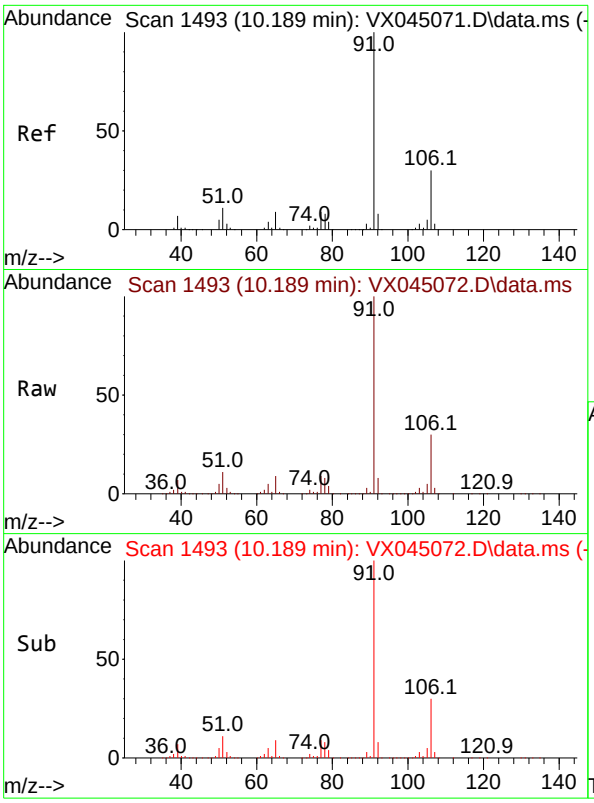


#66
1,1,1,2-Tetrachloroethane
Concen: 107.511 ug/l
RT: 10.158 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion:131 Resp: 112451

Ion	Ratio	Lower	Upper
131	100		
133	93.1	48.6	145.9
119	65.8	33.9	101.7





#67
Ethyl Benzene
Concen: 103.905 ug/l
RT: 10.189 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 91 Resp: 59625

Ion	Ratio	Lower	Upper
91	100		
106	30.1	23.9	35.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
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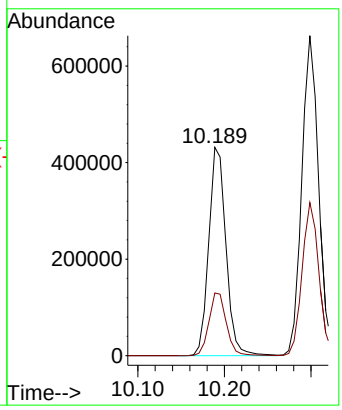
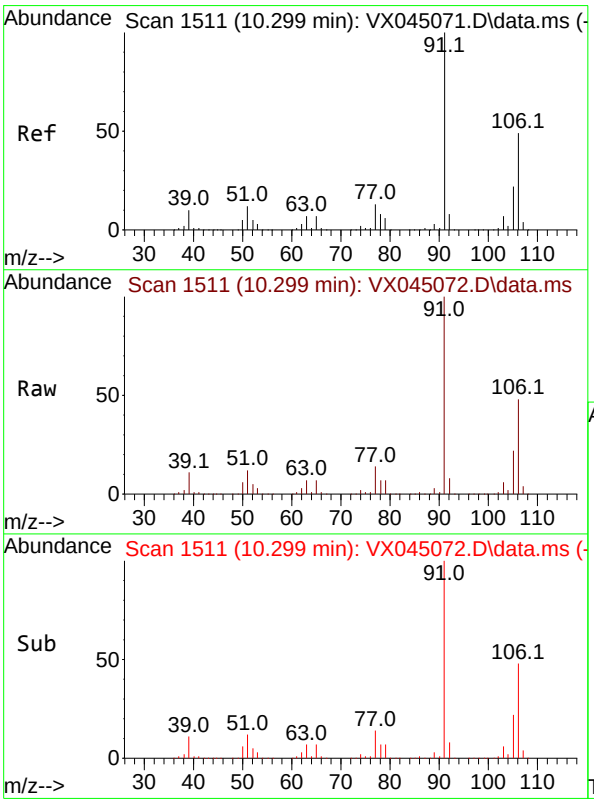
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

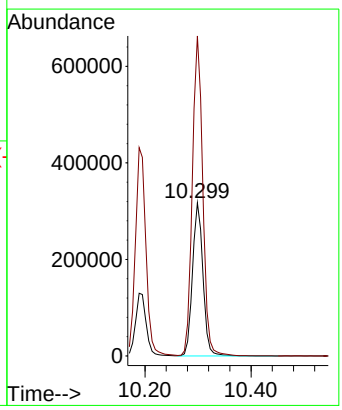


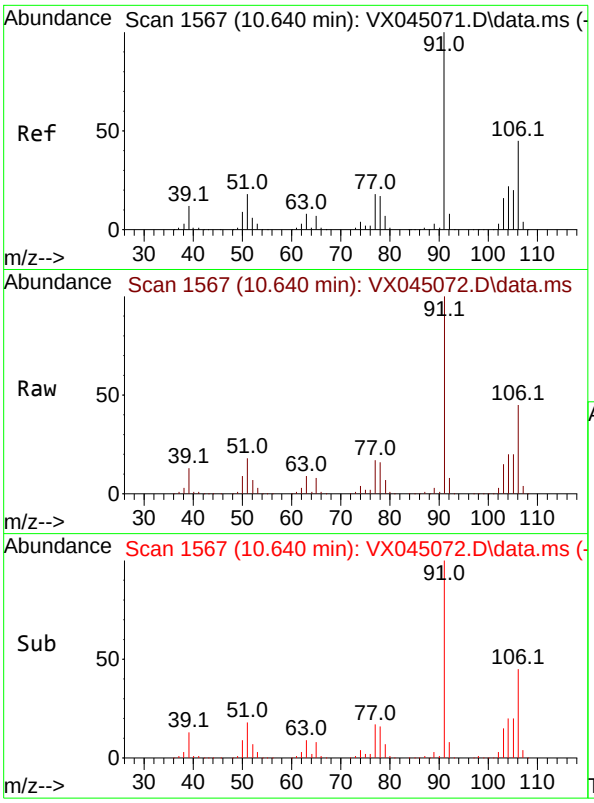


#68
m/p-Xylenes
Concen: 204.507 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion:106 Resp: 432214

Ion	Ratio	Lower	Upper
106	100		
91	208.9	165.4	248.0





#69
o-Xylene
Concen: 100.849 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion:106 Resp: 21383

Ion	Ratio	Lower	Upper
106	100		
91	218.2	109.9	329.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
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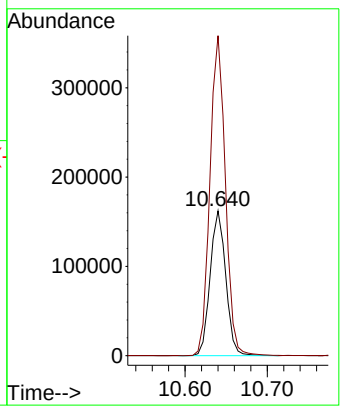
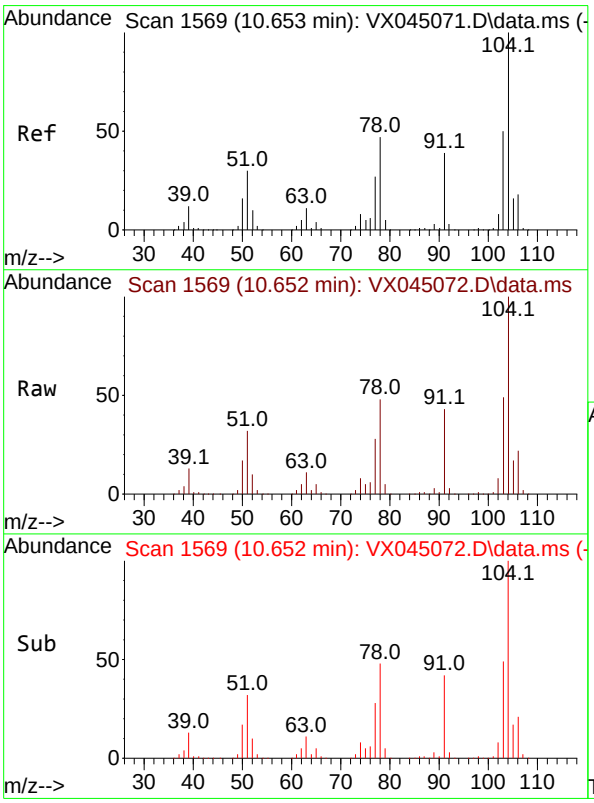
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

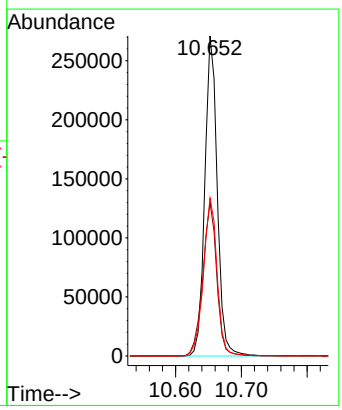


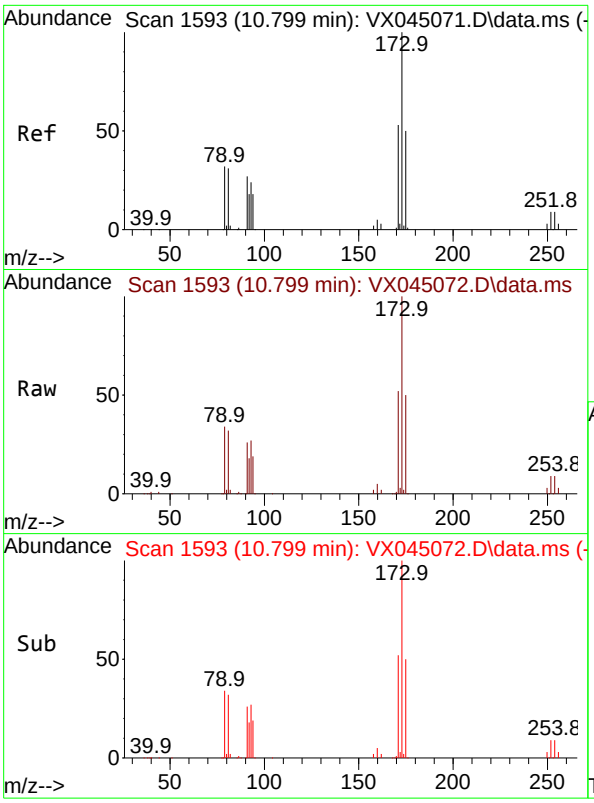


#70
Styrene
Concen: 104.948 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion:104 Resp: 357649

Ion	Ratio	Lower	Upper
104	100		
78	53.7	42.2	63.4
103	54.3	43.8	65.8





#71
Bromoform
Concen: 116.751 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion:173 Resp: 9080

Ion	Ratio	Lower	Upper
173	100		
175	48.3	24.6	73.6
254	0.0	0.0	0.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
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Reviewed By :John Carlone 02/28/2025
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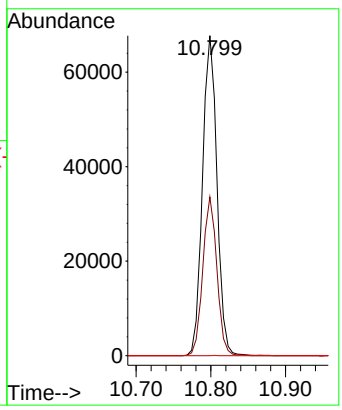
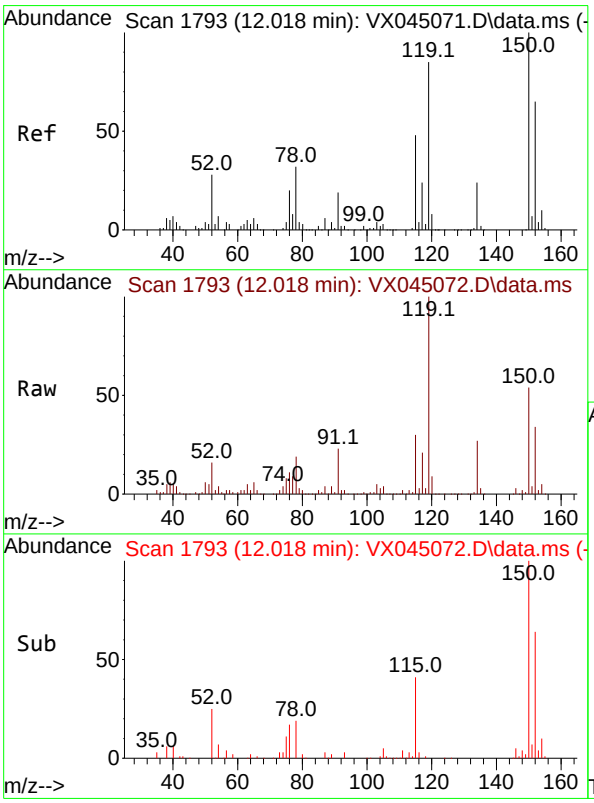
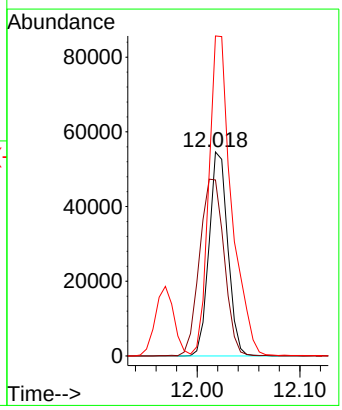


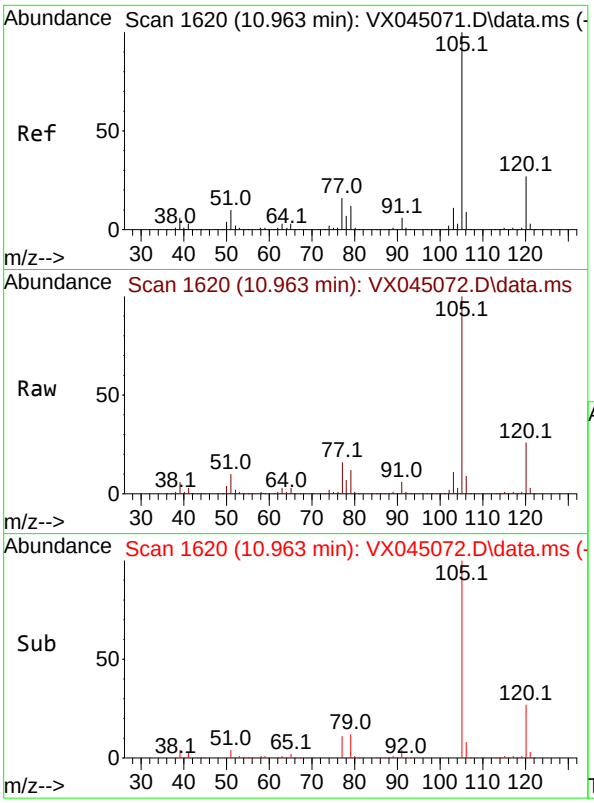


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion:152 Resp: 69086

Ion	Ratio	Lower	Upper
152	100		
115	114.1	44.2	132.6
150	190.7	0.0	349.0





#73
Isopropylbenzene
Concen: 99.138 ug/l
RT: 10.963 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion:105 Resp: 55353

Ion	Ratio	Lower	Upper
105	100		
120	26.0	13.2	39.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
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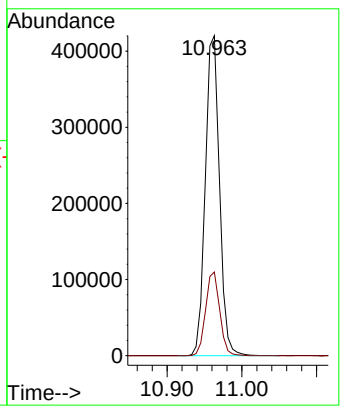
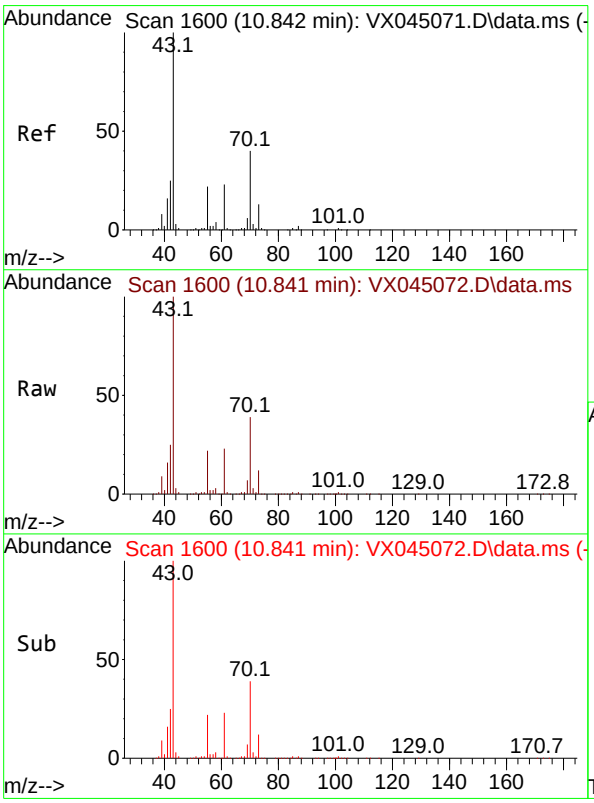
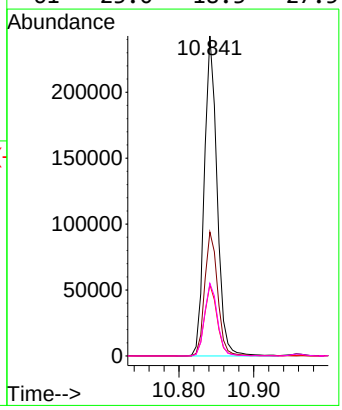


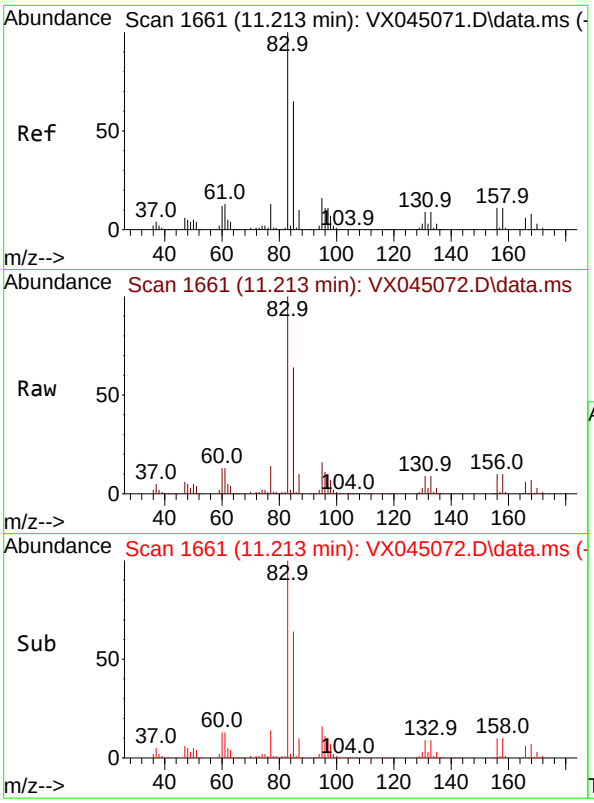


#74
N-amyl acetate
Concen: 113.277 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 43 Resp: 287104

Ion	Ratio	Lower	Upper
43	100		
70	39.6	31.8	47.6
55	22.3	18.3	27.5
61	23.0	18.3	27.5





#75
1,1,2,2-Tetrachloroethane
Concen: 99.923 ug/l
RT: 11.213 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 83 Resp: 19221

Ion	Ratio	Lower	Upper
83	100		
131	9.4	4.5	13.4
85	64.7	31.7	95.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
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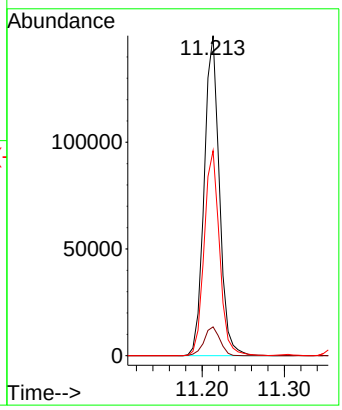
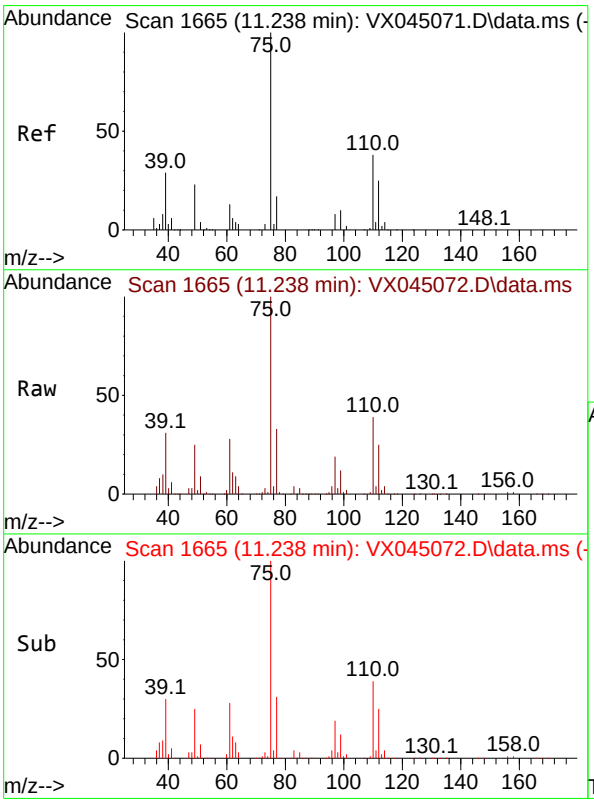
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

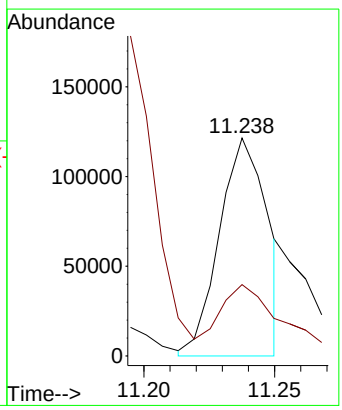


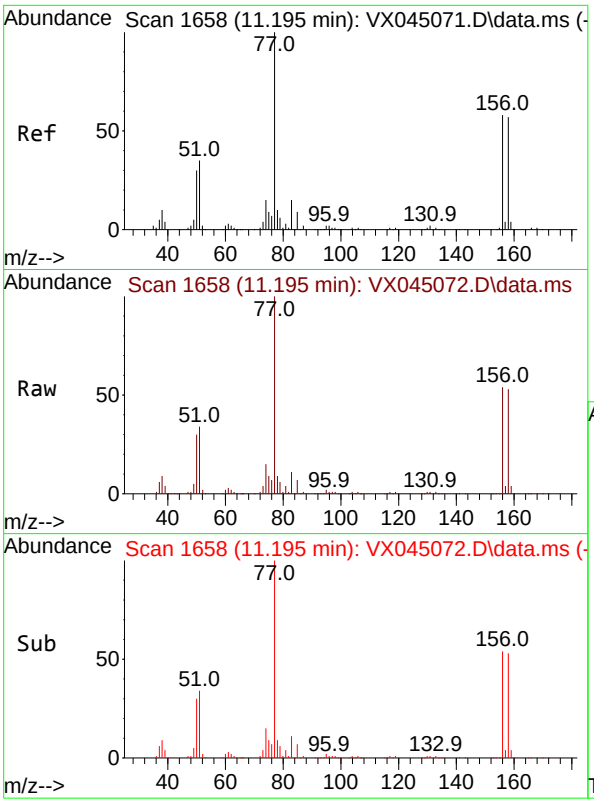


#76
1,2,3-Trichloropropane
Concen: 101.395 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 75 Resp: 156259

Ion	Ratio	Lower	Upper
75	100		
77	42.7	20.7	62.1





#77
Bromobenzene
Concen: 99.175 ug/l
RT: 11.195 min Scan# 1(
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion:156 Resp: 12570(

Ion	Ratio	Lower	Upper
156	100		
77	177.3	85.8	257.4
158	95.9	48.4	145.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
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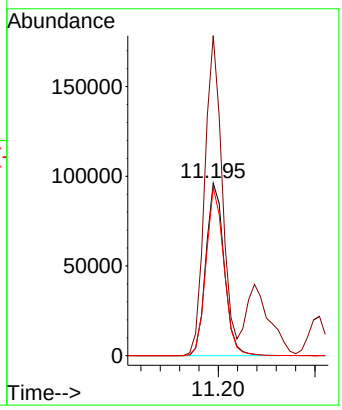
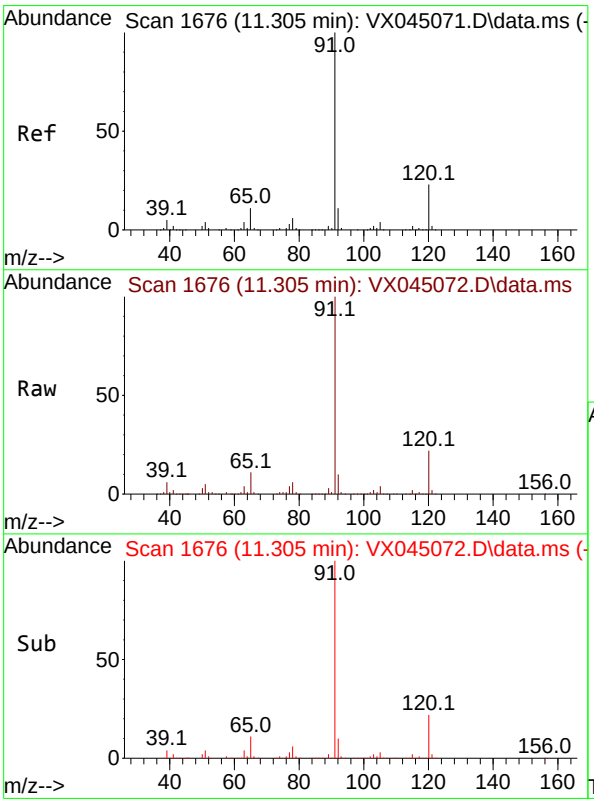
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

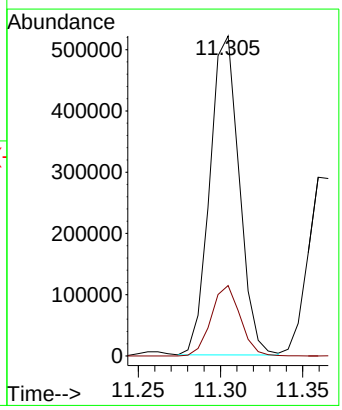


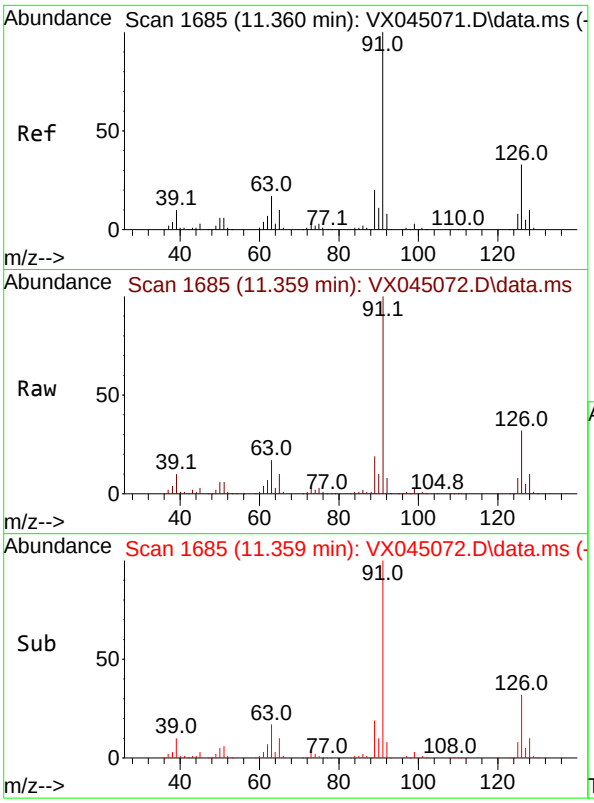


#78
n-propylbenzene
Concen: 100.758 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 91 Resp: 648835

Ion	Ratio	Lower	Upper
91	100		
120	21.8	11.2	33.6





#79
2-Chlorotoluene
Concen: 96.825 ug/l
RT: 11.359 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 91 Resp: 38270

Ion	Ratio	Lower	Upper
91	100		
126	32.7	16.4	49.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
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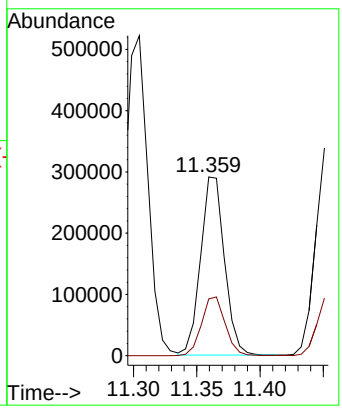
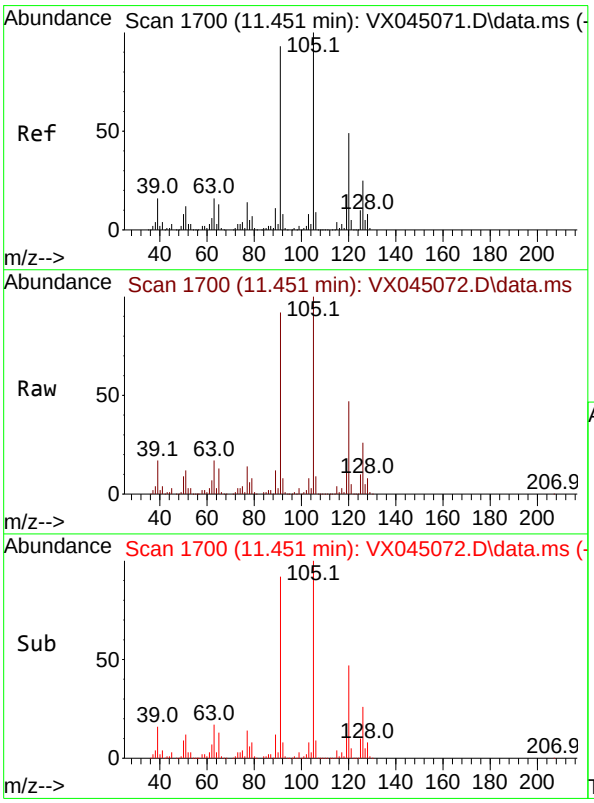
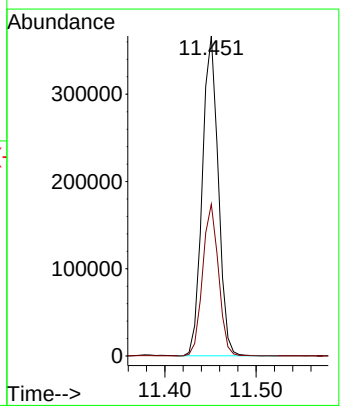


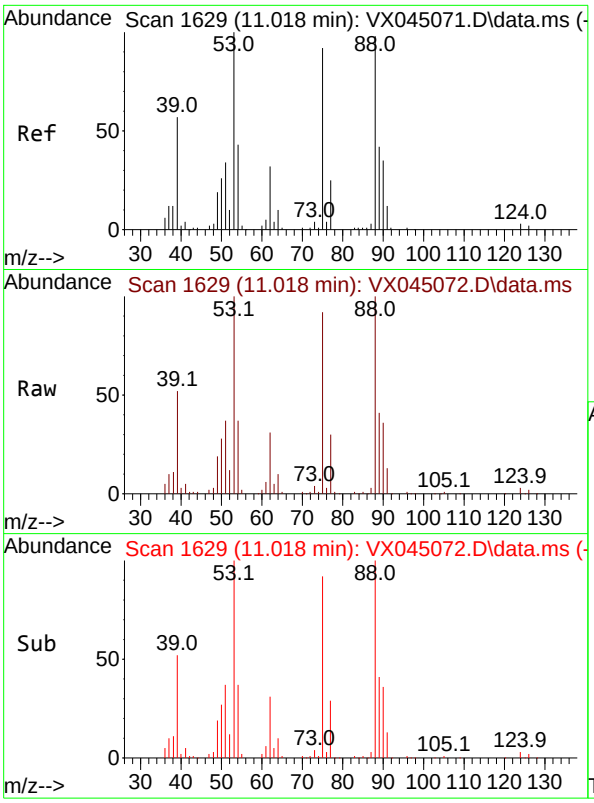


#80
1,3,5-Trimethylbenzene
Concen: 98.356 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion:105 Resp: 445466

Ion	Ratio	Lower	Upper
105	100		
120	47.1	24.1	72.2





#81
trans-1,4-Dichloro-2-butene
Concen: 91.460 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 75 Resp: 5197

Ion	Ratio	Lower	Upper
75	100		
53	109.9	88.5	132.7
89	45.7	36.2	54.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
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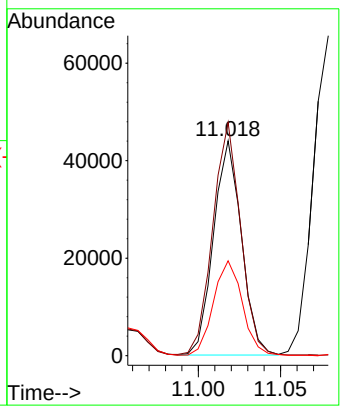
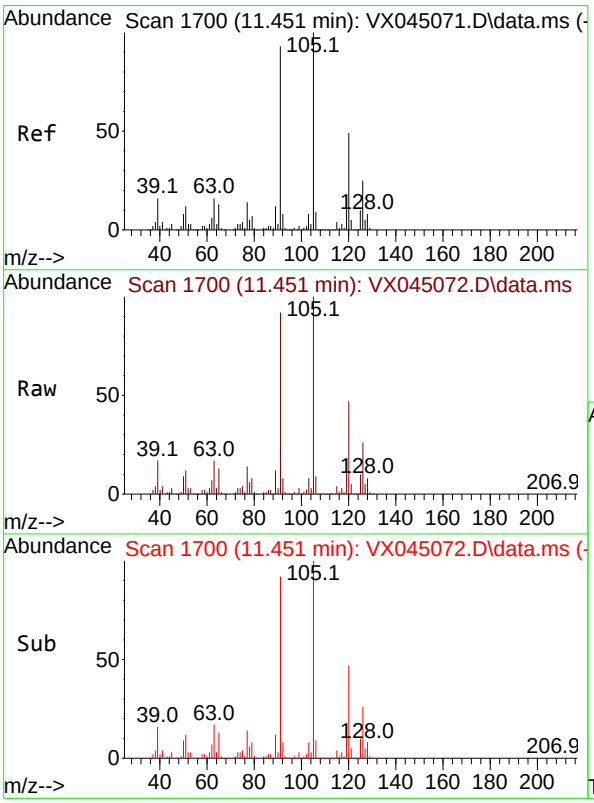
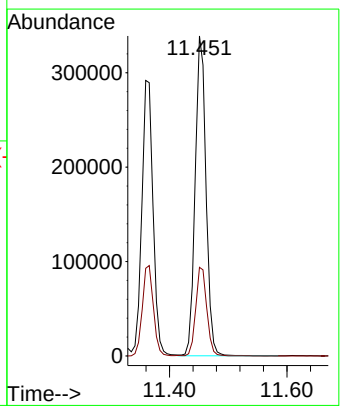


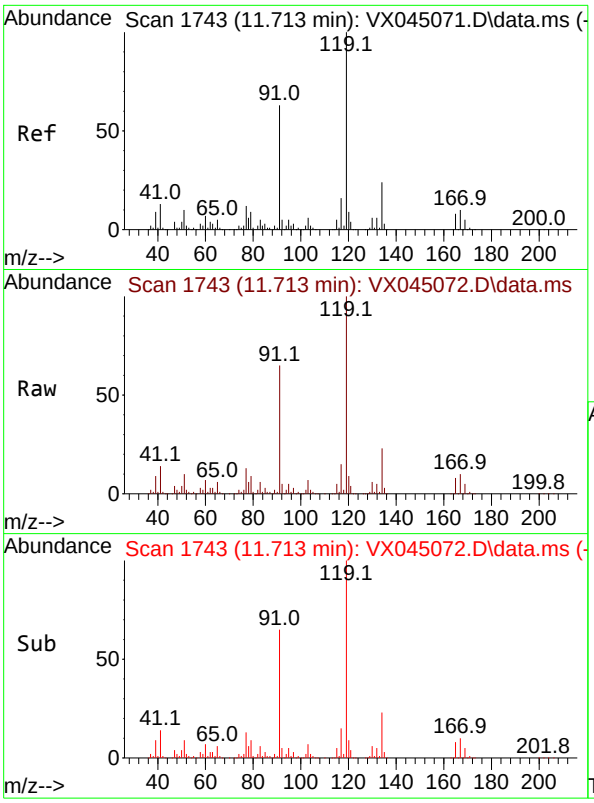


#82
4-Chlorotoluene
Concen: 99.168 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 91 Resp: 433881

Ion	Ratio	Lower	Upper
91	100		
126	28.2	14.1	42.4





#83
tert-Butylbenzene
Concen: 99.288 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion:119 Resp: 45485

Ion	Ratio	Lower	Upper
119	100		
91	61.7	30.7	92.1
134	22.8	11.7	35.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
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Reviewed By :John Carlone 02/28/2025
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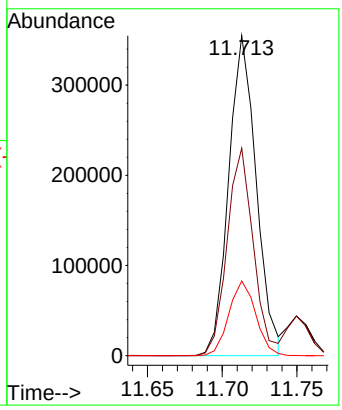
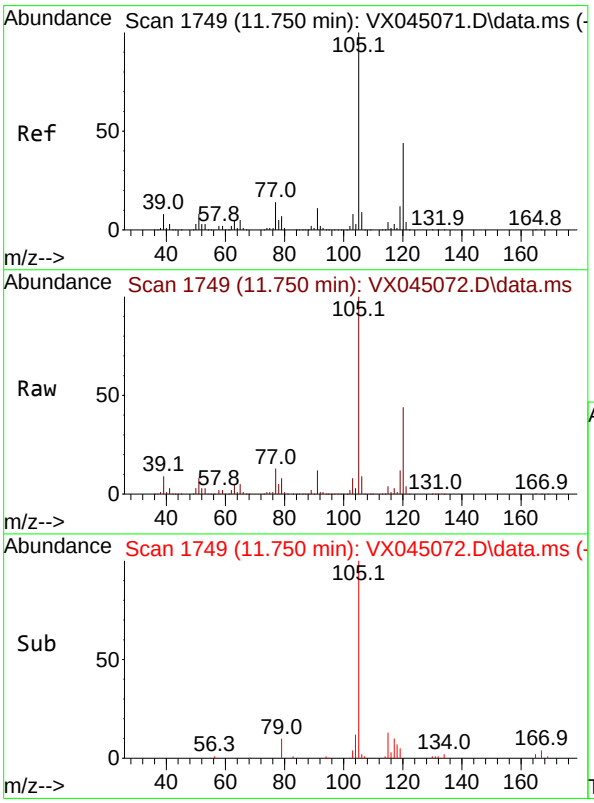
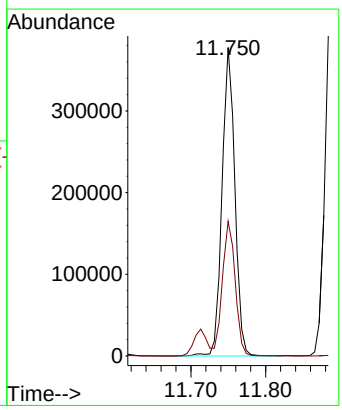


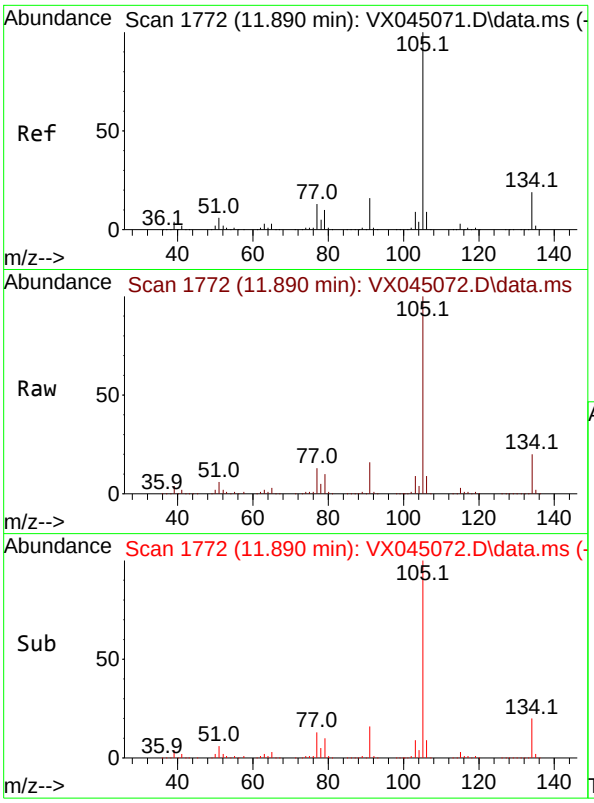


#84
1,2,4-Trimethylbenzene
Concen: 100.926 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion:105 Resp: 450108

Ion	Ratio	Lower	Upper
105	100		
120	43.4	22.1	66.1





#85
sec-Butylbenzene
Concen: 100.517 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion:105 Resp: 57000

Ion	Ratio	Lower	Upper
105	100		
134	19.6	9.8	29.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
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Reviewed By :John Carlone 02/28/2025
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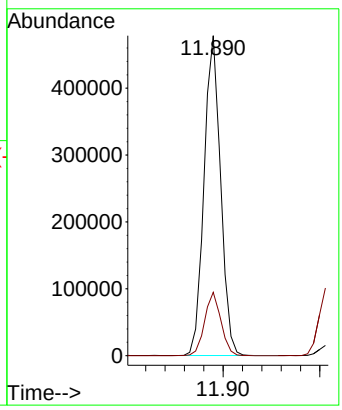
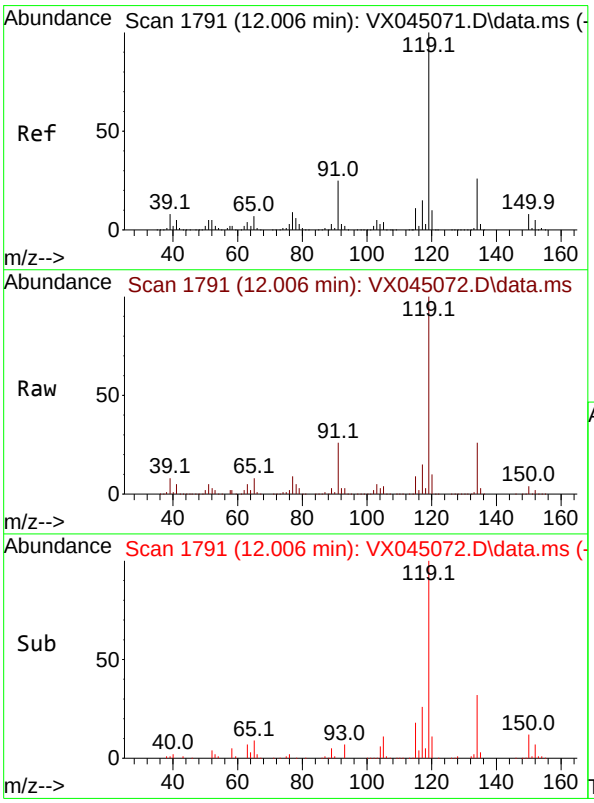
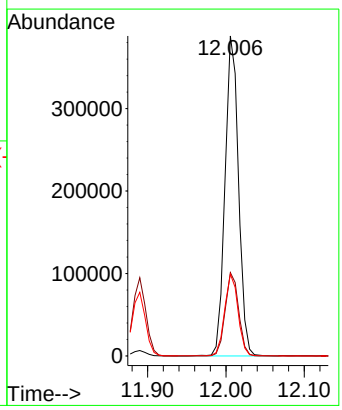


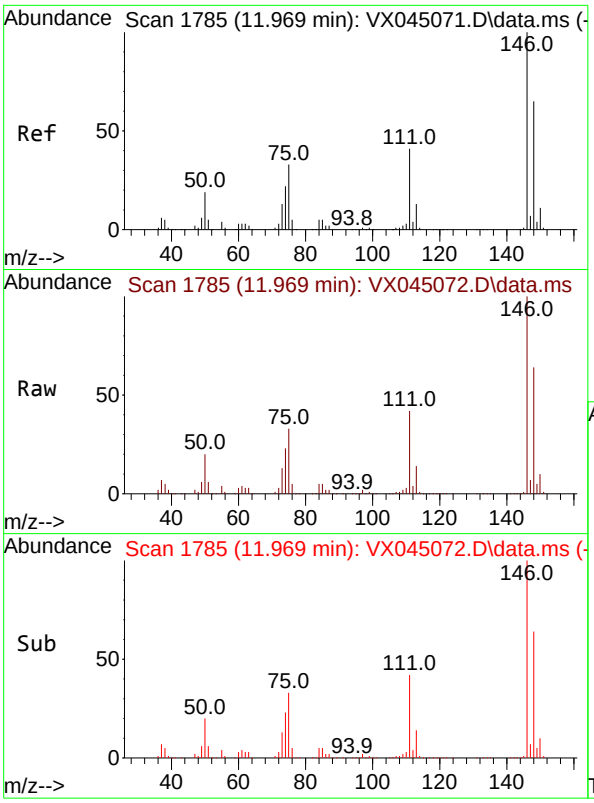


#86
p-Isopropyltoluene
Concen: 102.252 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion:119 Resp: 465512

Ion	Ratio	Lower	Upper
119	100		
134	26.0	12.9	38.6
91	25.3	12.7	38.0





#87
1,3-Dichlorobenzene
Concen: 99.903 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

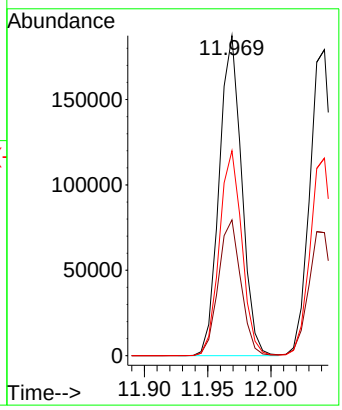
Tgt Ion:146 Resp: 23144

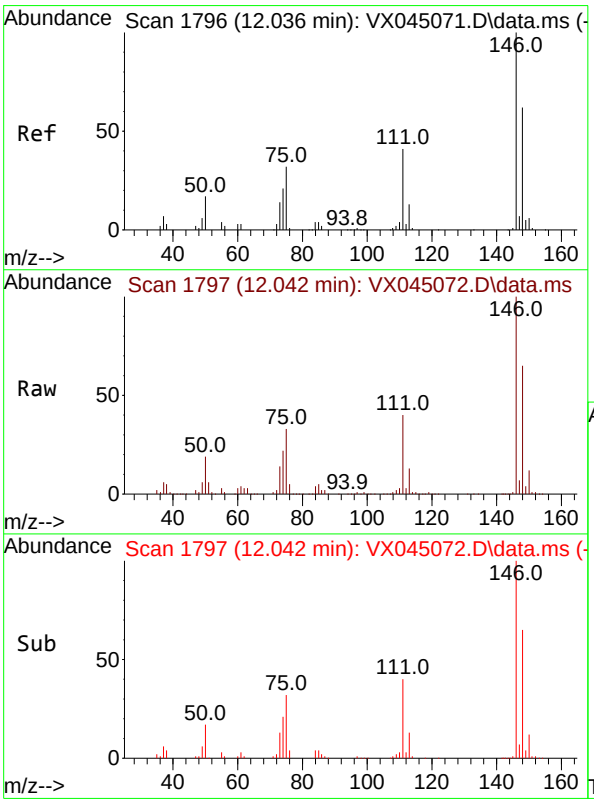
Ion	Ratio	Lower	Upper
146	100		
111	42.6	21.1	63.4
148	64.1	31.9	95.7

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

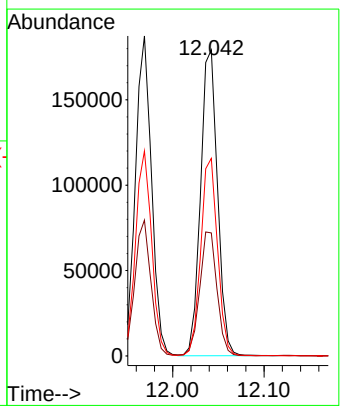


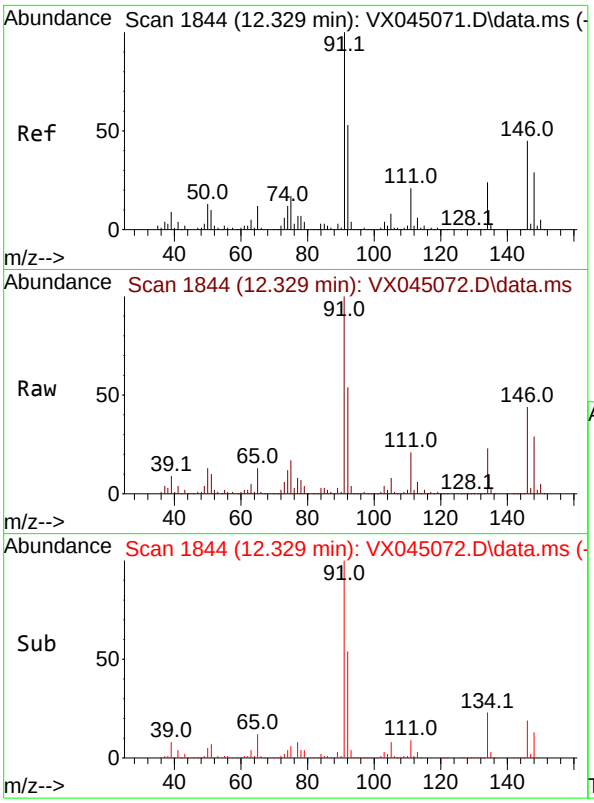


#88
1,4-Dichlorobenzene
Concen: 98.355 ug/l
RT: 12.042 min Scan# 1797
Delta R.T. 0.006 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion:146 Resp: 230663

Ion	Ratio	Lower	Upper
146	100		
111	41.5	20.2	60.5
148	63.9	31.9	95.9





#89
n-Butylbenzene
Concen: 107.000 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

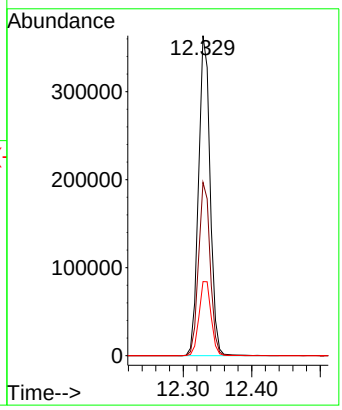
Tgt Ion: 91 Resp: 42820

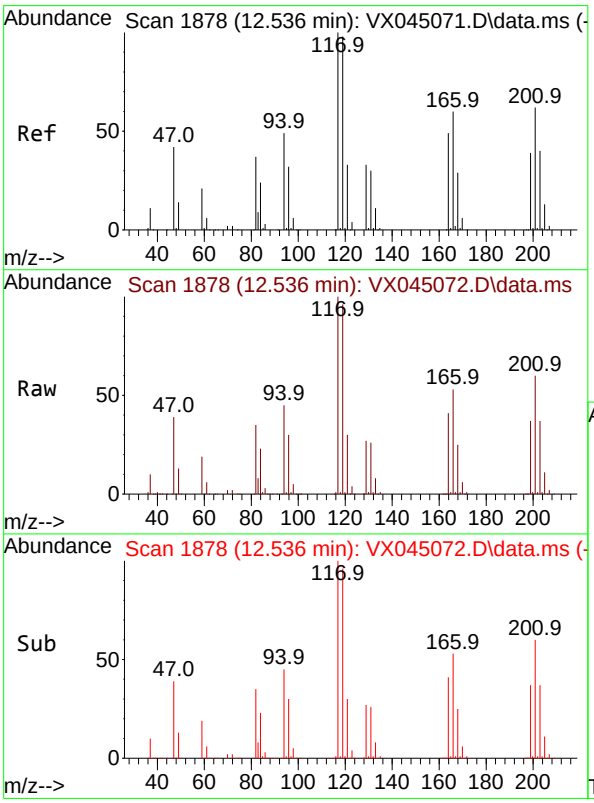
Ion	Ratio	Lower	Upper
91	100		
92	54.4	26.7	80.0
134	24.2	12.2	36.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

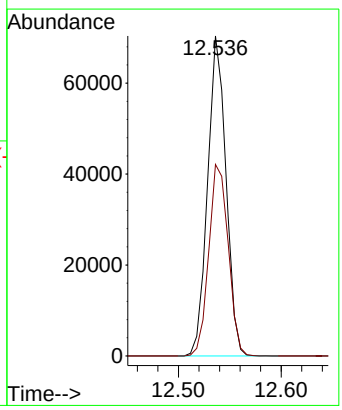


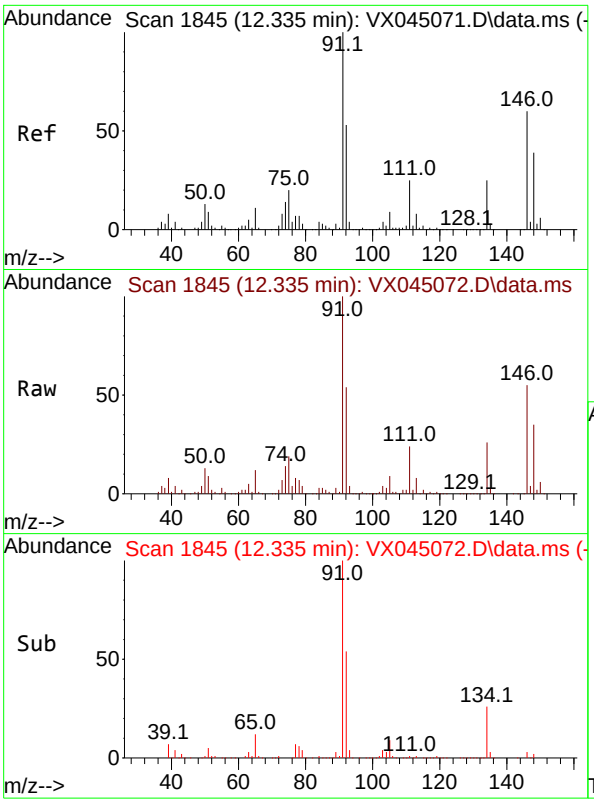


#90
Hexachloroethane
Concen: 102.980 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion:117 Resp: 87448

Ion	Ratio	Lower	Upper
117	100		
201	63.4	31.9	95.9





#91
1,2-Dichlorobenzene
Concen: 102.254 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

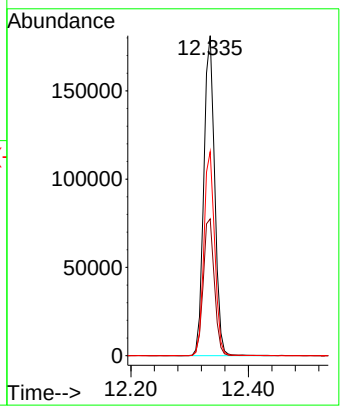
Tgt Ion:146 Resp: 23312

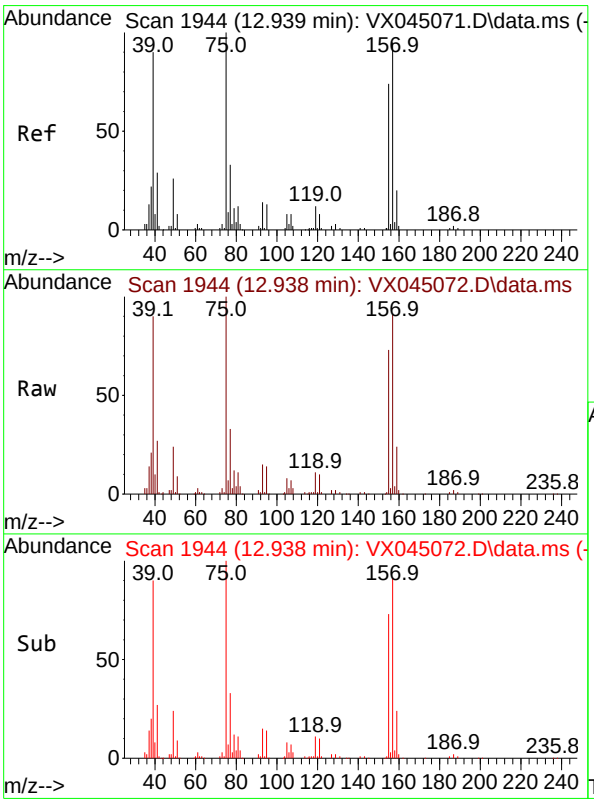
Ion	Ratio	Lower	Upper
146	100		
111	43.7	21.6	65.0
148	63.2	31.9	95.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

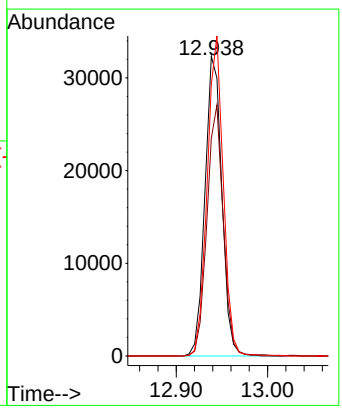


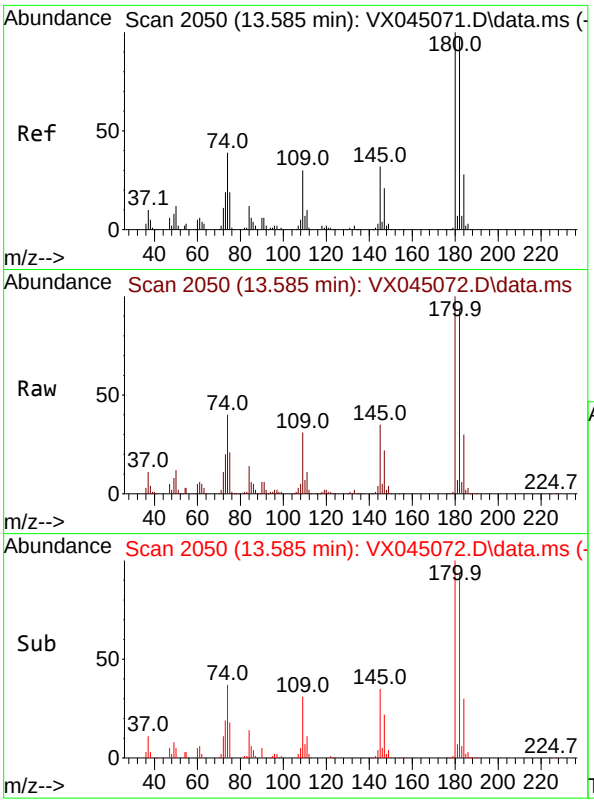


#92
1,2-Dibromo-3-Chloropropane
Concen: 116.296 ug/l
RT: 12.938 min Scan# 1944
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion: 75 Resp: 41402

Ion	Ratio	Lower	Upper
75	100		
155	80.6	39.6	118.7
157	101.8	51.1	153.4





#93
1,2,4-Trichlorobenzene
Concen: 107.648 ug/l
RT: 13.585 min Scan# 2(
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

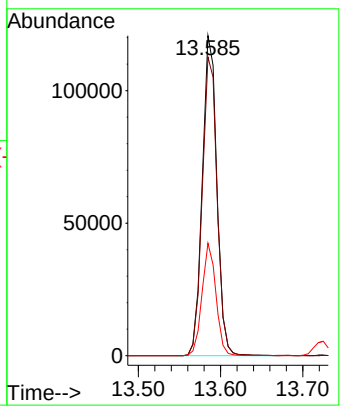
Tgt Ion:180 Resp: 14836

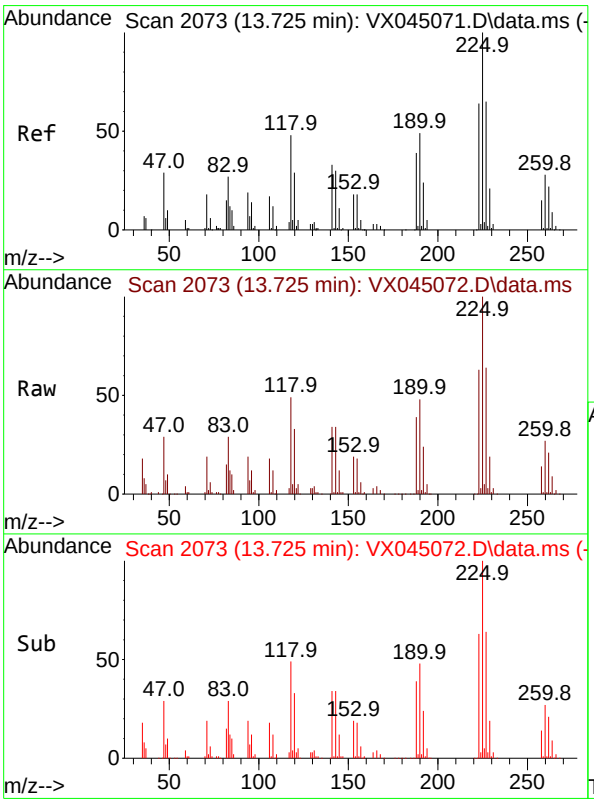
Ion	Ratio	Lower	Upper
180	100		
182	95.1	47.3	141.9
145	33.6	16.3	48.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

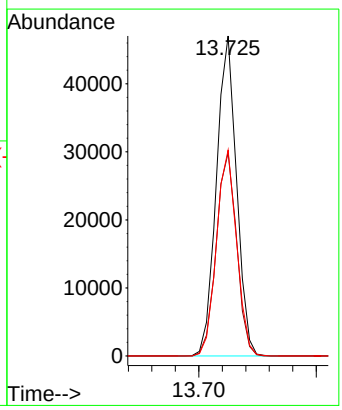


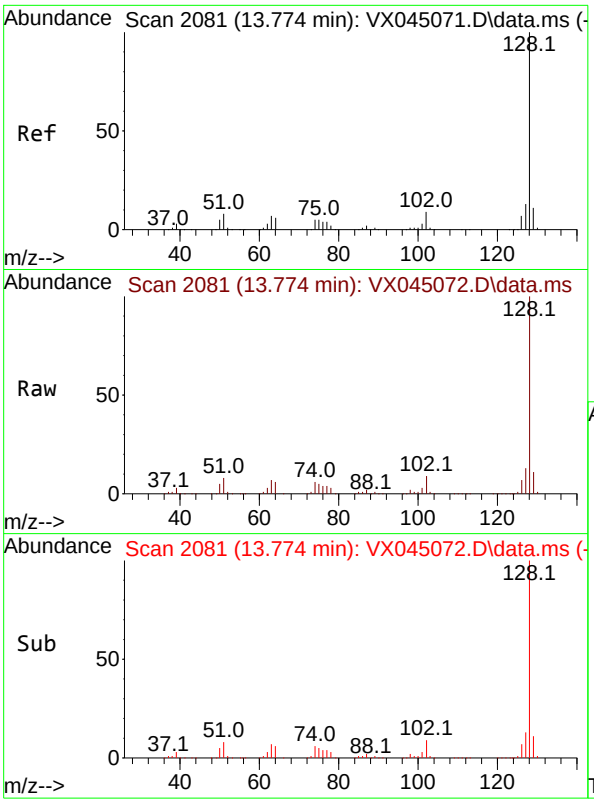


#94
Hexachlorobutadiene
Concen: 102.019 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion:225 Resp: 56065

Ion	Ratio	Lower	Upper
225	100		
223	64.1	31.9	95.7
227	64.4	31.4	94.0





#95
Naphthalene
Concen: 112.593 ug/l
RT: 13.774 min Scan# 2(
Delta R.T. -0.000 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

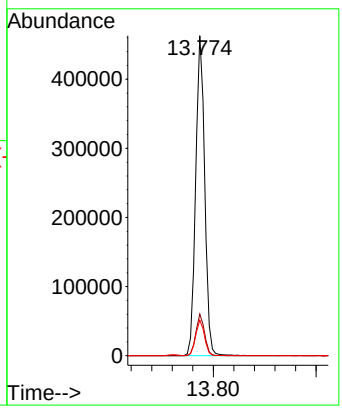
Tgt Ion:128 Resp: 56525(

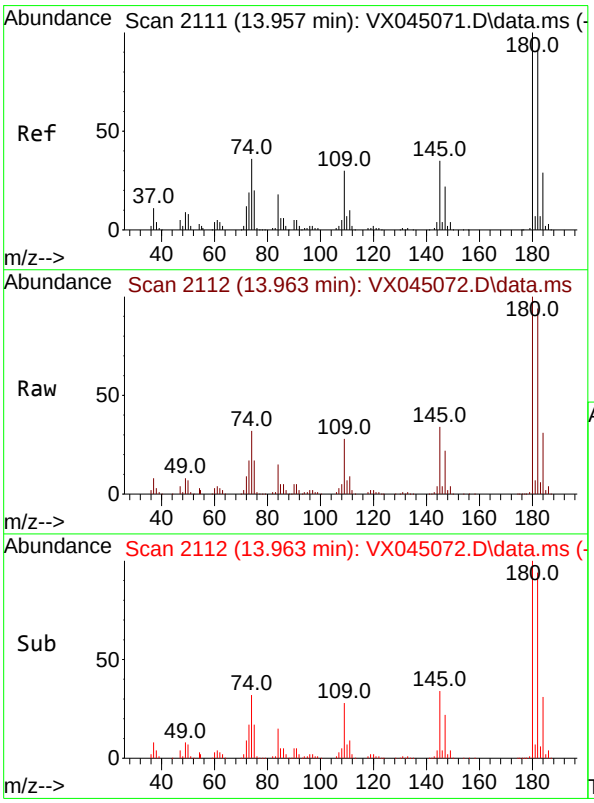
Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.3	15.5
129	10.9	8.7	13.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

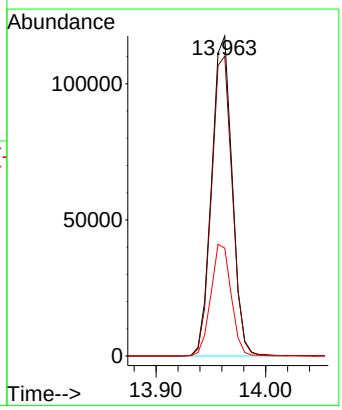




#96
1,2,3-Trichlorobenzene
Concen: 109.554 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. 0.006 min
Lab File: VX045072.D
Acq: 28 Feb 2025 03:23

Tgt Ion:180 Resp: 152970

Ion	Ratio	Lower	Upper
180	100		
182	95.2	47.5	142.6
145	34.5	17.0	50.9



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045073.D
Acq On : 28 Feb 2025 03:47
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Feb 28 05:36:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 05:28:02 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene	5.544	168	95754	50.000 ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	176991	50.000 ug/l	0.00
63) Chlorobenzene-d5	10.055	117	150547	50.000 ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	67685	50.000 ug/l	# 0.00
System Monitoring Compounds					
33) 1,2-Dichloroethane-d4	5.952	65	234624	165.865 ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 331.740%#		
35) Dibromofluoromethane	5.379	113	179722	155.359 ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 310.720%#		
50) Toluene-d8	8.647	98	638979	147.538 ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 295.080%#		
62) 4-Bromofluorobenzene	11.079	95	223346	154.420 ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 308.840%#		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.166	85	174297	132.067 ug/l	96
3) Chloromethane	1.307	50	213704	133.072 ug/l	97
4) Vinyl Chloride	1.374	62	217672	138.774 ug/l	97
5) Bromomethane	1.593	94	83547	170.379 ug/l	98
6) Chloroethane	1.660	64	82101	137.509 ug/l	95
7) Trichlorofluoromethane	1.861	101	272235	135.494 ug/l	98
8) Diethyl Ether	2.136	74	110005	150.660 ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.313	101	161825	134.877 ug/l	99
10) Methyl Iodide	2.441	142	212355	138.059 ug/l	99
11) Tert butyl alcohol	3.014	59	195415	754.176 ug/l	97
12) 1,1-Dichloroethene	2.300	96	173271	140.655 ug/l	96
13) Acrolein	2.239	56	263999	940.846 ug/l	98
14) Allyl chloride	2.654	41	308018	139.077 ug/l	98
15) Acrylonitrile	3.069	53	573208	813.990 ug/l	99
16) Acetone	2.392	43	511828	879.387 ug/l	100
17) Carbon Disulfide	2.495	76	487720	145.511 ug/l	98
18) Methyl Acetate	2.709	43	258303	147.347 ug/l	100
19) Methyl tert-butyl Ether	3.117	73	619778	157.358 ug/l	99
20) Methylene Chloride	2.782	84	202913	147.198 ug/l	99
21) trans-1,2-Dichloroethene	3.081	96	176924	146.027 ug/l	98
22) Diisopropyl ether	3.764	45	662828	156.526 ug/l	98
23) Vinyl Acetate	3.721	43	2943150	846.586 ug/l	99
24) 1,1-Dichloroethane	3.605	63	363081	153.453 ug/l	99
25) 2-Butanone	4.568	43	818497	872.239 ug/l	99
26) 2,2-Dichloropropane	4.465	77	179826	102.231 ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	220826	151.205 ug/l	98
28) Bromochloromethane	4.891	49	171273	150.105 ug/l	100
29) Tetrahydrofuran	5.007	42	528574	850.174 ug/l	99
30) Chloroform	5.093	83	351934	152.067 ug/l	97
31) Cyclohexane	5.458	56	302215	139.174 ug/l	96
32) 1,1,1-Trichloroethane	5.379	97	294434	151.120 ug/l	100
36) 1,1-Dichloropropene	5.684	75	241405	145.112 ug/l	100
37) Ethyl Acetate	4.721	43	316250	167.067 ug/l	99
38) Carbon Tetrachloride	5.672	117	245917	150.363 ug/l	99
39) Methylcyclohexane	7.373	83	292216	137.544 ug/l	97
40) Benzene	6.031	78	755854	145.368 ug/l	100

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045073.D
Acq On : 28 Feb 2025 03:47
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Feb 28 05:36:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 05:28:02 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	4.928	41	175023	173.088 ug/l	99
42) 1,2-Dichloroethane	6.080	62	276129	163.872 ug/l	99
43) Isopropyl Acetate	6.342	43	511643	169.804 ug/l	99
44) Trichloroethene	7.123	130	178483	150.181 ug/l	97
45) 1,2-Dichloropropane	7.428	63	198135	153.334 ug/l	100
46) Dibromomethane	7.580	93	142119	157.443 ug/l	99
47) Bromodichloromethane	7.818	83	280255	160.492 ug/l	99
48) Methyl methacrylate	7.696	41	252275	176.370 ug/l	99
49) 1,4-Dioxane	7.665	88	96268	3166.423 ug/l	99
51) 4-Methyl-2-Pentanone	8.580	43	1536157	832.051 ug/l	99
52) Toluene	8.714	92	448664	145.321 ug/l	99
53) t-1,3-Dichloropropene	8.976	75	266444	154.373 ug/l	96
54) cis-1,3-Dichloropropene	8.366	75	293521	152.117 ug/l	96
55) 1,1,2-Trichloroethane	9.147	97	178217	149.046 ug/l	98
56) Ethyl methacrylate	9.116	69	310992	162.631 ug/l	98
57) 1,3-Dichloropropane	9.305	76	312196	149.699 ug/l	100
58) 2-Chloroethyl Vinyl ether	8.238	63	717328	764.019 ug/l	99
59) 2-Hexanone	9.433	43	1156653	868.492 ug/l	100
60) Dibromochloromethane	9.519	129	201906	158.276 ug/l	99
61) 1,2-Dibromoethane	9.610	107	185828	154.074 ug/l	100
64) Tetrachloroethene	9.269	164	139536	145.906 ug/l	94
65) Chlorobenzene	10.079	112	472117	146.096 ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.159	131	163370	156.845 ug/l	97
67) Ethyl Benzene	10.189	91	852575	149.191 ug/l	99
68) m/p-Xylenes	10.299	106	607523	288.655 ug/l	97
69) o-Xylene	10.640	106	302495	143.259 ug/l	99
70) Styrene	10.653	104	512379	150.979 ug/l	99
71) Bromoform	10.799	173	135388	174.808 ug/l #	99
73) Isopropylbenzene	10.963	105	780706	142.719 ug/l	99
74) N-amyl acetate	10.842	43	429686	173.042 ug/l	100
75) 1,1,2,2-Tetrachloroethane	11.213	83	283558	150.458 ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	229435m	151.960 ug/l	
77) Bromobenzene	11.195	156	180997	145.760 ug/l	96
78) n-propylbenzene	11.305	91	923593	146.395 ug/l	99
79) 2-Chlorotoluene	11.366	91	548695	141.695 ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	635832	143.293 ug/l	98
81) trans-1,4-Dichloro-2-b...	11.018	75	82267	147.761 ug/l	98
82) 4-Chlorotoluene	11.451	91	627816	146.464 ug/l	99
83) tert-Butylbenzene	11.713	119	641713	142.974 ug/l	99
84) 1,2,4-Trimethylbenzene	11.750	105	647248	148.135 ug/l	100
85) sec-Butylbenzene	11.890	105	807713	145.383 ug/l	100
86) p-Isopropyltoluene	12.006	119	664916	149.075 ug/l	100
87) 1,3-Dichlorobenzene	11.969	146	334751	147.488 ug/l	100
88) 1,4-Dichlorobenzene	12.043	146	333594	145.189 ug/l	99
89) n-Butylbenzene	12.329	91	620757	158.324 ug/l	99
90) Hexachloroethane	12.536	117	128582	154.554 ug/l	100
91) 1,2-Dichlorobenzene	12.335	146	329318	147.436 ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	64958	186.240 ug/l	98
93) 1,2,4-Trichlorobenzene	13.585	180	219313	162.416 ug/l	99
94) Hexachlorobutadiene	13.725	225	80241	149.034 ug/l	99
95) Naphthalene	13.774	128	828949	168.538 ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	222608	162.727 ug/l	99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045073.D
Acq On : 28 Feb 2025 03:47
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Feb 28 05:36:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 05:28:02 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

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

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

Quantitation Report (QT Reviewed)

ICAL Form

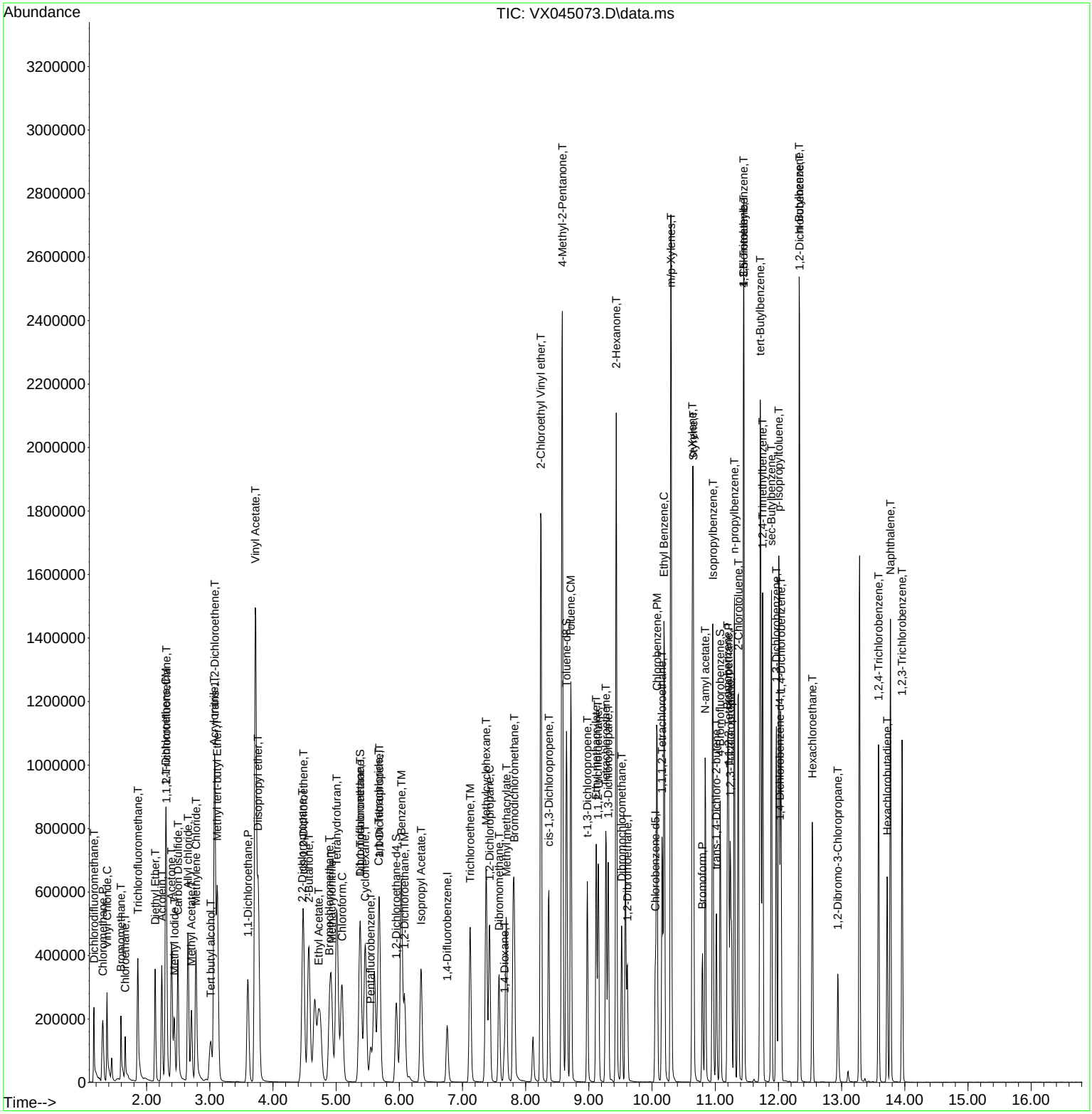
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045073.D
Acq On : 28 Feb 2025 03:47
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 22 Sample Multiplier: 1

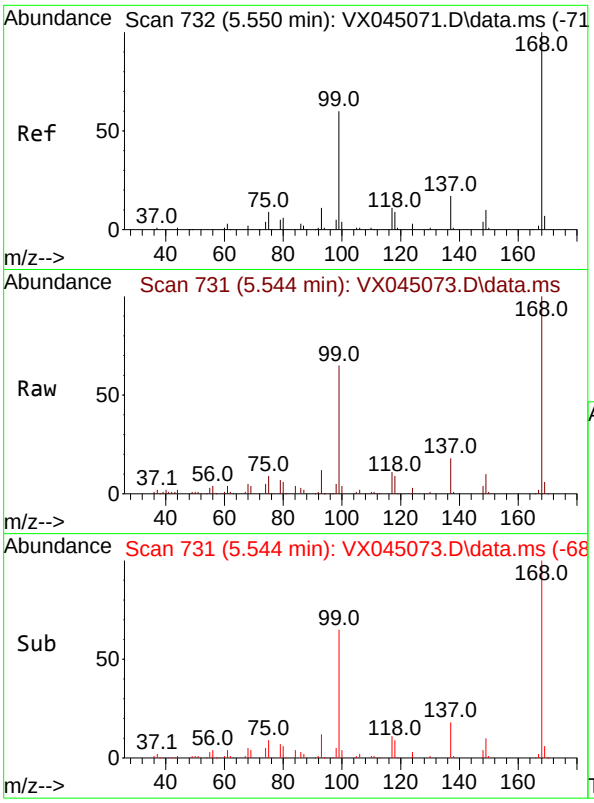
Quant Time: Feb 28 05:36:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 05:28:02 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

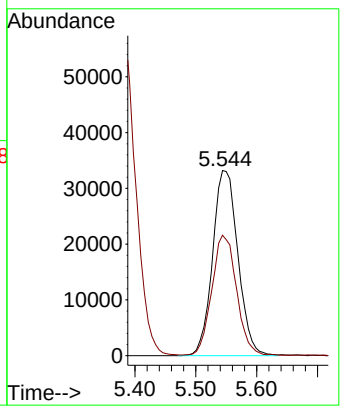
Tgt Ion:168 Resp: 95754

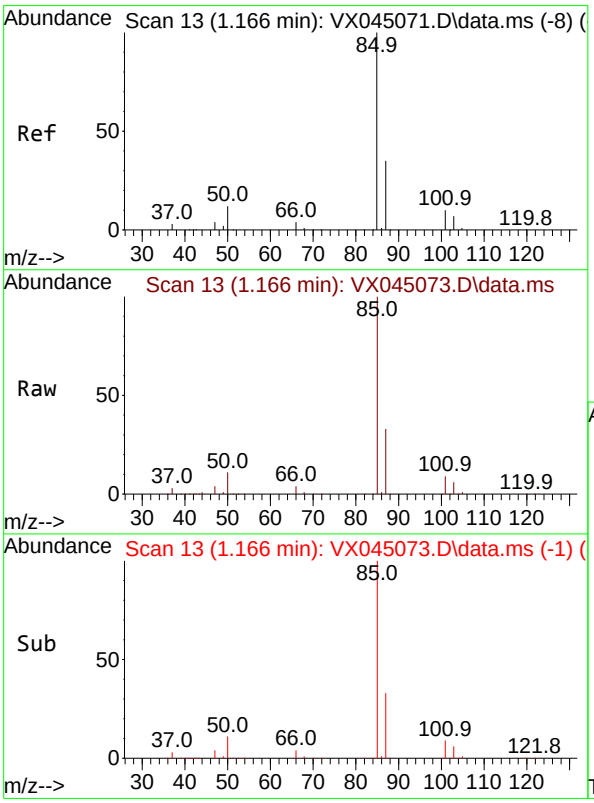
Ion	Ratio	Lower	Upper
168	100		
99	64.8	48.2	72.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

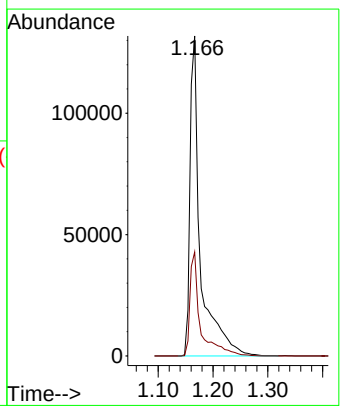


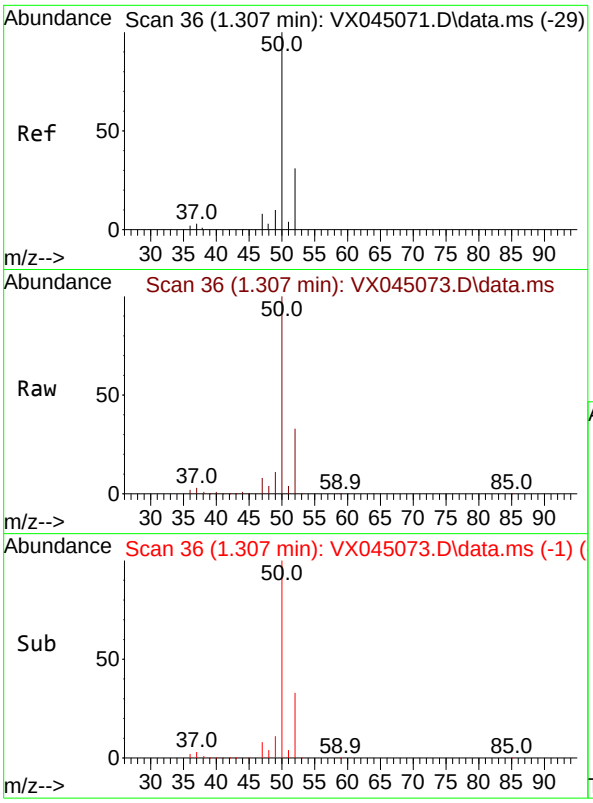


#2
Dichlorodifluoromethane
Concen: 132.067 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 85 Resp: 174297

Ion	Ratio	Lower	Upper
85	100		
87	32.5	17.4	52.3





#3
Chloromethane
Concen: 133.072 ug/l
RT: 1.307 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

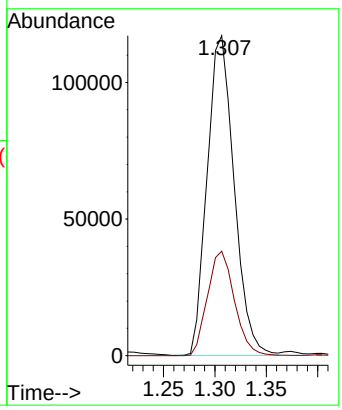
Tgt Ion: 50 Resp: 21370

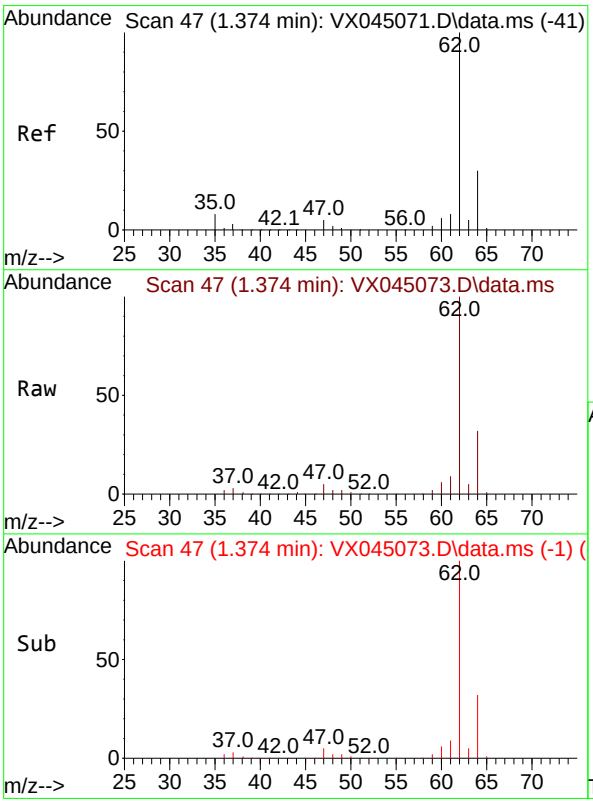
Ion	Ratio	Lower	Upper
50	100		
52	32.7	25.0	37.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

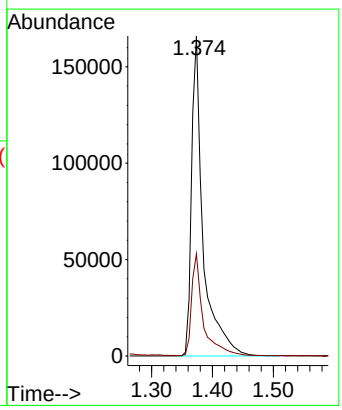


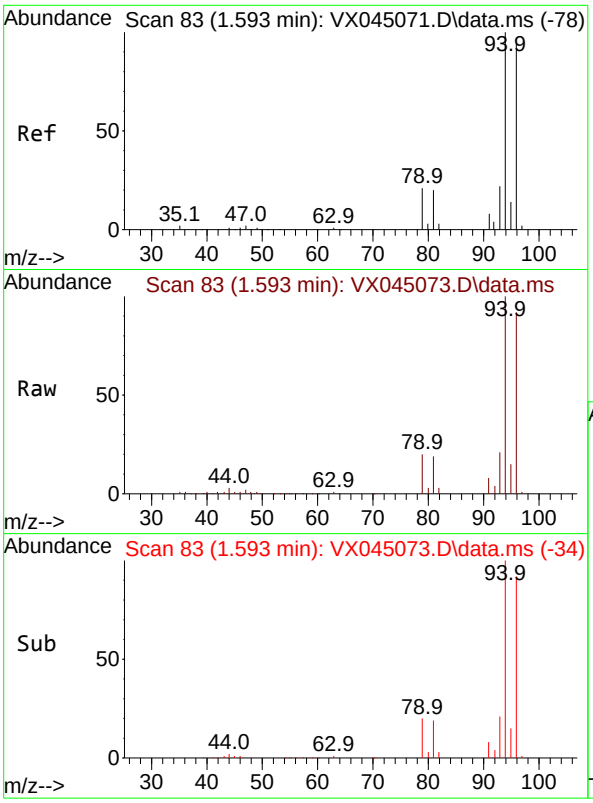


#4
Vinyl Chloride
Concen: 138.774 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 62 Resp: 217672

Ion	Ratio	Lower	Upper
62	100		
64	31.8	24.3	36.5





#5
Bromomethane
Concen: 170.379 ug/l
RT: 1.593 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

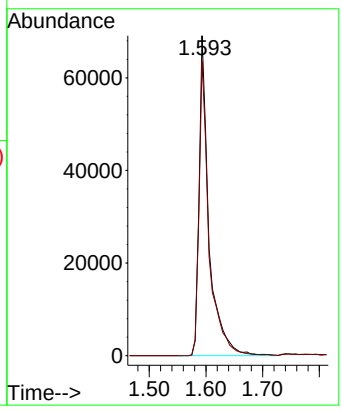
Tgt Ion: 94 Resp: 8354

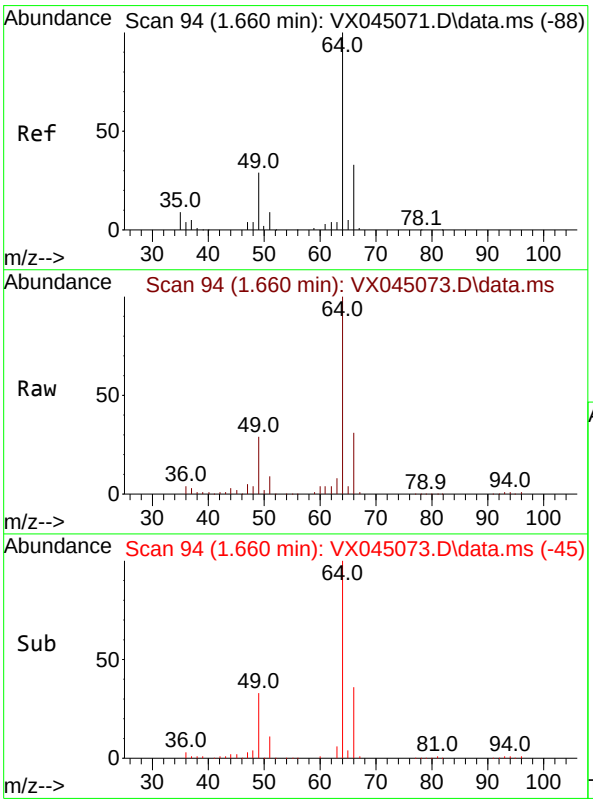
Ion	Ratio	Lower	Upper
94	100		
96	92.2	75.0	112.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

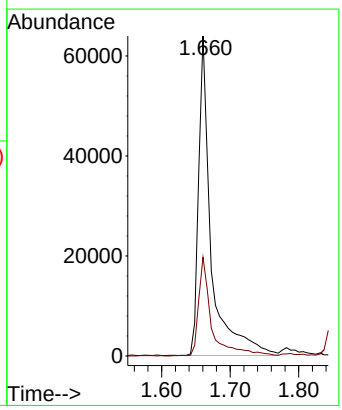


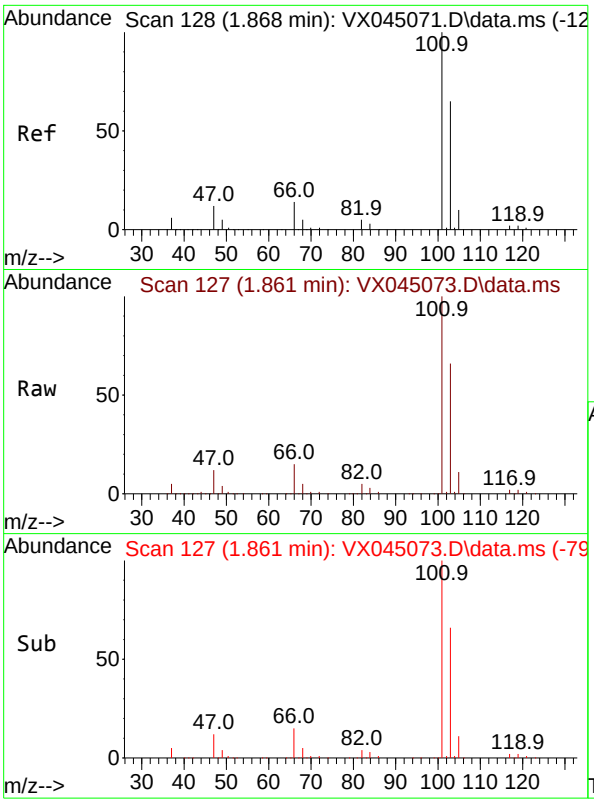


#6
Chloroethane
Concen: 137.509 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 64 Resp: 82101

Ion	Ratio	Lower	Upper
64	100		
66	30.8	26.7	40.1





#7
Trichlorofluoromethane
Concen: 135.494 ug/l
RT: 1.861 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

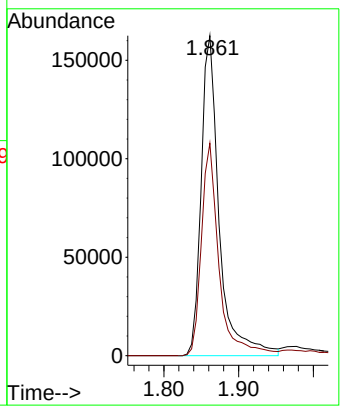
Tgt Ion:101 Resp: 27223

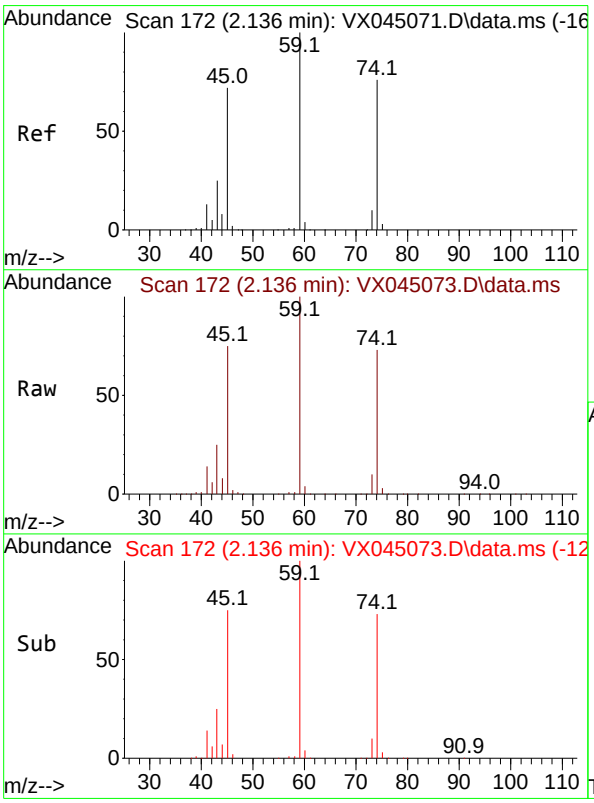
Ion	Ratio	Lower	Upper
101	100		
103	66.4	52.1	78.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

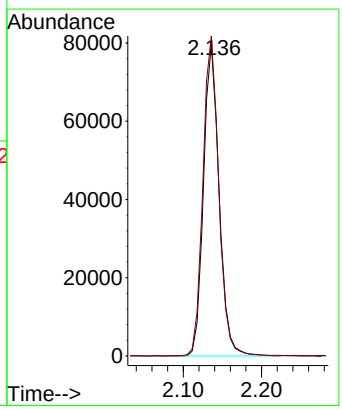


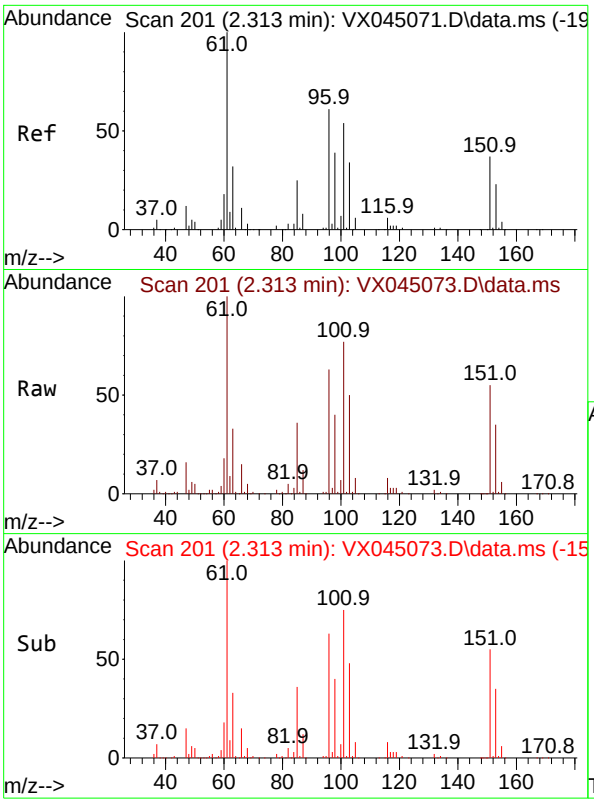


#8
Diethyl Ether
Concen: 150.660 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 74 Resp: 110005

Ion	Ratio	Lower	Upper
74	100		
45	104.9	51.5	154.5





#9
1,1,2-Trichlorotrifluoroethane
Concen: 134.877 ug/l
RT: 2.313 min Scan# 2(
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

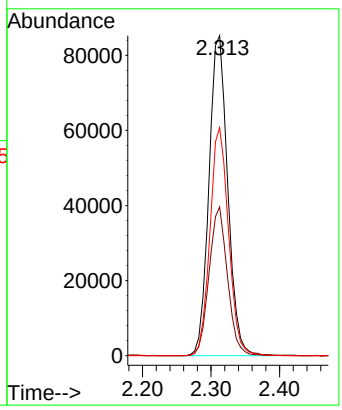
Tgt Ion:101 Resp: 16182

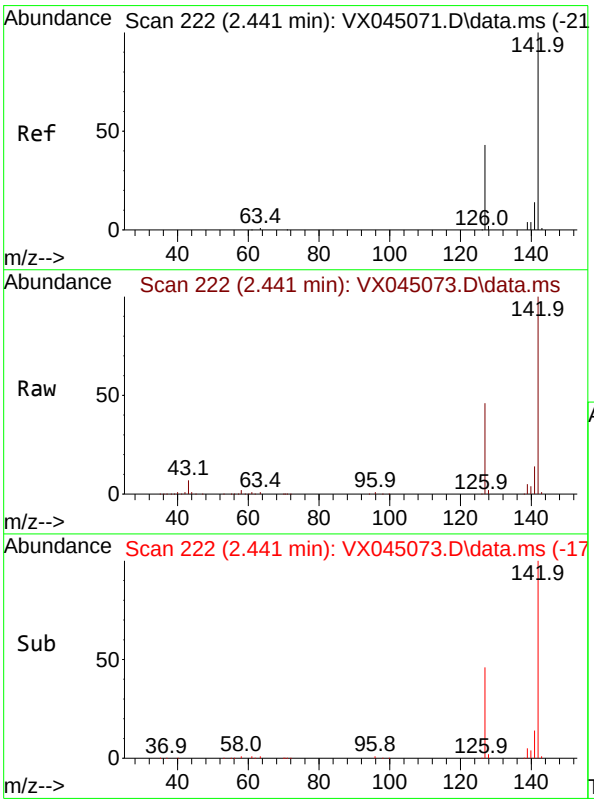
Ion	Ratio	Lower	Upper
101	100		
85	45.8	36.2	54.4
151	70.8	56.4	84.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

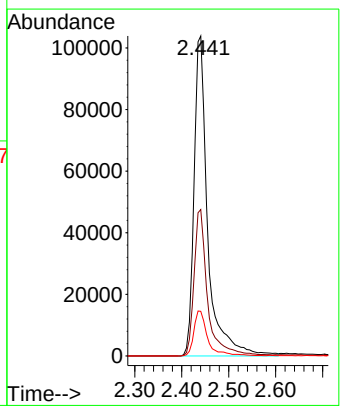


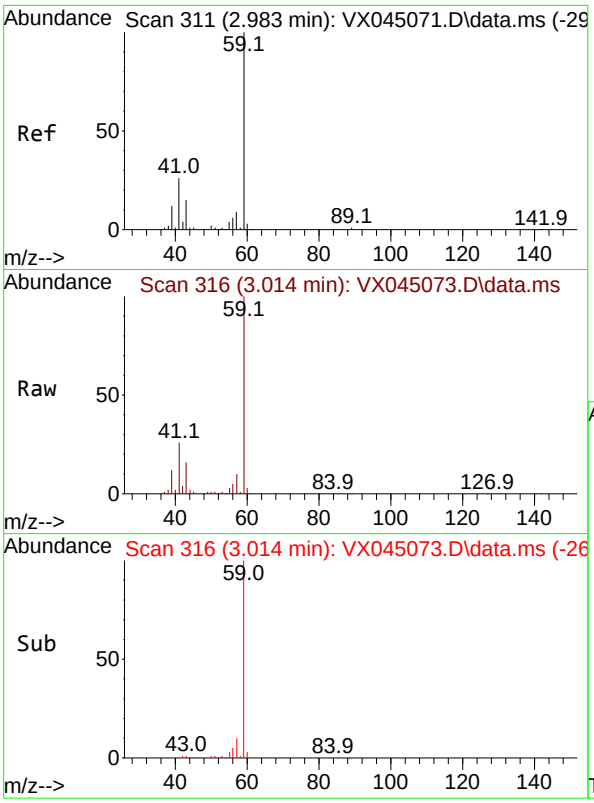


#10
Methyl Iodide
Concen: 138.059 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion:142 Resp: 212355

Ion	Ratio	Lower	Upper
142	100		
127	45.2	35.4	53.2
141	14.3	11.6	17.4





#11
Tert butyl alcohol
Concen: 754.176 ug/l
RT: 3.014 min Scan# 3
Delta R.T. 0.030 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

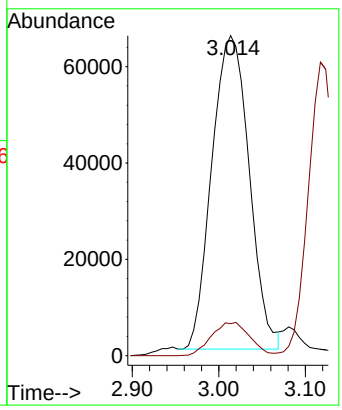
Tgt Ion: 59 Resp: 19541

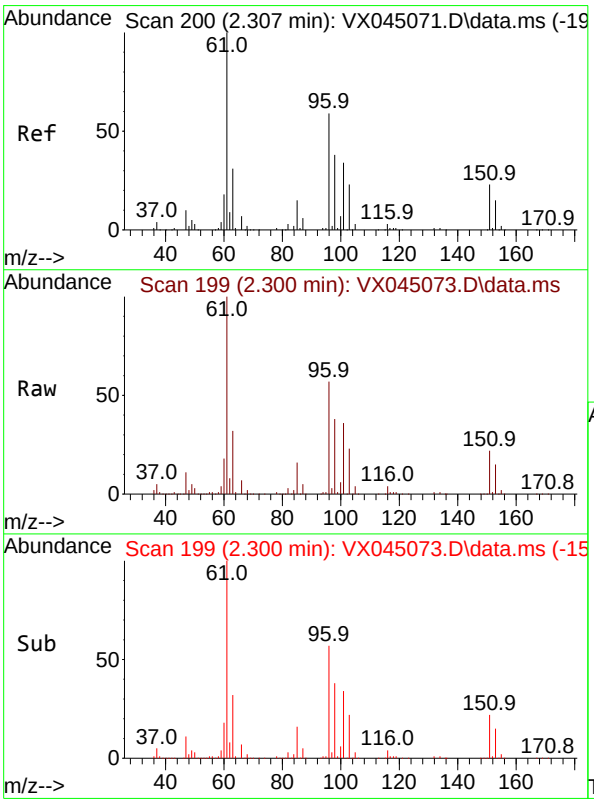
Ion	Ratio	Lower	Upper
59	100		
57	10.9	7.8	11.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

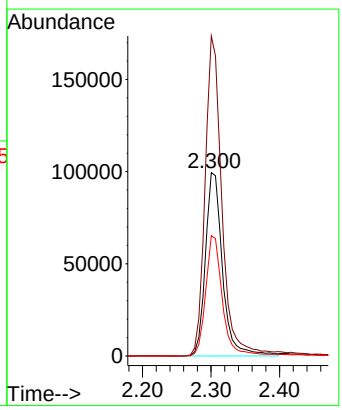


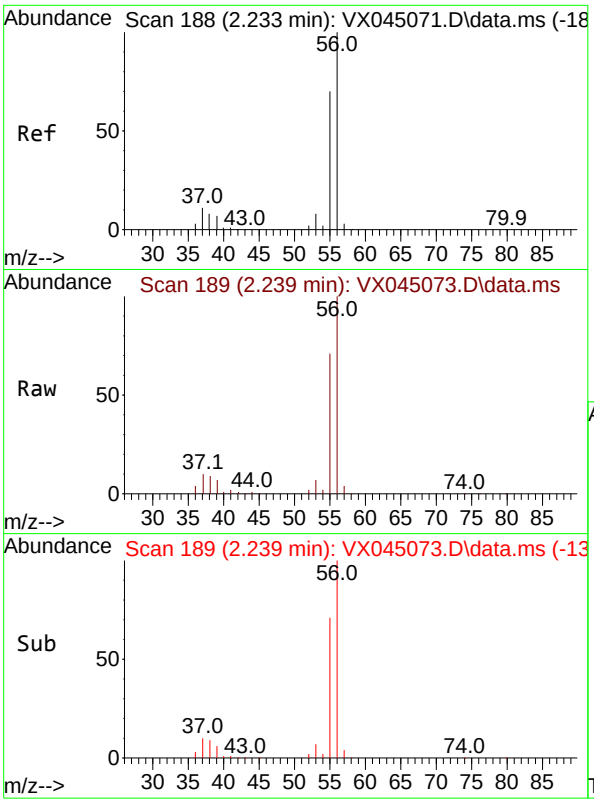


#12
1,1-Dichloroethene
Concen: 140.655 ug/l
RT: 2.300 min Scan# 199
Delta R.T. -0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 96 Resp: 173271

Ion	Ratio	Lower	Upper
96	100		
61	174.5	134.6	202.0
98	65.6	51.0	76.6





#13
Acrolein
Concen: 940.846 ug/l
RT: 2.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 56 Resp: 263999

Ion	Ratio	Lower	Upper
56	100		
55	71.6	56.2	84.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
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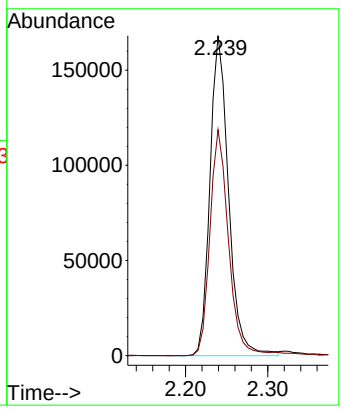
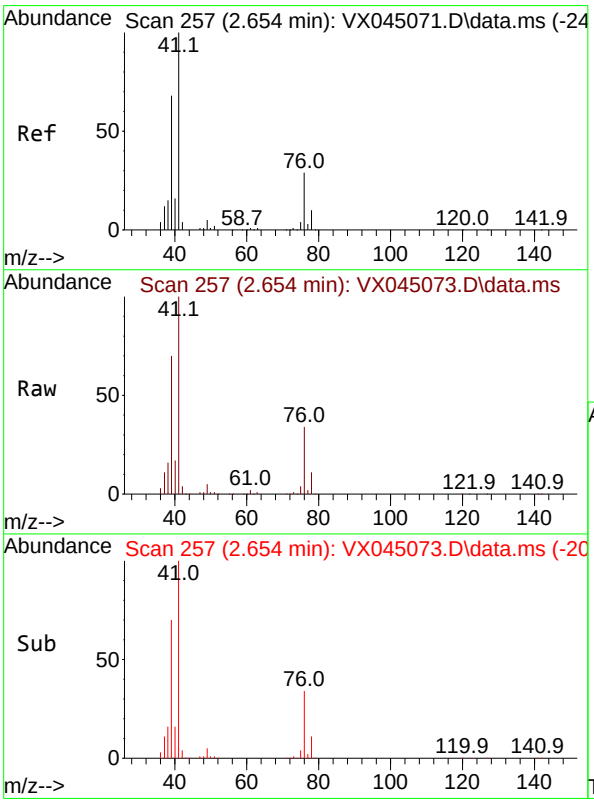
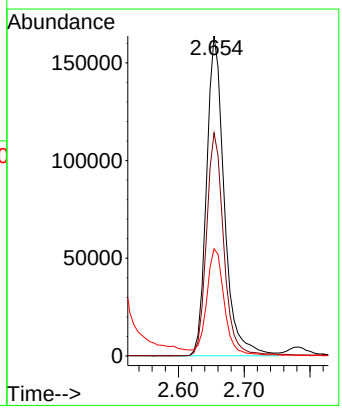


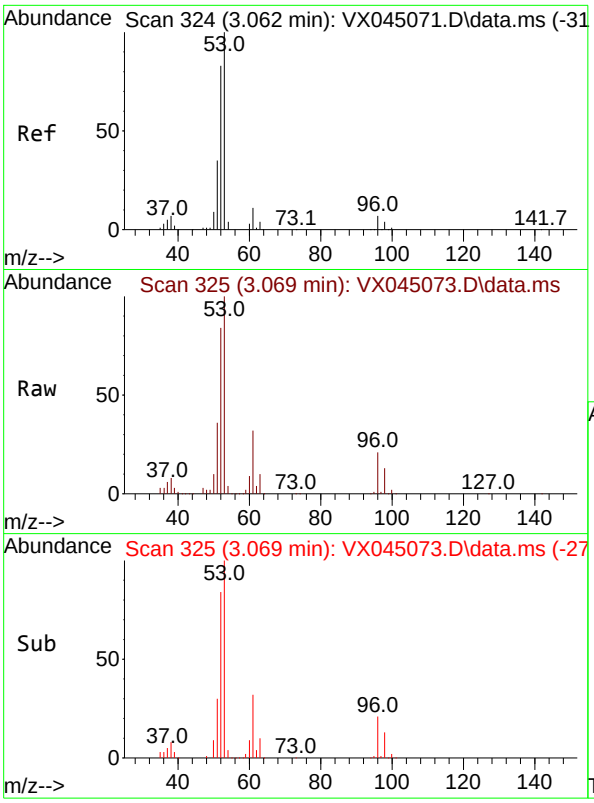


#14
Allyl chloride
Concen: 139.077 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 41 Resp: 308018

Ion	Ratio	Lower	Upper
41	100		
39	67.9	53.8	80.8
76	33.8	25.2	37.8





#15
Acrylonitrile
Concen: 813.990 ug/l
RT: 3.069 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

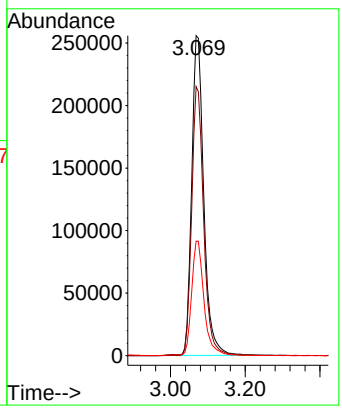
Tgt Ion: 53 Resp: 57320

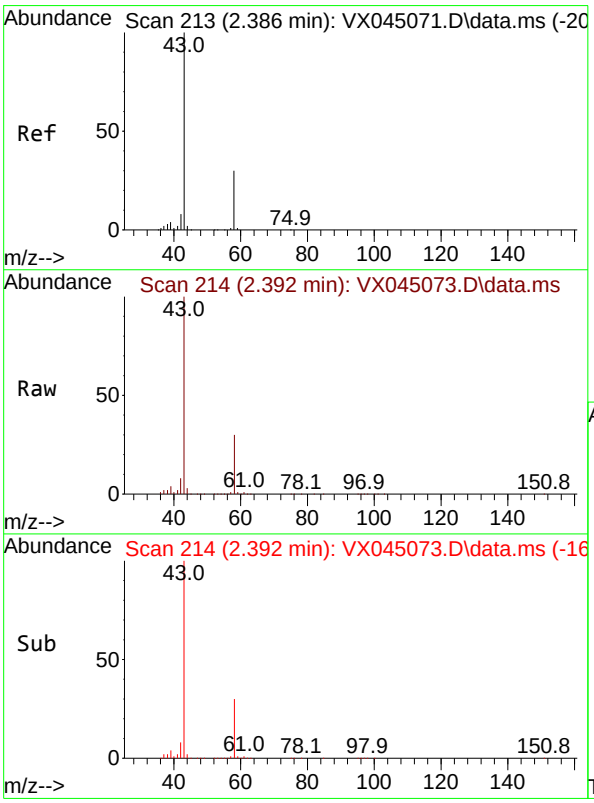
Ion	Ratio	Lower	Upper
53	100		
52	83.3	66.2	99.2
51	37.0	29.0	43.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

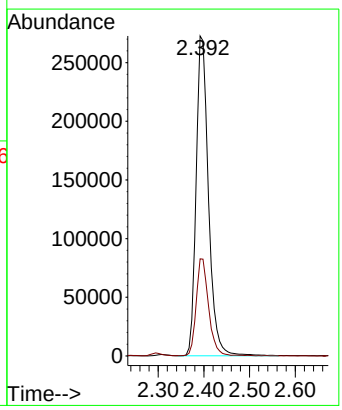


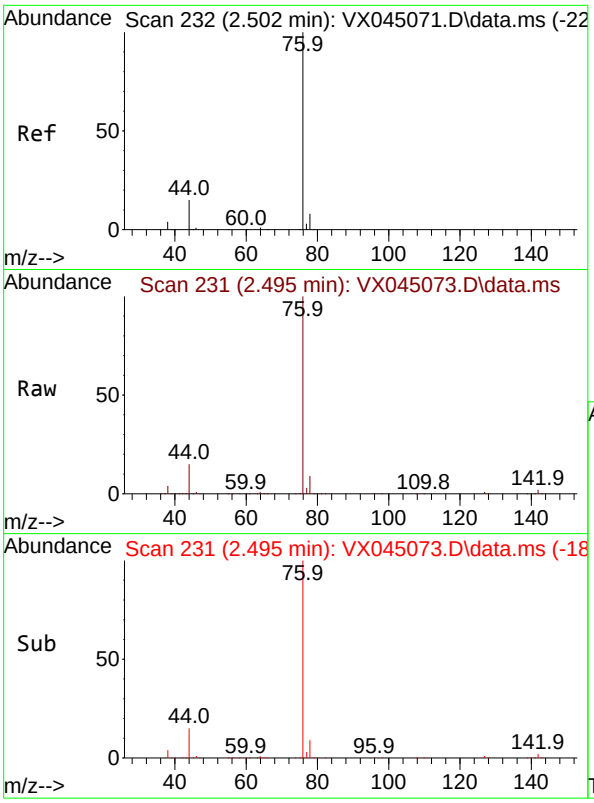


#16
Acetone
Concen: 879.387 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 43 Resp: 511828

Ion	Ratio	Lower	Upper
43	100		
58	30.3	24.2	36.4





#17
Carbon Disulfide
Concen: 145.511 ug/l
RT: 2.495 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 76 Resp: 48772

Ion	Ratio	Lower	Upper
76	100		
78	8.8	6.6	9.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
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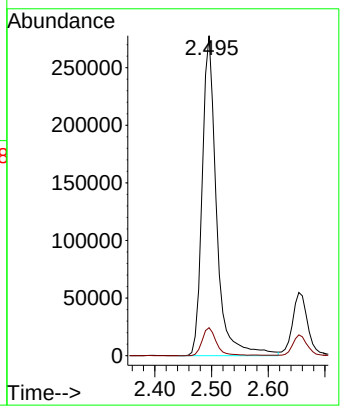
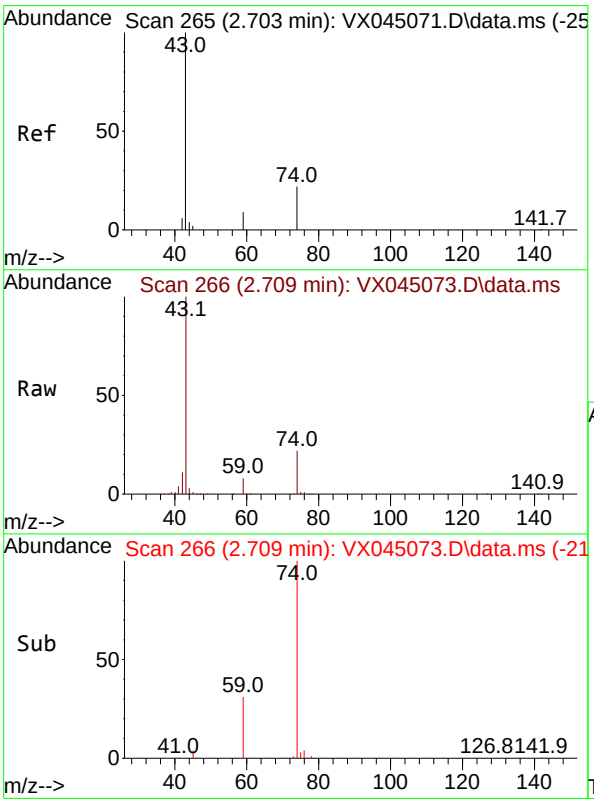
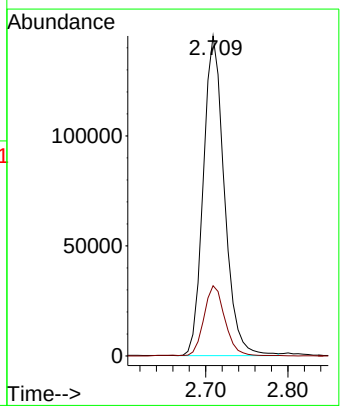


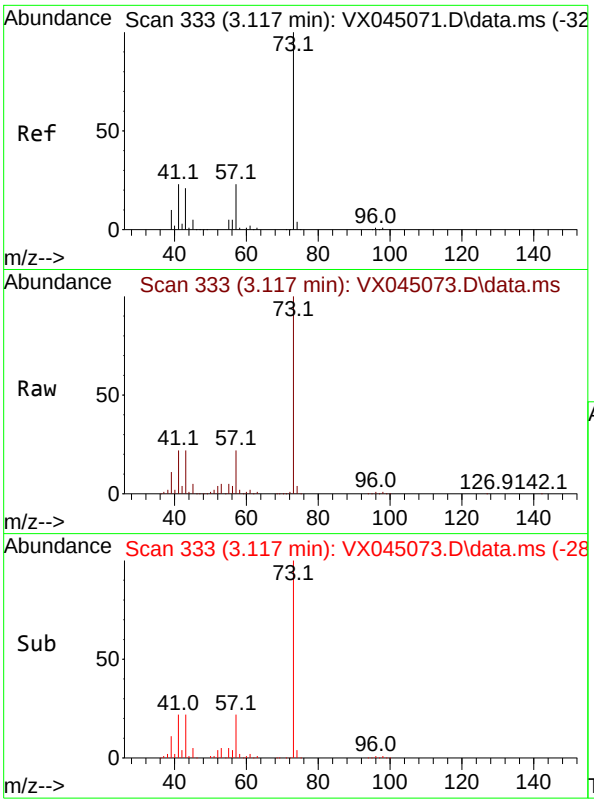


#18
Methyl Acetate
Concen: 147.347 ug/l
RT: 2.709 min Scan# 266
Delta R.T. 0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 43 Resp: 258303

Ion	Ratio	Lower	Upper
43	100		
74	22.0	17.4	26.2





#19
Methyl tert-butyl Ether
Concen: 157.358 ug/l
RT: 3.117 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

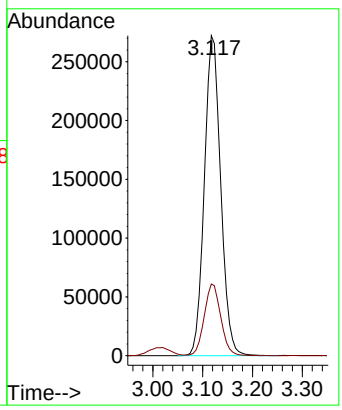
Tgt Ion: 73 Resp: 61977

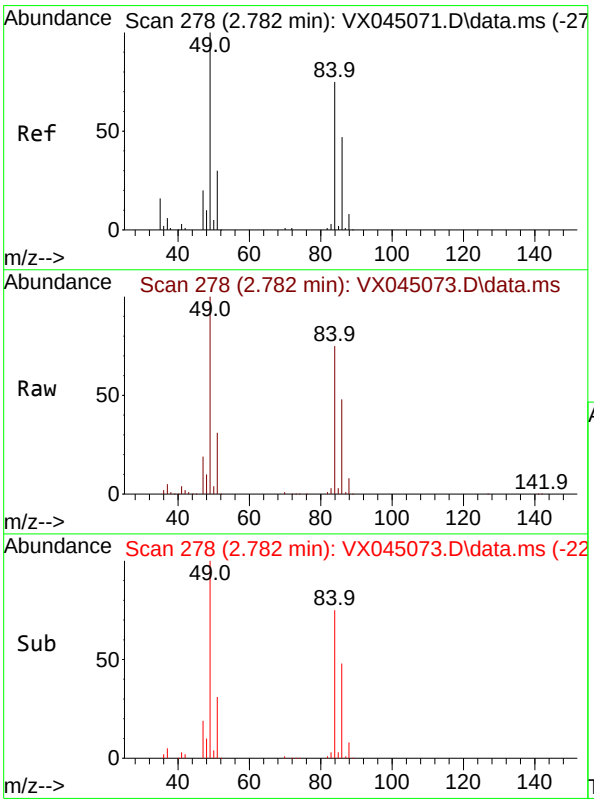
Ion	Ratio	Lower	Upper
73	100		
57	22.4	18.5	27.7

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

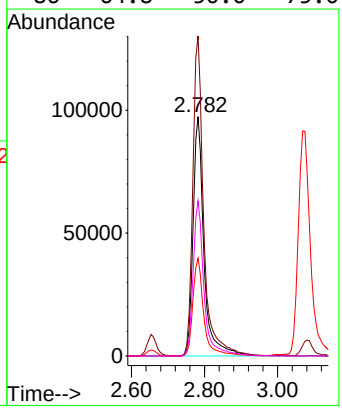


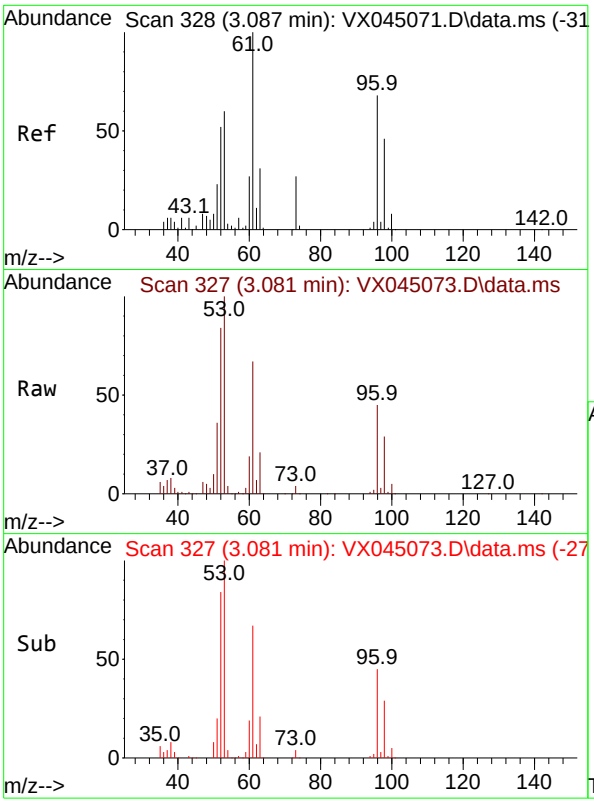


#20
Methylene Chloride
Concen: 147.198 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 84 Resp: 202913

Ion	Ratio	Lower	Upper
84	100		
49	133.6	106.5	159.7
51	40.9	32.1	48.1
86	64.8	50.0	75.0





#21
trans-1,2-Dichloroethene
Concen: 146.027 ug/l
RT: 3.081 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 96 Resp: 17692

Ion	Ratio	Lower	Upper
96	100		
61	147.0	117.0	175.4
98	63.6	53.4	80.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
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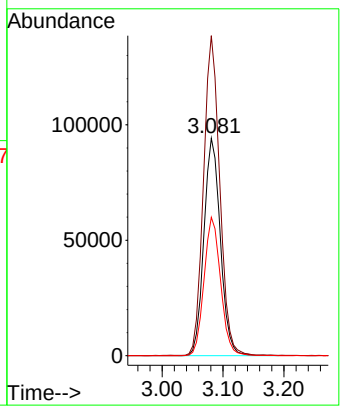
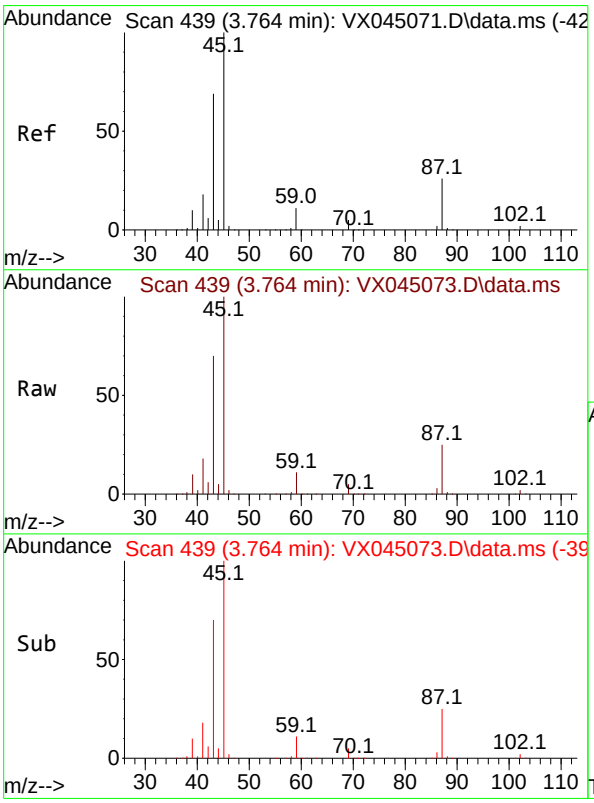
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

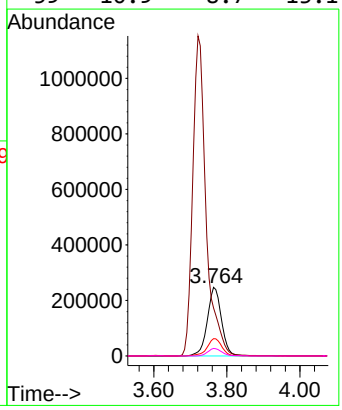


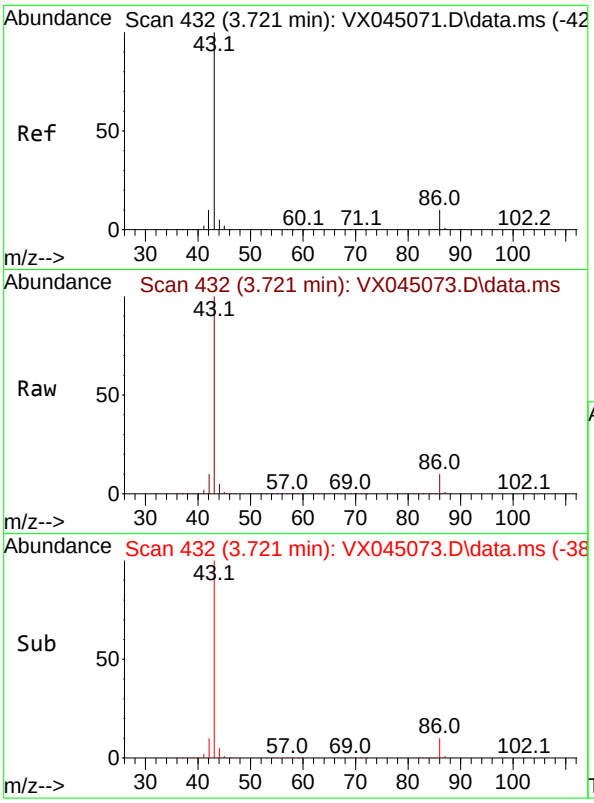


#22
Diisopropyl ether
Concen: 156.526 ug/l
RT: 3.764 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 45 Resp: 662828

Ion	Ratio	Lower	Upper
45	100		
43	70.0	54.9	82.3
87	25.2	21.0	31.4
59	10.9	8.7	13.1





#23
Vinyl Acetate
Concen: 846.586 ug/l
RT: 3.721 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 43 Resp: 294315

Ion	Ratio	Lower	Upper
43	100		
86	9.8	8.1	12.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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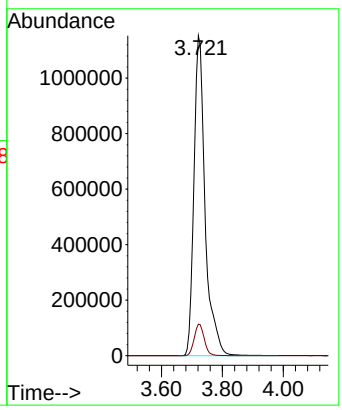
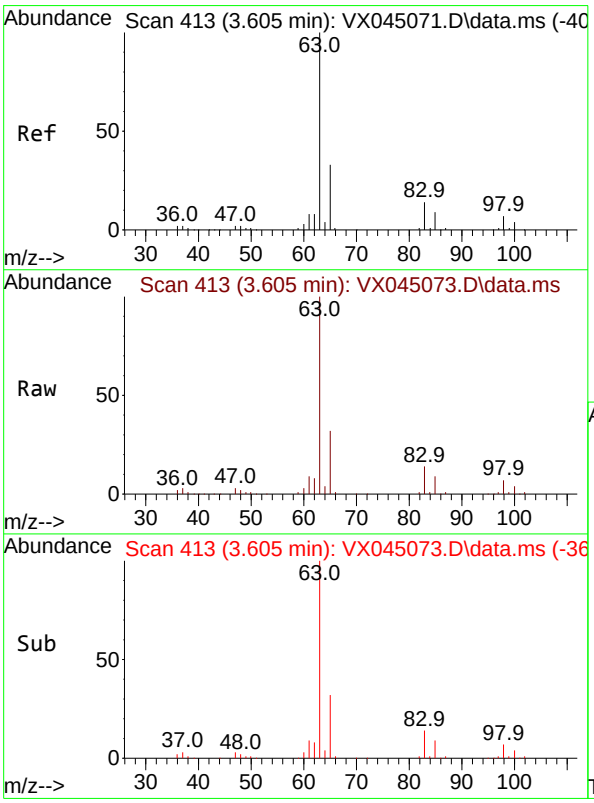
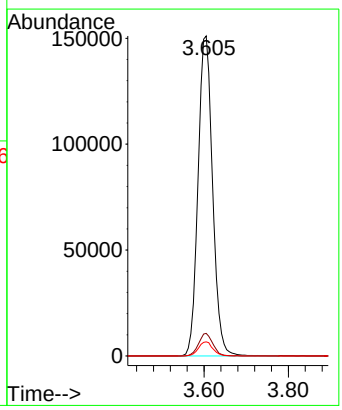


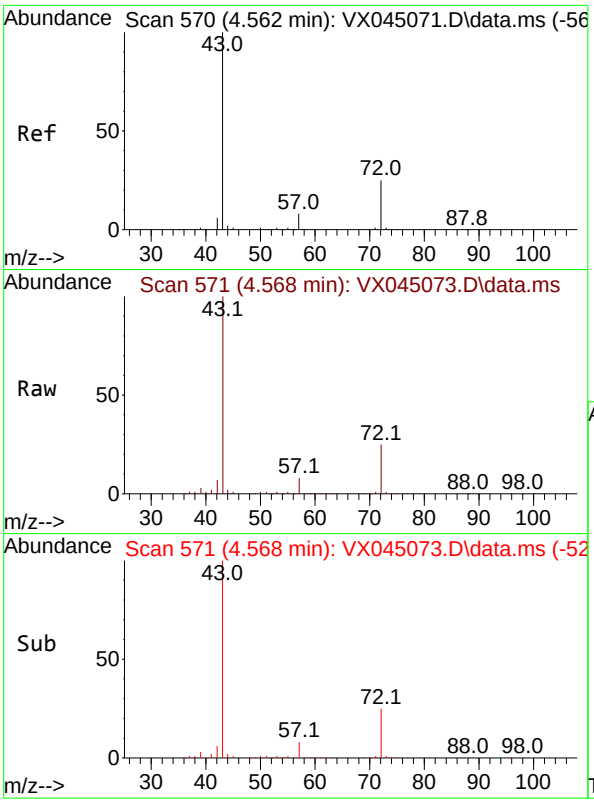


#24
1,1-Dichloroethane
Concen: 153.453 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 63 Resp: 363081

Ion	Ratio	Lower	Upper
63	100		
98	7.1	3.4	10.2
100	4.4	2.1	6.5





#25
2-Butanone
Concen: 872.239 ug/l
RT: 4.568 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 43 Resp: 81849

Ion	Ratio	Lower	Upper
43	100		
72	24.7	20.0	30.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
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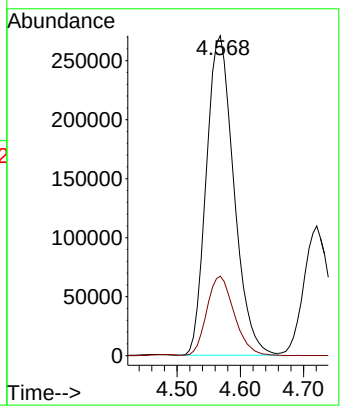
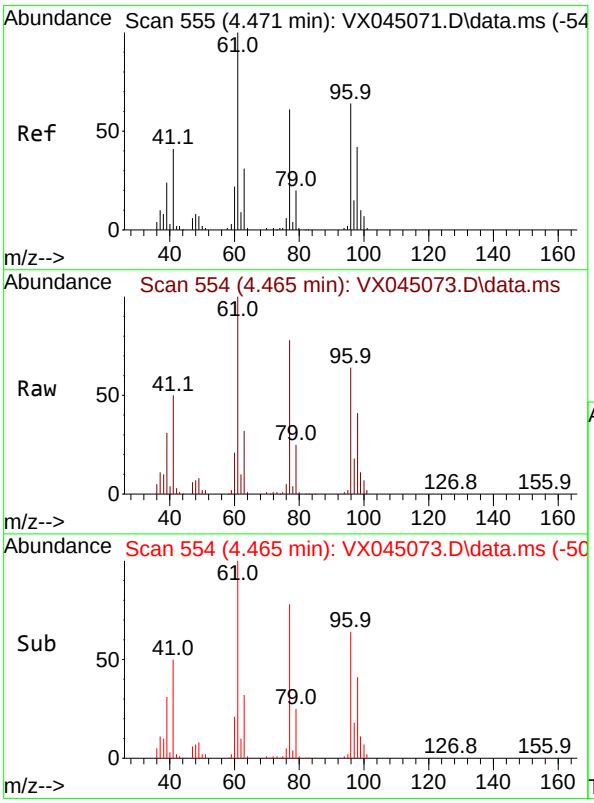
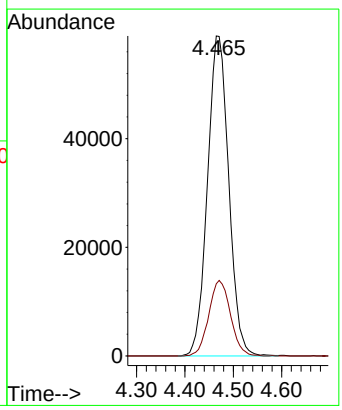


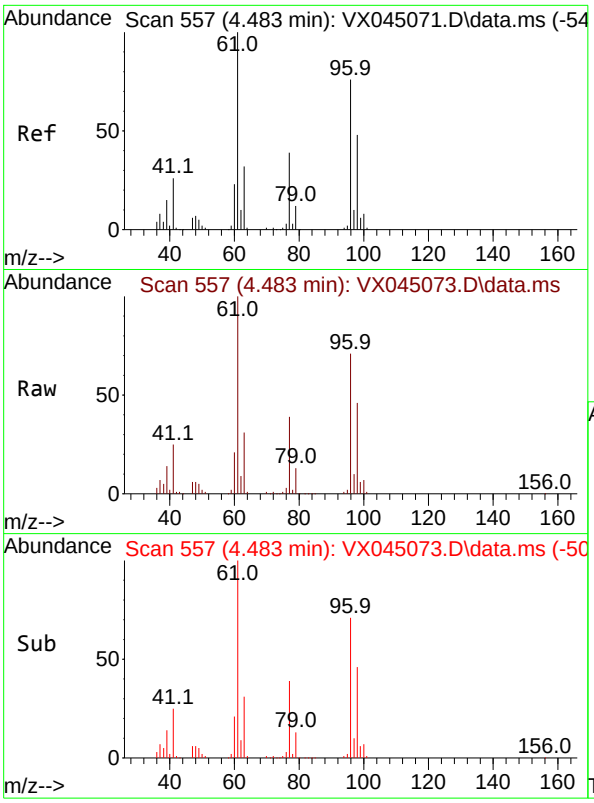


#26
2,2-Dichloropropane
Concen: 102.231 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 77 Resp: 179826

Ion	Ratio	Lower	Upper
77	100		
97	24.1	12.4	37.0





#27
cis-1,2-Dichloroethene
Concen: 151.205 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 96 Resp: 22082

Ion	Ratio	Lower	Upper
96	100		
61	144.2	0.0	283.2
98	64.3	0.0	128.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
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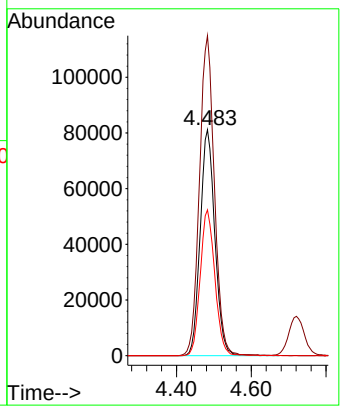
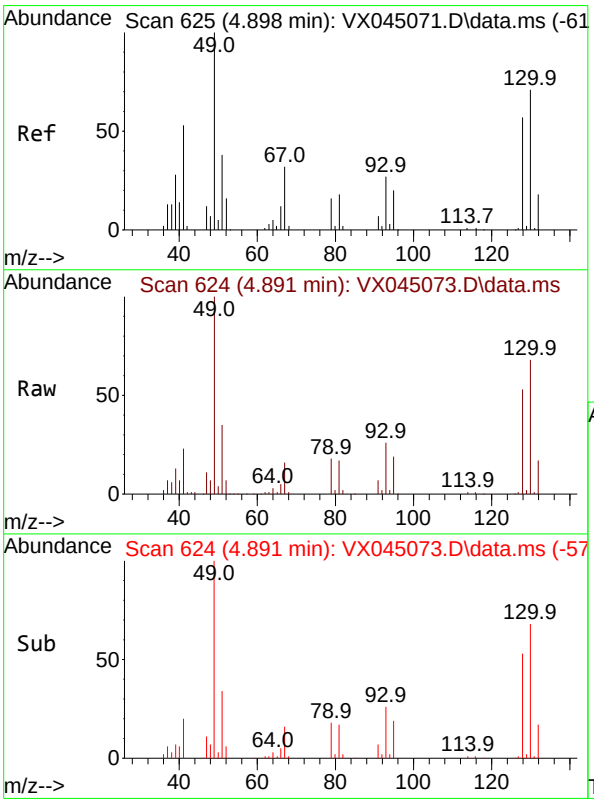
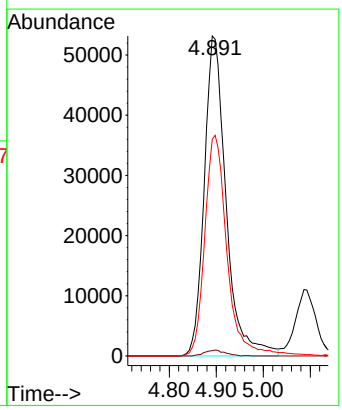


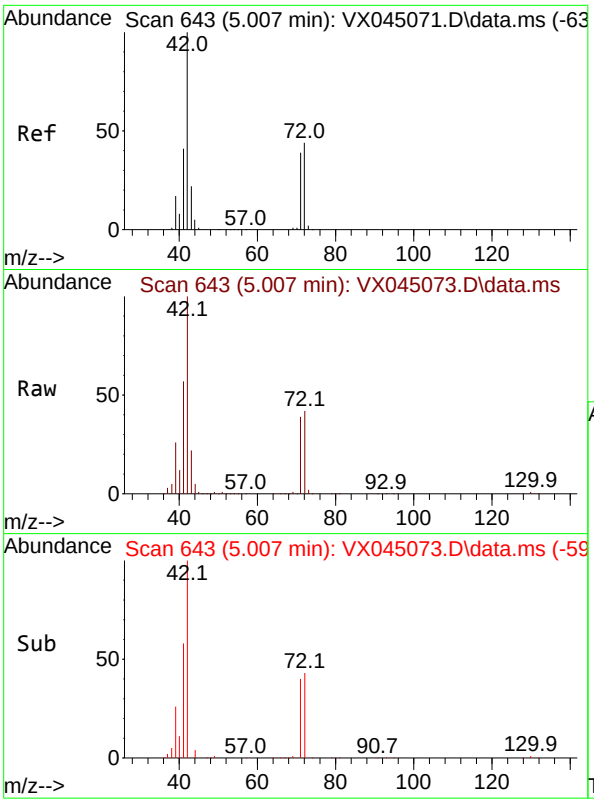


#28
Bromochloromethane
Concen: 150.105 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 49 Resp: 171273

Ion	Ratio	Lower	Upper
49	100		
129	1.7	0.0	3.4
130	70.3	56.1	84.1





#29
Tetrahydrofuran
Concen: 850.174 ug/l
RT: 5.007 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 42 Resp: 52857

Ion	Ratio	Lower	Upper
42	100		
72	42.8	34.1	51.1
71	39.7	31.4	47.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
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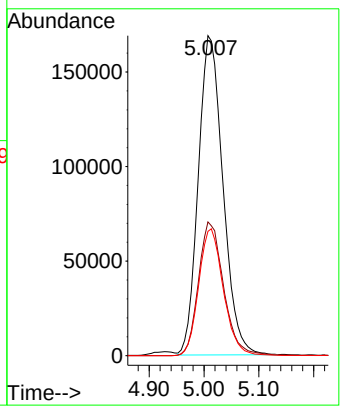
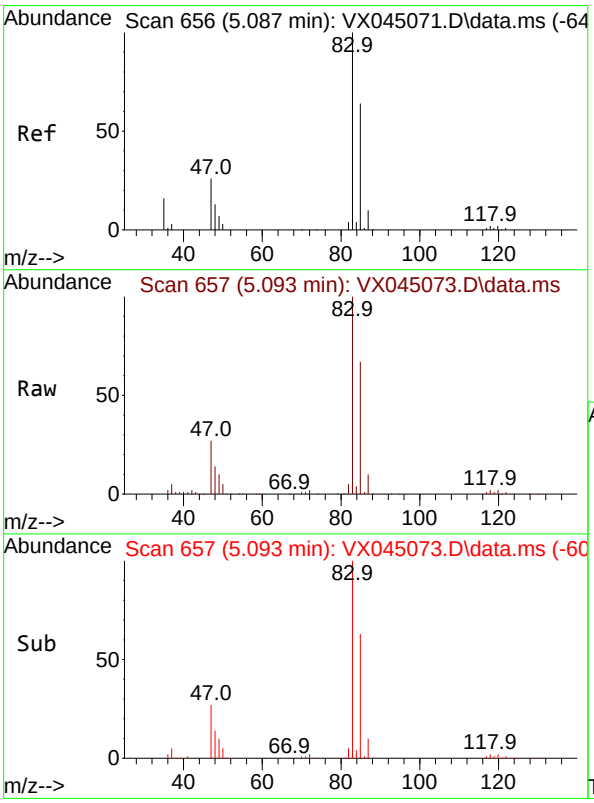
Supervised By :Mahesh Dadoda 02/28/2025

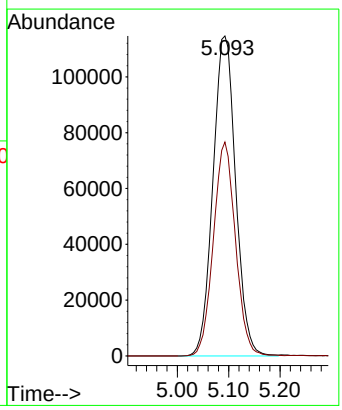


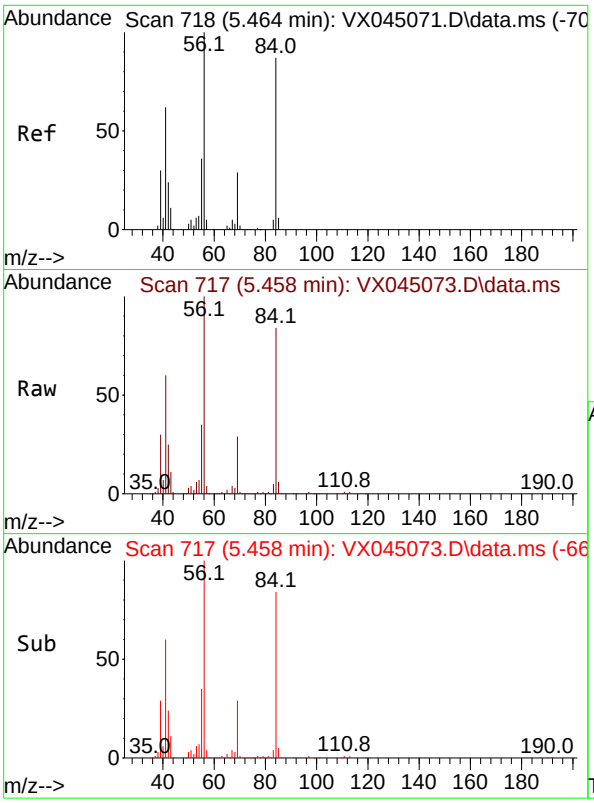


#30
Chloroform
Concen: 152.067 ug/l
RT: 5.093 min Scan# 657
Delta R.T. 0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 83 Resp: 351934

Ion	Ratio	Lower	Upper
83	100		
85	66.9	51.4	77.2





#31
Cyclohexane
Concen: 139.174 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 56 Resp: 30221

Ion	Ratio	Lower	Upper
56	100		
69	28.8	23.4	35.2
84	82.2	69.4	104.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
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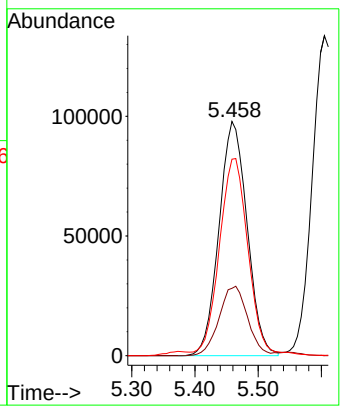
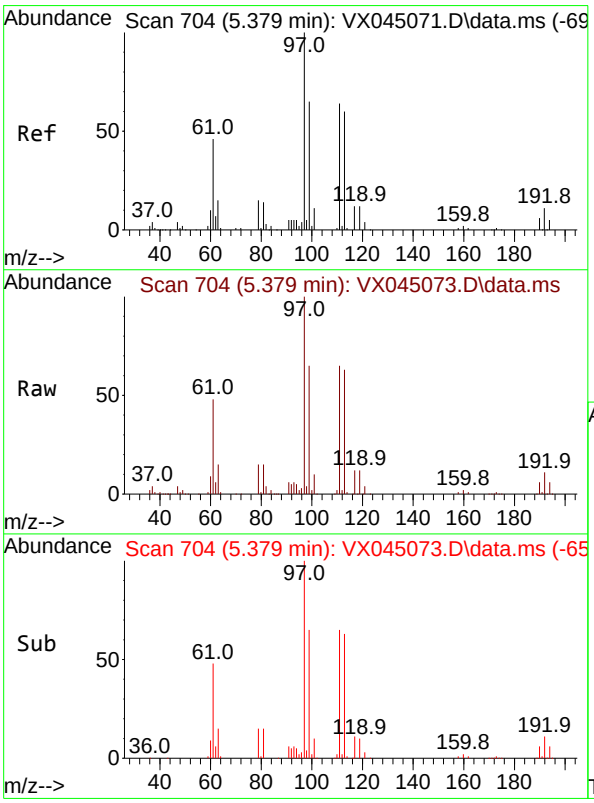
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

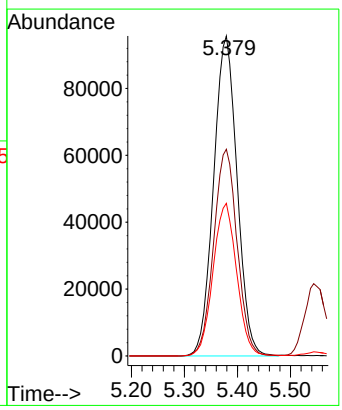


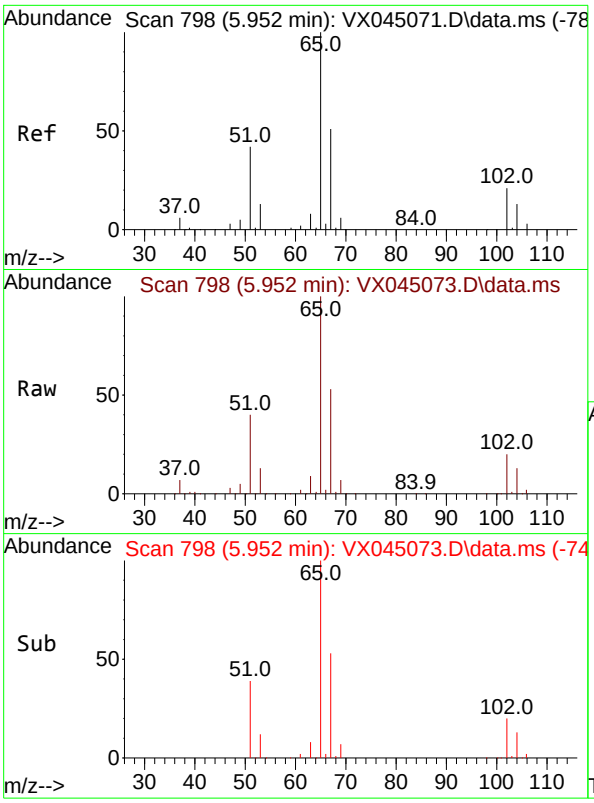


#32
1,1,1-Trichloroethane
Concen: 151.120 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 97 Resp: 294434

Ion	Ratio	Lower	Upper
97	100		
99	64.7	51.6	77.4
61	48.1	38.4	57.6





#33
1,2-Dichloroethane-d4
Concen: 165.865 ug/l
RT: 5.952 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 65 Resp: 23462

Ion	Ratio	Lower	Upper
65	100		
67	52.7	0.0	106.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
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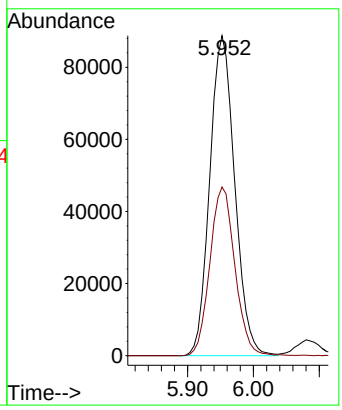
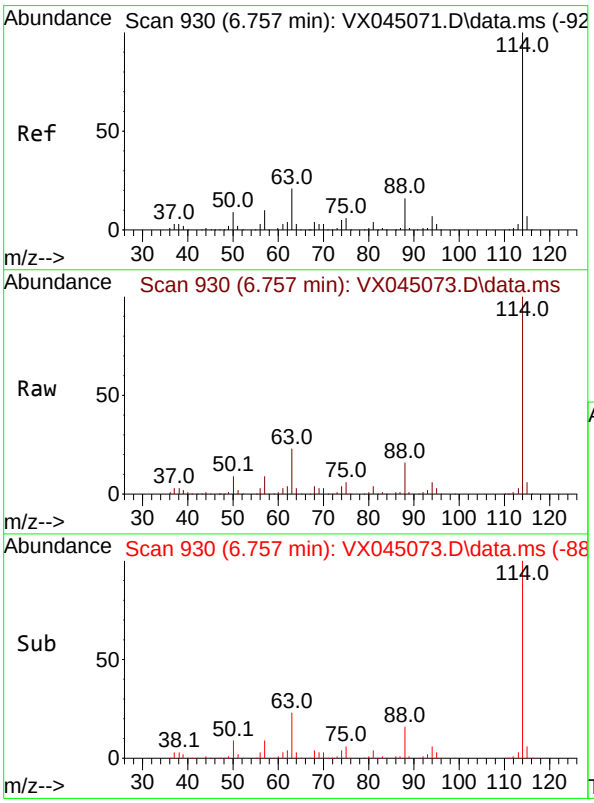
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

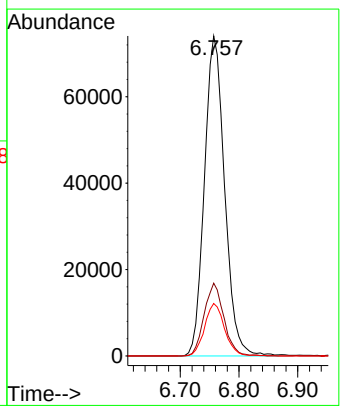


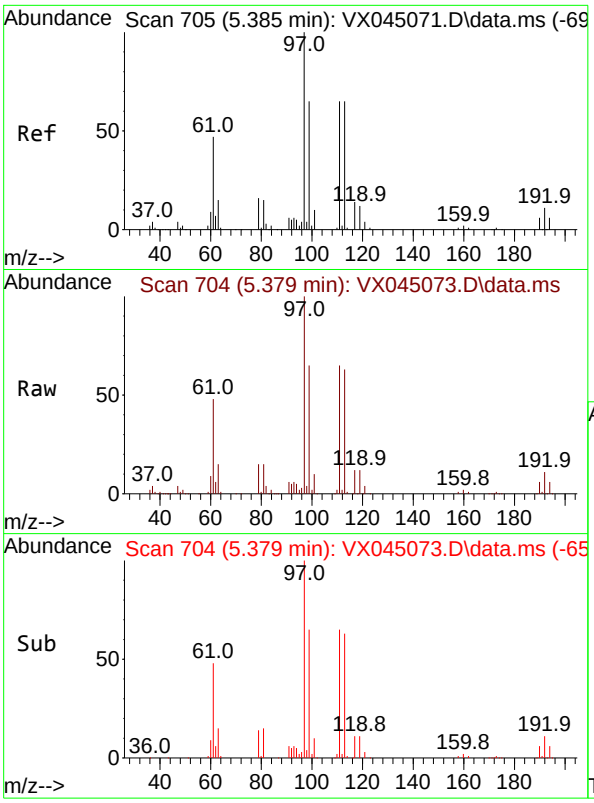


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion:114 Resp: 176991

Ion	Ratio	Lower	Upper
114	100		
63	22.8	0.0	41.8
88	16.4	0.0	32.8





#35
Dibromofluoromethane
Concen: 155.359 ug/l
RT: 5.379 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion:113 Resp: 17972

Ion	Ratio	Lower	Upper
113	100		
111	102.7	81.8	122.6
192	17.5	14.3	21.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
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Reviewed By :John Carlone 02/28/2025
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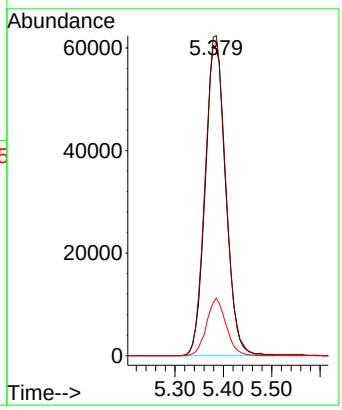
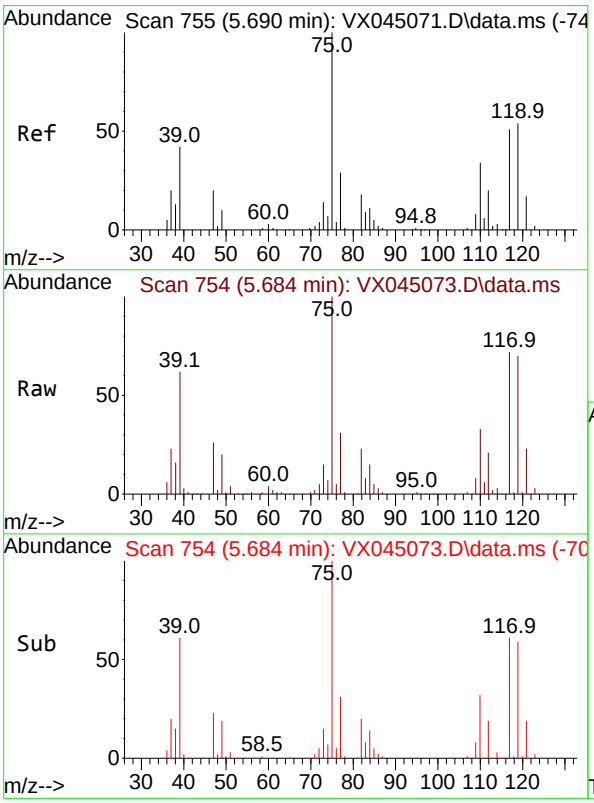
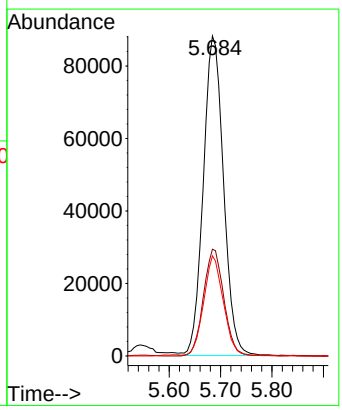


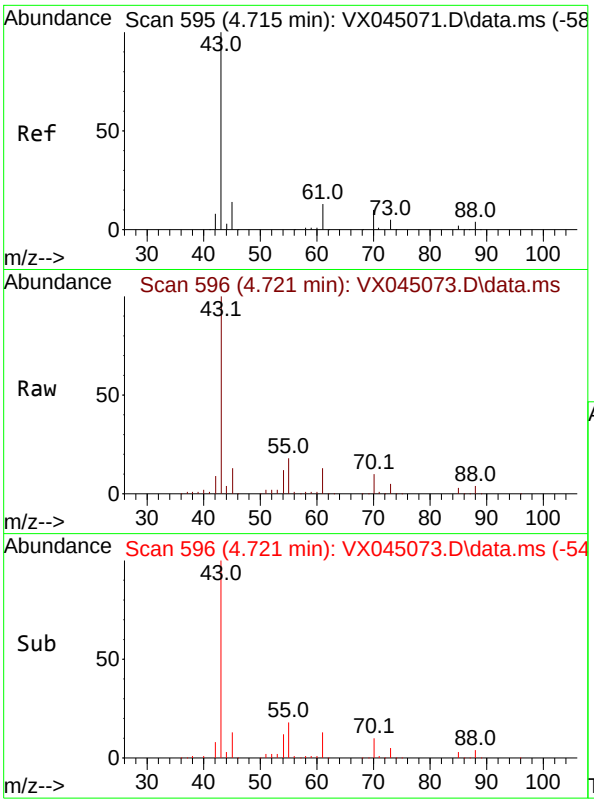


#36
1,1-Dichloropropene
Concen: 145.112 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 75 Resp: 241405

Ion	Ratio	Lower	Upper
75	100		
110	33.7	16.9	50.6
77	30.5	24.5	36.7





#37
Ethyl Acetate
Concen: 167.067 ug/l
RT: 4.721 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

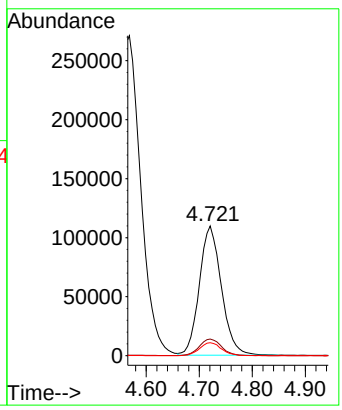
Tgt Ion: 43 Resp: 31625

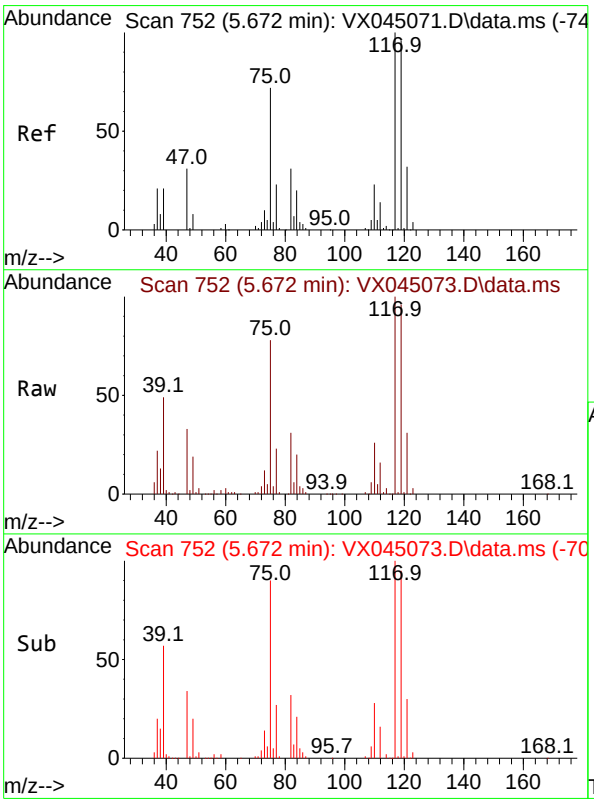
Ion	Ratio	Lower	Upper
43	100		
61	13.2	10.8	16.2
70	10.1	7.7	11.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

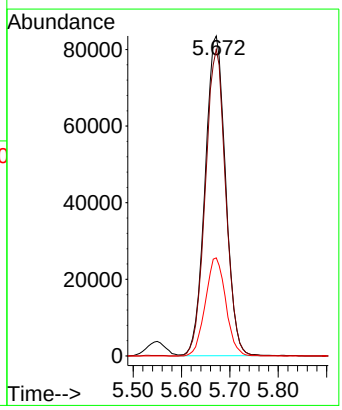


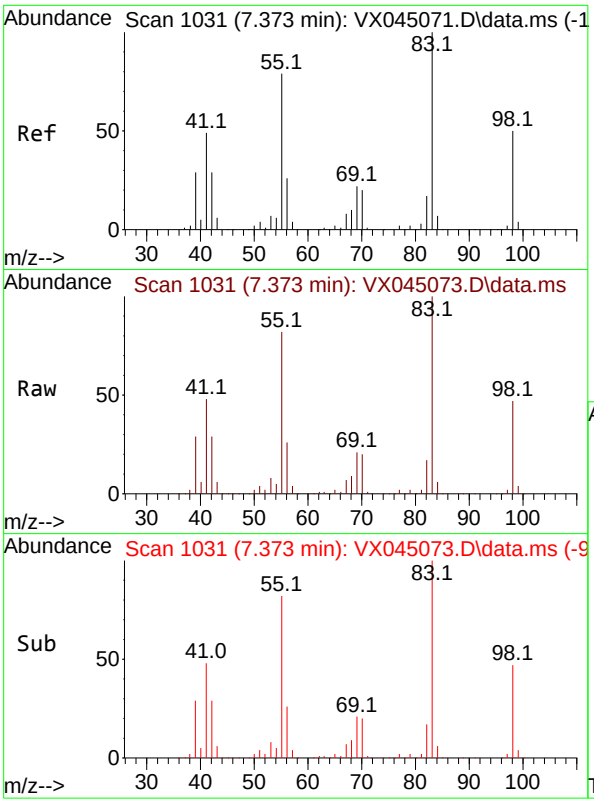


#38
Carbon Tetrachloride
Concen: 150.363 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion:117 Resp: 245917

Ion	Ratio	Lower	Upper
117	100		
119	95.9	76.7	115.1
121	30.7	25.5	38.3





#39
Methylcyclohexane
Concen: 137.544 ug/l
RT: 7.373 min Scan# 1(
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

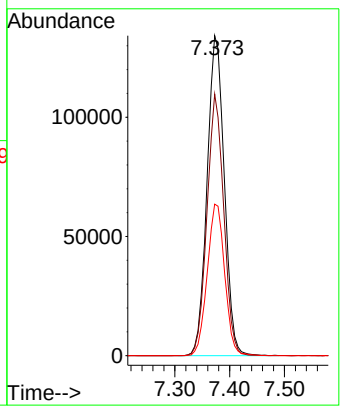
Tgt Ion: 83 Resp: 29221(

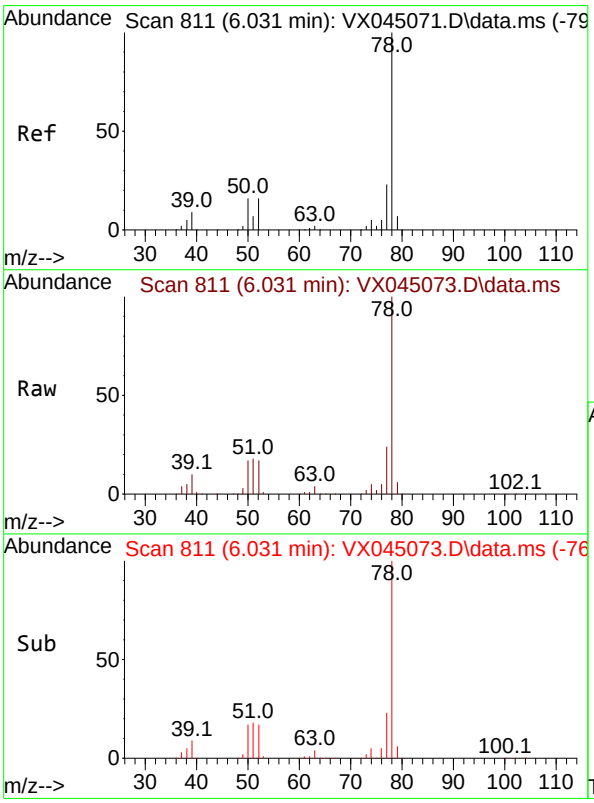
Ion	Ratio	Lower	Upper
83	100		
55	81.7	63.0	94.4
98	47.4	39.7	59.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

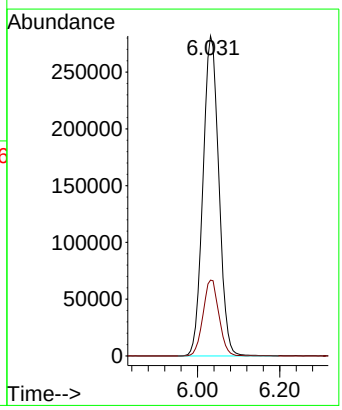


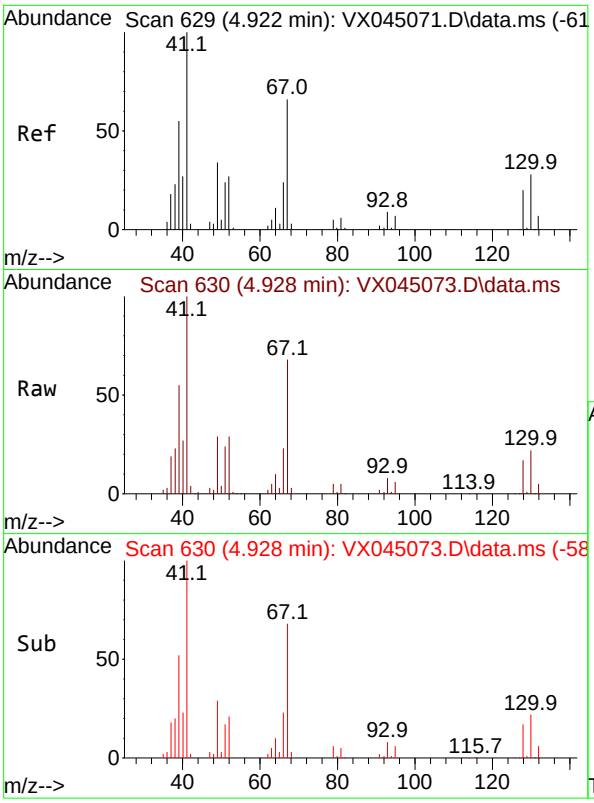


#40
Benzene
Concen: 145.368 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 78 Resp: 755854

Ion	Ratio	Lower	Upper
78	100		
77	23.7	18.8	28.2





#41
Methacrylonitrile
Concen: 173.088 ug/l
RT: 4.928 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 41 Resp: 17502

Ion	Ratio	Lower	Upper
41	100		
39	55.9	44.6	67.0
67	69.5	53.9	80.9
52	29.6	23.3	34.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
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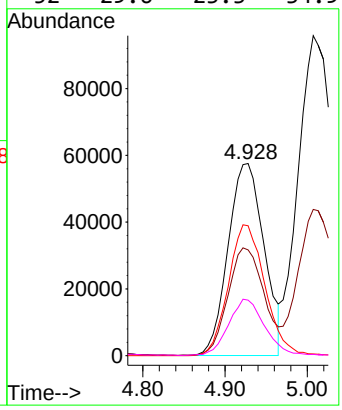
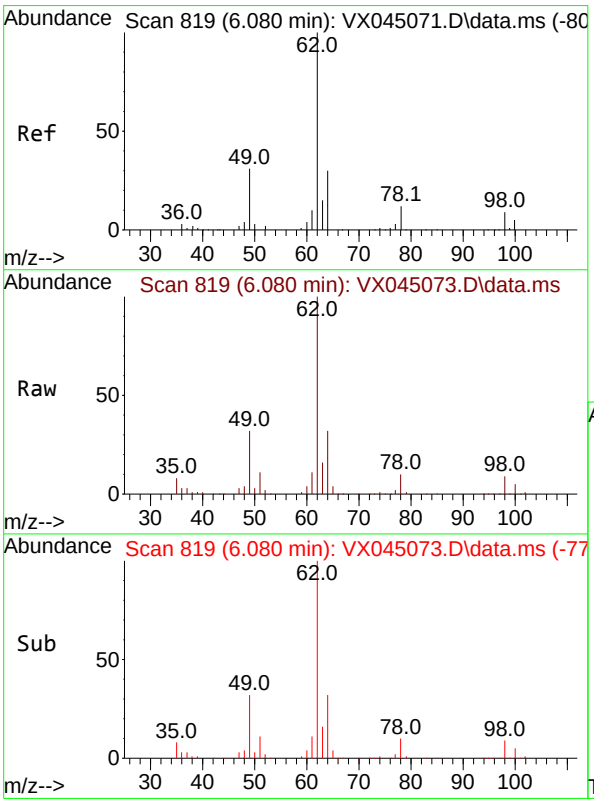
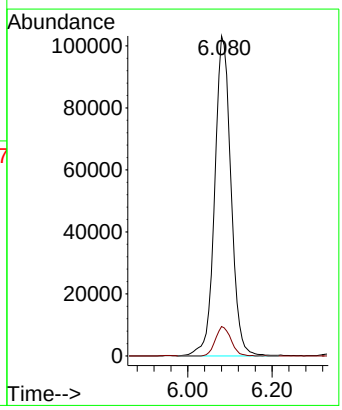


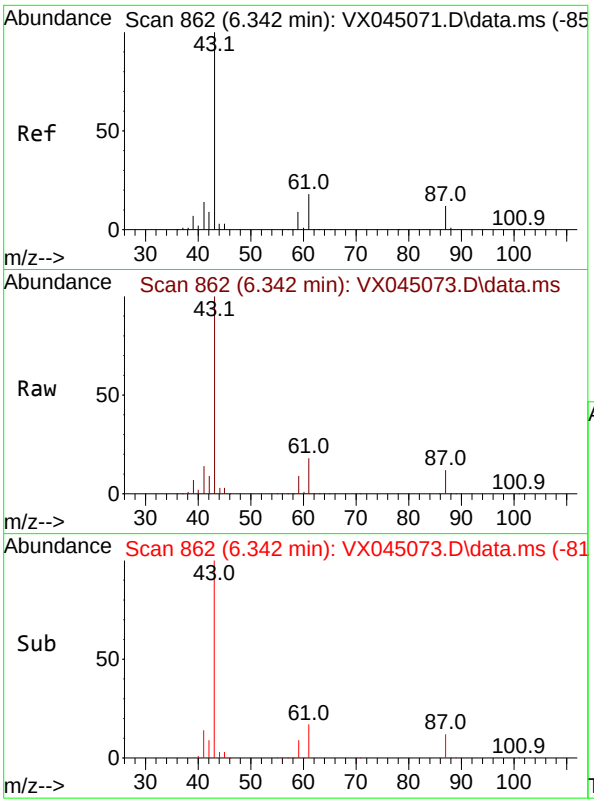


#42
1,2-Dichloroethane
Concen: 163.872 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 62 Resp: 276129

Ion	Ratio	Lower	Upper
62	100		
98	8.8	0.0	18.2





#43
Isopropyl Acetate
Concen: 169.804 ug/l
RT: 6.342 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 43 Resp: 51164

Ion	Ratio	Lower	Upper
43	100		
61	18.7	14.9	22.3
87	12.1	9.4	14.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
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Reviewed By :John Carlone 02/28/2025
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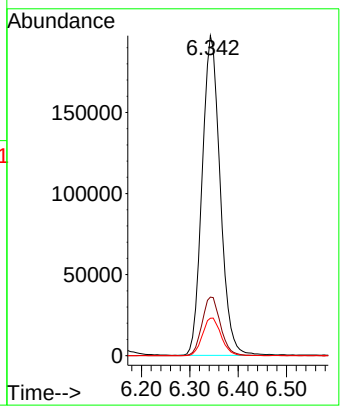
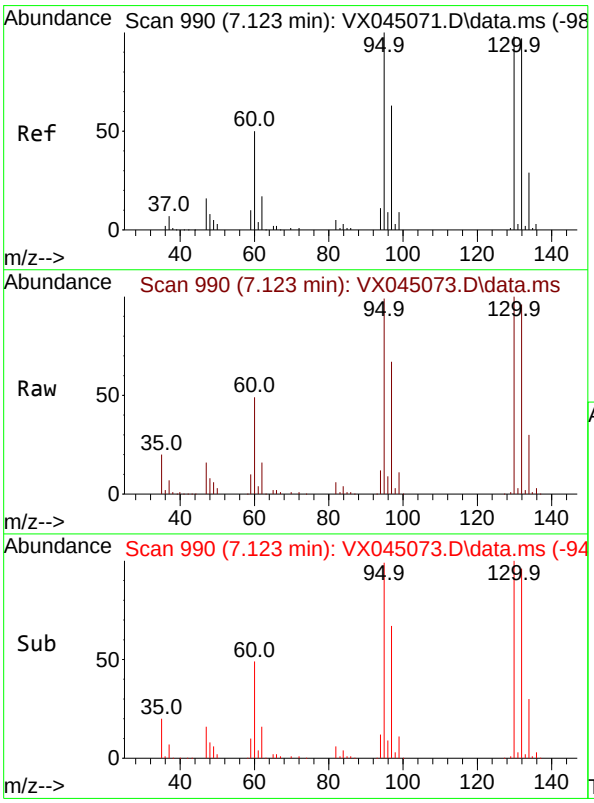
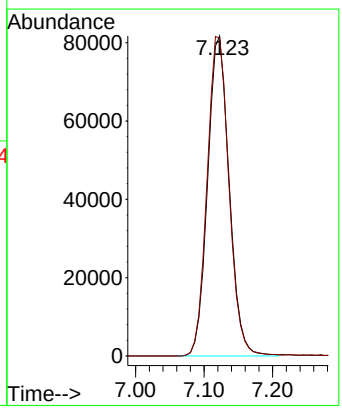


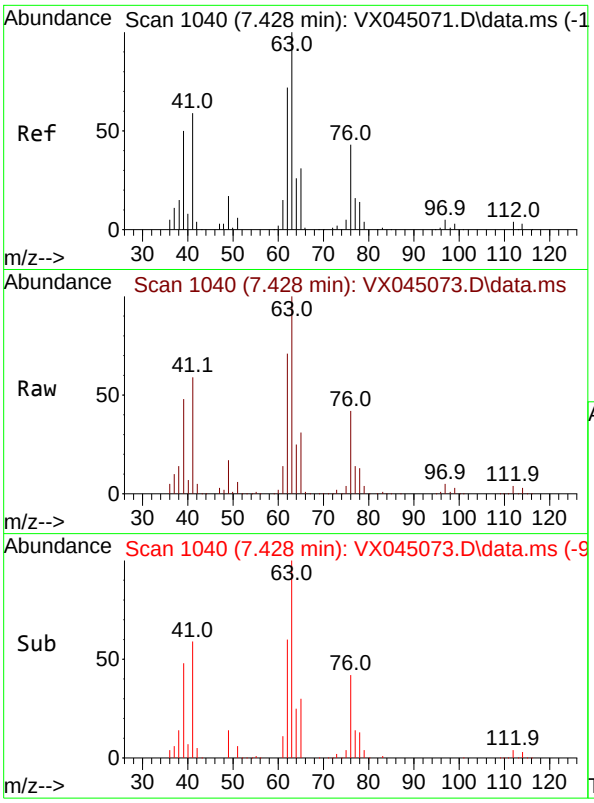


#44
Trichloroethene
Concen: 150.181 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion:130 Resp: 178483

Ion	Ratio	Lower	Upper
130	100		
95	99.3	0.0	205.0





#45
1,2-Dichloropropane
Concen: 153.334 ug/l
RT: 7.428 min Scan# 1(
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 63 Resp: 19813!

Ion	Ratio	Lower	Upper
63	100		
65	30.8	24.7	37.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
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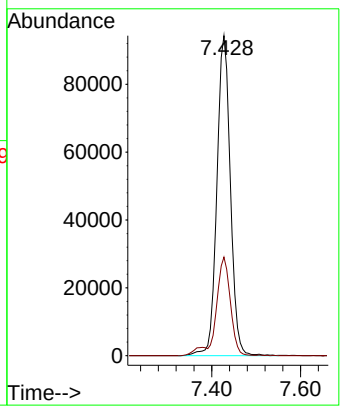
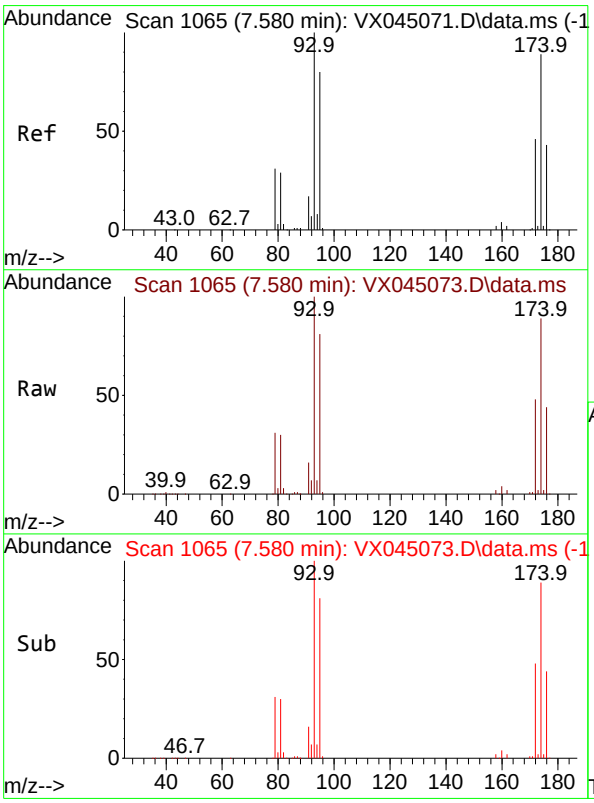
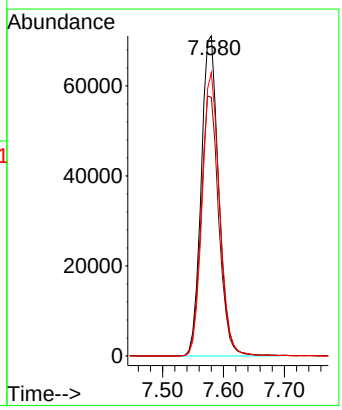


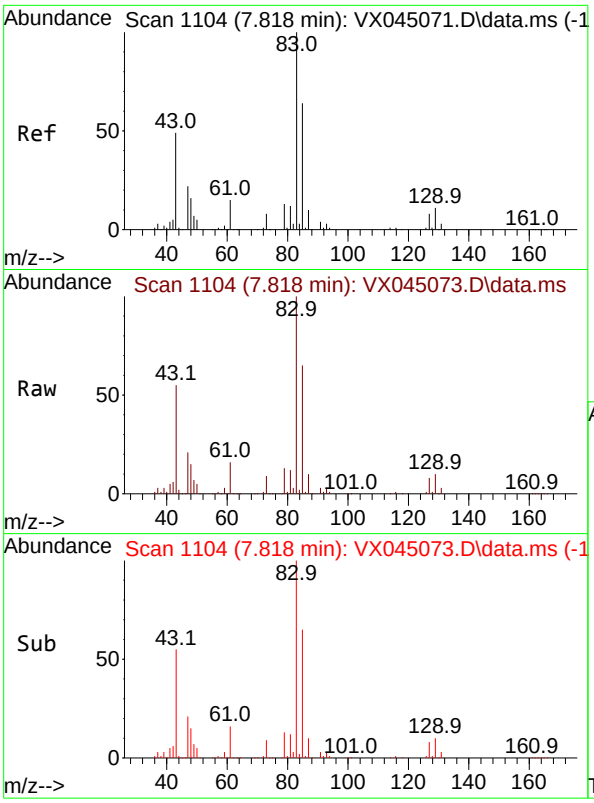


#46
Dibromomethane
Concen: 157.443 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 93 Resp: 142119

Ion	Ratio	Lower	Upper
93	100		
95	82.6	65.8	98.8
174	88.2	72.2	108.2





#47
Bromodichloromethane
Concen: 160.492 ug/l
RT: 7.818 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 83 Resp: 28025

Ion	Ratio	Lower	Upper
83	100		
85	64.9	51.1	76.7
127	7.8	6.4	9.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
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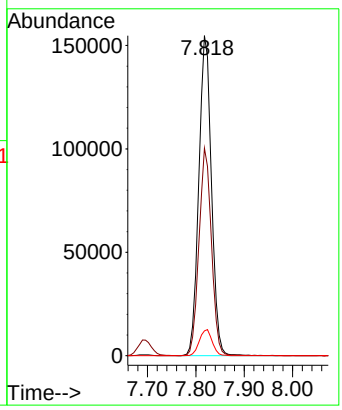
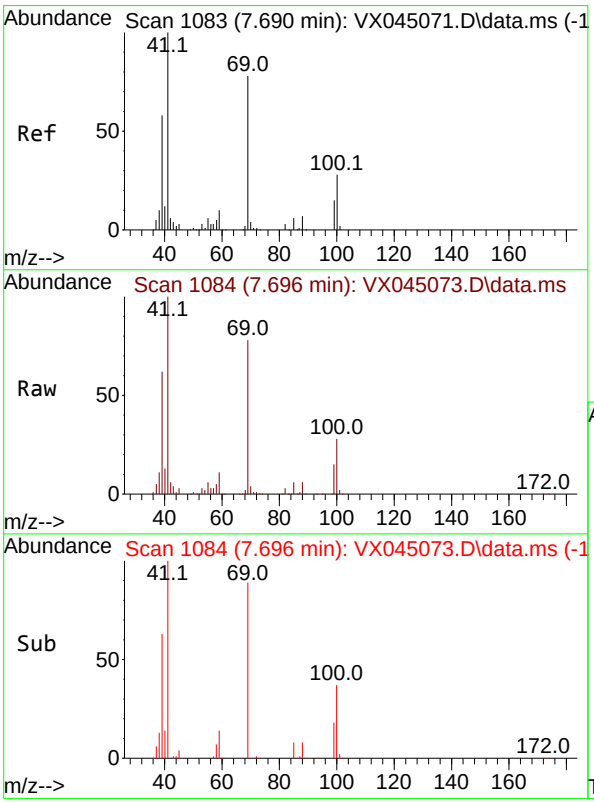
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

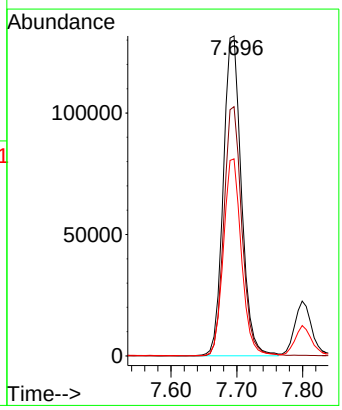


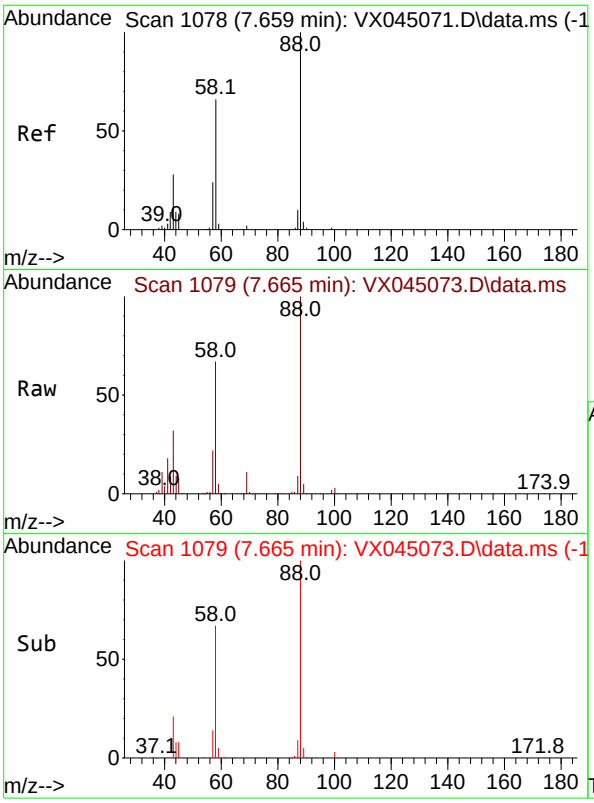


#48
Methyl methacrylate
Concen: 176.370 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. 0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 41 Resp: 252275

Ion	Ratio	Lower	Upper
41	100		
69	78.1	63.0	94.6
39	61.1	47.5	71.3





#49
1,4-Dioxane
Concen: 3166.423 ug/l
RT: 7.665 min Scan# 1(
Delta R.T. 0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 88 Resp: 9626

Ion	Ratio	Lower	Upper
88	100		
43	37.0	28.7	43.1
58	70.8	55.8	83.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
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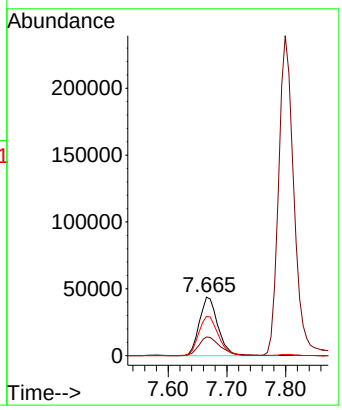
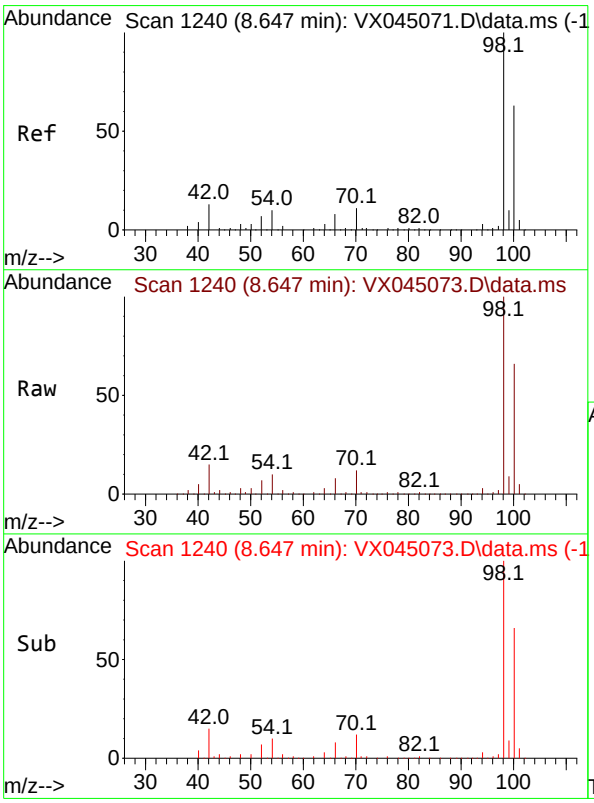
Supervised By :Mahesh Dadoda 02/28/2025

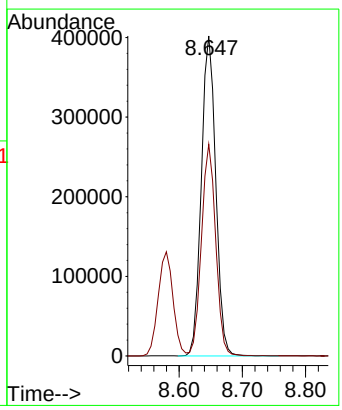


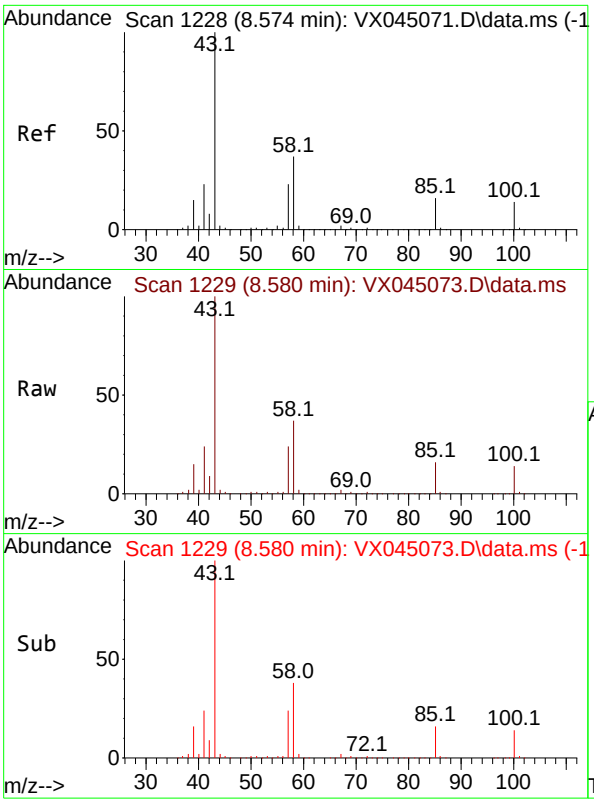


#50
Toluene-d8
Concen: 147.538 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 98 Resp: 638979

Ion	Ratio	Lower	Upper
98	100		
100	65.4	52.0	78.0





#51
4-Methyl-2-Pentanone
Concen: 832.051 ug/l
RT: 8.580 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 43 Resp: 153615

Ion	Ratio	Lower	Upper
43	100		
58	37.1	29.2	43.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
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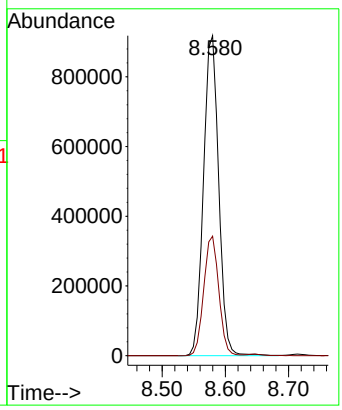
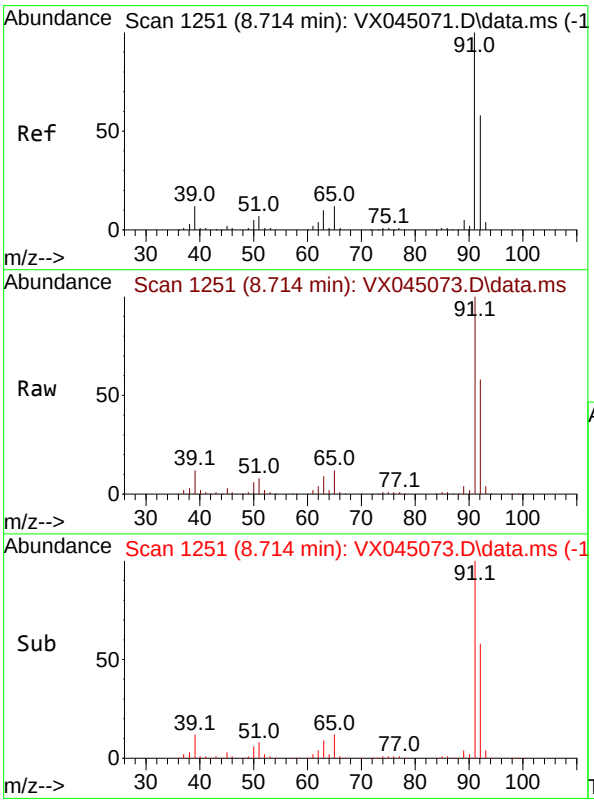
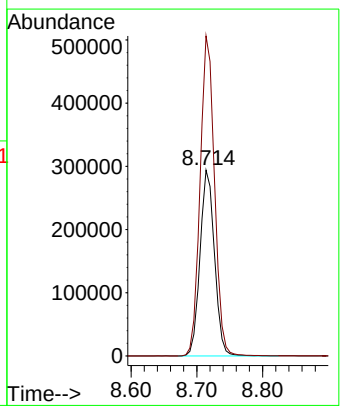


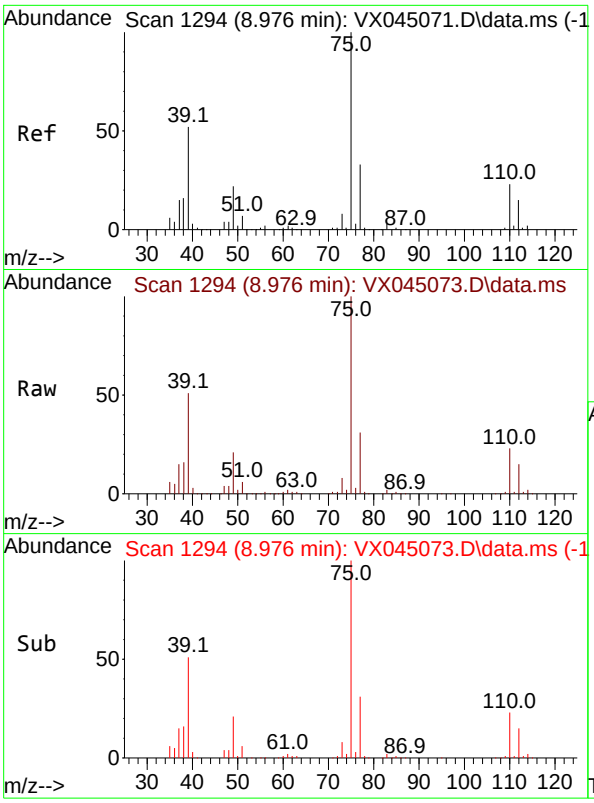


#52
Toluene
Concen: 145.321 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 92 Resp: 448664

Ion	Ratio	Lower	Upper
92	100		
91	172.3	138.9	208.3





#53
t-1,3-Dichloropropene
Concen: 154.373 ug/l
RT: 8.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 75 Resp: 26644

Ion	Ratio	Lower	Upper
75	100		
77	30.9	26.5	39.7

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
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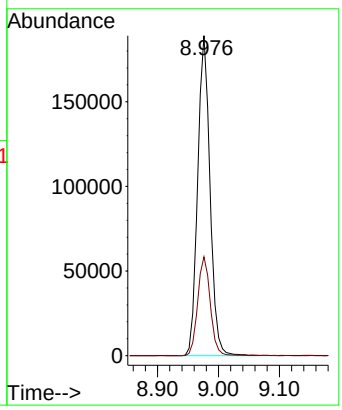
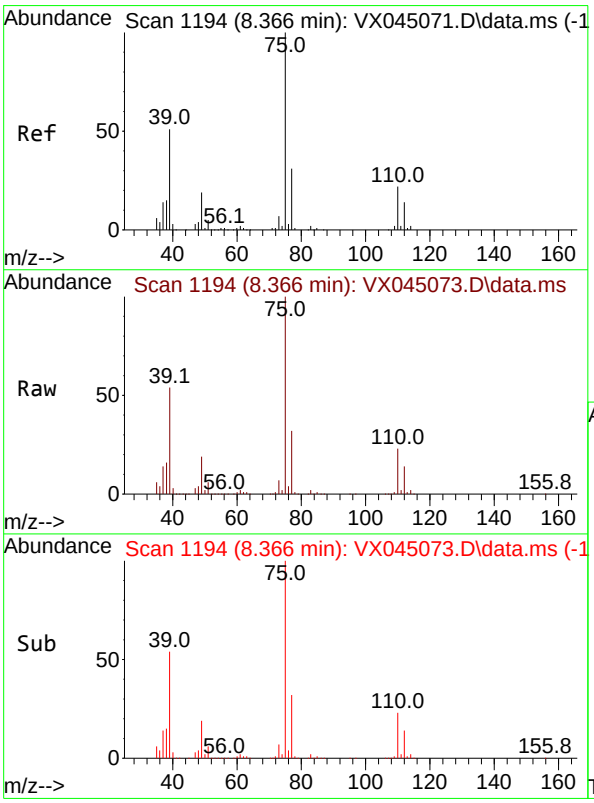
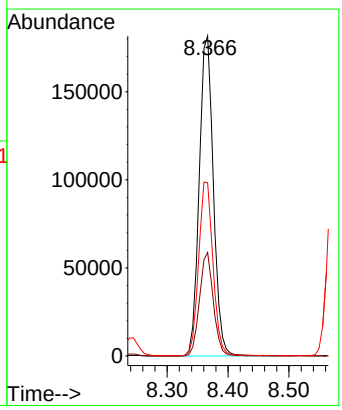


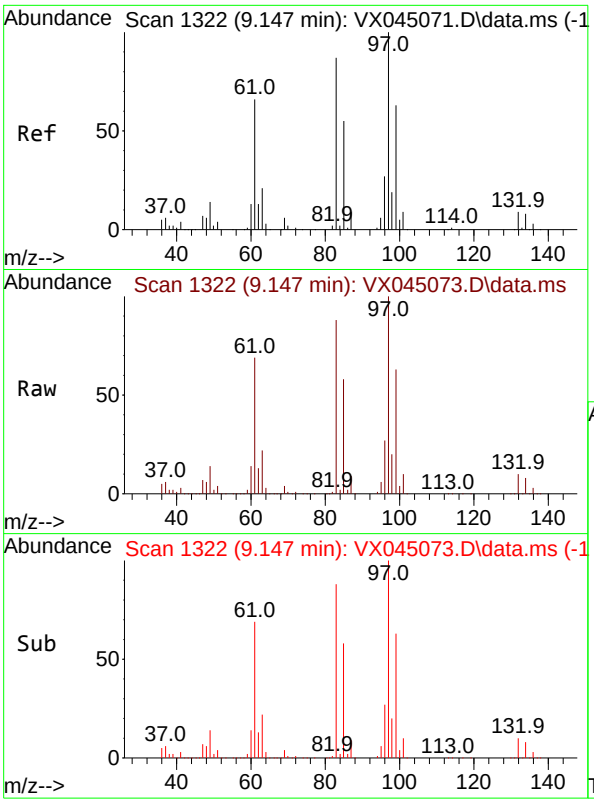


#54
cis-1,3-Dichloropropene
Concen: 152.117 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 75 Resp: 293521

Ion	Ratio	Lower	Upper
75	100		
77	32.3	24.7	37.1
39	54.0	40.7	61.1

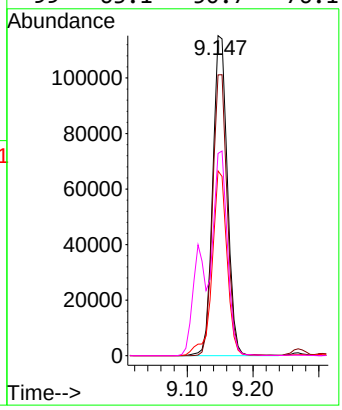




#55
1,1,2-Trichloroethane
Concen: 149.046 ug/l
RT: 9.147 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 97 Resp: 17821

Ion	Ratio	Lower	Upper
97	100		
83	87.8	69.4	104.2
85	57.8	44.1	66.1
99	63.1	50.7	76.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

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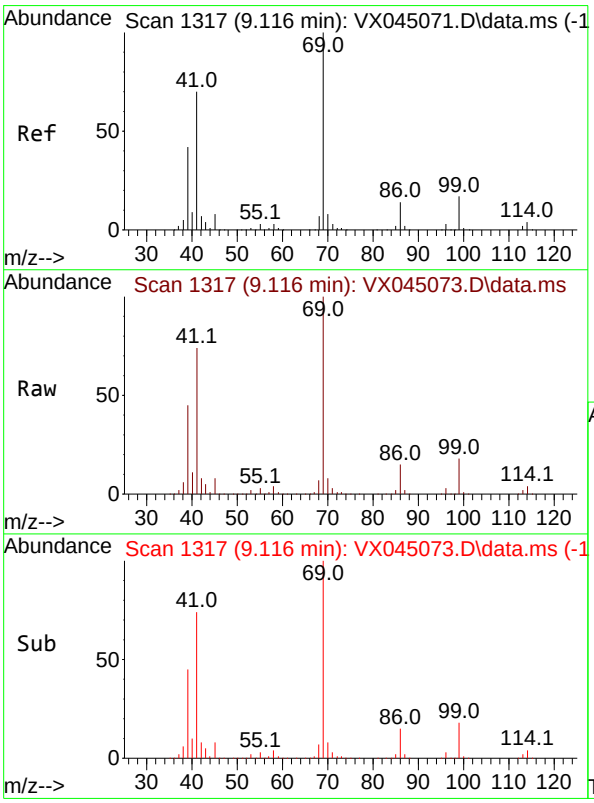
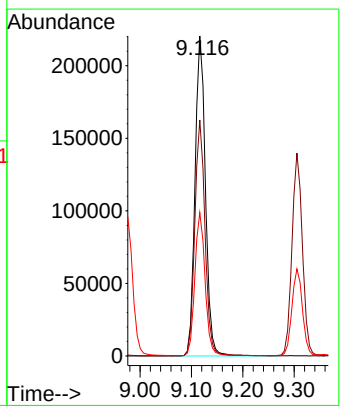
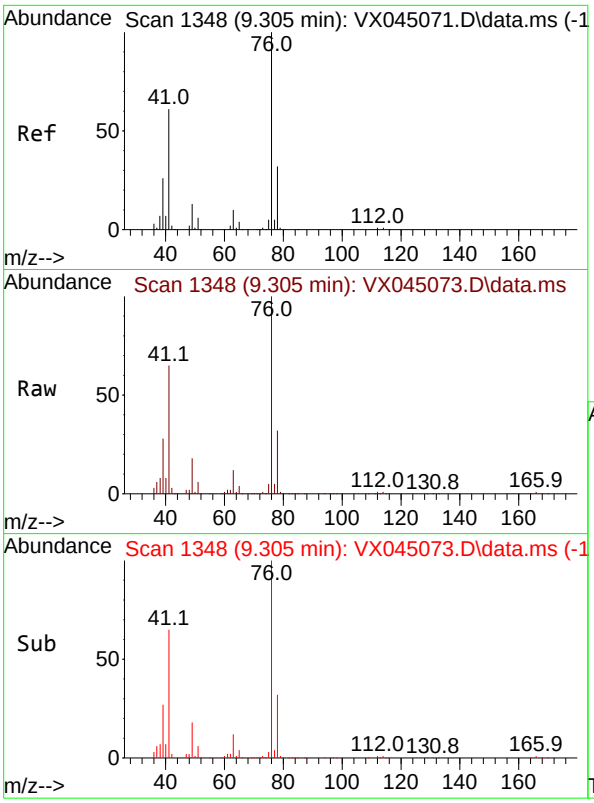


#56
Ethyl methacrylate
Concen: 162.631 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 69 Resp: 310992

Ion	Ratio	Lower	Upper
69	100		
41	72.6	57.0	85.4
39	44.2	34.2	51.4





#57
1,3-Dichloropropane
Concen: 149.699 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 76 Resp: 31219

Ion	Ratio	Lower	Upper
76	100		
78	32.0	25.5	38.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

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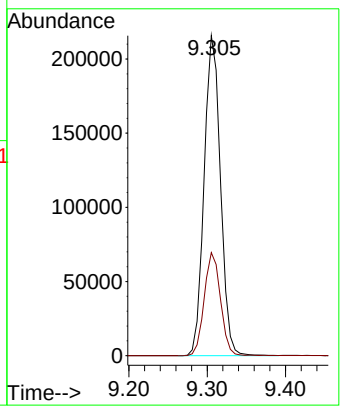
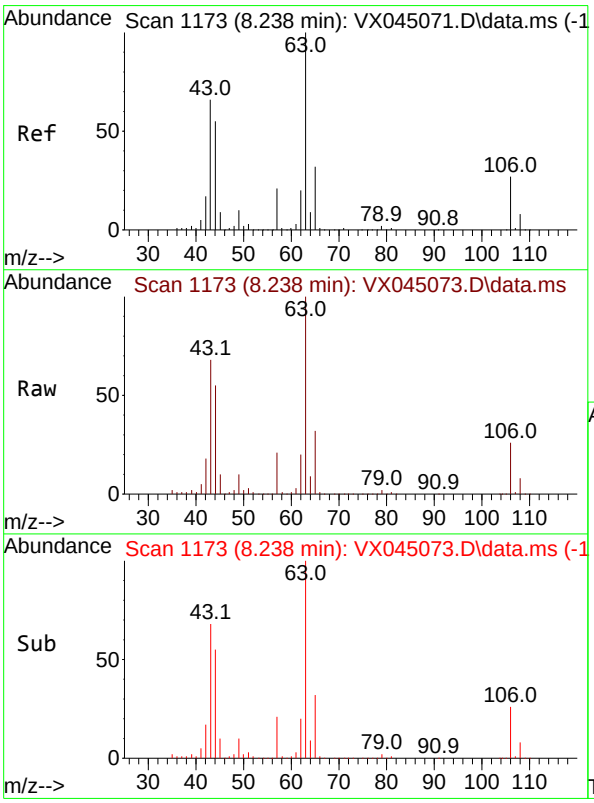
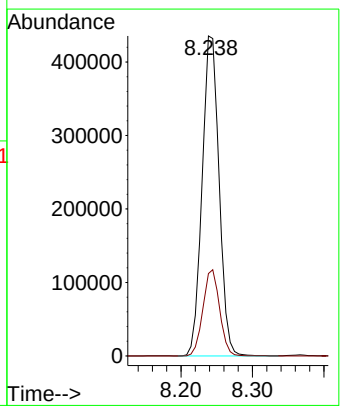


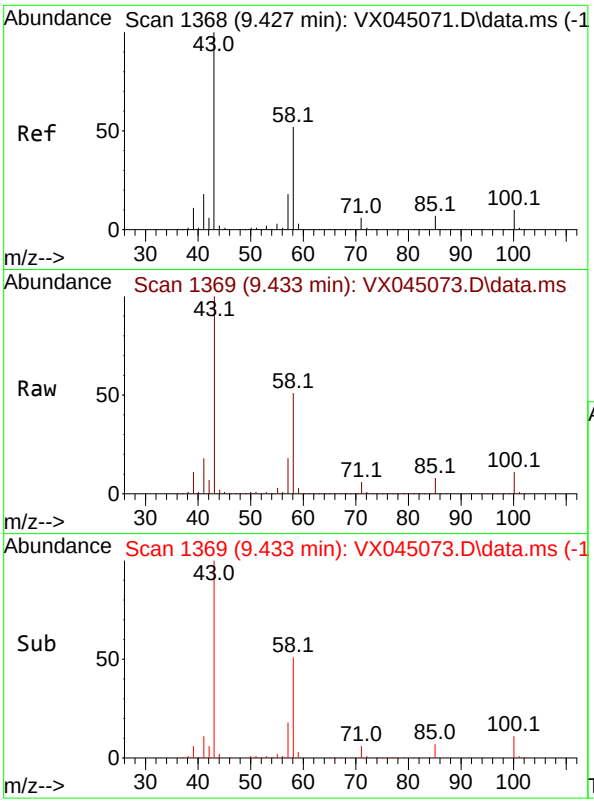


#58
2-Chloroethyl Vinyl ether
Concen: 764.019 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 63 Resp: 717328

Ion	Ratio	Lower	Upper
63	100		
106	26.5	21.5	32.3





#59
2-Hexanone
Concen: 868.492 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 43 Resp: 115665

Ion	Ratio	Lower	Upper
43	100		
58	51.6	25.9	77.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
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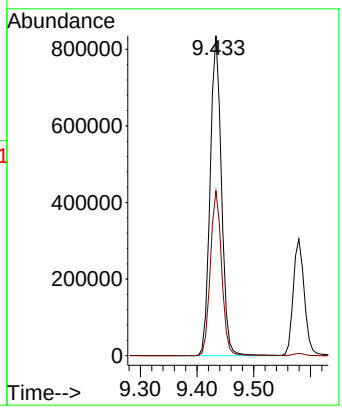
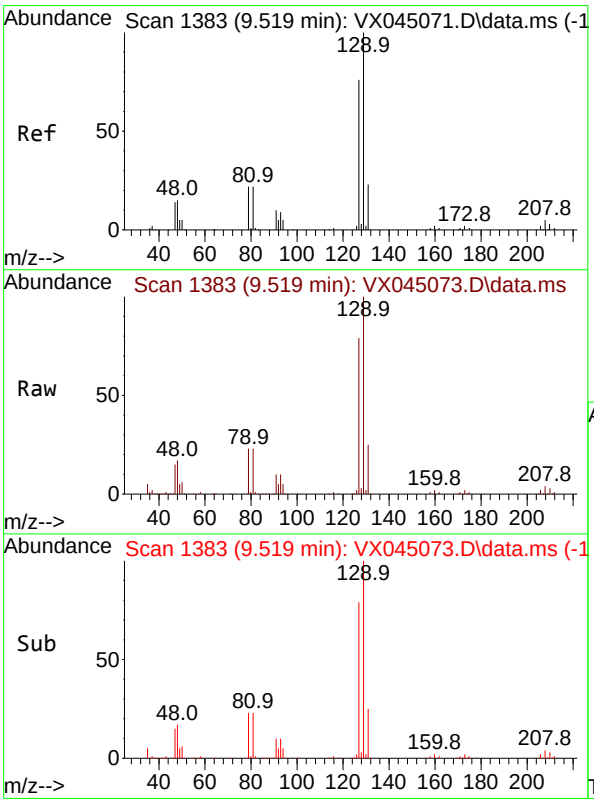
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

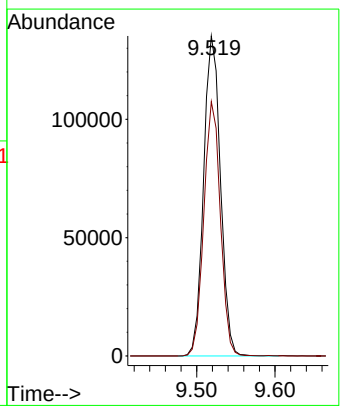


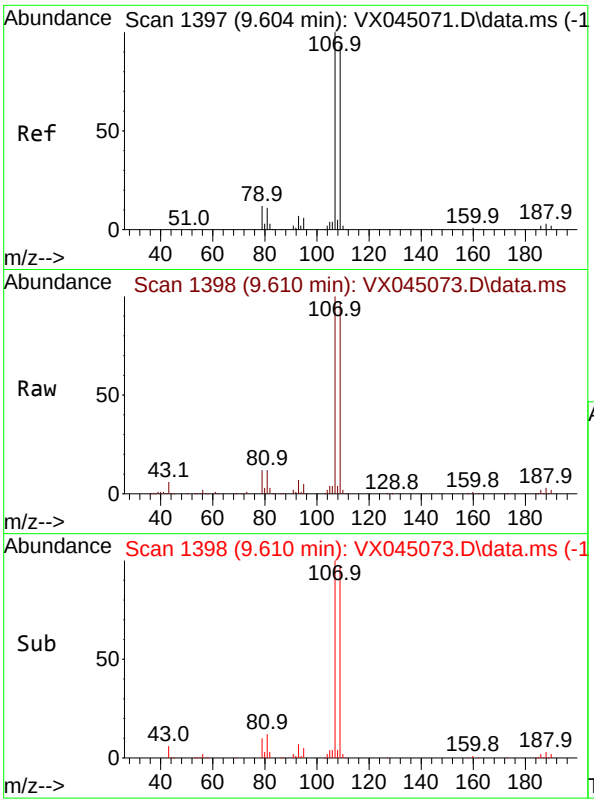


#60
Dibromochloromethane
Concen: 158.276 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion:129 Resp: 201906

Ion	Ratio	Lower	Upper
129	100		
127	77.9	38.5	115.5





#61
1,2-Dibromoethane
Concen: 154.074 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion:107 Resp: 18582

Ion	Ratio	Lower	Upper
107	100		
109	95.2	76.1	114.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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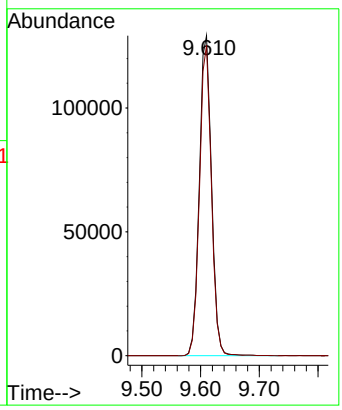
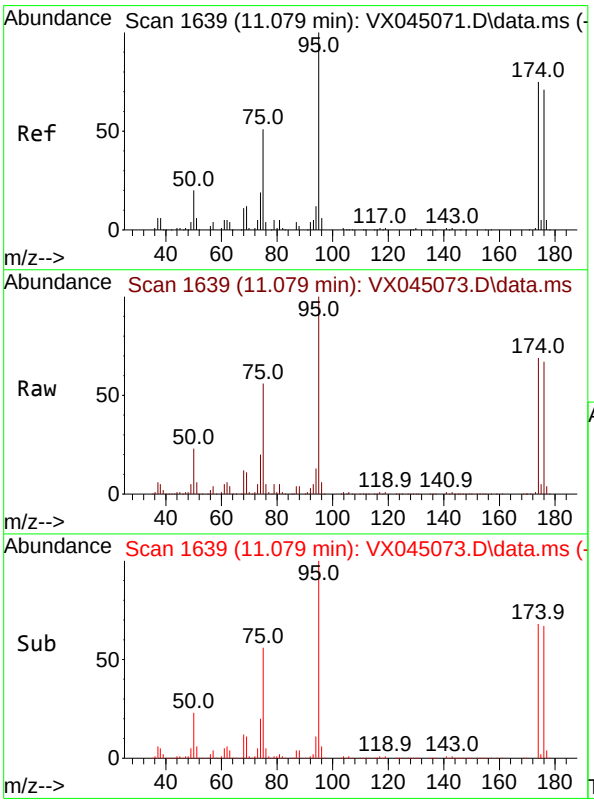
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

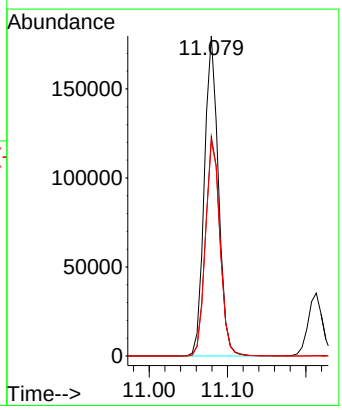


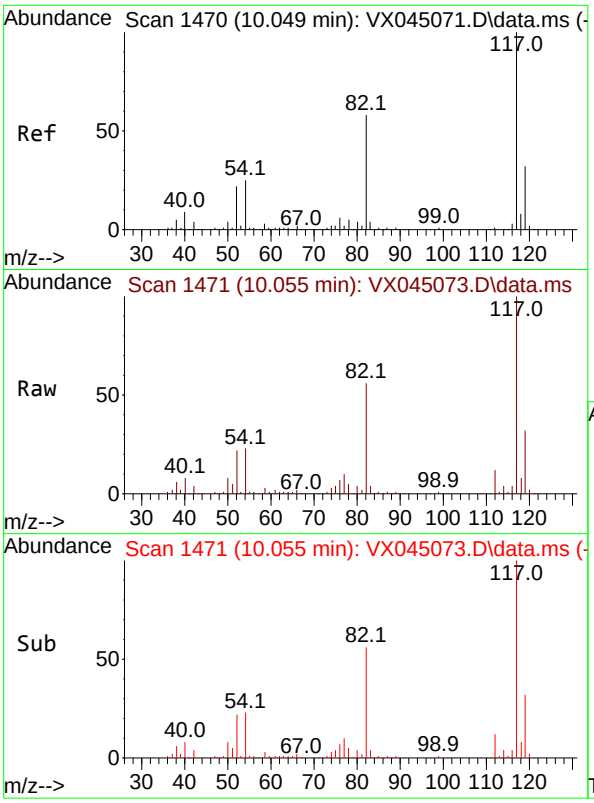


#62
4-Bromofluorobenzene
Concen: 154.420 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 95 Resp: 223346

Ion	Ratio	Lower	Upper
95	100		
174	70.4	0.0	148.2
176	69.4	0.0	141.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion:117 Resp: 15054

Ion	Ratio	Lower	Upper
117	100		
82	56.4	46.3	69.5
119	32.1	25.7	38.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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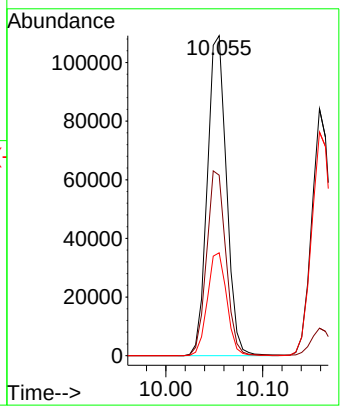
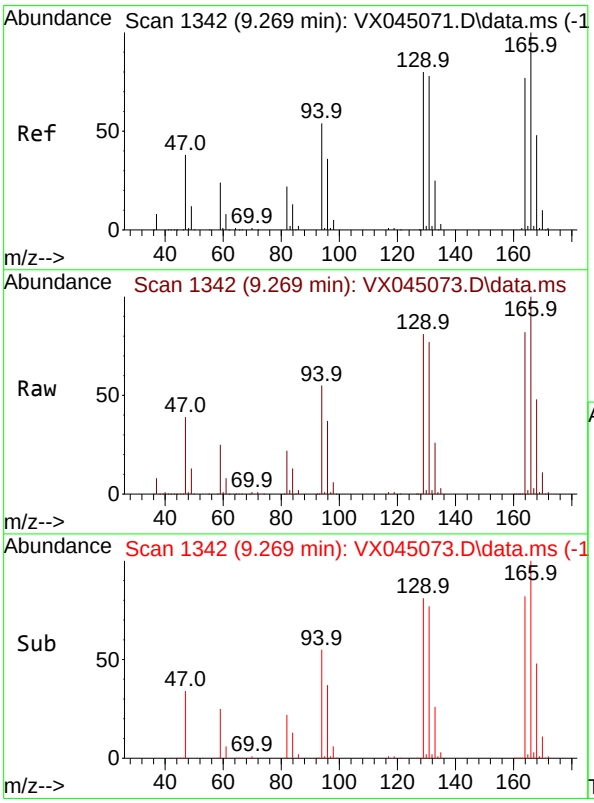
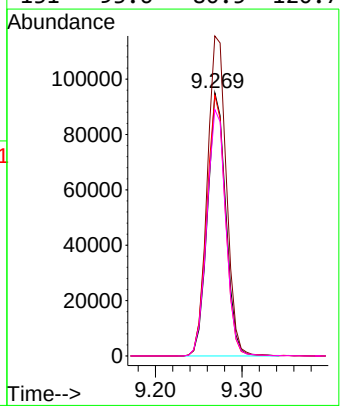


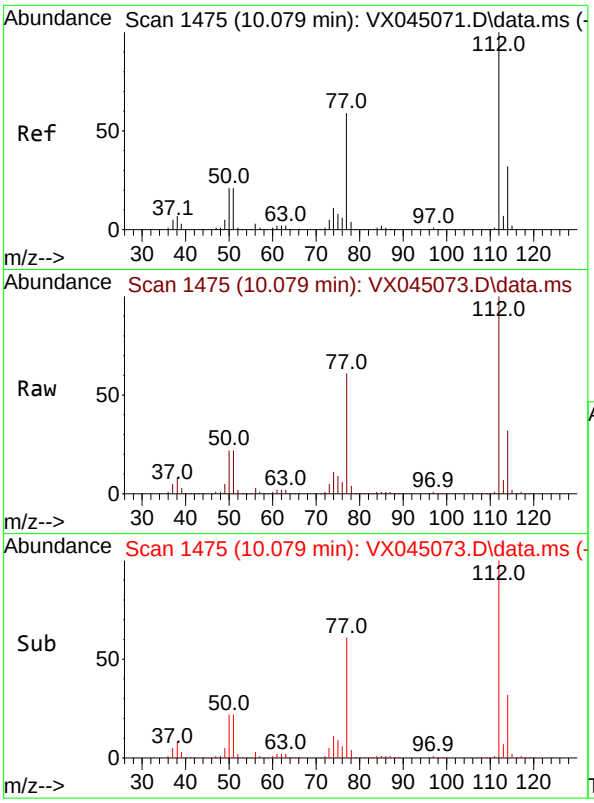


#64
Tetrachloroethene
Concen: 145.906 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion:164 Resp: 139536

Ion	Ratio	Lower	Upper
164	100		
166	121.6	103.6	155.4
129	99.0	82.7	124.1
131	93.6	80.5	120.7





#65
Chlorobenzene
Concen: 146.096 ug/l
RT: 10.079 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion:112 Resp: 47211

Ion	Ratio	Lower	Upper
112	100		
114	31.9	26.0	39.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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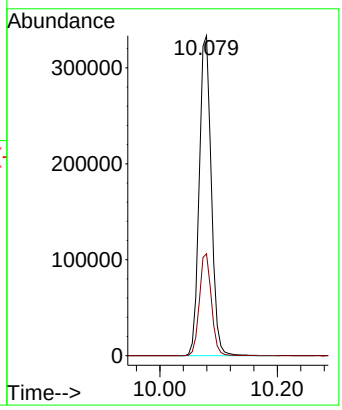
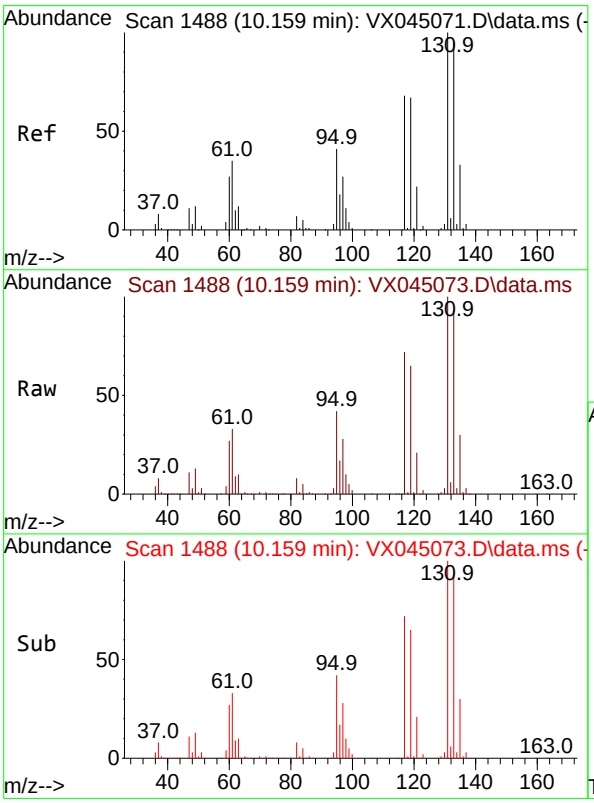
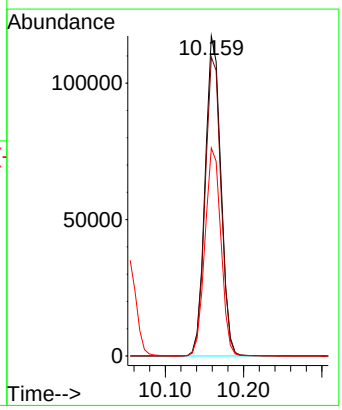


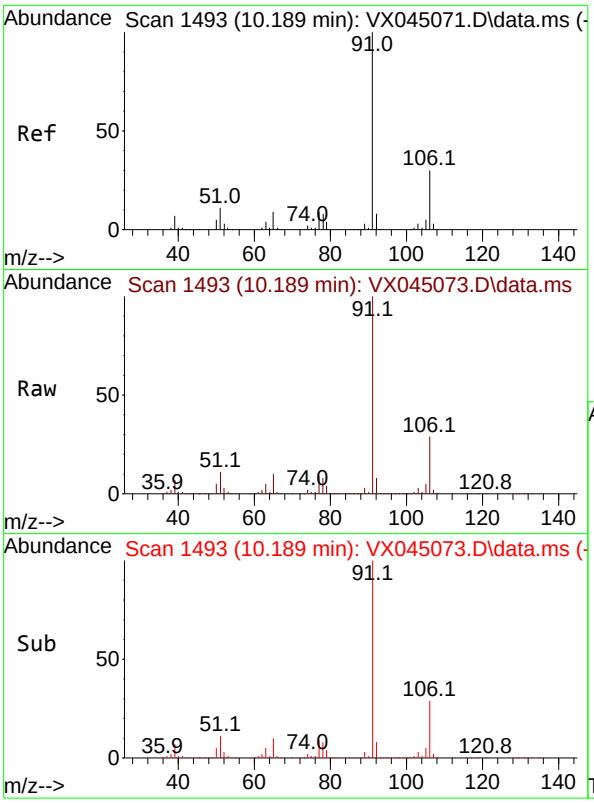


#66
1,1,1,2-Tetrachloroethane
Concen: 156.845 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion:131 Resp: 163370

Ion	Ratio	Lower	Upper
131	100		
133	94.2	48.6	145.9
119	66.0	33.9	101.7





#67
Ethyl Benzene
Concen: 149.191 ug/l
RT: 10.189 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 91 Resp: 85257

Ion	Ratio	Lower	Upper
91	100		
106	29.5	23.9	35.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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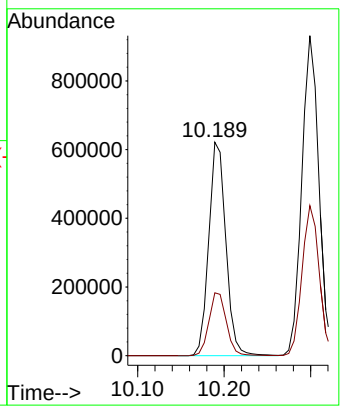
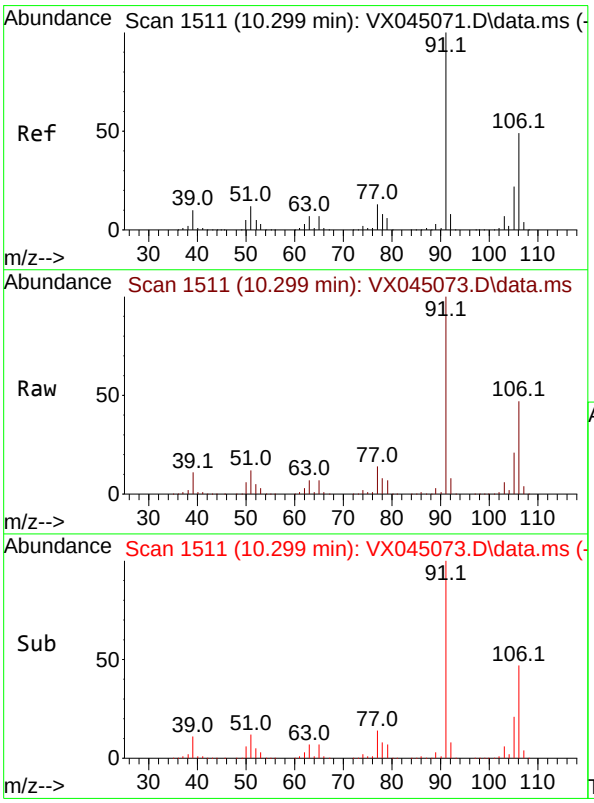
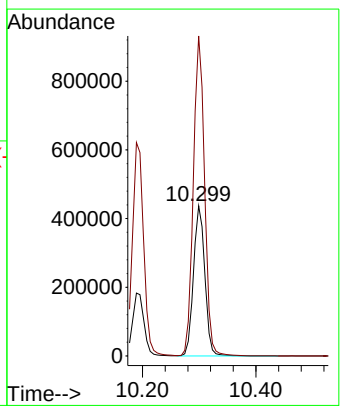


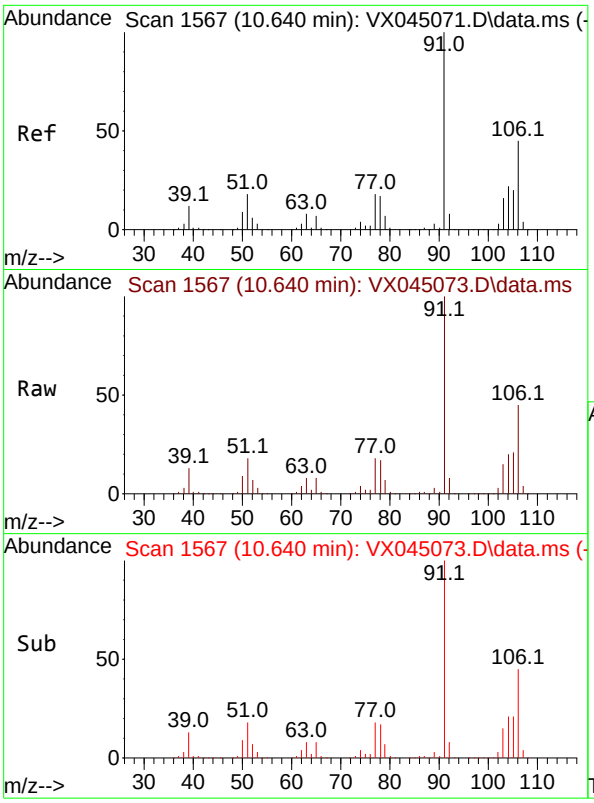


#68
m/p-Xylenes
Concen: 288.655 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion:106 Resp: 607523

Ion	Ratio	Lower	Upper
106	100		
91	211.2	165.4	248.0





#69
o-Xylene
Concen: 143.259 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion:106 Resp: 30249

Ion	Ratio	Lower	Upper
106	100		
91	221.3	109.9	329.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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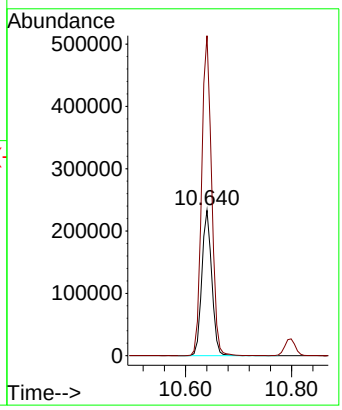
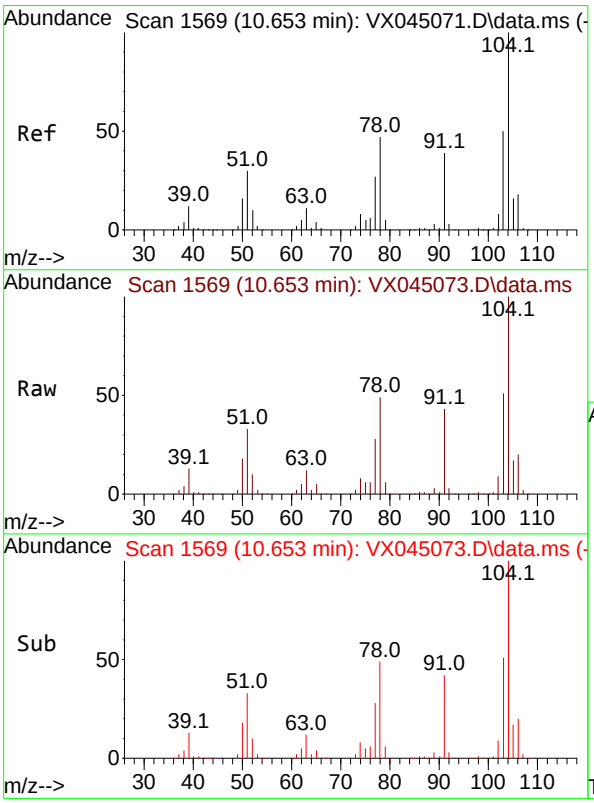
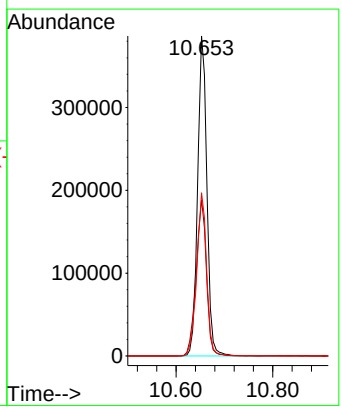


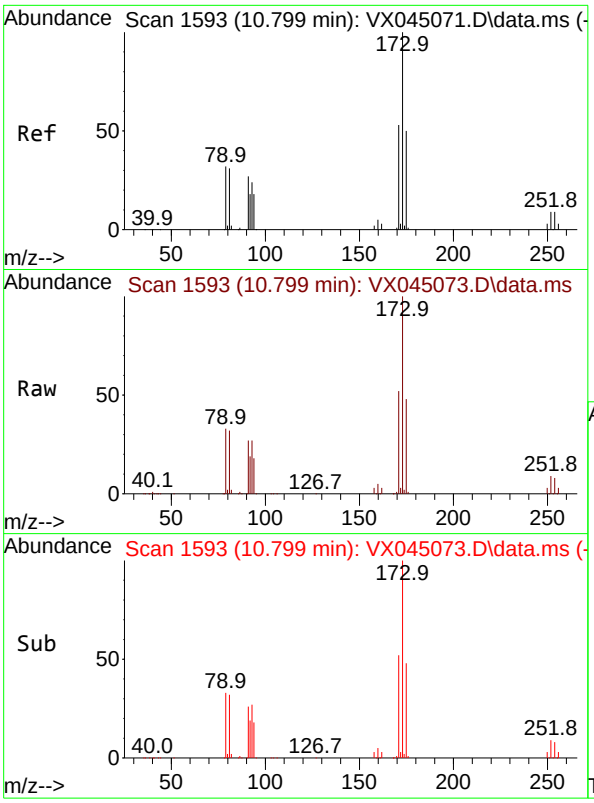


#70
Styrene
Concen: 150.979 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion:104 Resp: 512379

Ion	Ratio	Lower	Upper
104	100		
78	54.4	42.2	63.4
103	54.8	43.8	65.8





#71
Bromoform
Concen: 174.808 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion:173 Resp: 13538

Ion	Ratio	Lower	Upper
173	100		
175	48.3	24.6	73.6
254	0.1	0.0	0.0#

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
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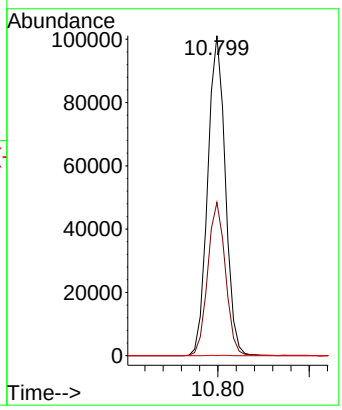
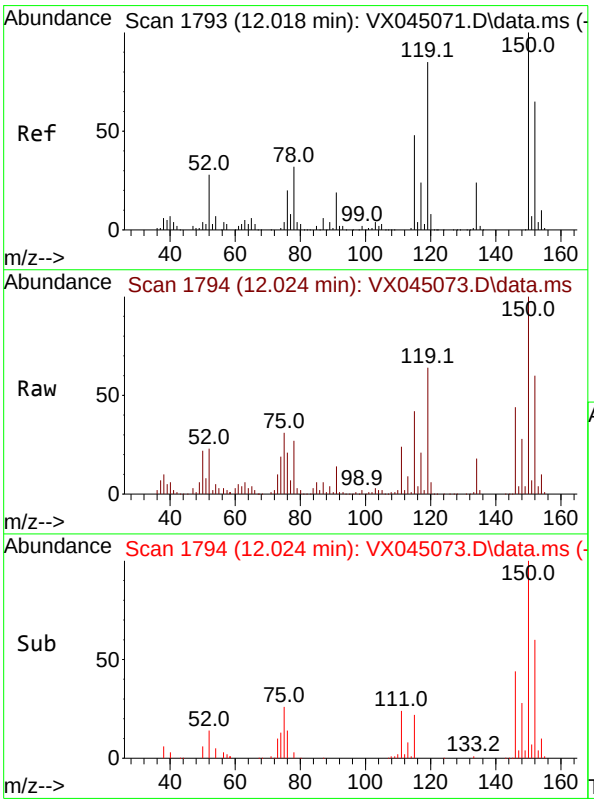
Supervised By :Mahesh Dadoda 02/28/2025

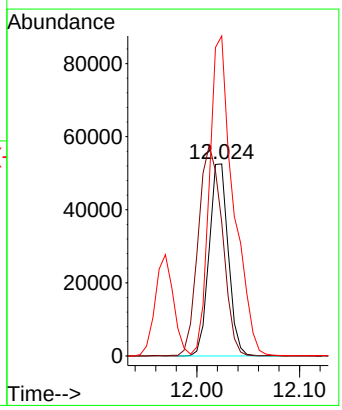


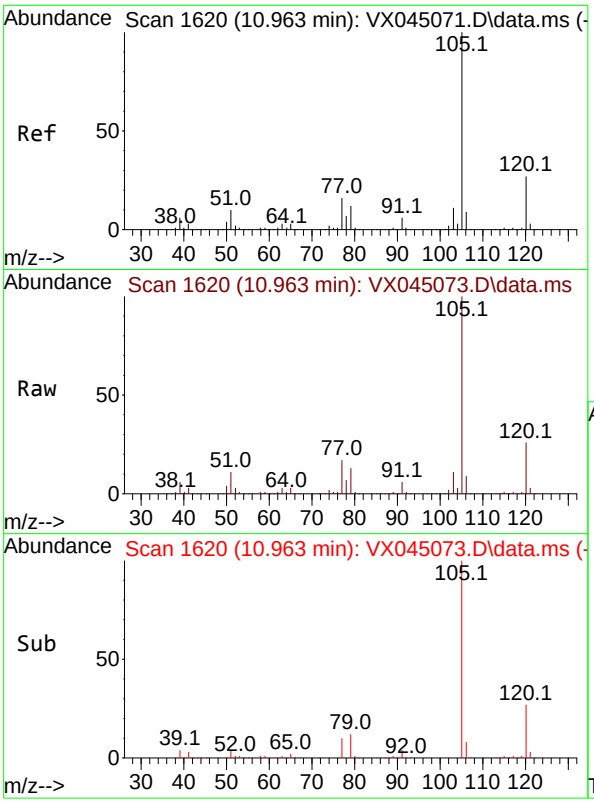


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion:152 Resp: 67685

Ion	Ratio	Lower	Upper
152	100		
115	138.4	44.2	132.6#
150	208.8	0.0	349.0





#73
Isopropylbenzene
Concen: 142.719 ug/l
RT: 10.963 min Scan# 1(
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion:105 Resp: 78070(

Ion	Ratio	Lower	Upper
105	100		
120	26.0	13.2	39.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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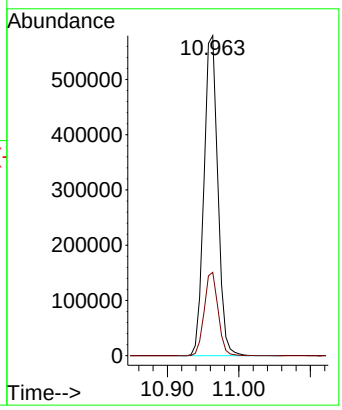
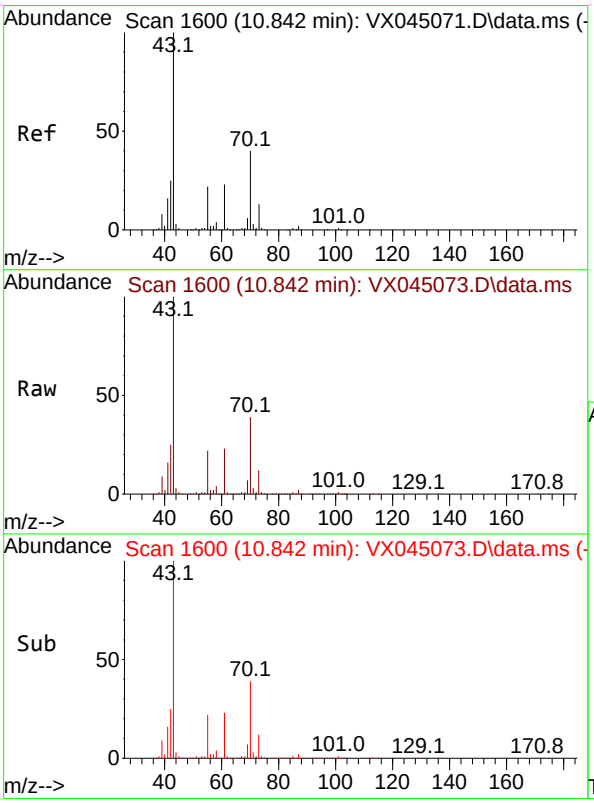
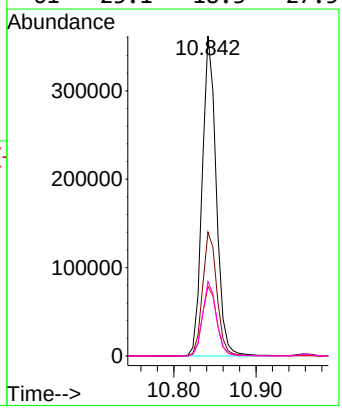


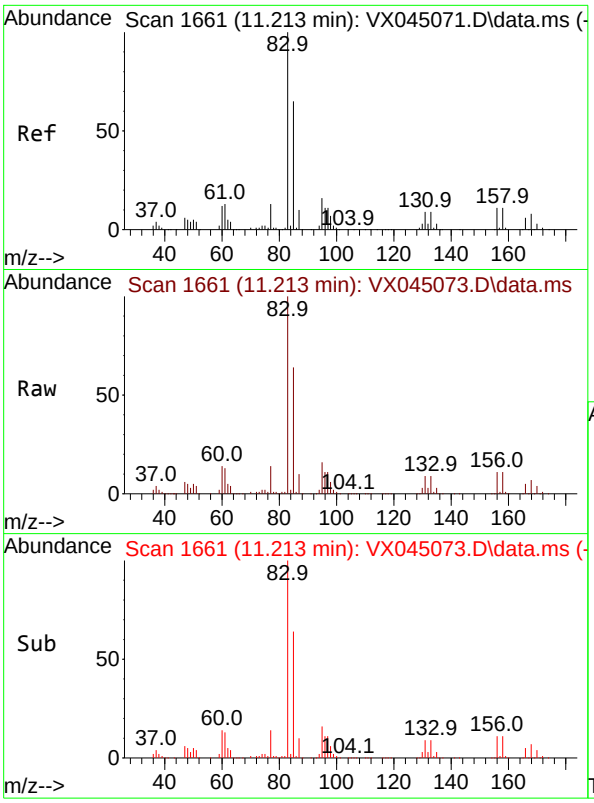


#74
N-amyl acetate
Concen: 173.042 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 43 Resp: 429686

Ion	Ratio	Lower	Upper
43	100		
70	39.6	31.8	47.6
55	22.5	18.3	27.5
61	23.1	18.3	27.5





#75
1,1,2,2-Tetrachloroethane
Concen: 150.458 ug/l
RT: 11.213 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 83 Resp: 28355

Ion	Ratio	Lower	Upper
83	100		
131	9.3	4.5	13.4
85	63.8	31.7	95.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
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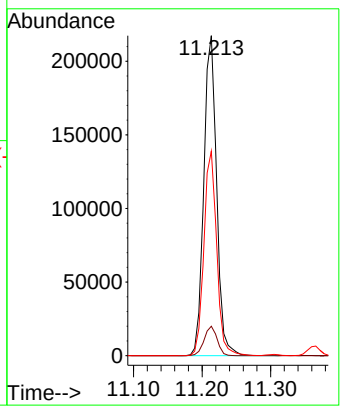
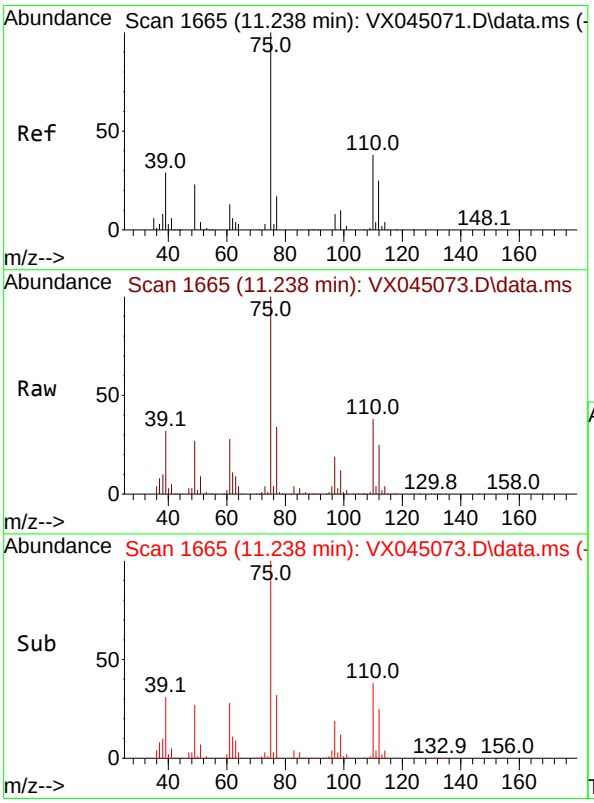
Supervised By :Mahesh Dadoda 02/28/2025

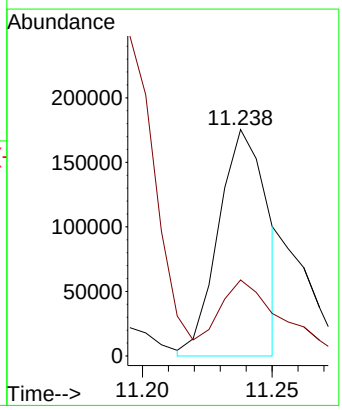


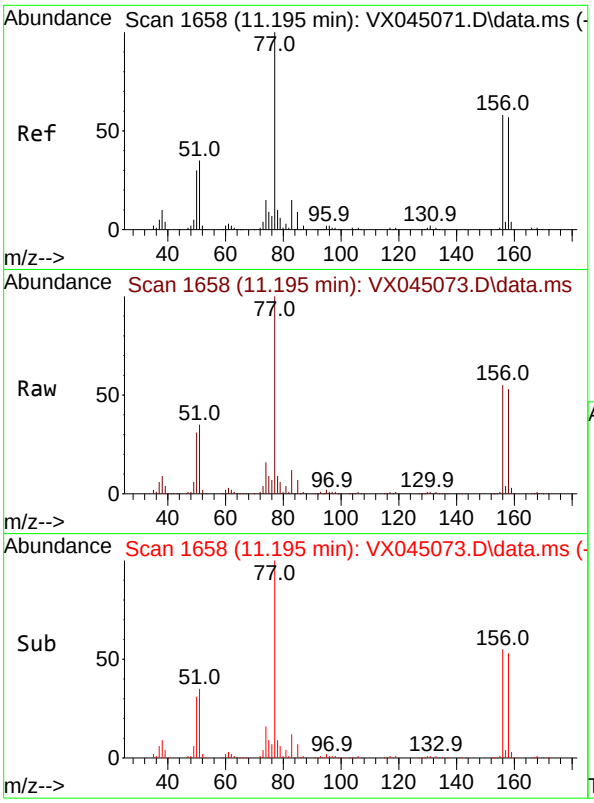


#76
1,2,3-Trichloropropane
Concen: 151.960 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 75 Resp: 229435

Ion	Ratio	Lower	Upper
75	100		
77	43.2	20.7	62.1





#77
Bromobenzene
Concen: 145.760 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion:156 Resp: 18099

Ion	Ratio	Lower	Upper
156	100		
77	179.4	85.8	257.4
158	97.1	48.4	145.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
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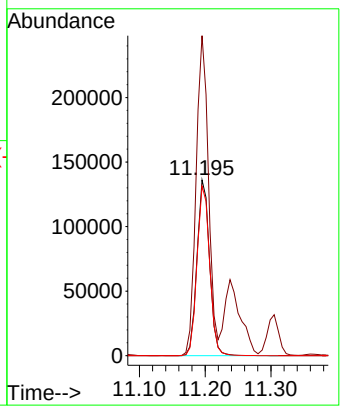
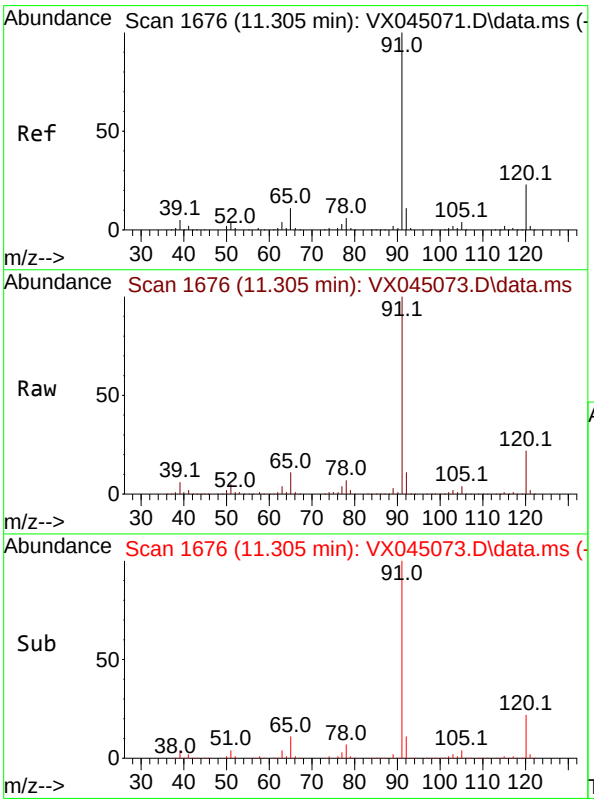
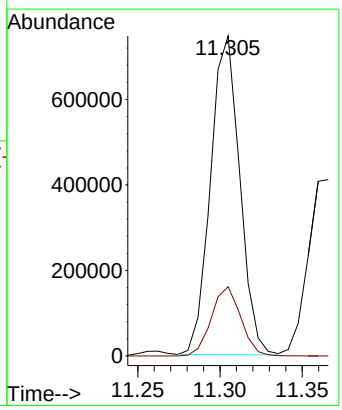


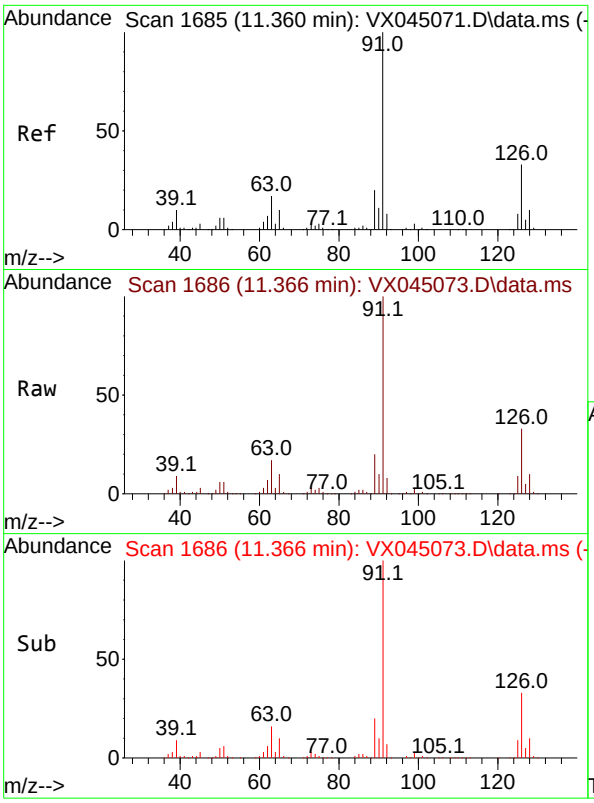


#78
n-propylbenzene
Concen: 146.395 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 91 Resp: 923593

Ion	Ratio	Lower	Upper
91	100		
120	21.8	11.2	33.6





#79
2-Chlorotoluene
Concen: 141.695 ug/l
RT: 11.366 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

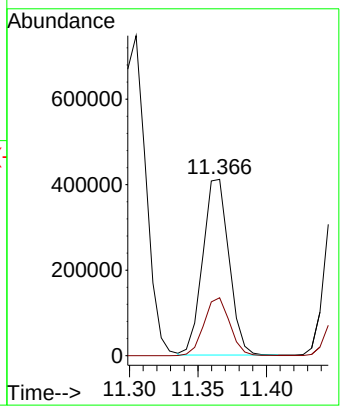
Tgt Ion: 91 Resp: 54869

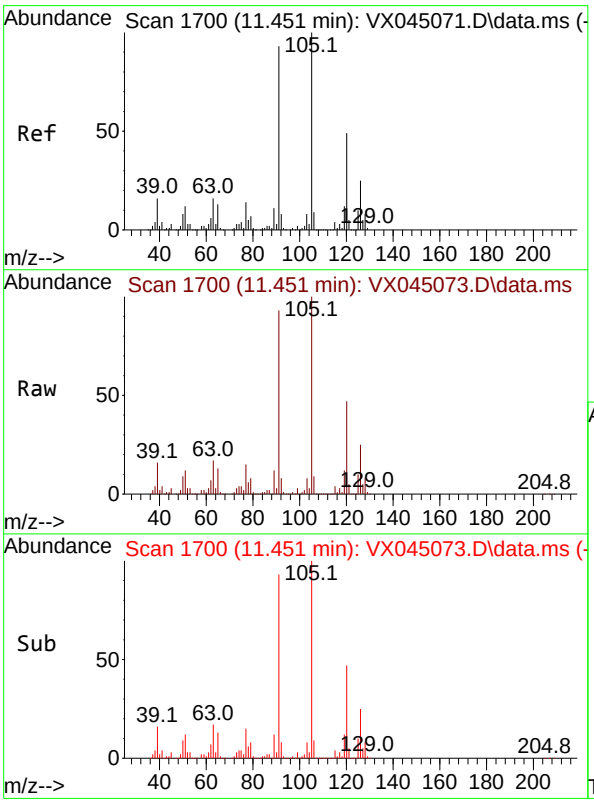
Ion	Ratio	Lower	Upper
91	100		
126	32.4	16.4	49.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

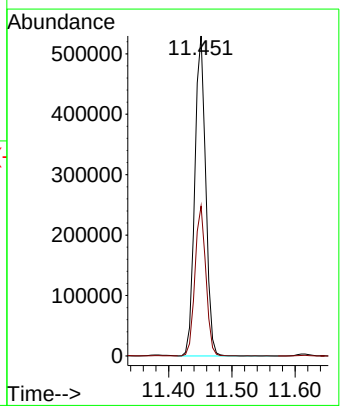


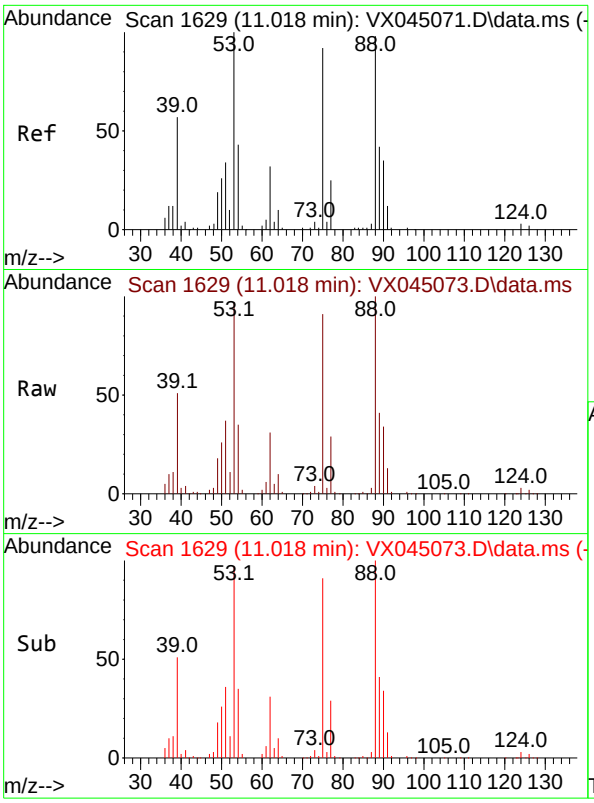


#80
1,3,5-Trimethylbenzene
Concen: 143.293 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion:105 Resp: 635832

Ion	Ratio	Lower	Upper
105	100		
120	46.7	24.1	72.2





#81
trans-1,4-Dichloro-2-butene
Concen: 147.761 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

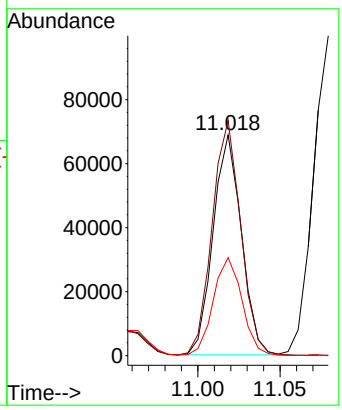
Tgt Ion: 75 Resp: 8226

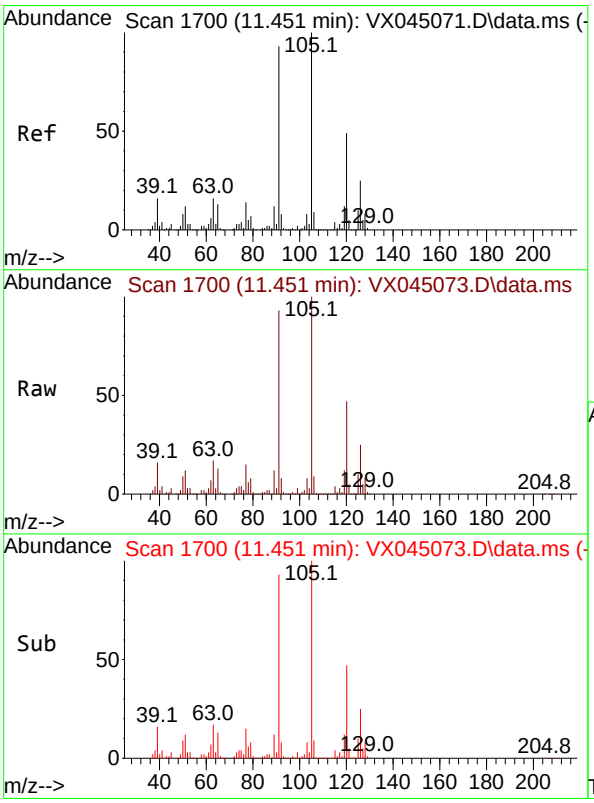
Ion	Ratio	Lower	Upper
75	100		
53	107.7	88.5	132.7
89	45.2	36.2	54.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

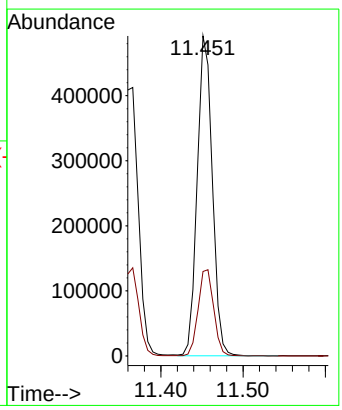


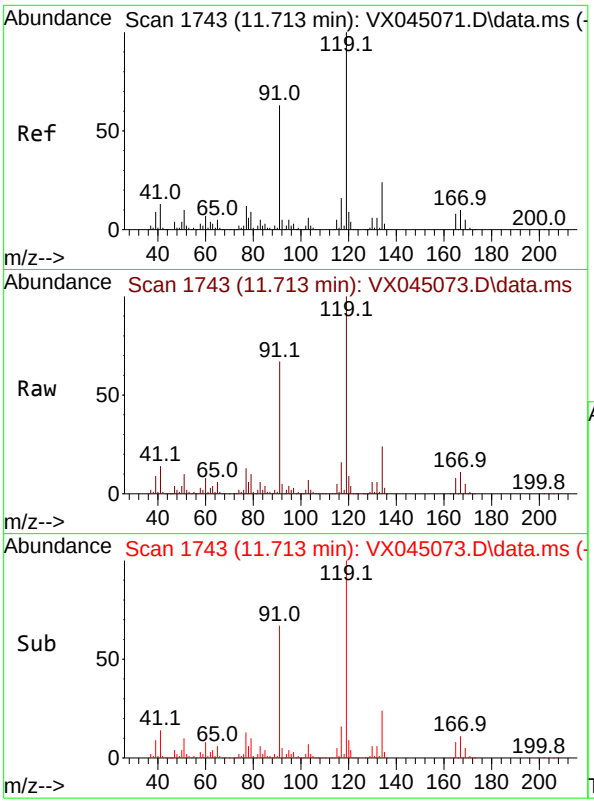


#82
4-Chlorotoluene
Concen: 146.464 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 91 Resp: 627816

Ion	Ratio	Lower	Upper
91	100		
126	27.8	14.1	42.4





#83
tert-Butylbenzene
Concen: 142.974 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

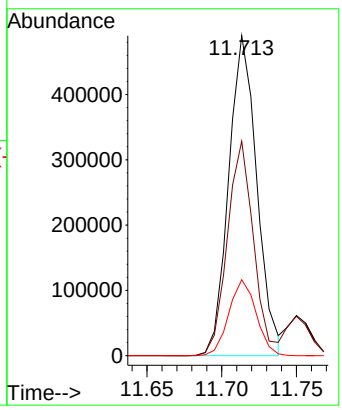
Tgt Ion:119 Resp: 64171

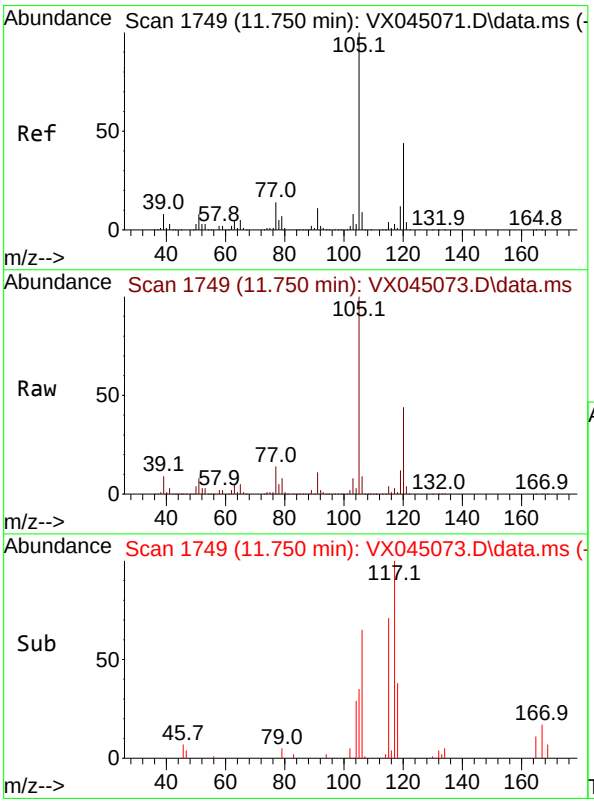
Ion	Ratio	Lower	Upper
119	100		
91	62.5	30.7	92.1
134	23.0	11.7	35.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

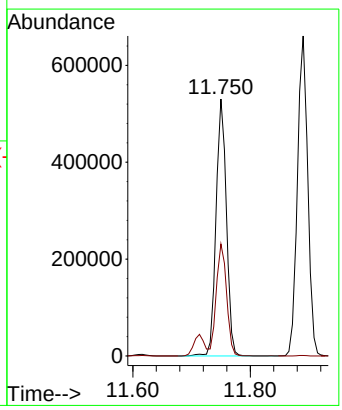


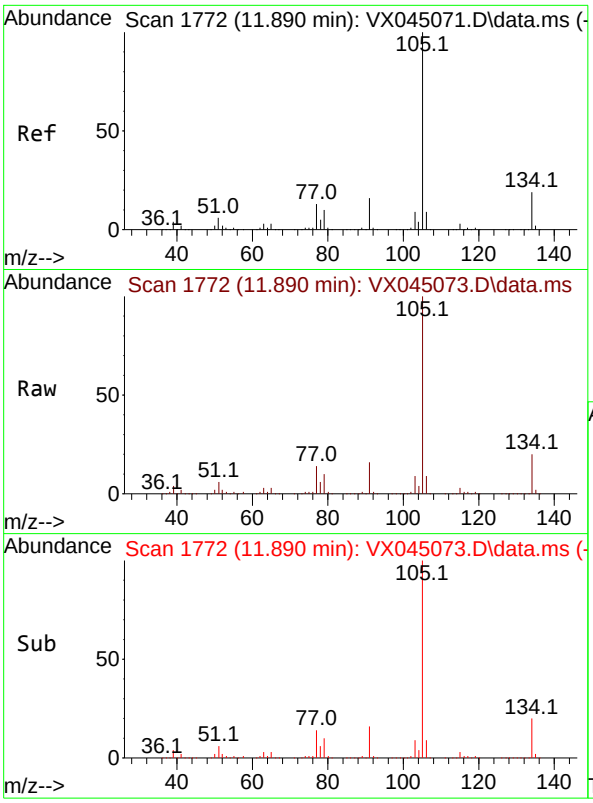


#84
1,2,4-Trimethylbenzene
Concen: 148.135 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion:105 Resp: 647248

Ion	Ratio	Lower	Upper
105	100		
120	43.8	22.1	66.1





#85
sec-Butylbenzene
Concen: 145.383 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

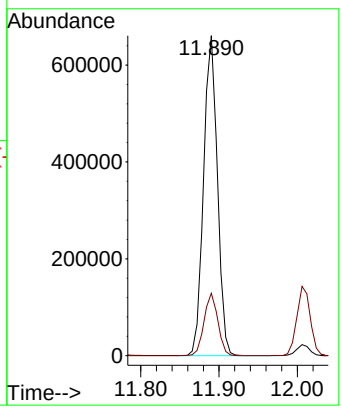
Tgt Ion:105 Resp: 80771

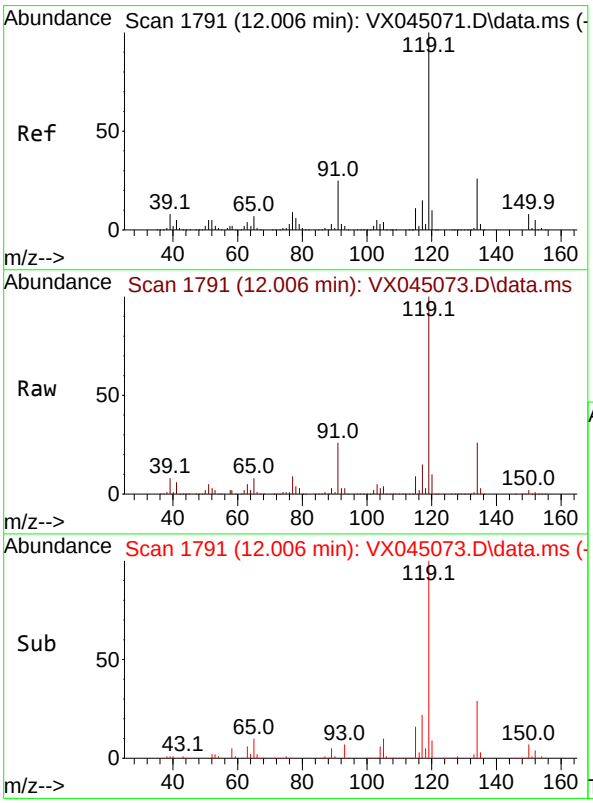
Ion	Ratio	Lower	Upper
105	100		
134	19.4	9.8	29.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

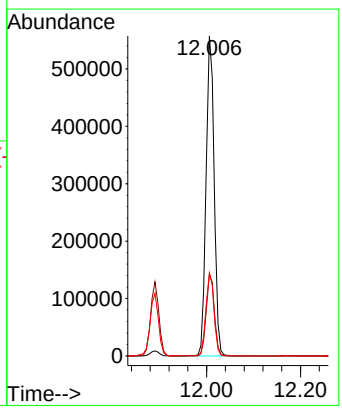


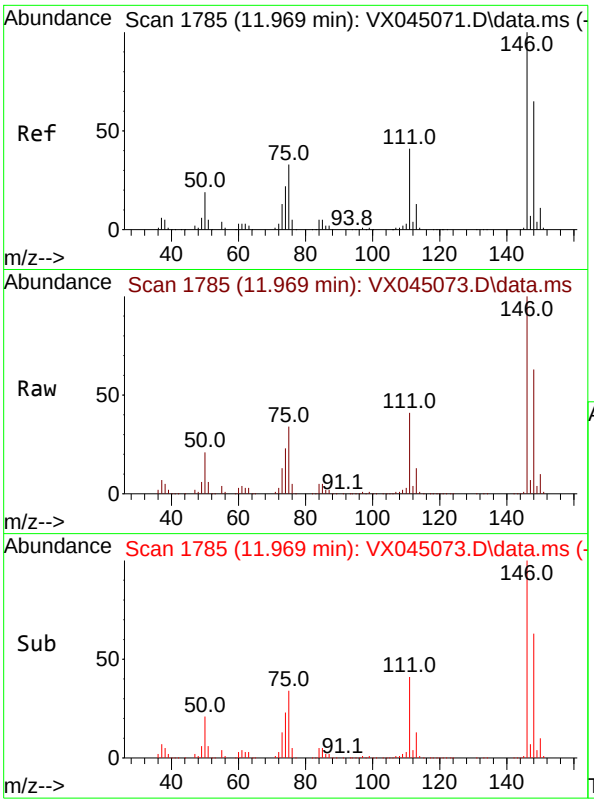


#86
p-Isopropyltoluene
Concen: 149.075 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion:119 Resp: 664916

Ion	Ratio	Lower	Upper
119	100		
134	25.7	12.9	38.6
91	25.8	12.7	38.0





#87
1,3-Dichlorobenzene
Concen: 147.488 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

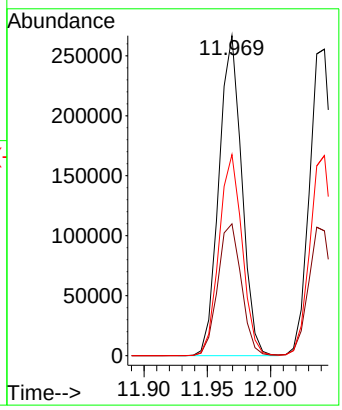
Tgt Ion:146 Resp: 33475

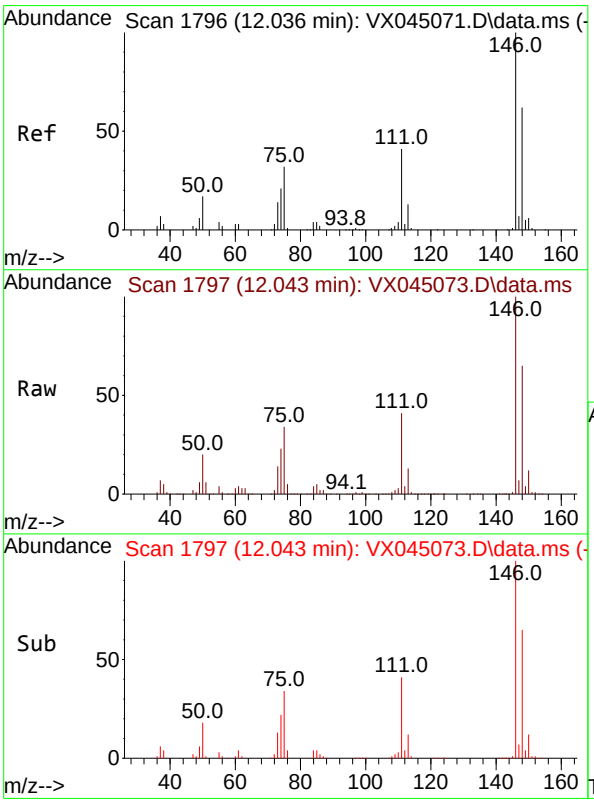
Ion	Ratio	Lower	Upper
146	100		
111	42.7	21.1	63.4
148	63.6	31.9	95.7

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

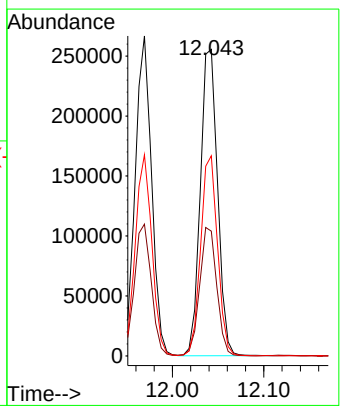


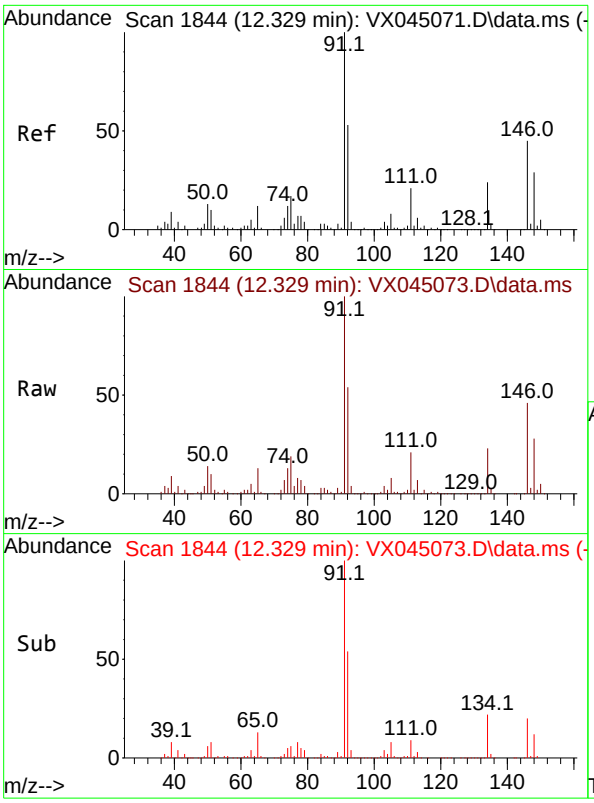


#88
1,4-Dichlorobenzene
Concen: 145.189 ug/l
RT: 12.043 min Scan# 1797
Delta R.T. 0.006 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion:146 Resp: 333594

Ion	Ratio	Lower	Upper
146	100		
111	41.7	20.2	60.5
148	64.0	31.9	95.9





#89
n-Butylbenzene
Concen: 158.324 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

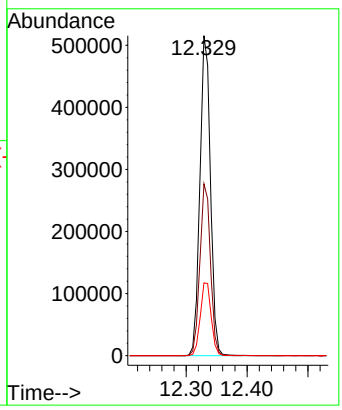
Tgt Ion: 91 Resp: 62075

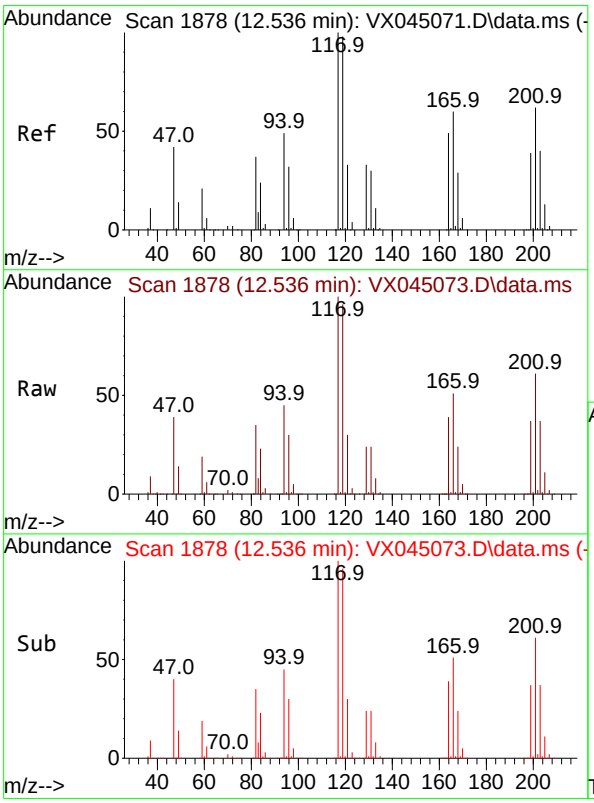
Ion	Ratio	Lower	Upper
91	100		
92	53.9	26.7	80.0
134	23.6	12.2	36.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

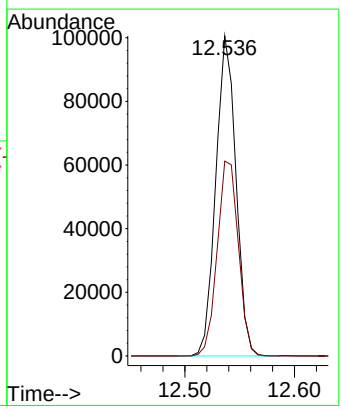


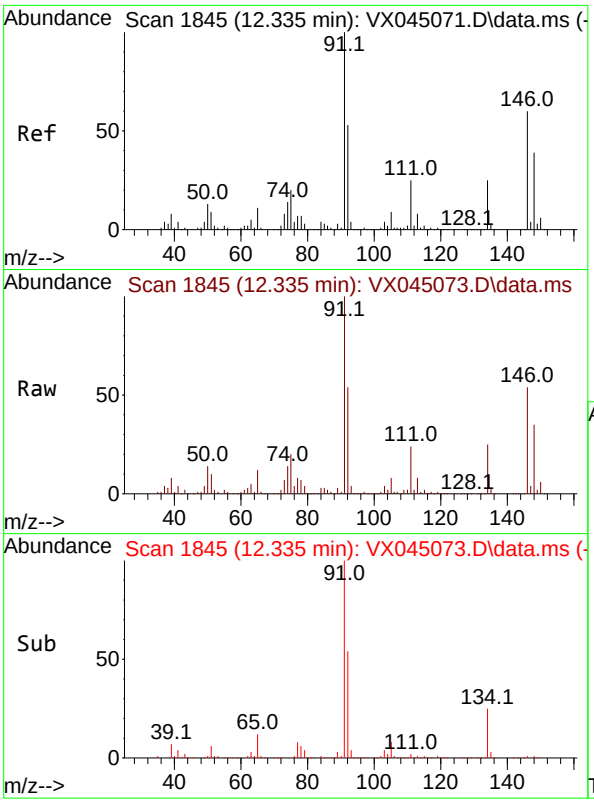


#90
Hexachloroethane
Concen: 154.554 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion:117 Resp: 128582

Ion	Ratio	Lower	Upper
117	100		
201	64.2	31.9	95.9





#91
1,2-Dichlorobenzene
Concen: 147.436 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

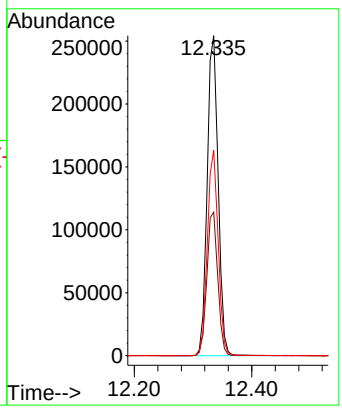
Tgt Ion:146 Resp: 32931

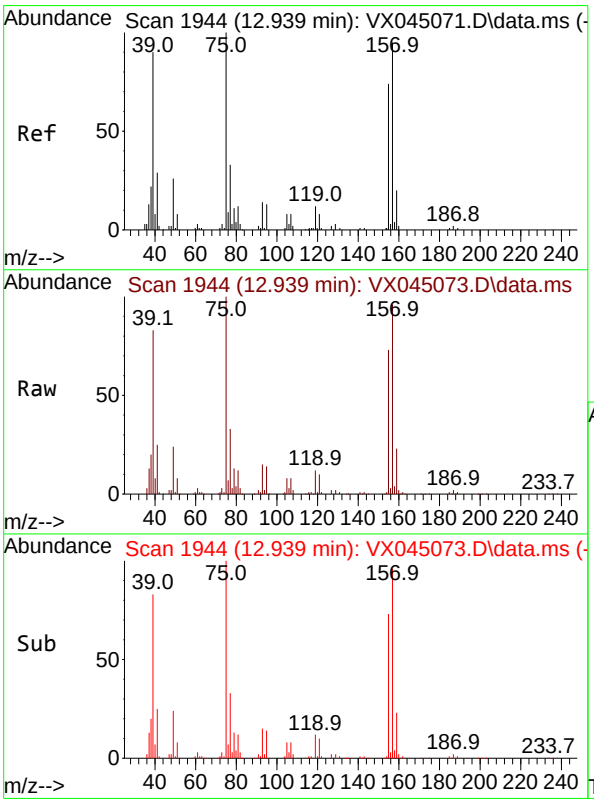
Ion	Ratio	Lower	Upper
146	100		
111	44.9	21.6	65.0
148	63.4	31.9	95.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

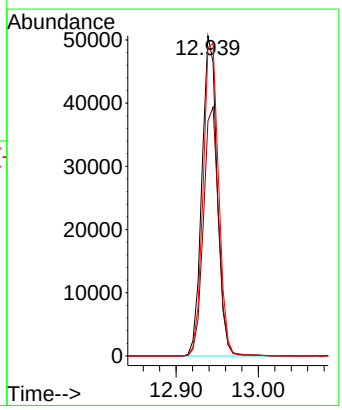


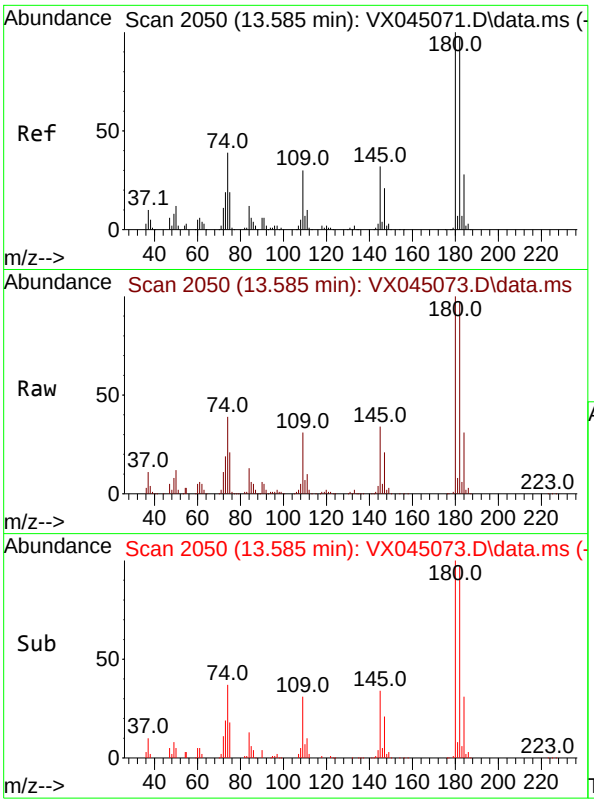


#92
1,2-Dibromo-3-Chloropropane
Concen: 186.240 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion: 75 Resp: 64958

Ion	Ratio	Lower	Upper
75	100		
155	77.9	39.6	118.7
157	100.1	51.1	153.4





#93
1,2,4-Trichlorobenzene
Concen: 162.416 ug/l
RT: 13.585 min Scan# 2(
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

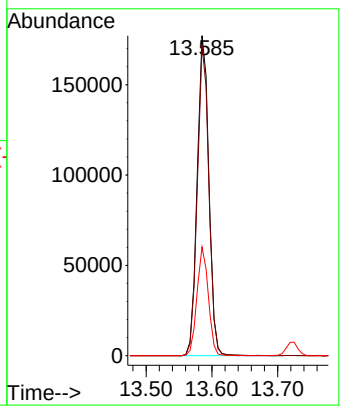
Tgt Ion:180 Resp: 21931

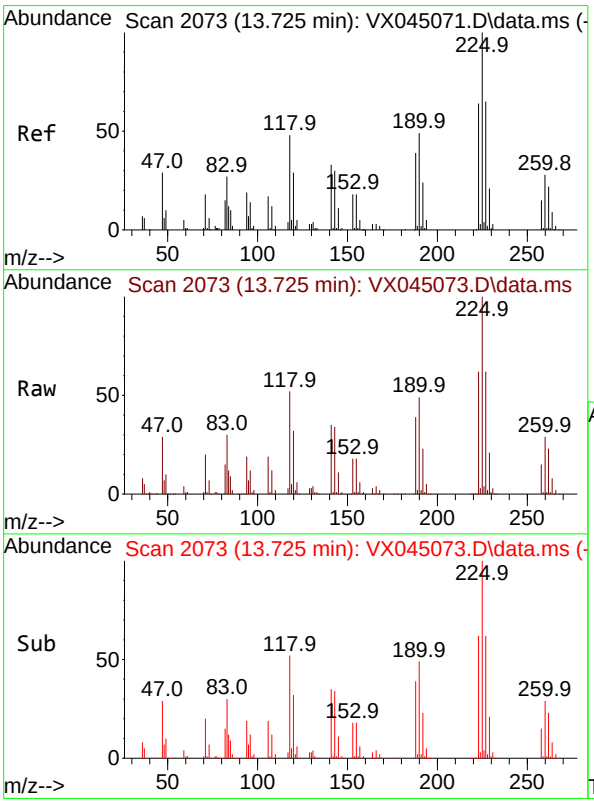
Ion	Ratio	Lower	Upper
180	100		
182	95.6	47.3	141.9
145	32.9	16.3	48.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

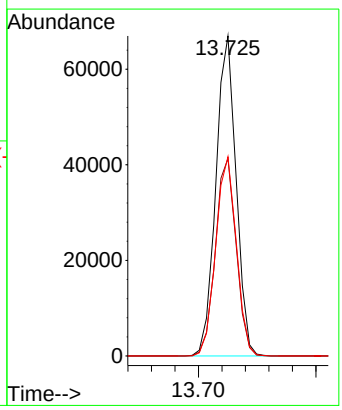


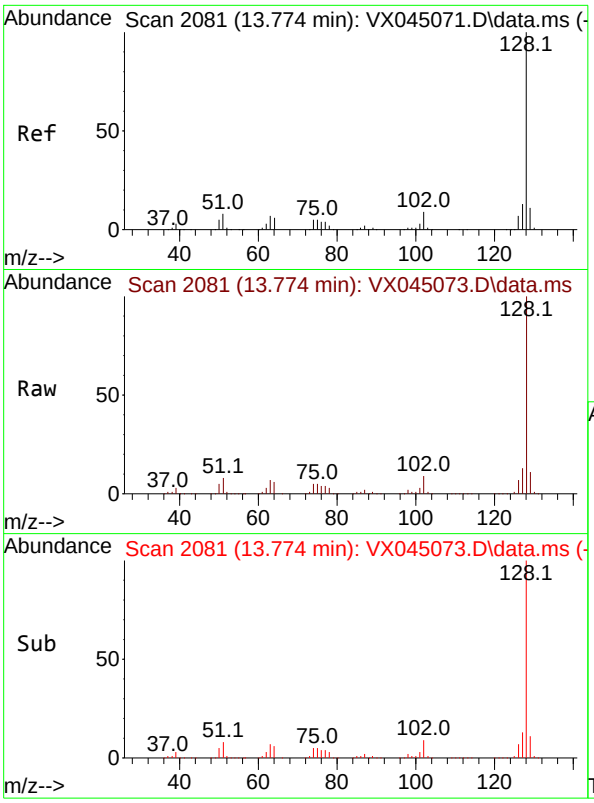


#94
Hexachlorobutadiene
Concen: 149.034 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion:225 Resp: 80241

Ion	Ratio	Lower	Upper
225	100		
223	63.2	31.9	95.7
227	63.4	31.4	94.0





#95
Naphthalene
Concen: 168.538 ug/l
RT: 13.774 min Scan# 2(
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

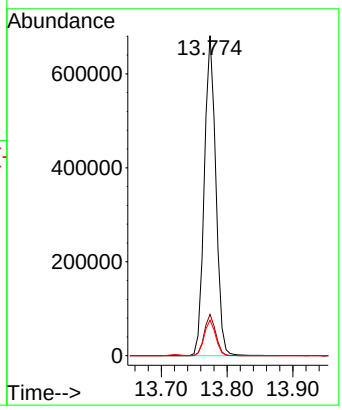
Tgt Ion:128 Resp: 828949

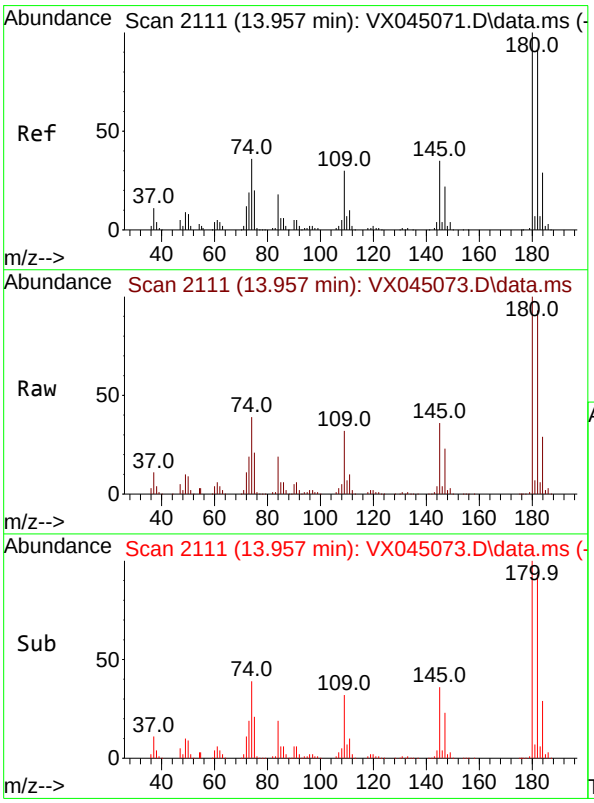
Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.3	15.5
129	11.1	8.7	13.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

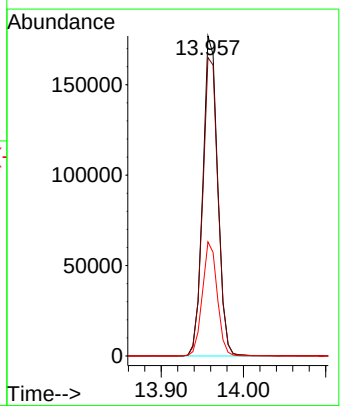




#96
1,2,3-Trichlorobenzene
Concen: 162.727 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VX045073.D
Acq: 28 Feb 2025 03:47

Tgt Ion:180 Resp: 222608

Ion	Ratio	Lower	Upper
180	100		
182	95.7	47.5	142.6
145	35.5	17.0	50.9



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045075.D
Acq On : 28 Feb 2025 04:33
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Feb 28 06:55:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations APPROVED
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene	5.550	168	101603	50.000 ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	184964	50.000 ug/l	0.00
63) Chlorobenzene-d5	10.055	117	157797	50.000 ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	69357	50.000 ug/l	0.00
System Monitoring Compounds					
33) 1,2-Dichloroethane-d4	5.952	65	81288	50.297 ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 100.600%		
35) Dibromofluoromethane	5.385	113	62880	50.841 ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.680%		
50) Toluene-d8	8.647	98	225823	50.364 ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.720%		
62) 4-Bromofluorobenzene	11.079	95	73162	49.240 ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 98.480%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.166	85	61303	47.933 ug/l	95
3) Chloromethane	1.306	50	76216	48.696 ug/l	94
4) Vinyl Chloride	1.373	62	76901	49.529 ug/l	97
5) Bromomethane	1.593	94	28193	46.190 ug/l	97
6) Chloroethane	1.660	64	30042	41.948 ug/l	99
7) Trichlorofluoromethane	1.867	101	101886	49.569 ug/l	98
8) Diethyl Ether	2.136	74	39113	48.651 ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.312	101	59477	50.367 ug/l	100
10) Methyl Iodide	2.440	142	74585	50.541 ug/l	98
11) Tert butyl alcohol	2.989	59	73034	238.577 ug/l	98
12) 1,1-Dichloroethene	2.306	96	61885	49.568 ug/l	98
13) Acrolein	2.239	56	95989	271.255 ug/l	99
14) Allyl chloride	2.654	41	114875	51.691 ug/l	98
15) Acrylonitrile	3.068	53	209607	255.479 ug/l	99
16) Acetone	2.392	43	182119	242.877 ug/l	100
17) Carbon Disulfide	2.501	76	166105	49.952 ug/l	97
18) Methyl Acetate	2.709	43	90756	50.312 ug/l	99
19) Methyl tert-butyl Ether	3.117	73	222475	53.114 ug/l	99
20) Methylene Chloride	2.782	84	73731	49.639 ug/l	98
21) trans-1,2-Dichloroethene	3.081	96	63117	51.172 ug/l	98
22) Diisopropyl ether	3.763	45	243860	53.955 ug/l	97
23) Vinyl Acetate	3.721	43	1064817	282.313 ug/l	100
24) 1,1-Dichloroethane	3.605	63	129666	51.190 ug/l	100
25) 2-Butanone	4.562	43	298021	264.040 ug/l	98
26) 2,2-Dichloropropane	4.471	77	58694	49.401 ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	78576	51.606 ug/l	100
28) Bromochloromethane	4.891	49	60849	50.399 ug/l	100
29) Tetrahydrofuran	5.007	42	195768	258.277 ug/l	99
30) Chloroform	5.086	83	126437	50.236 ug/l	98
31) Cyclohexane	5.464	56	110288	50.158 ug/l	98
32) 1,1,1-Trichloroethane	5.373	97	103546	50.939 ug/l	99
36) 1,1-Dichloropropene	5.684	75	82722	48.770 ug/l	99
37) Ethyl Acetate	4.714	43	112768	51.596 ug/l	99
38) Carbon Tetrachloride	5.672	117	85110	49.425 ug/l	99
39) Methylcyclohexane	7.372	83	103996	51.169 ug/l	98
40) Benzene	6.031	78	274206	51.195 ug/l	99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045075.D
Acq On : 28 Feb 2025 04:33
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Feb 28 06:55:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations APPROVED
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	4.922	41	63051	53.352 ug/l	99
42) 1,2-Dichloroethane	6.080	62	97821	50.718 ug/l	100
43) Isopropyl Acetate	6.342	43	175982	54.452 ug/l	100
44) Trichloroethene	7.122	130	61530	48.924 ug/l	99
45) 1,2-Dichloropropane	7.427	63	70350	51.086 ug/l	97
46) Dibromomethane	7.580	93	50284	51.661 ug/l	99
47) Bromodichloromethane	7.817	83	97236	50.930 ug/l	99
48) Methyl methacrylate	7.689	41	87582	54.016 ug/l	100
49) 1,4-Dioxane	7.665	88	35878	1049.007 ug/l	98
51) 4-Methyl-2-Pentanone	8.573	43	564197	259.995 ug/l	99
52) Toluene	8.714	92	160331	51.020 ug/l	99
53) t-1,3-Dichloropropene	8.976	75	86584	54.247 ug/l	99
54) cis-1,3-Dichloropropene	8.366	75	98146	52.732 ug/l	95
55) 1,1,2-Trichloroethane	9.146	97	64985	50.232 ug/l	99
56) Ethyl methacrylate	9.116	69	106405	54.109 ug/l	100
57) 1,3-Dichloropropane	9.305	76	114880	51.312 ug/l	99
58) 2-Chloroethyl Vinyl ether	8.238	63	264335	275.557 ug/l	99
59) 2-Hexanone	9.427	43	416731	265.049 ug/l	99
60) Dibromochloromethane	9.518	129	69492	51.374 ug/l	98
61) 1,2-Dibromoethane	9.610	107	66501	51.492 ug/l	99
64) Tetrachloroethene	9.268	164	50659	50.126 ug/l	96
65) Chlorobenzene	10.079	112	168885	50.580 ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.159	131	56822	51.102 ug/l	98
67) Ethyl Benzene	10.189	91	300324	51.621 ug/l	100
68) m/p-Xylenes	10.299	106	220335	103.454 ug/l	99
69) o-Xylene	10.640	106	108836	50.668 ug/l	100
70) Styrene	10.652	104	181349	52.177 ug/l	100
71) Bromoform	10.799	173	44135	52.636 ug/l #	100
73) Isopropylbenzene	10.957	105	279278	51.589 ug/l	99
74) N-amyl acetate	10.841	43	144412	56.851 ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.213	83	100800	50.741 ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	80618m	49.940 ug/l	
77) Bromobenzene	11.195	156	64324	50.360 ug/l	100
78) n-propylbenzene	11.305	91	319235	52.203 ug/l	99
79) 2-Chlorotoluene	11.360	91	192150	49.338 ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	225622	51.544 ug/l	100
81) trans-1,4-Dichloro-2-b...	11.018	75	23943	50.757 ug/l	99
82) 4-Chlorotoluene	11.451	91	216511	51.009 ug/l	100
83) tert-Butylbenzene	11.713	119	227357	50.552 ug/l	100
84) 1,2,4-Trimethylbenzene	11.750	105	228729	51.932 ug/l	100
85) sec-Butylbenzene	11.890	105	283931	52.703 ug/l	100
86) p-Isopropyltoluene	12.006	119	229894	52.803 ug/l	100
87) 1,3-Dichlorobenzene	11.969	146	114778	50.372 ug/l	100
88) 1,4-Dichlorobenzene	12.036	146	115486	50.097 ug/l	99
89) n-Butylbenzene	12.329	91	204972	54.662 ug/l	99
90) Hexachloroethane	12.536	117	40844	51.866 ug/l	99
91) 1,2-Dichlorobenzene	12.335	146	116343	50.899 ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.938	75	20589	53.199 ug/l	99
93) 1,2,4-Trichlorobenzene	13.585	180	71368	54.834 ug/l	98
94) Hexachlorobutadiene	13.725	225	26697	50.032 ug/l	99
95) Naphthalene	13.774	128	275844	55.163 ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	74211	54.049 ug/l	99

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045075.D
Acq On : 28 Feb 2025 04:33
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Feb 28 06:55:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

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

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

Quantitation Report   (QT Reviewed)

ICAL Form

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Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045075.D
Acq On    : 28 Feb 2025  04:33
Operator  : JC/MD
Sample    : VSTDICV050
Misc      : 5.0mL/MSVOA_X/WATER
ALS Vial  : 24   Sample Multiplier: 1

Quant Time: Feb 28 06:55:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title  : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration
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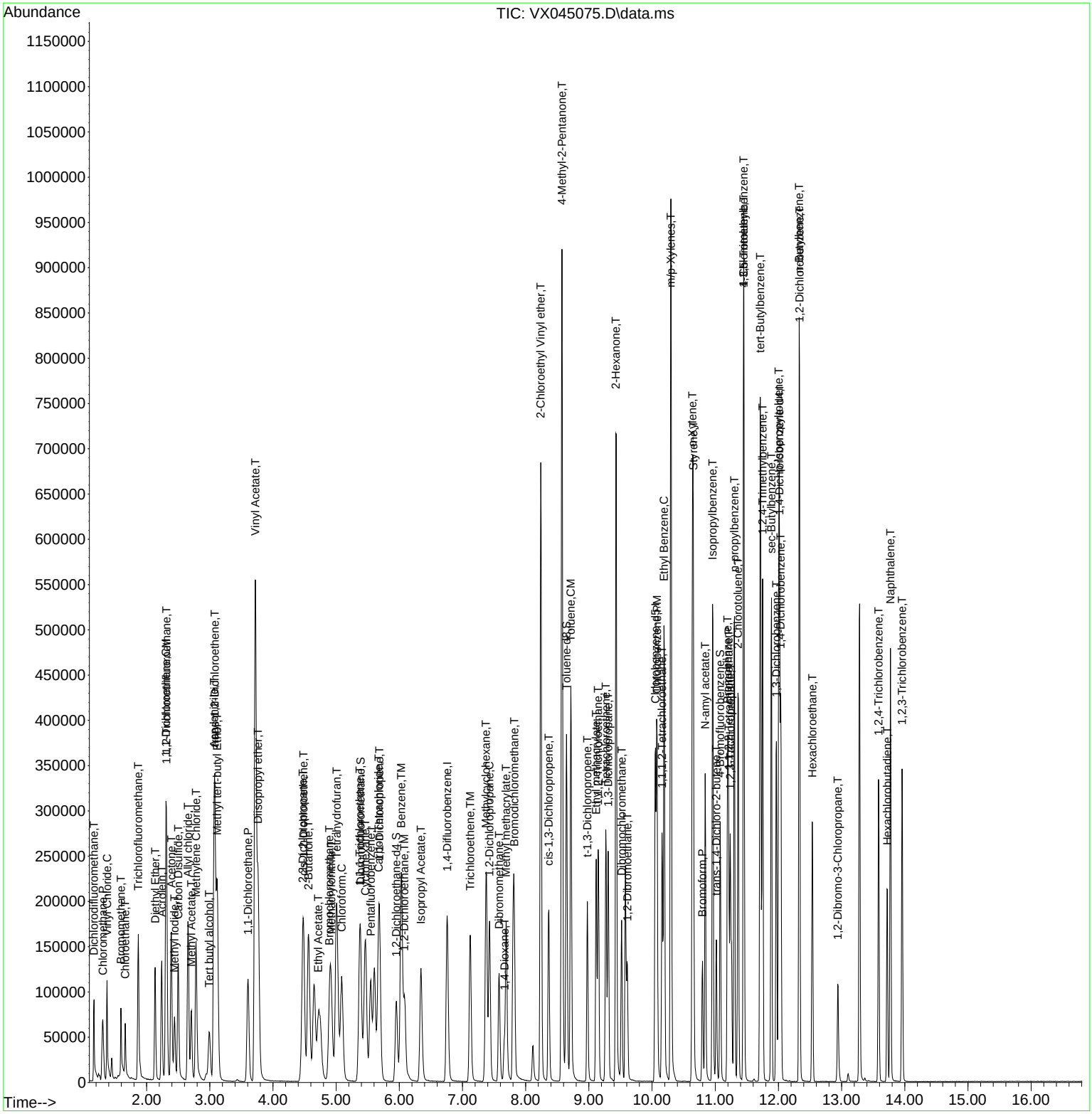
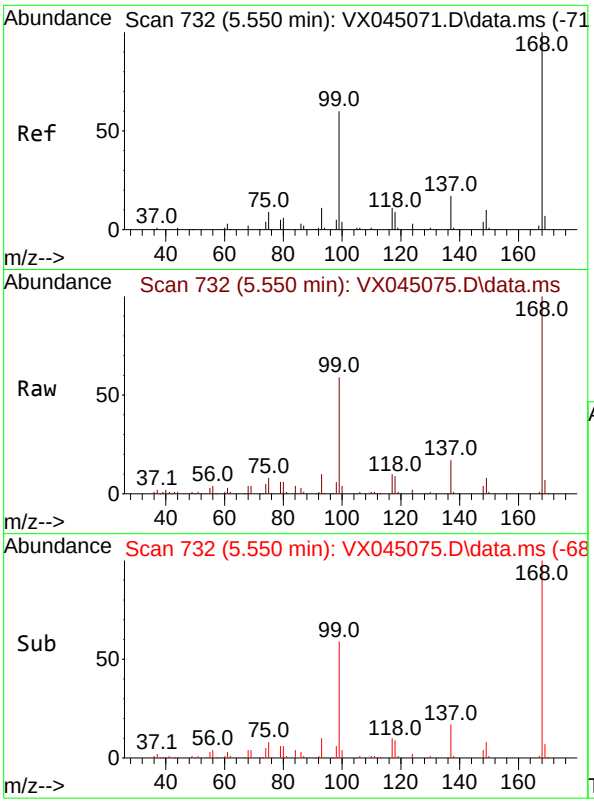
Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

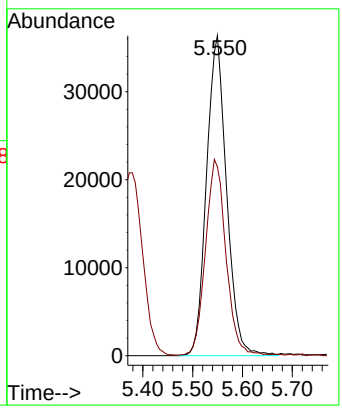
Tgt Ion:168 Resp: 10160

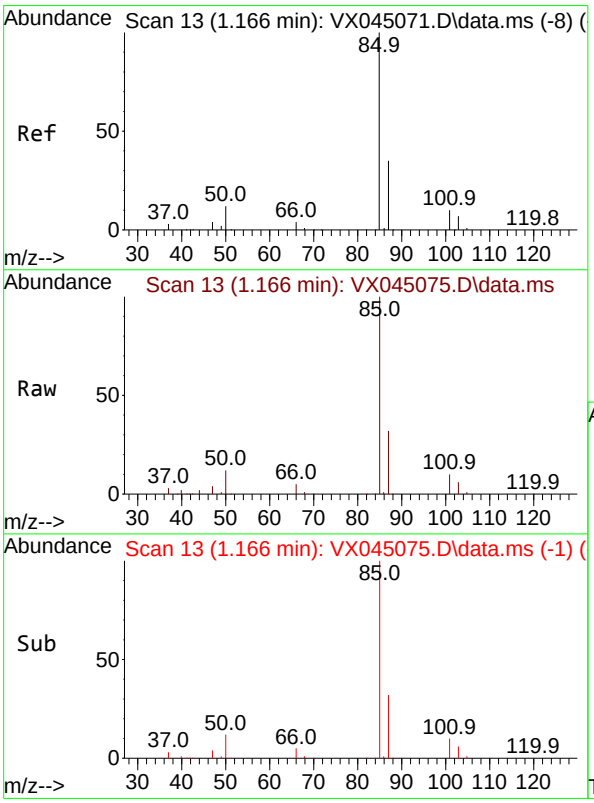
Ion	Ratio	Lower	Upper
168	100		
99	58.9	48.2	72.4

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

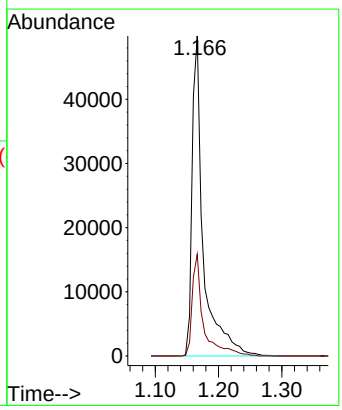


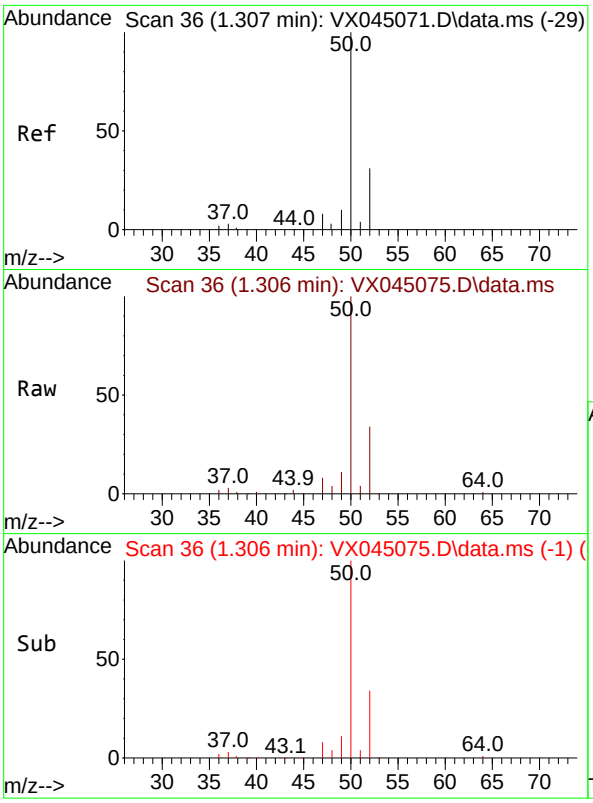


#2
Dichlorodifluoromethane
Concen: 47.933 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 85 Resp: 61303

Ion	Ratio	Lower	Upper
85	100		
87	31.8	17.4	52.3





#3
Chloromethane
Concen: 48.696 ug/l
RT: 1.306 min Scan# 3(
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

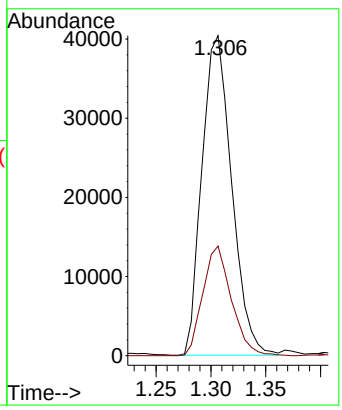
Tgt Ion: 50 Resp: 7621(

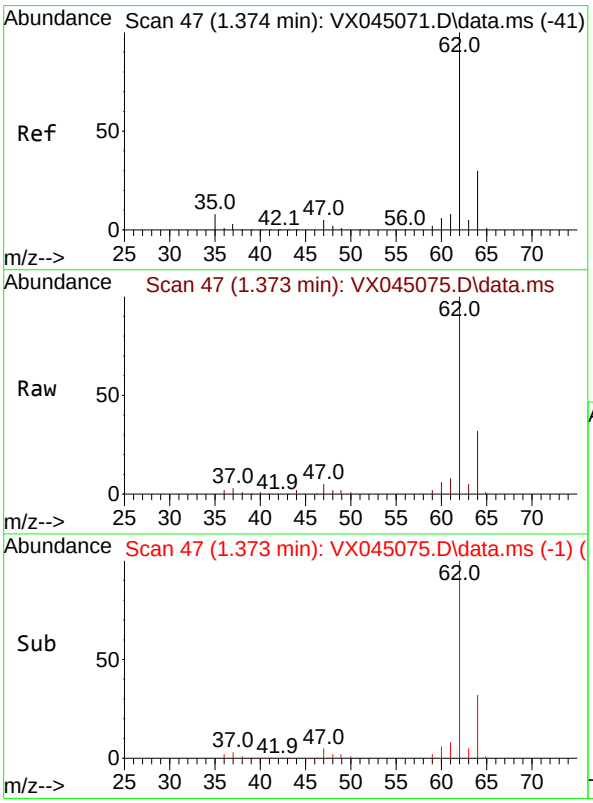
Ion	Ratio	Lower	Upper
50	100		
52	34.3	25.0	37.4

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

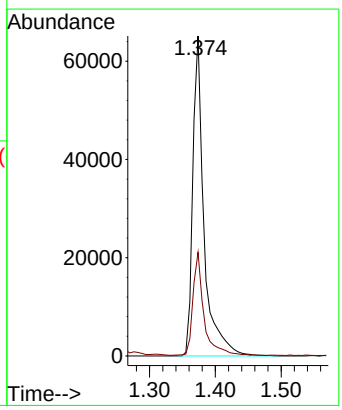


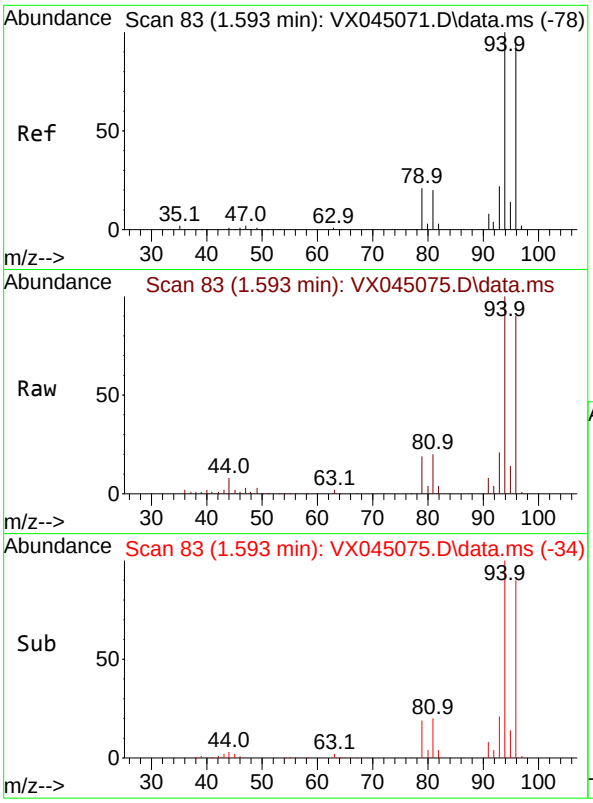


#4
Vinyl Chloride
Concen: 49.529 ug/l
RT: 1.373 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 62 Resp: 76901

Ion	Ratio	Lower	Upper
62	100		
64	32.2	24.3	36.5





#5
Bromomethane
Concen: 46.190 ug/l
RT: 1.593 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

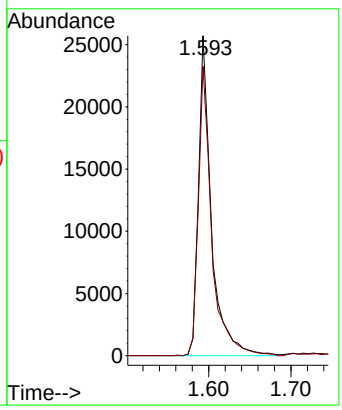
Tgt Ion: 94 Resp: 2819

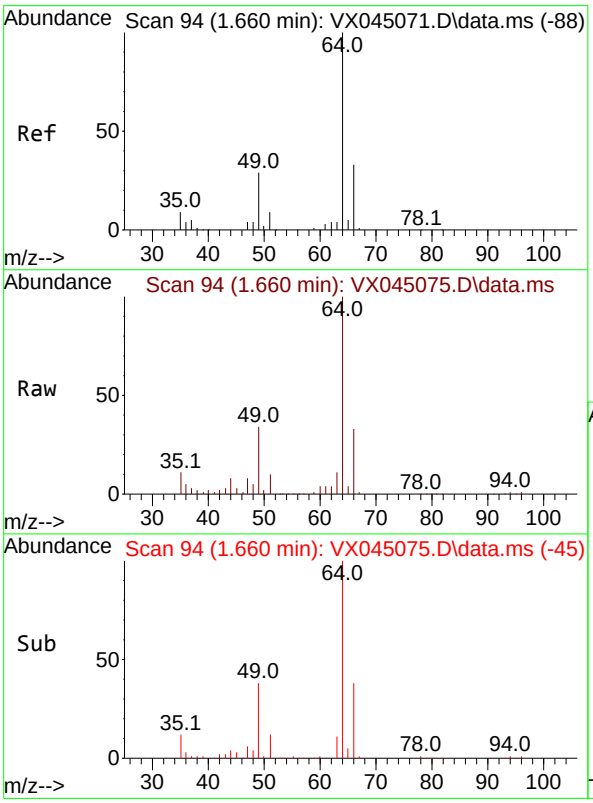
Ion	Ratio	Lower	Upper
94	100		
96	90.5	75.0	112.4

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

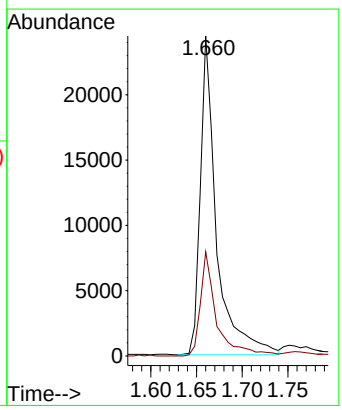


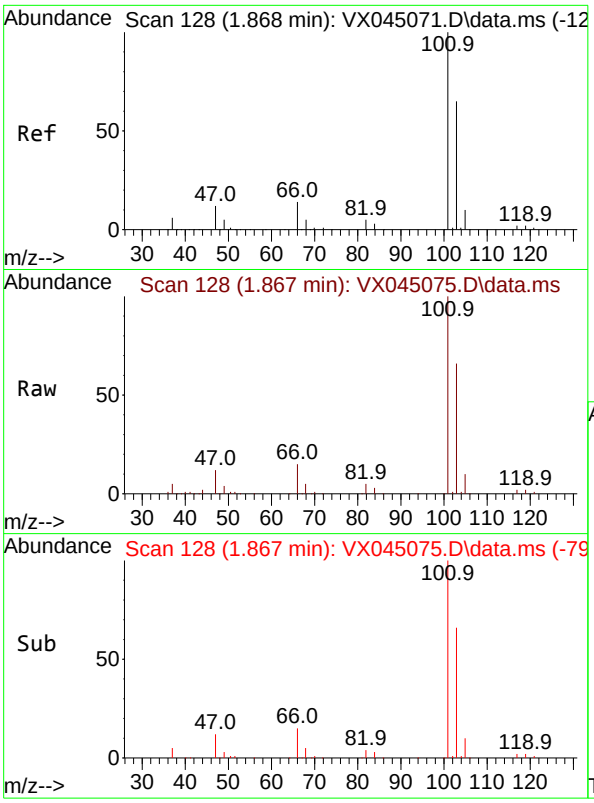


#6
Chloroethane
Concen: 41.948 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 64 Resp: 30042

Ion	Ratio	Lower	Upper
64	100		
66	32.6	26.7	40.1





#7
Trichlorofluoromethane
Concen: 49.569 ug/l
RT: 1.867 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

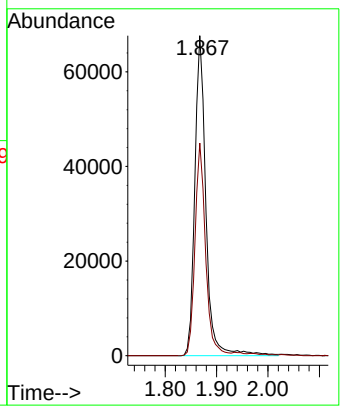
Tgt Ion:101 Resp: 10188

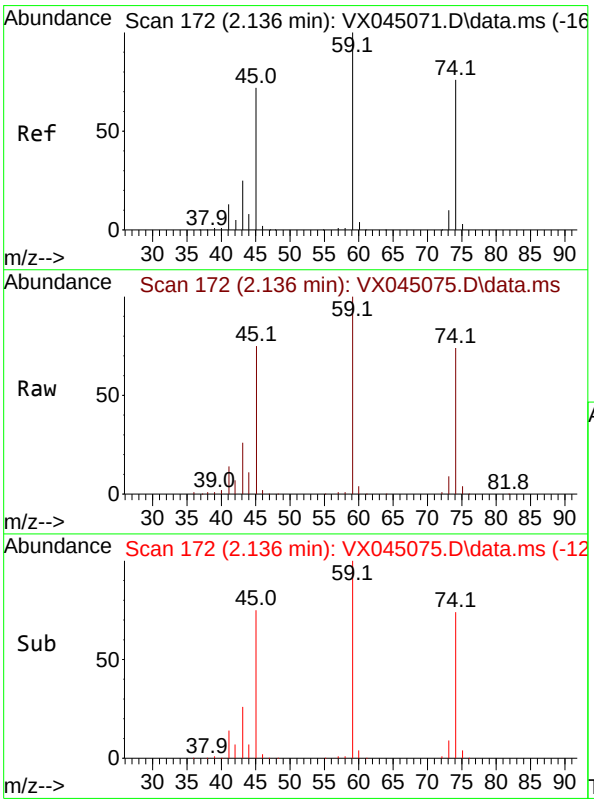
Ion	Ratio	Lower	Upper
101	100		
103	66.4	52.1	78.1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

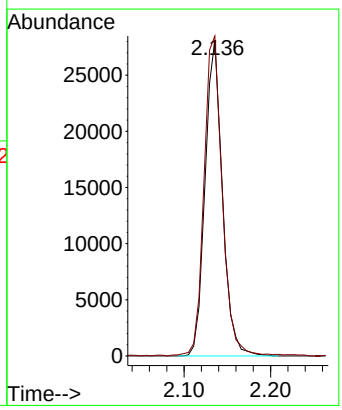


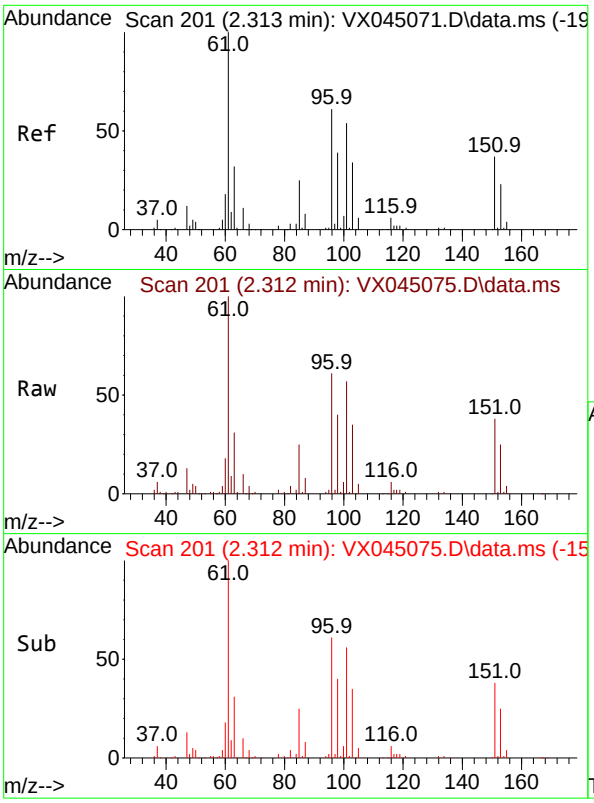


#8
Diethyl Ether
Concen: 48.651 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 74 Resp: 39113

Ion	Ratio	Lower	Upper
74	100		
45	107.2	51.5	154.5





#9
1,1,2-Trichlorotrifluoroethane
Concen: 50.367 ug/l
RT: 2.312 min Scan# 2(
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:101 Resp: 5947

Ion	Ratio	Lower	Upper
101	100		
85	45.4	36.2	54.4
151	70.2	56.4	84.6

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
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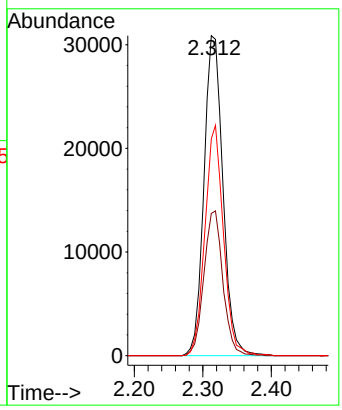
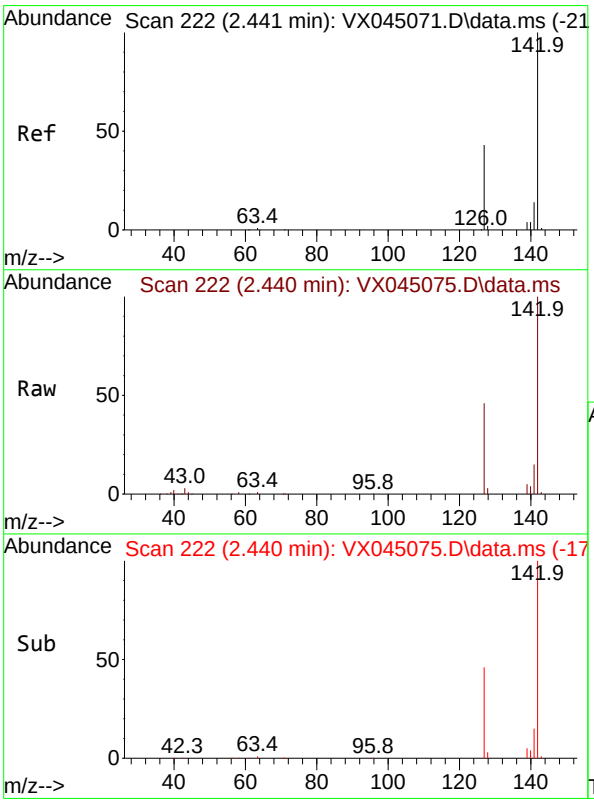
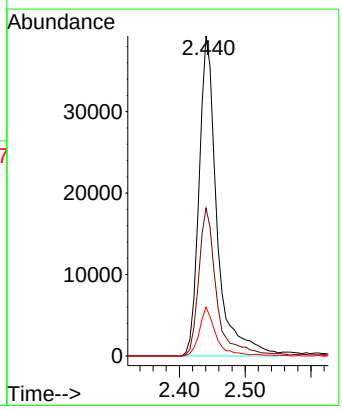


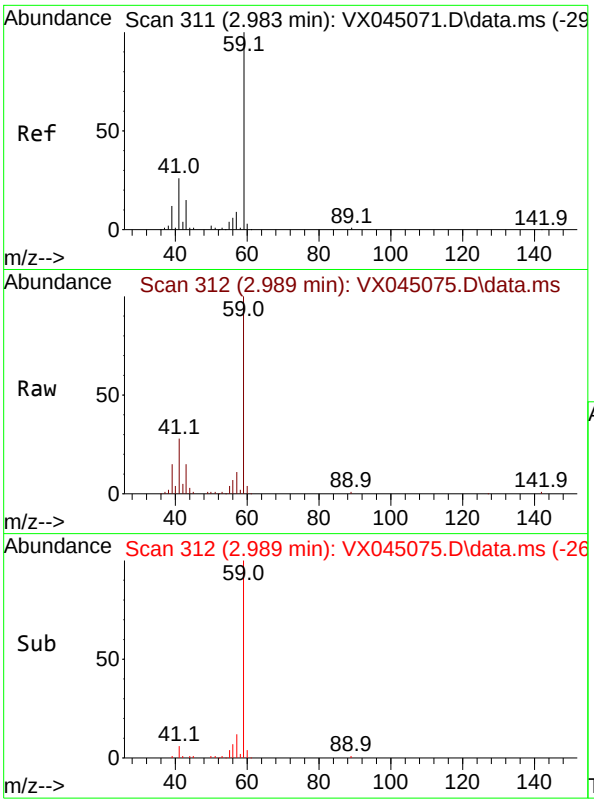


#10
Methyl Iodide
Concen: 50.541 ug/l
RT: 2.440 min Scan# 222
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:142 Resp: 74585

Ion	Ratio	Lower	Upper
142	100		
127	46.3	35.4	53.2
141	14.3	11.6	17.4





#11
Tert butyl alcohol
Concen: 238.577 ug/l
RT: 2.989 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

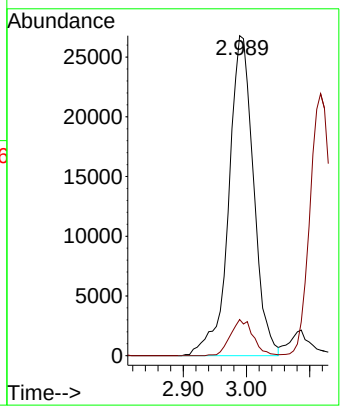
Tgt Ion: 59 Resp: 7303

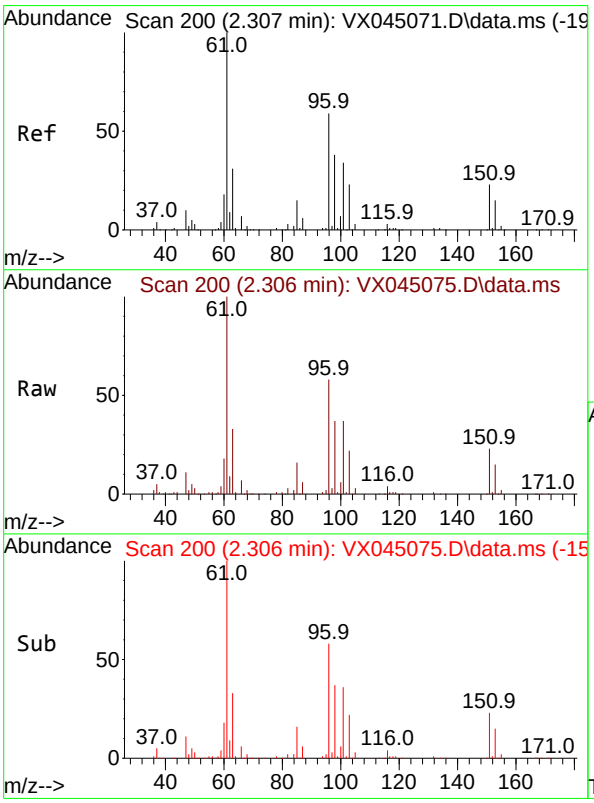
Ion	Ratio	Lower	Upper
59	100		
57	10.4	7.8	11.8

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

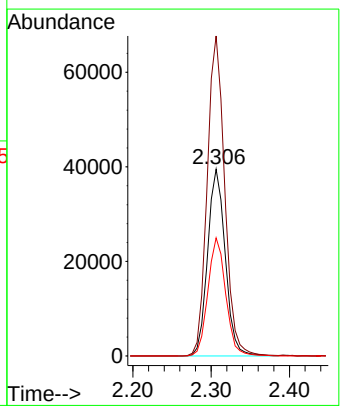


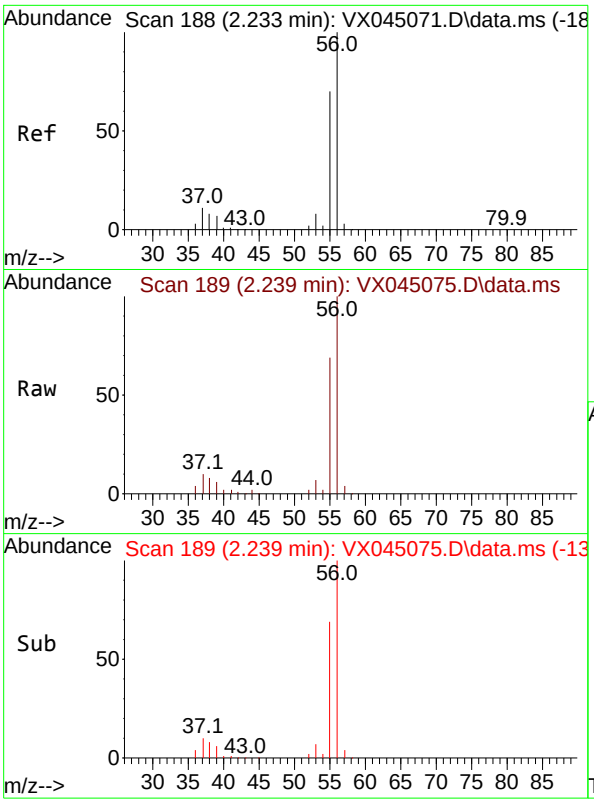


#12
1,1-Dichloroethene
Concen: 49.568 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 96 Resp: 61885

Ion	Ratio	Lower	Upper
96	100		
61	171.3	134.6	202.0
98	63.2	51.0	76.6





#13
Acrolein
Concen: 271.255 ug/l
RT: 2.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 56 Resp: 9598

Ion	Ratio	Lower	Upper
56	100		
55	69.5	56.2	84.4

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

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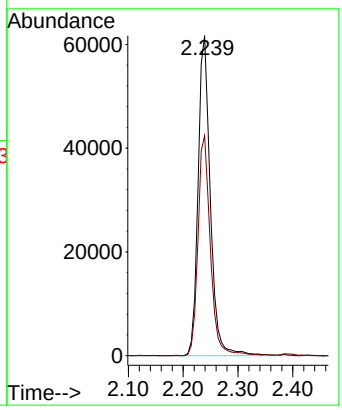
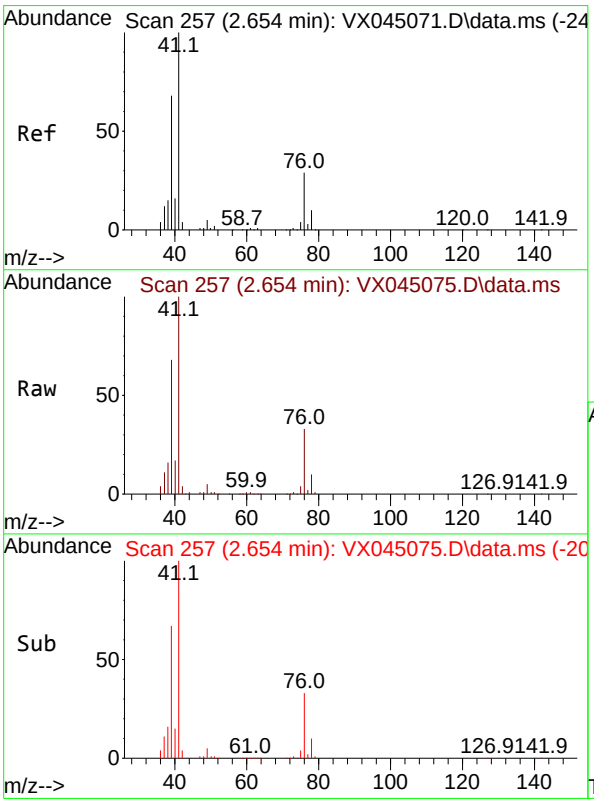
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

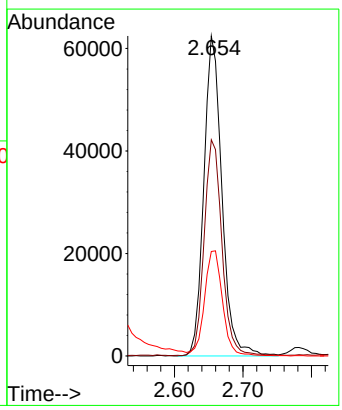


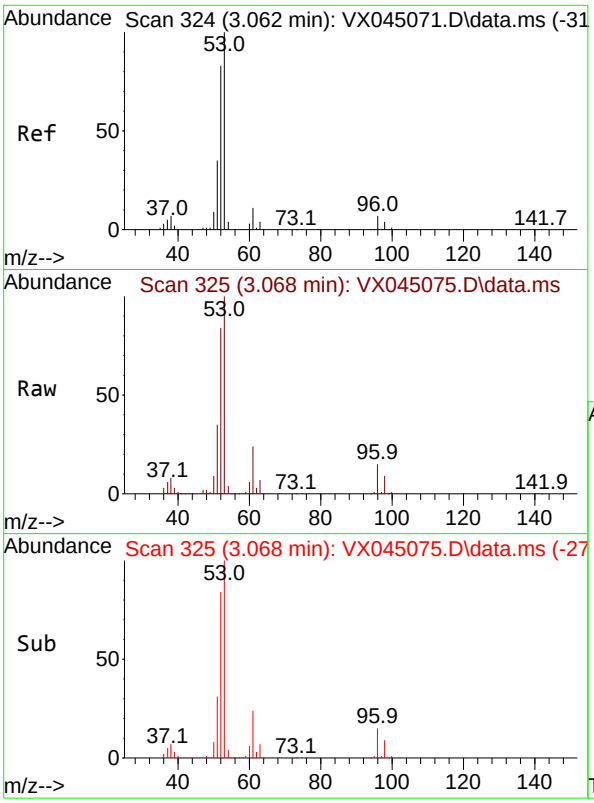


#14
Allyl chloride
Concen: 51.691 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 41 Resp: 114875

Ion	Ratio	Lower	Upper
41	100		
39	66.3	53.8	80.8
76	33.0	25.2	37.8





#15
Acrylonitrile
Concen: 255.479 ug/l
RT: 3.068 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 53 Resp: 20960

Ion	Ratio	Lower	Upper
53	100		
52	83.8	66.2	99.2
51	35.8	29.0	43.4

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations
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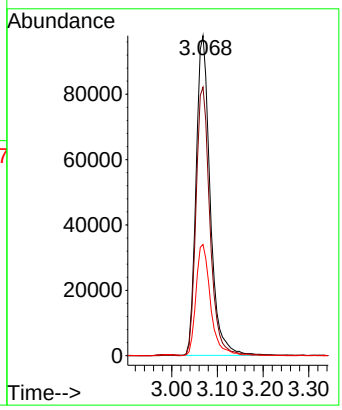
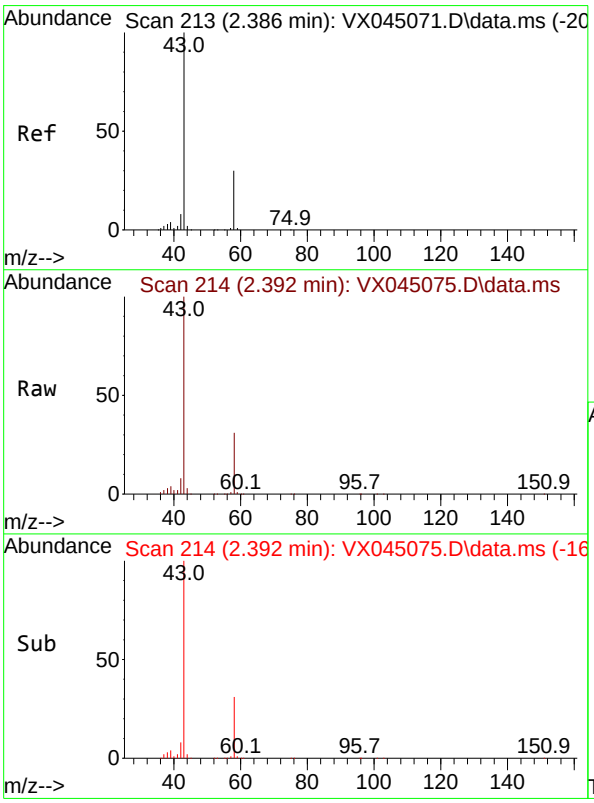
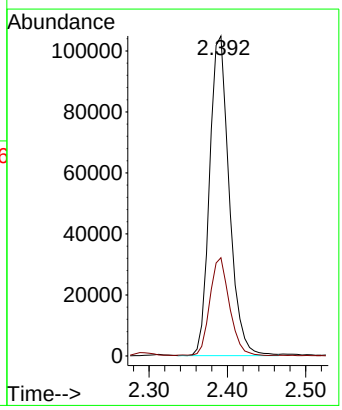


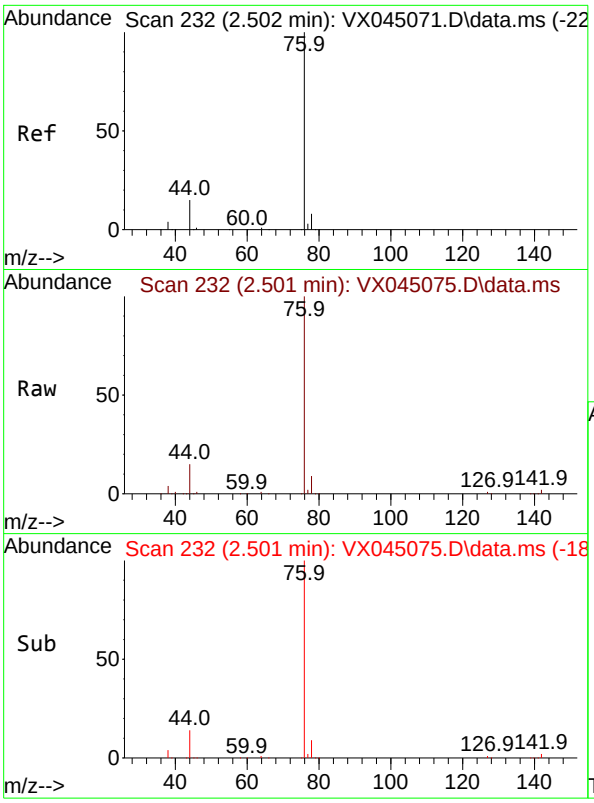


#16
Acetone
Concen: 242.877 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.006 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 43 Resp: 182119

Ion	Ratio	Lower	Upper
43	100		
58	30.5	24.2	36.4





#17
Carbon Disulfide
Concen: 49.952 ug/l
RT: 2.501 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 76 Resp: 16610

Ion	Ratio	Lower	Upper
76	100		
78	9.3	6.6	9.8

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

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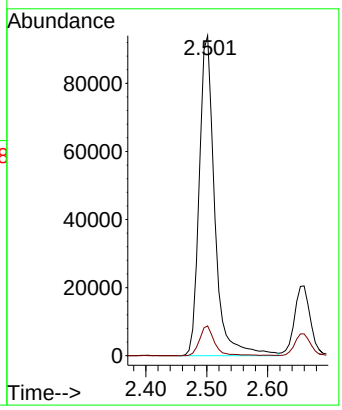
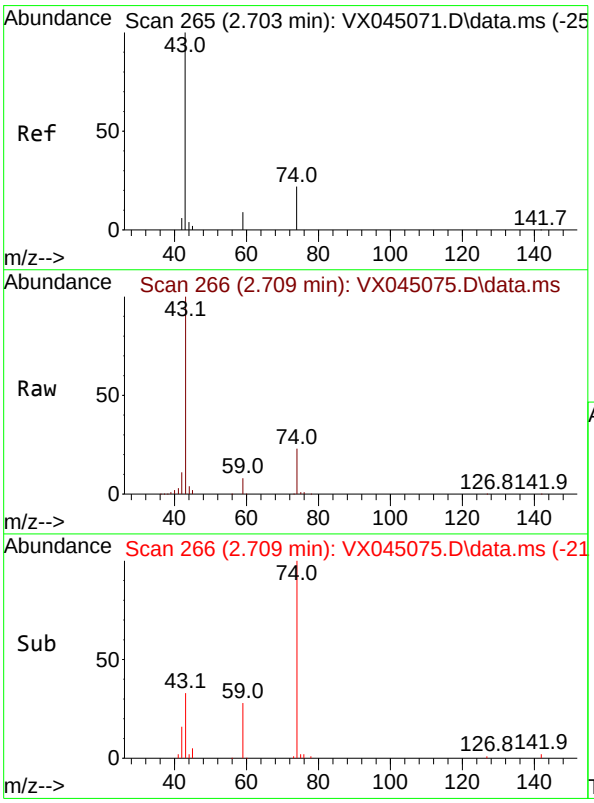
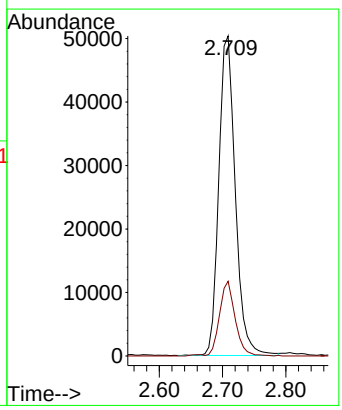


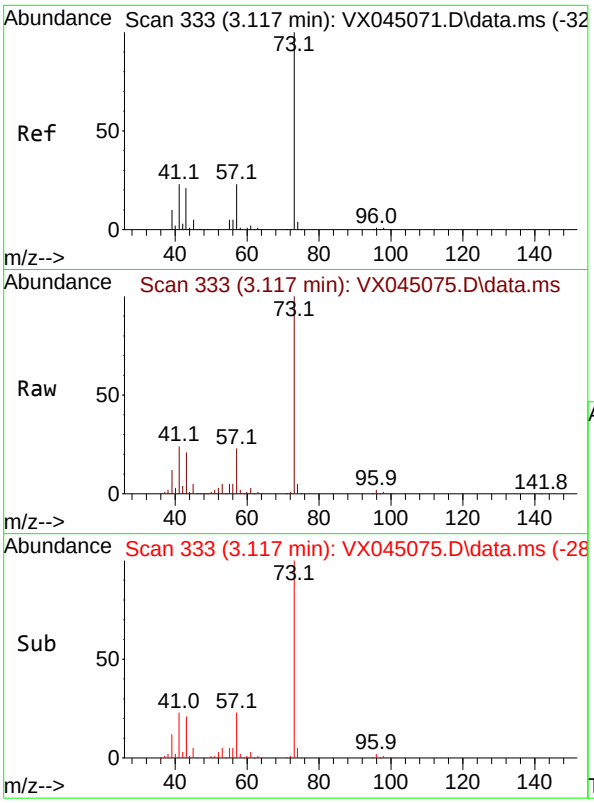


#18
Methyl Acetate
Concen: 50.312 ug/l
RT: 2.709 min Scan# 266
Delta R.T. 0.006 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 43 Resp: 90756

Ion	Ratio	Lower	Upper
43	100		
74	22.1	17.4	26.2





#19
Methyl tert-butyl Ether
Concen: 53.114 ug/l
RT: 3.117 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 73 Resp: 22247

Ion	Ratio	Lower	Upper
73	100		
57	22.7	18.5	27.7

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations
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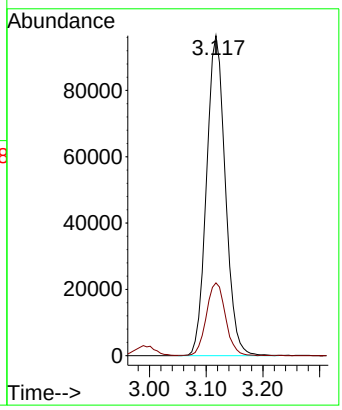
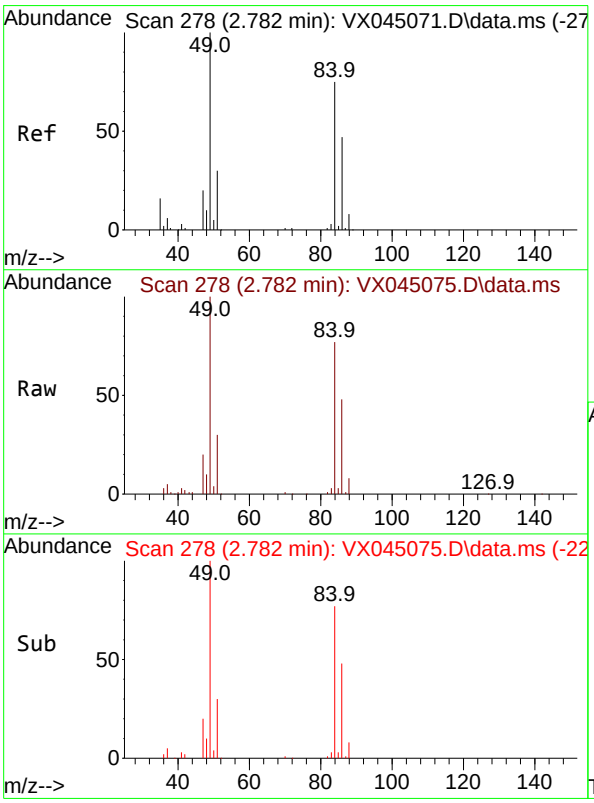
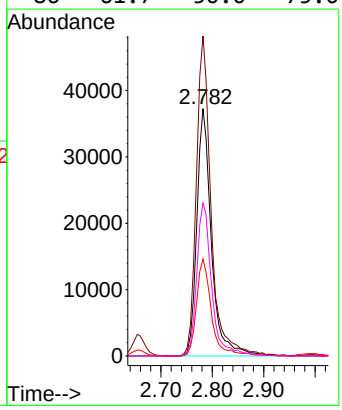


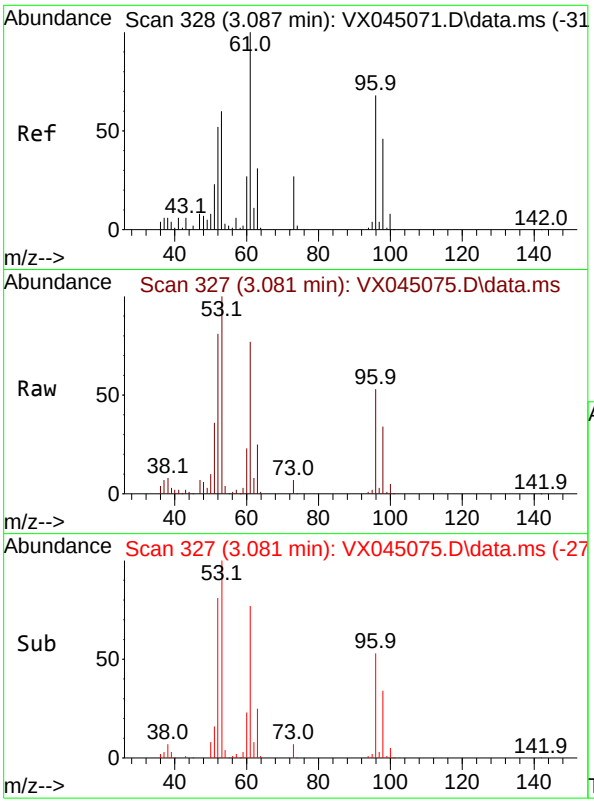


#20
Methylene Chloride
Concen: 49.639 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 84 Resp: 73731

Ion	Ratio	Lower	Upper
84	100		
49	129.3	106.5	159.7
51	39.1	32.1	48.1
86	61.7	50.0	75.0





#21
trans-1,2-Dichloroethene
Concen: 51.172 ug/l
RT: 3.081 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 96 Resp: 6311

Ion	Ratio	Lower	Upper
96	100		
61	145.2	117.0	175.4
98	64.4	53.4	80.2

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

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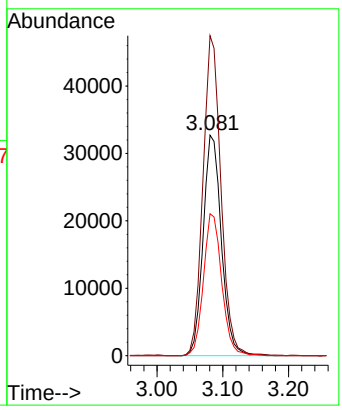
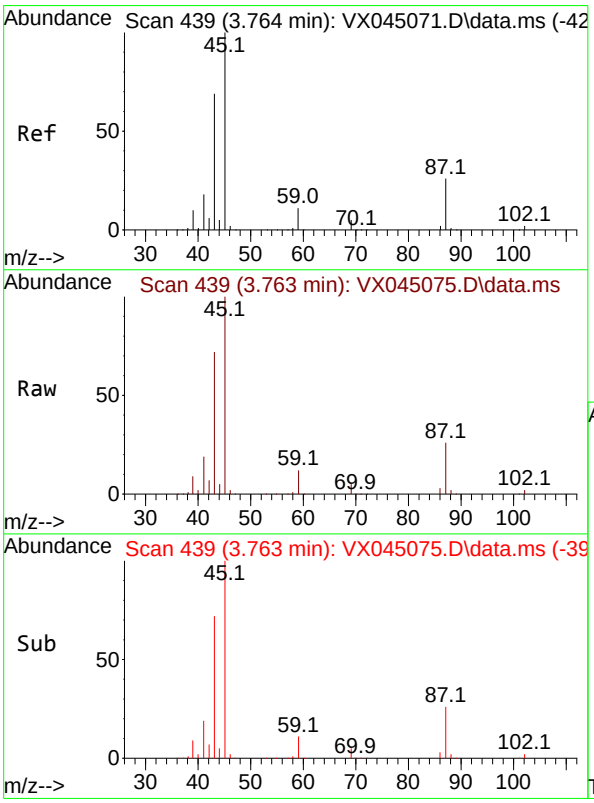
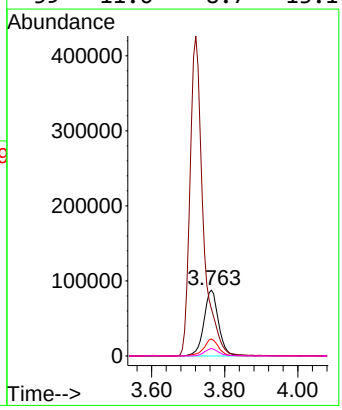


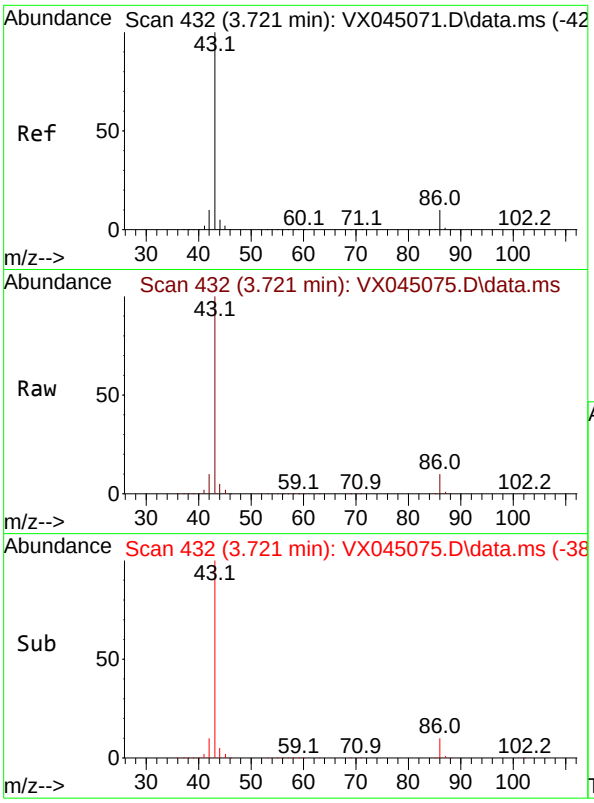


#22
Diisopropyl ether
Concen: 53.955 ug/l
RT: 3.763 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 45 Resp: 243860

Ion	Ratio	Lower	Upper
45	100		
43	71.9	54.9	82.3
87	25.8	21.0	31.4
59	11.6	8.7	13.1





#23
Vinyl Acetate
Concen: 282.313 ug/l
RT: 3.721 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 43 Resp: 106481

Ion	Ratio	Lower	Upper
43	100		
86	10.0	8.1	12.1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations
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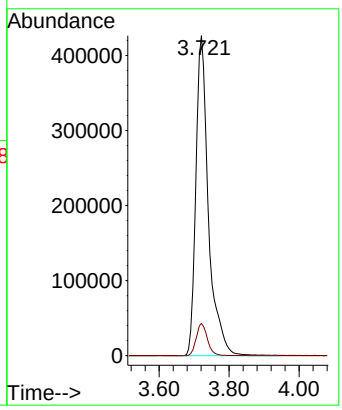
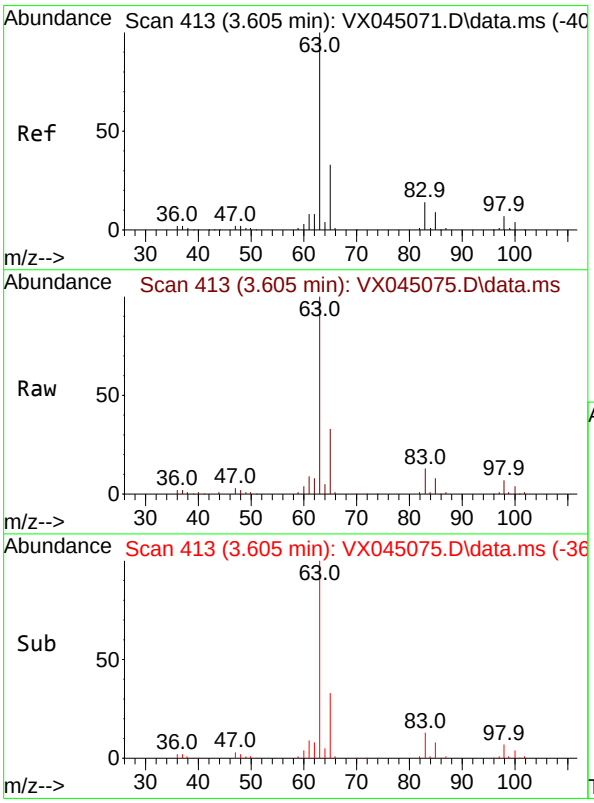
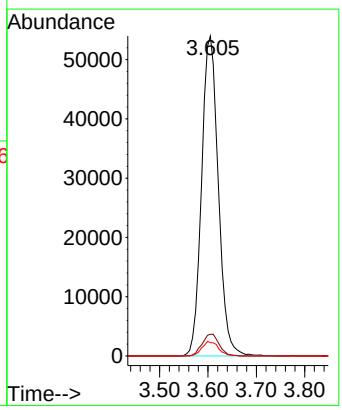


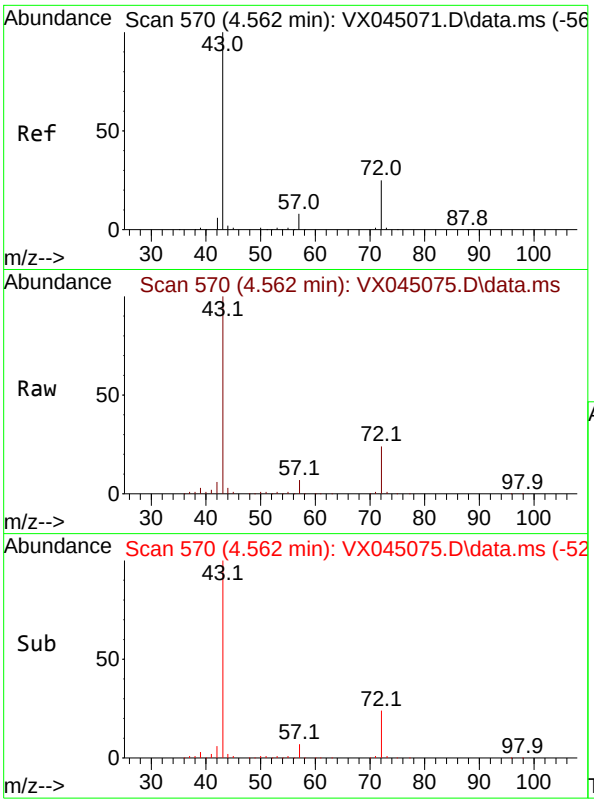


#24
1,1-Dichloroethane
Concen: 51.190 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 63 Resp: 129666

Ion	Ratio	Lower	Upper
63	100		
98	6.8	3.4	10.2
100	4.1	2.1	6.5





#25
2-Butanone
Concen: 264.040 ug/l
RT: 4.562 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 43 Resp: 29802

Ion	Ratio	Lower	Upper
43	100		
72	24.1	20.0	30.0

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

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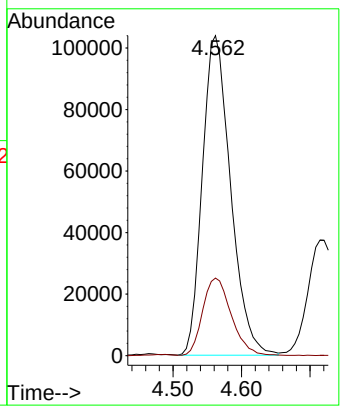
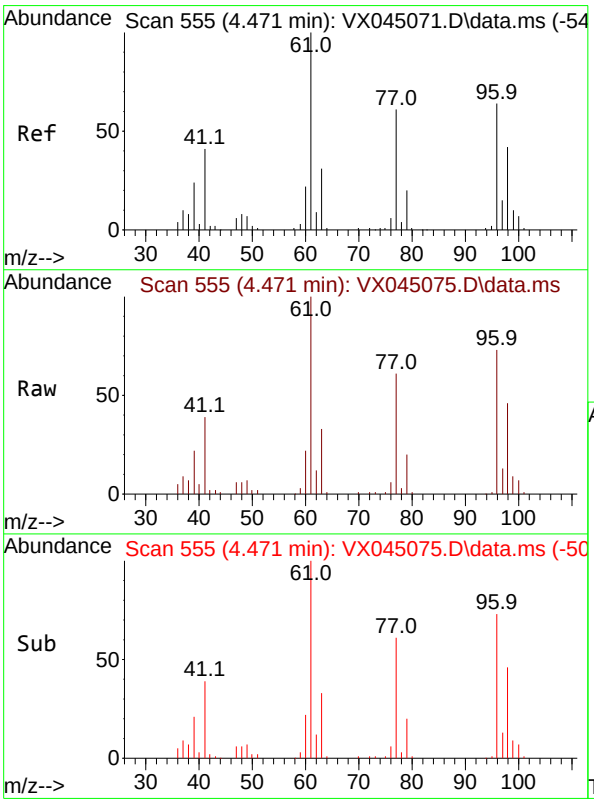
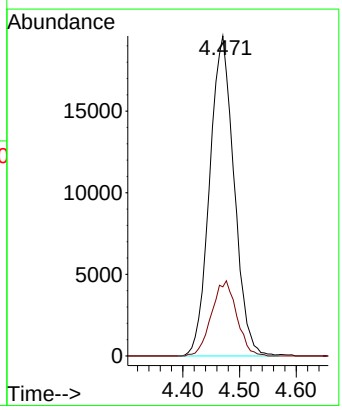


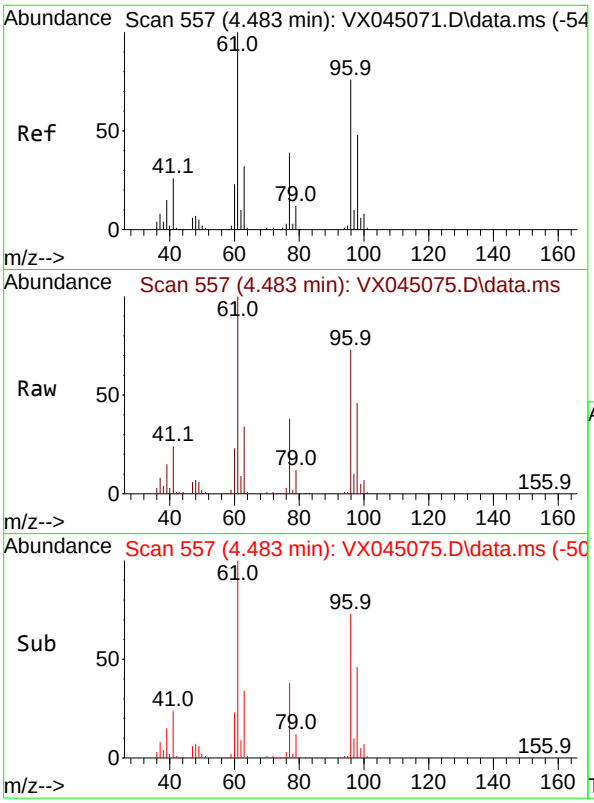


#26
2,2-Dichloropropane
Concen: 49.401 ug/l
RT: 4.471 min Scan# 555
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 77 Resp: 58694

Ion	Ratio	Lower	Upper
77	100		
97	24.2	12.4	37.0





#27
cis-1,2-Dichloroethene
Concen: 51.606 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 96 Resp: 7857

Ion	Ratio	Lower	Upper
96	100		
61	141.2	0.0	283.2
98	63.8	0.0	128.0

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

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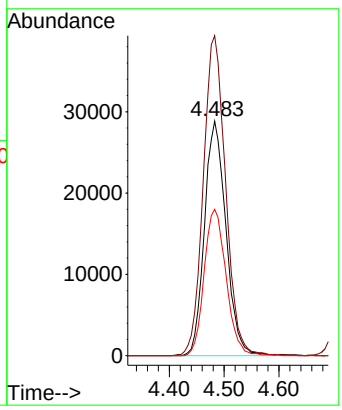
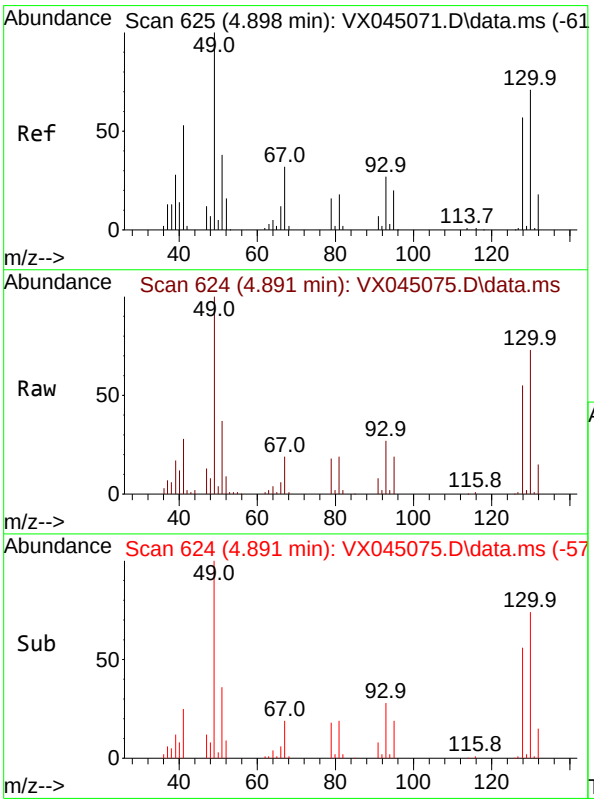
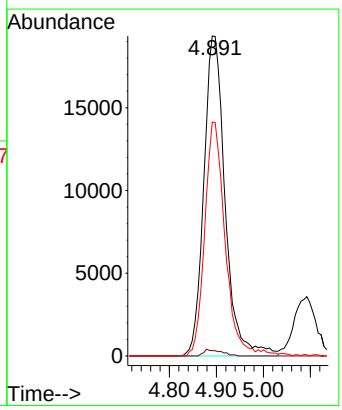


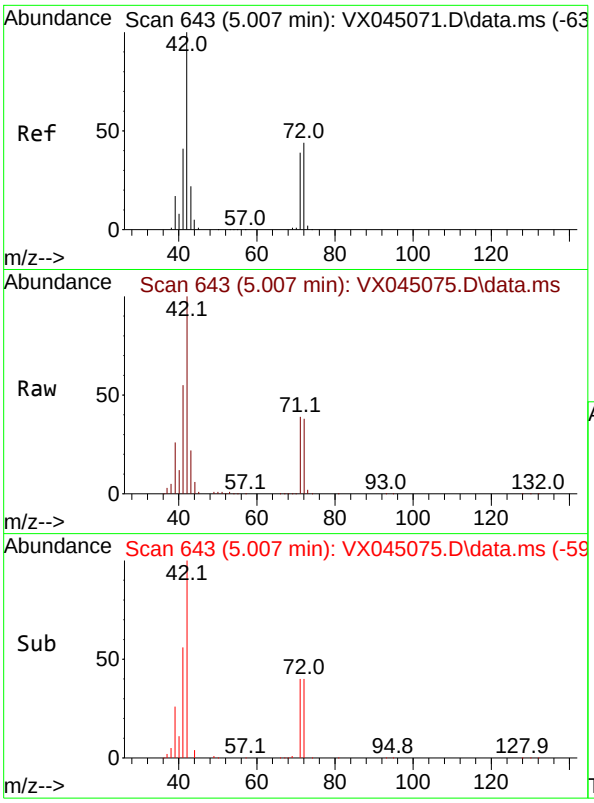


#28
Bromochloromethane
Concen: 50.399 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 49 Resp: 60849

Ion	Ratio	Lower	Upper
49	100		
129	1.7	0.0	3.4
130	70.0	56.1	84.1





#29
Tetrahydrofuran
Concen: 258.277 ug/l
RT: 5.007 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 42 Resp: 19576

Ion	Ratio	Lower	Upper
42	100		
72	42.0	34.1	51.1
71	38.9	31.4	47.0

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

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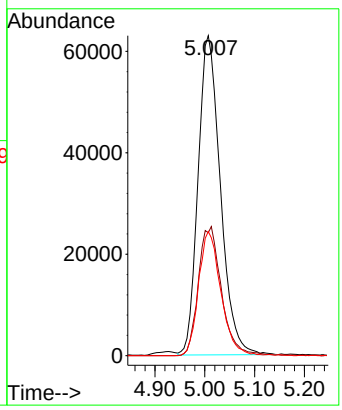
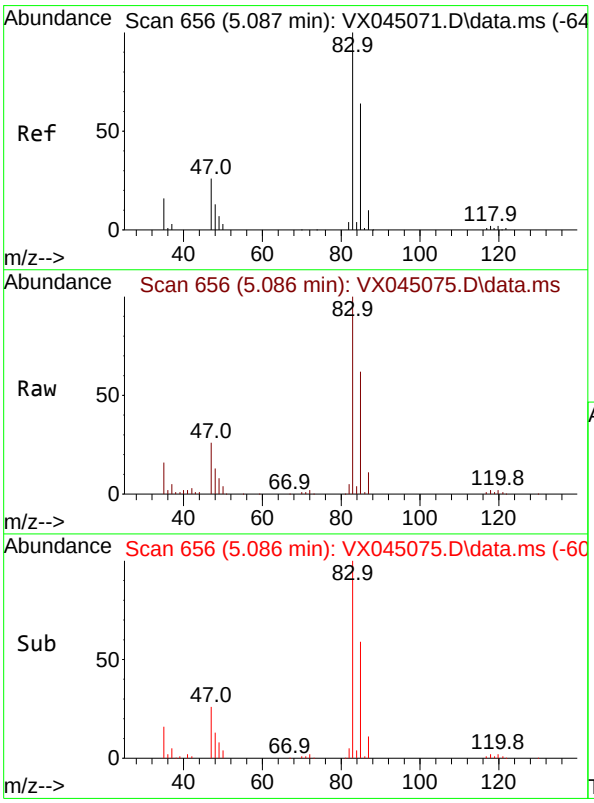
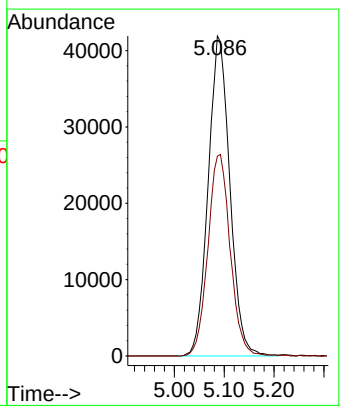


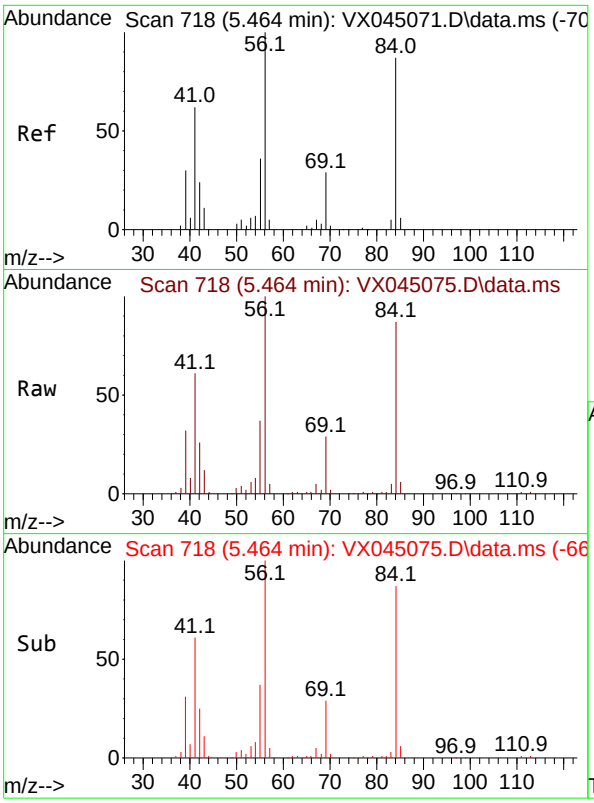


#30
Chloroform
Concen: 50.236 ug/l
RT: 5.086 min Scan# 656
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 83 Resp: 126437

Ion	Ratio	Lower	Upper
83	100		
85	62.4	51.4	77.2





#31
Cyclohexane
Concen: 50.158 ug/l
RT: 5.464 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

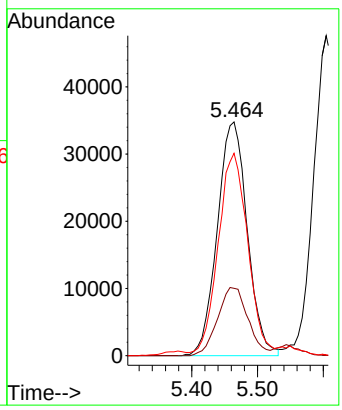
Tgt Ion: 56 Resp: 11028

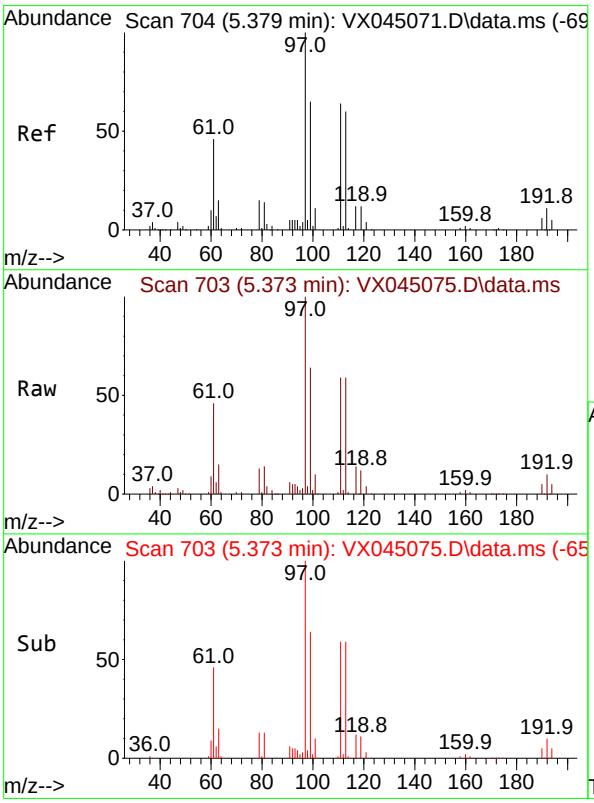
Ion	Ratio	Lower	Upper
56	100		
69	28.8	23.4	35.2
84	84.6	69.4	104.2

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

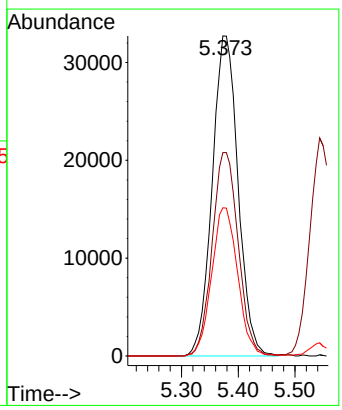


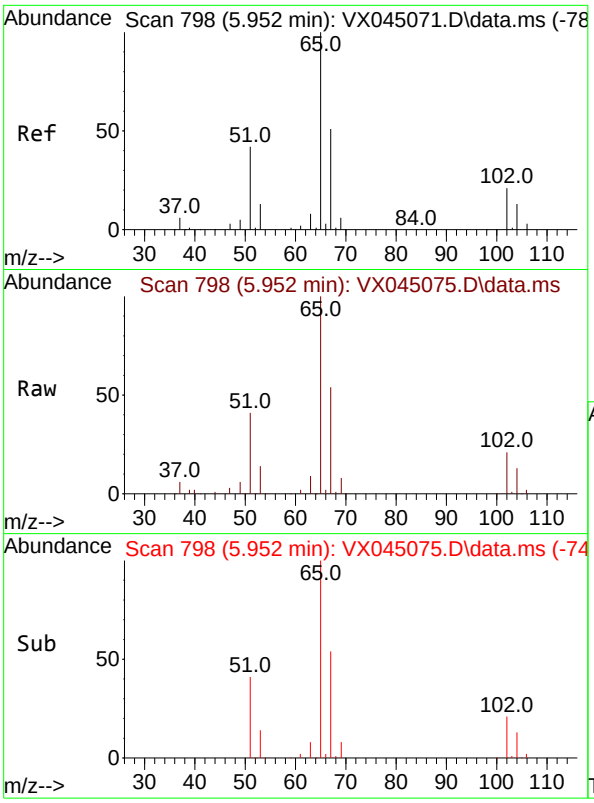


#32
1,1,1-Trichloroethane
Concen: 50.939 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.006 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 97 Resp: 103546

Ion	Ratio	Lower	Upper
97	100		
99	64.0	51.6	77.4
61	46.7	38.4	57.6





#33
1,2-Dichloroethane-d4
Concen: 50.297 ug/l
RT: 5.952 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 65 Resp: 8128

Ion	Ratio	Lower	Upper
65	100		
67	53.1	0.0	106.2

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

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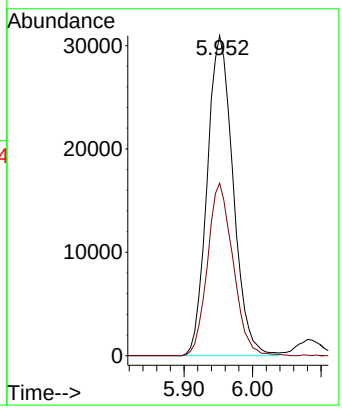
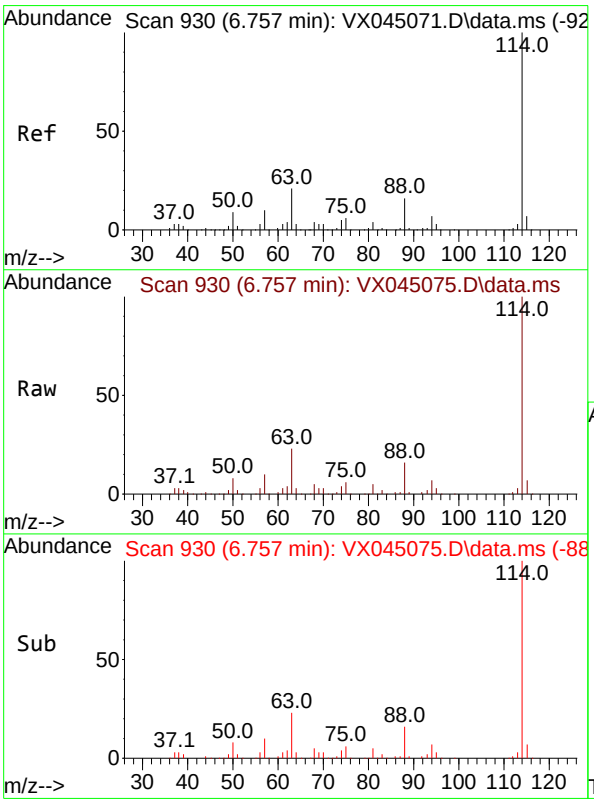
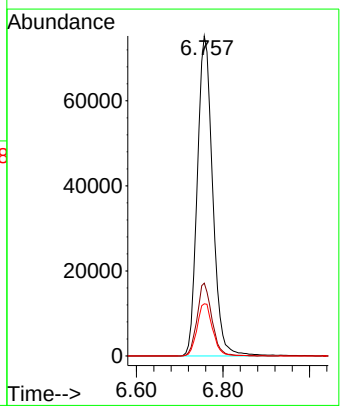


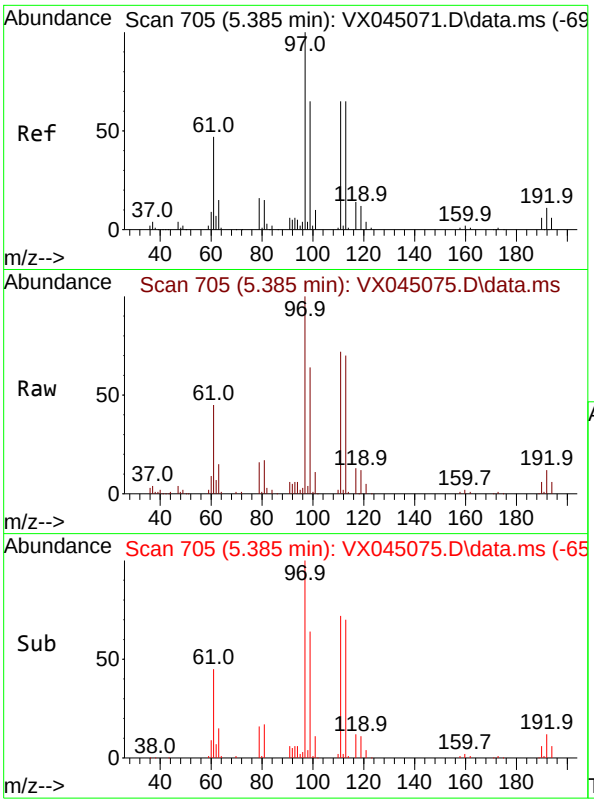


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:114 Resp: 184964

Ion	Ratio	Lower	Upper
114	100		
63	22.7	0.0	41.8
88	16.3	0.0	32.8





#35
Dibromofluoromethane
Concen: 50.841 ug/l
RT: 5.385 min Scan# 7(
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:113 Resp: 6288(

Ion	Ratio	Lower	Upper
113	100		
111	102.6	81.8	122.6
192	17.8	14.3	21.5

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations
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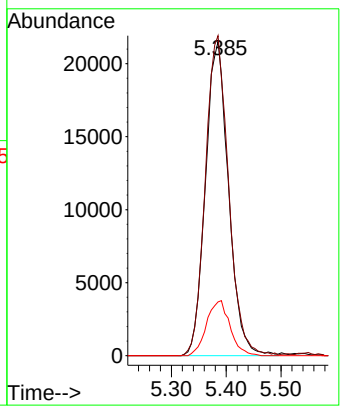
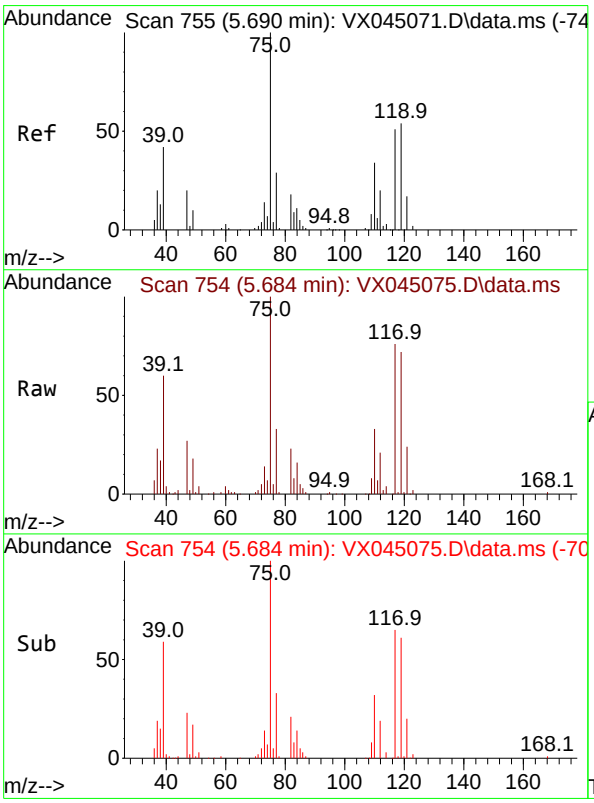
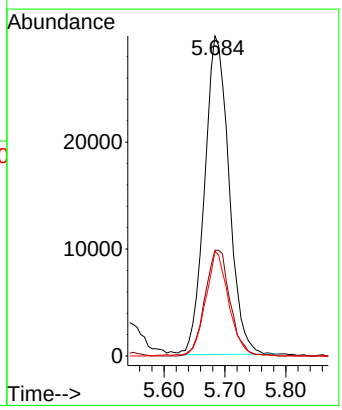


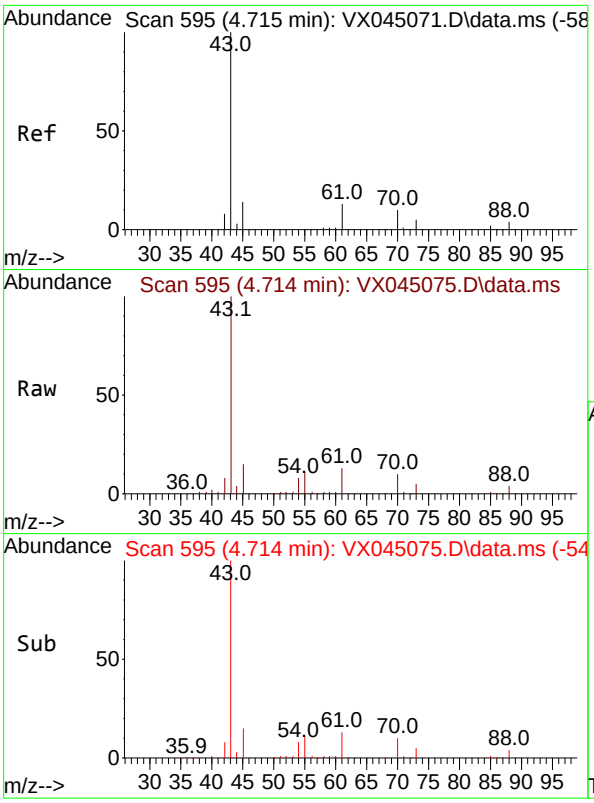


#36
1,1-Dichloropropene
Concen: 48.770 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 75 Resp: 82722

Ion	Ratio	Lower	Upper
75	100		
110	34.3	16.9	50.6
77	31.2	24.5	36.7





#37
Ethyl Acetate
Concen: 51.596 ug/l
RT: 4.714 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 43 Resp: 11276

Ion	Ratio	Lower	Upper
43	100		
61	13.3	10.8	16.2
70	10.1	7.7	11.5

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations
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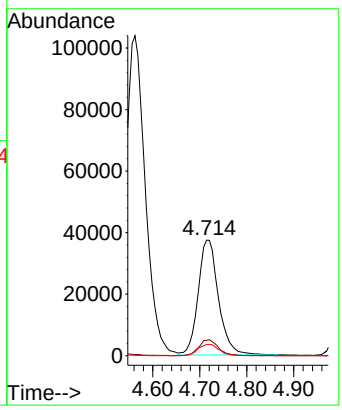
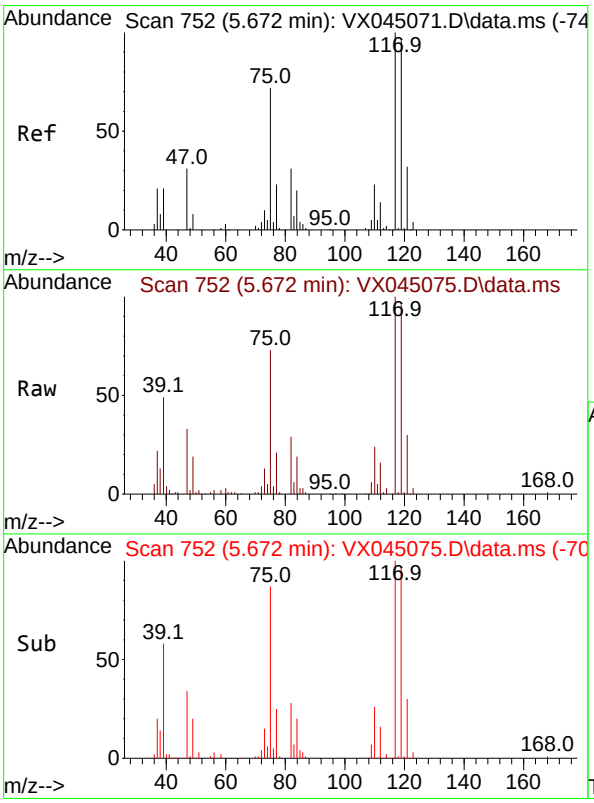
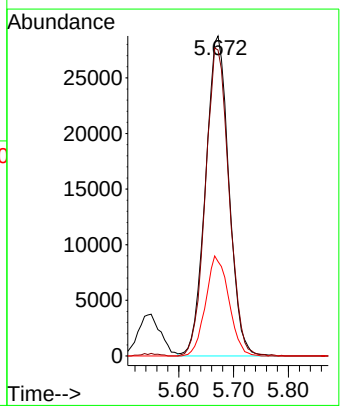


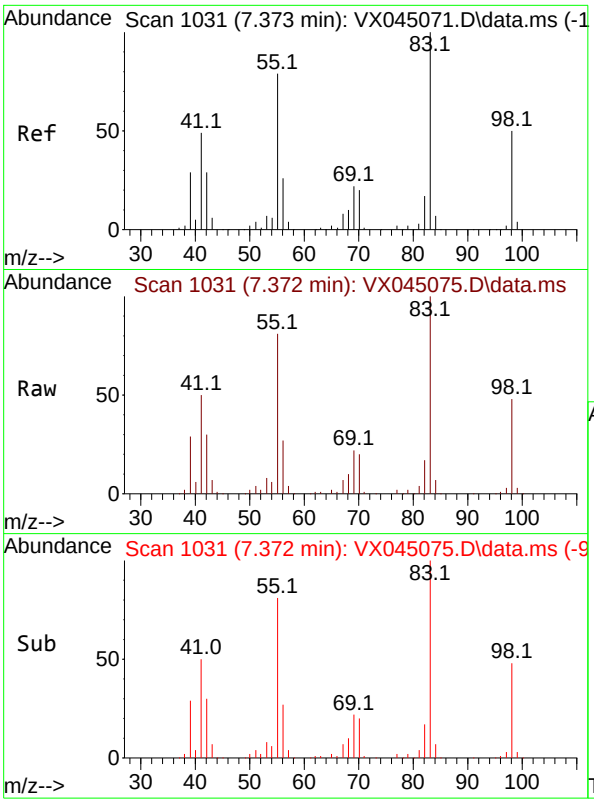


#38
Carbon Tetrachloride
Concen: 49.425 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:117 Resp: 85110

Ion	Ratio	Lower	Upper
117	100		
119	95.6	76.7	115.1
121	29.5	25.5	38.3





#39
Methylcyclohexane
Concen: 51.169 ug/l
RT: 7.372 min Scan# 1(
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 83 Resp: 10399(

Ion	Ratio	Lower	Upper
83	100		
55	80.7	63.0	94.4
98	47.9	39.7	59.5

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
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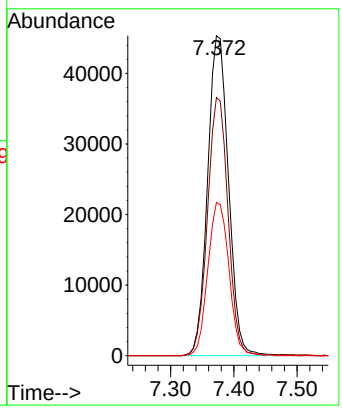
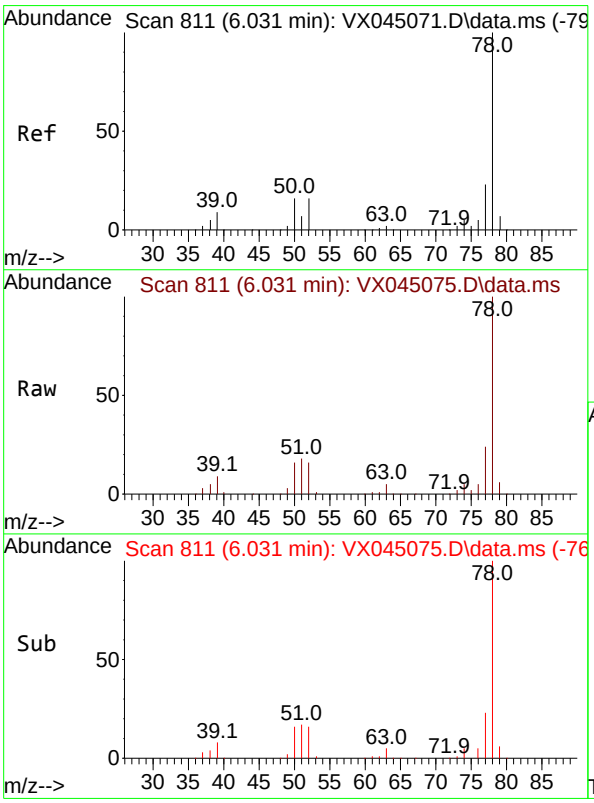
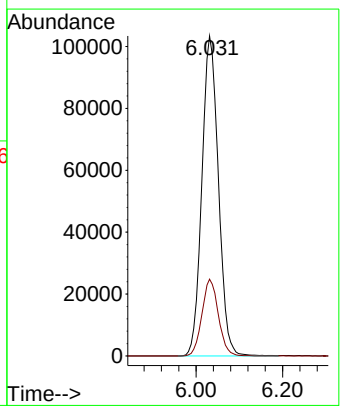


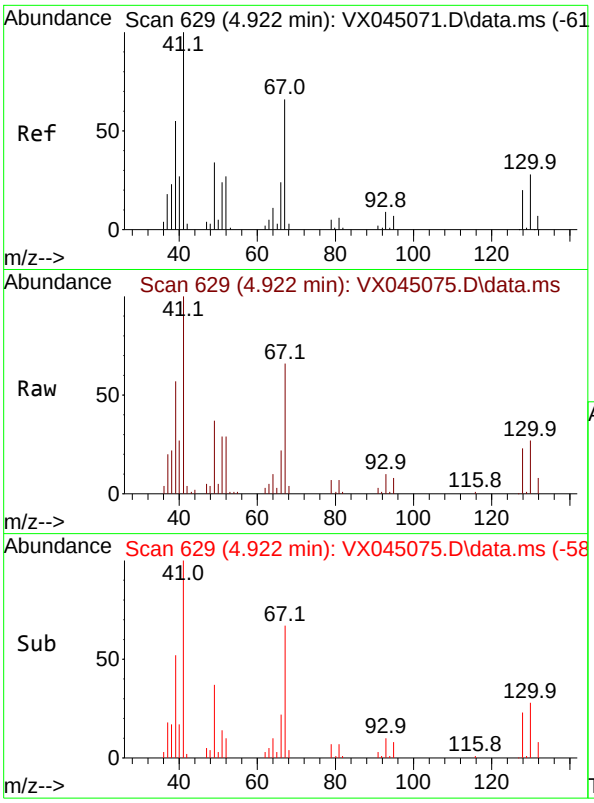


#40
Benzene
Concen: 51.195 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 78 Resp: 274206

Ion	Ratio	Lower	Upper
78	100		
77	24.0	18.8	28.2





#41
Methacrylonitrile
Concen: 53.352 ug/l
RT: 4.922 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

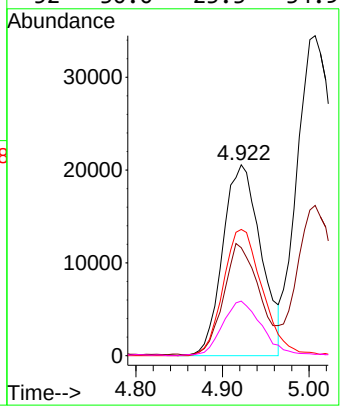
Tgt Ion: 41 Resp: 6305

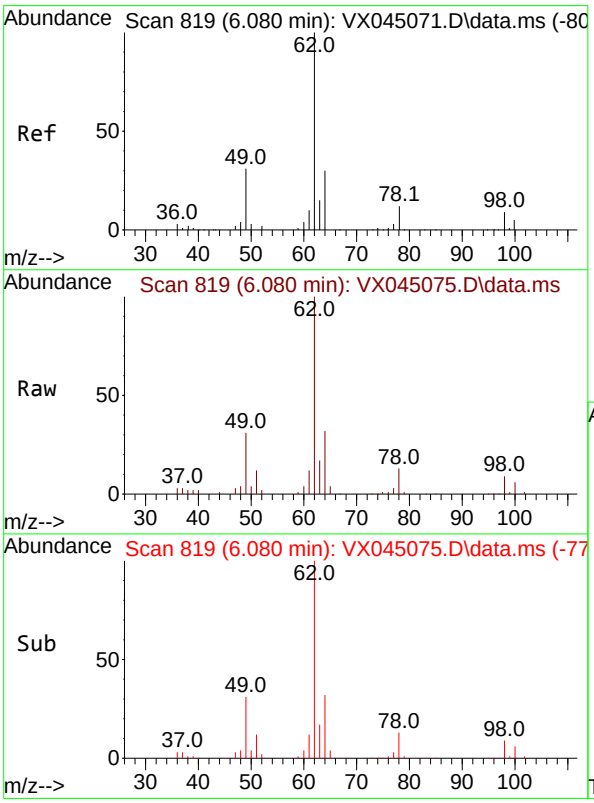
Ion	Ratio	Lower	Upper
41	100		
39	55.0	44.6	67.0
67	68.1	53.9	80.9
52	30.0	23.3	34.9

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

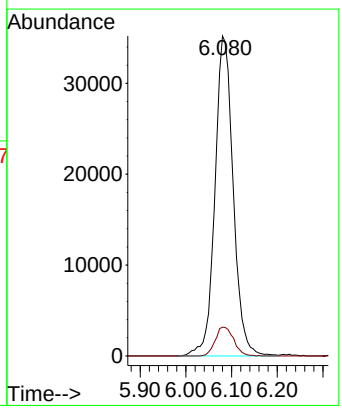


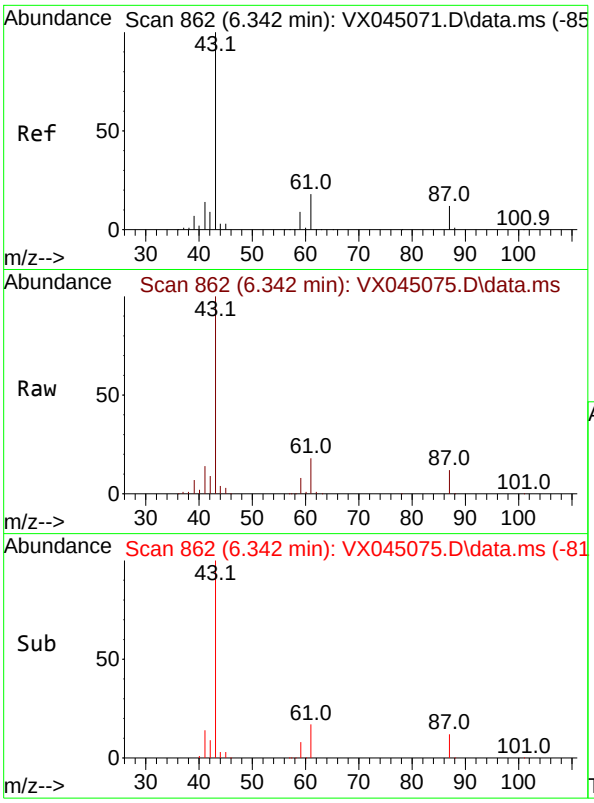


#42
1,2-Dichloroethane
Concen: 50.718 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 62 Resp: 97821

Ion	Ratio	Lower	Upper
62	100		
98	9.1	0.0	18.2





#43
Isopropyl Acetate
Concen: 54.452 ug/l
RT: 6.342 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 43 Resp: 17598

Ion	Ratio	Lower	Upper
43	100		
61	18.5	14.9	22.3
87	11.8	9.4	14.2

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations APPROVED

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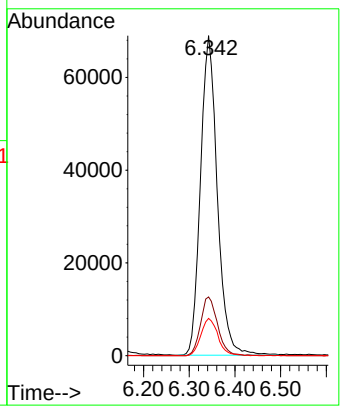
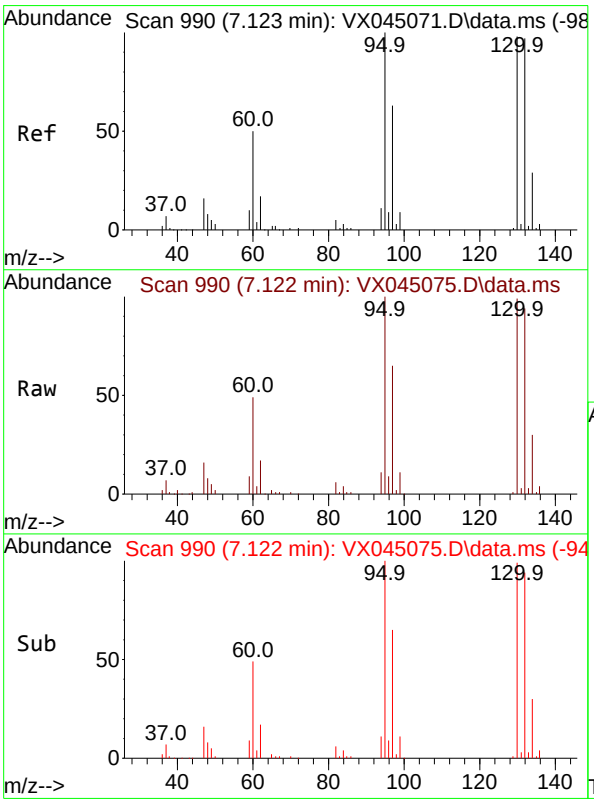
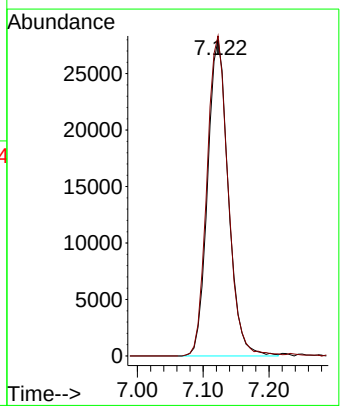


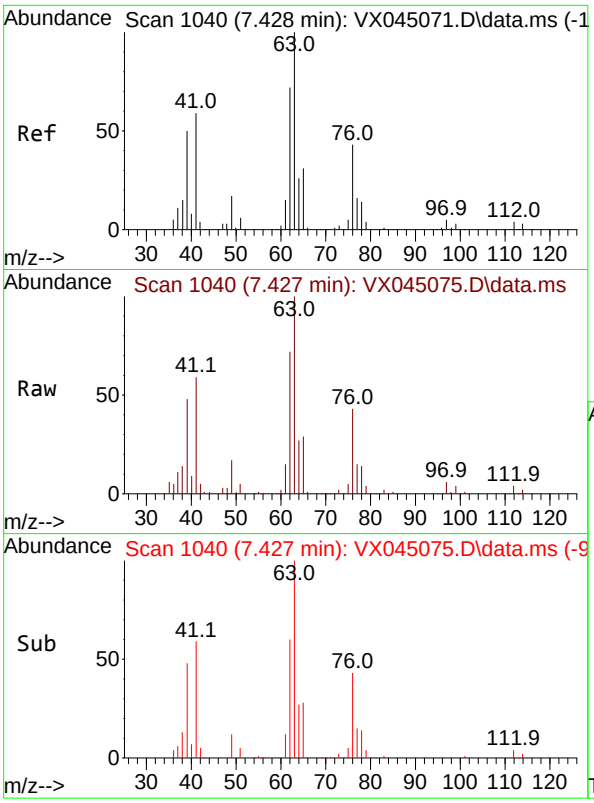


#44
Trichloroethene
Concen: 48.924 ug/l
RT: 7.122 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:130 Resp: 61530

Ion	Ratio	Lower	Upper
130	100		
95	101.1	0.0	205.0





#45
1,2-Dichloropropane
Concen: 51.086 ug/l
RT: 7.427 min Scan# 1(
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 63 Resp: 7035(

Ion	Ratio	Lower	Upper
63	100		
65	29.2	24.7	37.1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations
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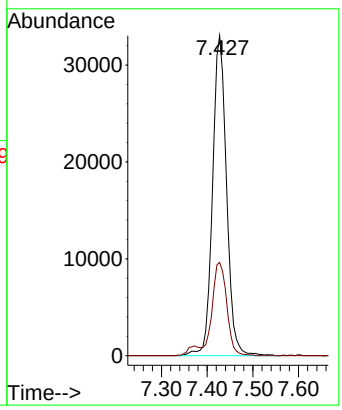
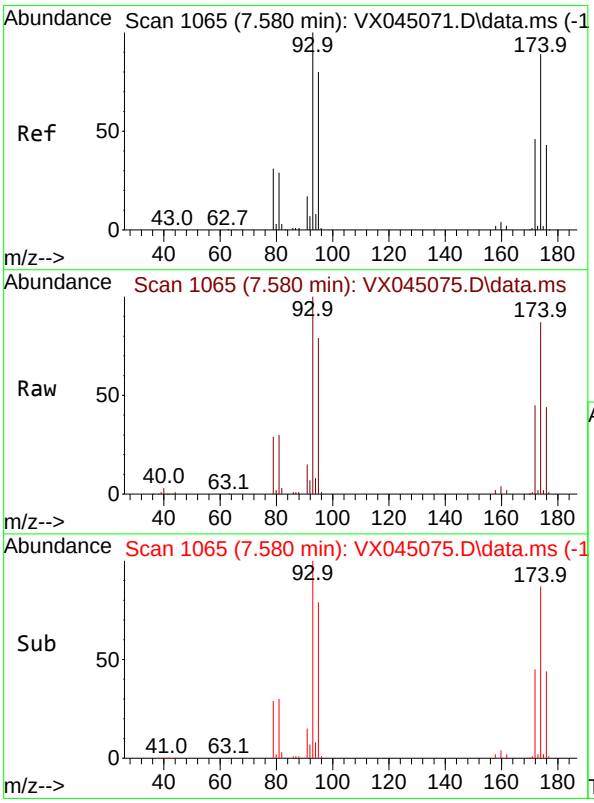
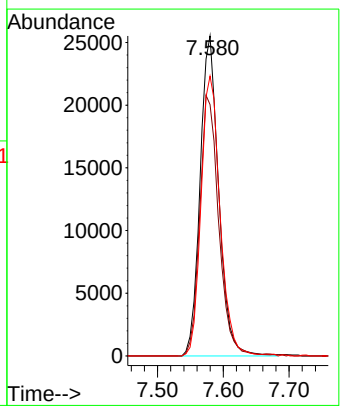


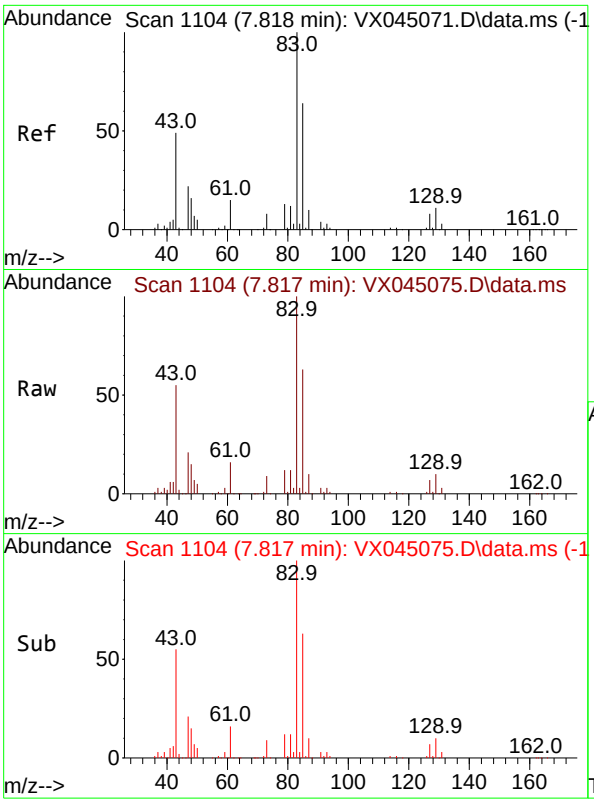


#46
Dibromomethane
Concen: 51.661 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 93 Resp: 50284

Ion	Ratio	Lower	Upper
93	100		
95	82.8	65.8	98.8
174	89.4	72.2	108.2





#47
Bromodichloromethane
Concen: 50.930 ug/l
RT: 7.817 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 83 Resp: 9723

Ion	Ratio	Lower	Upper
83	100		
85	63.0	51.1	76.7
127	7.4	6.4	9.6

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations
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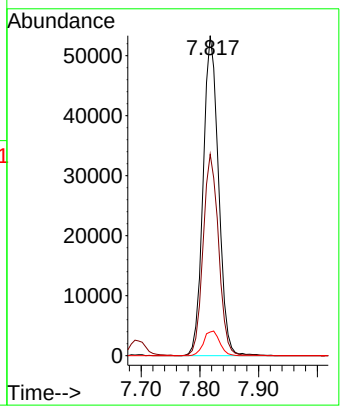
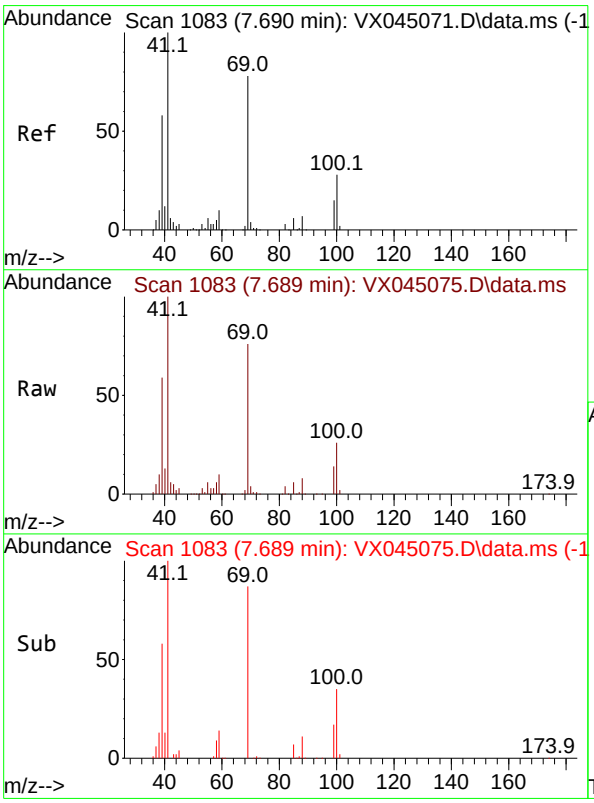
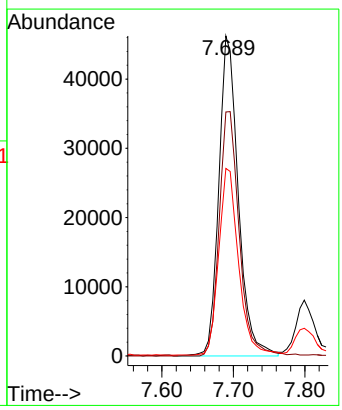


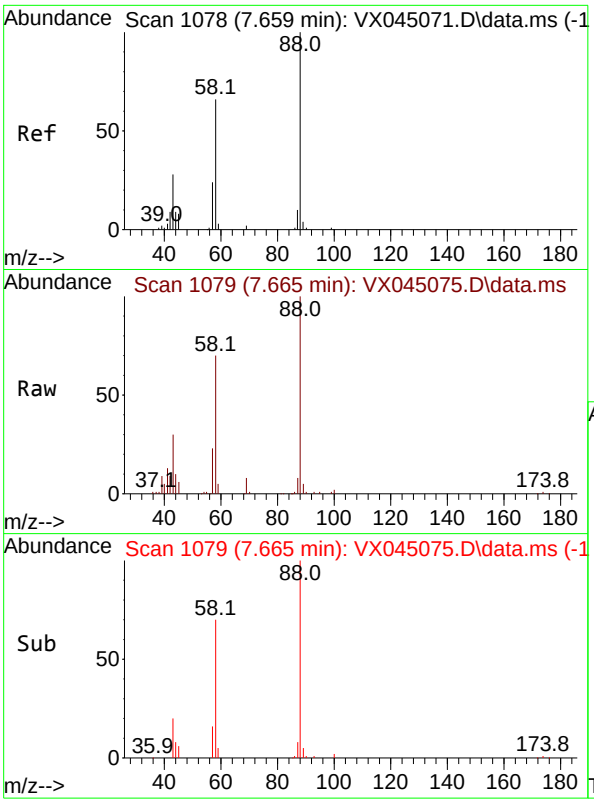


#48
Methyl methacrylate
Concen: 54.016 ug/l
RT: 7.689 min Scan# 1083
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 41 Resp: 87582

Ion	Ratio	Lower	Upper
41	100		
69	78.5	63.0	94.6
39	59.4	47.5	71.3





#49
1,4-Dioxane
Concen: 1049.007 ug/l
RT: 7.665 min Scan# 1(
Delta R.T. 0.006 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 88 Resp: 3587

Ion	Ratio	Lower	Upper
88	100		
43	34.3	28.7	43.1
58	70.8	55.8	83.8

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations
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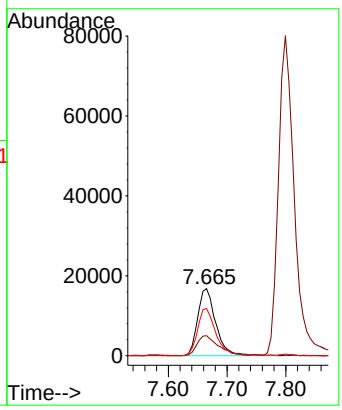
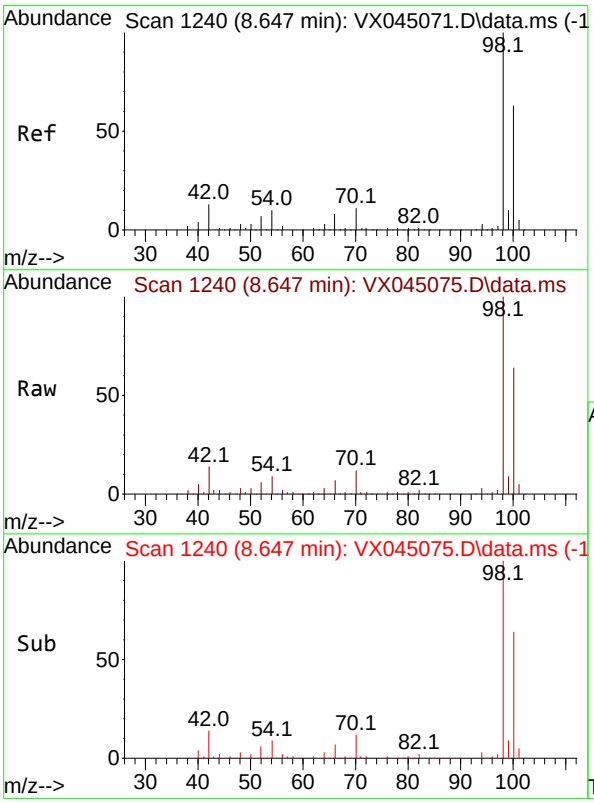
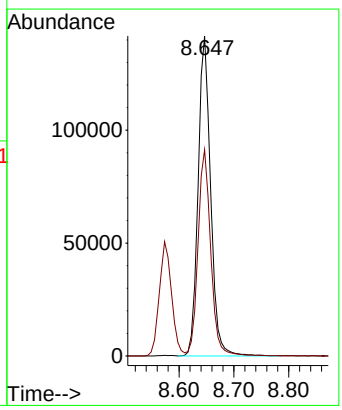


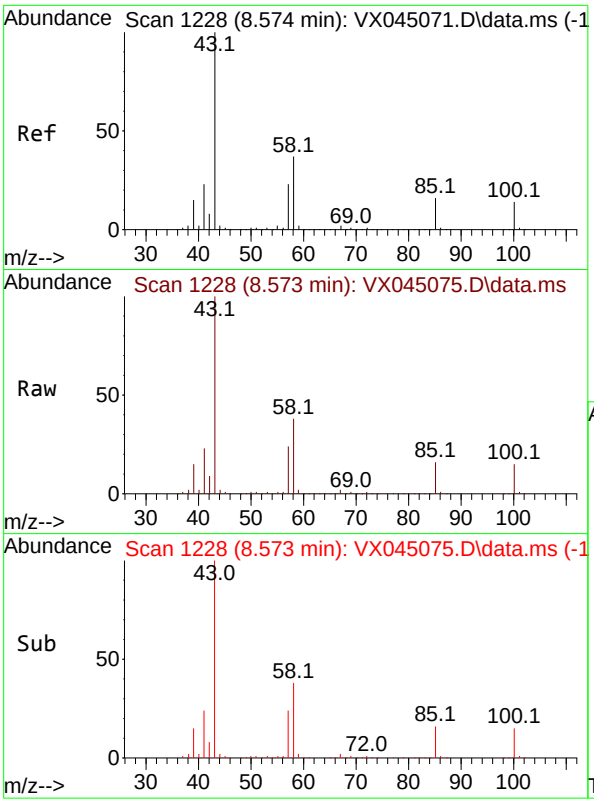


#50
Toluene-d8
Concen: 50.364 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 98 Resp: 225823

Ion	Ratio	Lower	Upper
98	100		
100	65.6	52.0	78.0





#51
4-Methyl-2-Pentanone
Concen: 259.995 ug/l
RT: 8.573 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 43 Resp: 5641

Ion	Ratio	Lower	Upper
43	100		
58	37.3	29.2	43.8

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations
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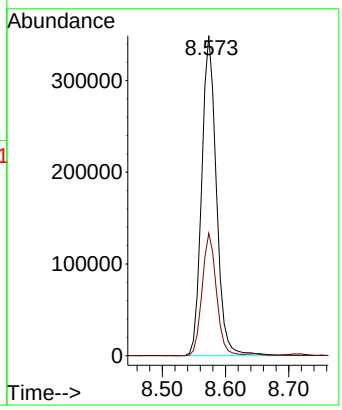
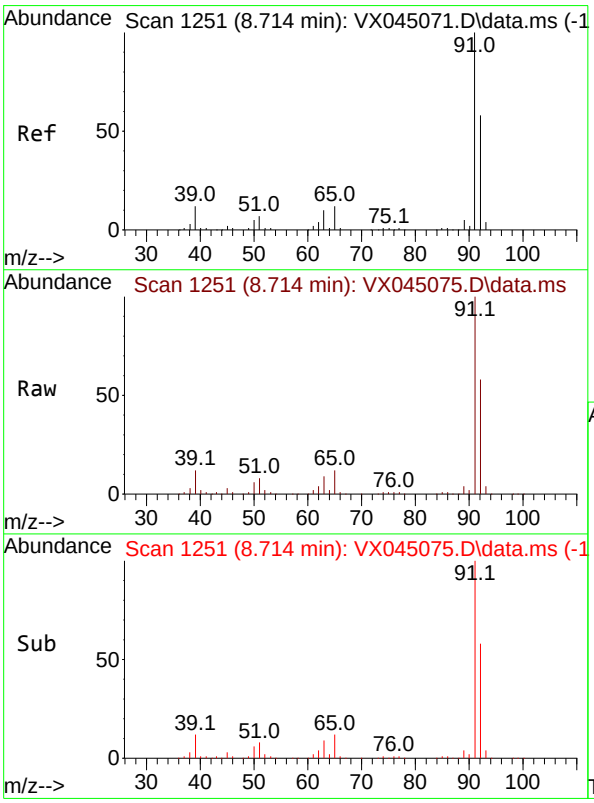
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

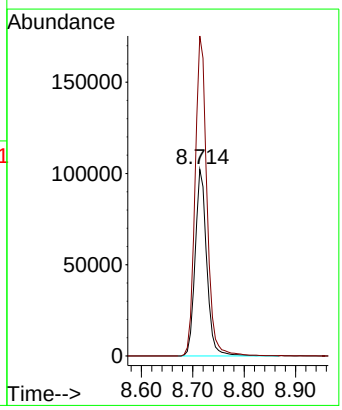


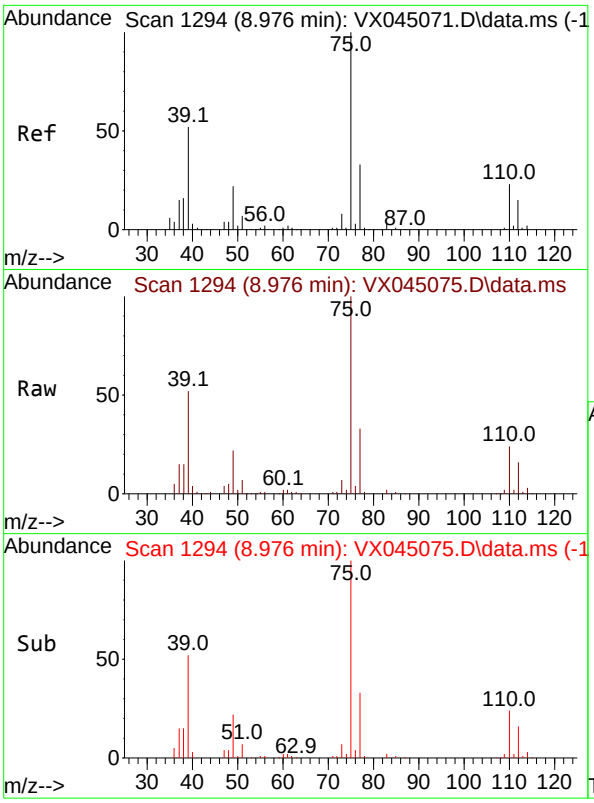


#52
Toluene
Concen: 51.020 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 92 Resp: 160331

Ion	Ratio	Lower	Upper
92	100		
91	175.1	138.9	208.3





#53
t-1,3-Dichloropropene
Concen: 54.247 ug/l
RT: 8.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 75 Resp: 8658

Ion	Ratio	Lower	Upper
75	100		
77	32.7	26.5	39.7

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations
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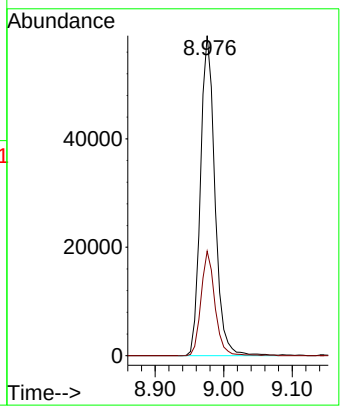
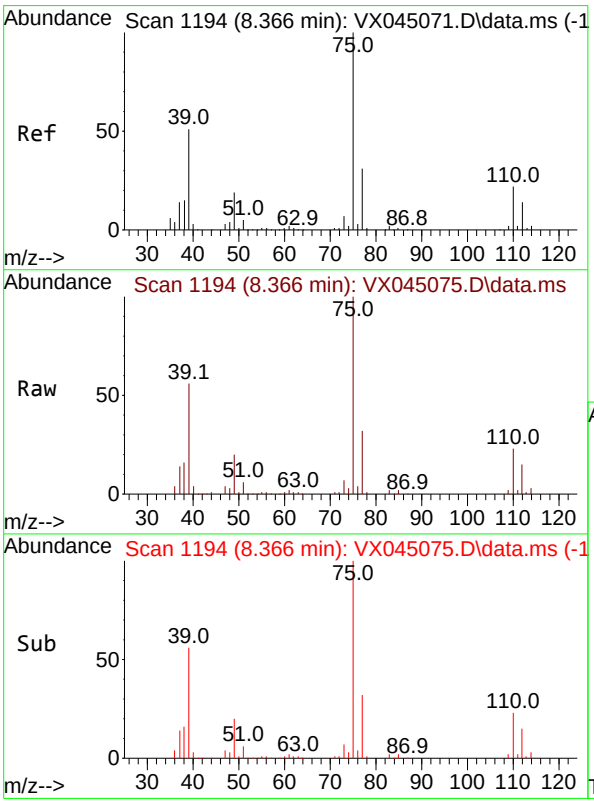
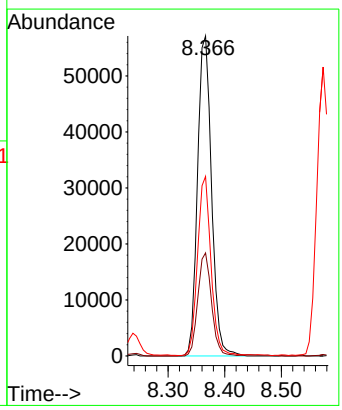


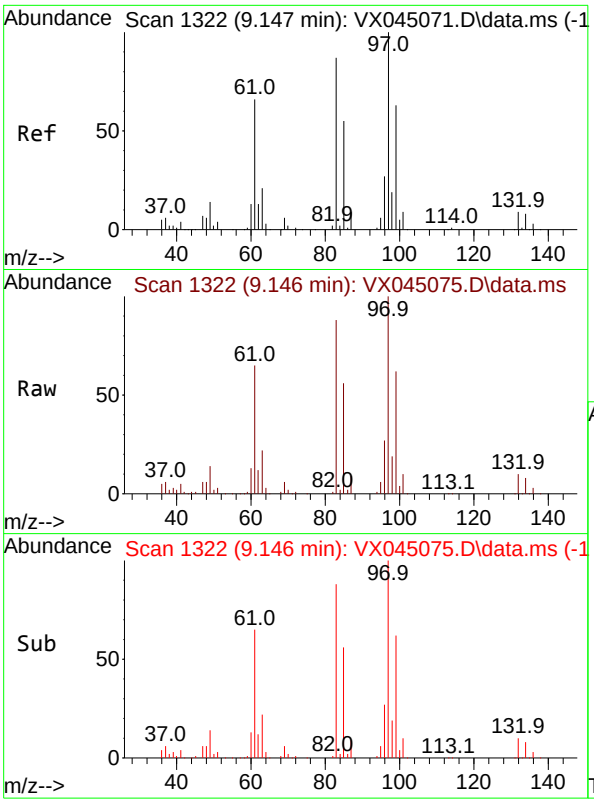


#54
cis-1,3-Dichloropropene
Concen: 52.732 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 75 Resp: 98146

Ion	Ratio	Lower	Upper
75	100		
77	32.2	24.7	37.1
39	56.0	40.7	61.1

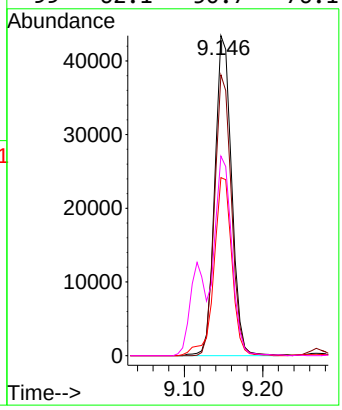




#55
1,1,2-Trichloroethane
Concen: 50.232 ug/l
RT: 9.146 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 97 Resp: 6498

Ion	Ratio	Lower	Upper
97	100		
83	87.8	69.4	104.2
85	55.6	44.1	66.1
99	62.1	50.7	76.1



Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations
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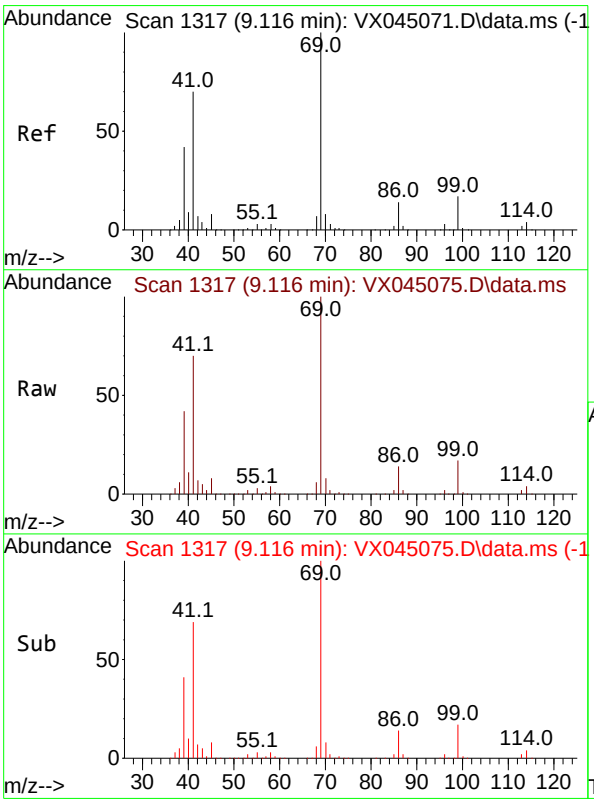
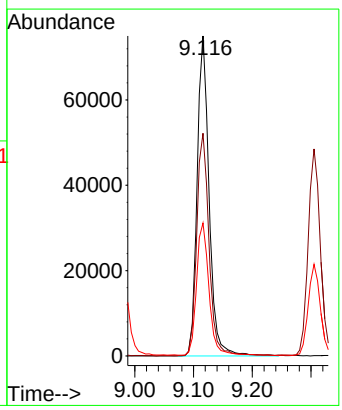
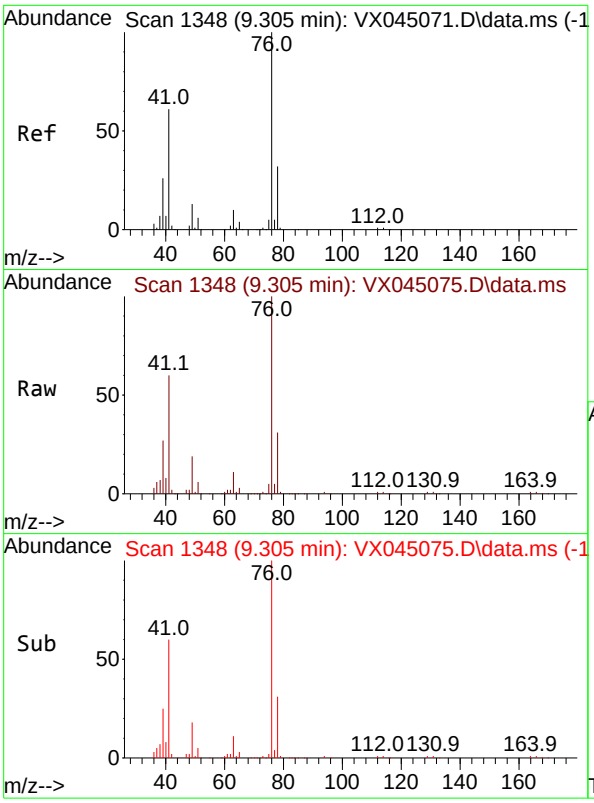


#56
Ethyl methacrylate
Concen: 54.109 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 69 Resp: 106405

Ion	Ratio	Lower	Upper
69	100		
41	71.5	57.0	85.4
39	43.2	34.2	51.4





#57
1,3-Dichloropropane
Concen: 51.312 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 76 Resp: 11488

Ion	Ratio	Lower	Upper
76	100		
78	32.5	25.5	38.3

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations
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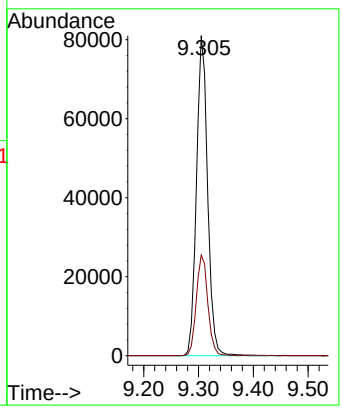
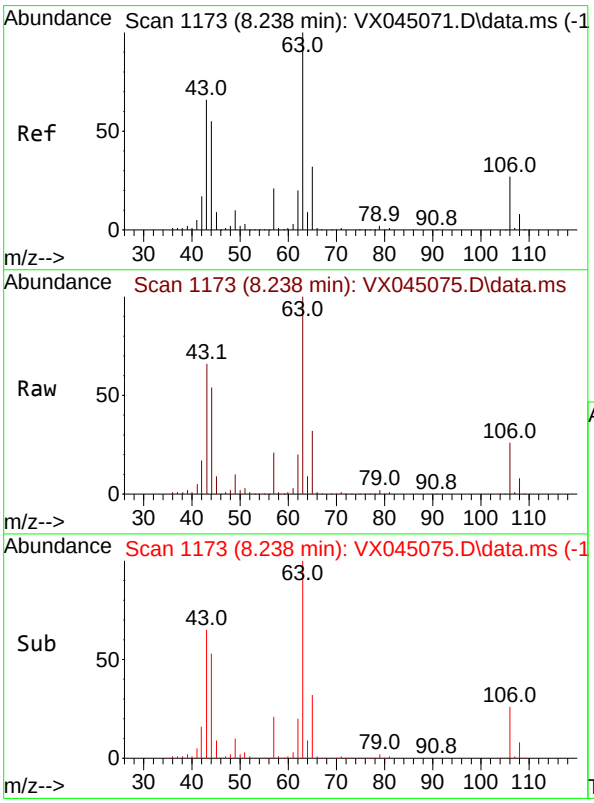
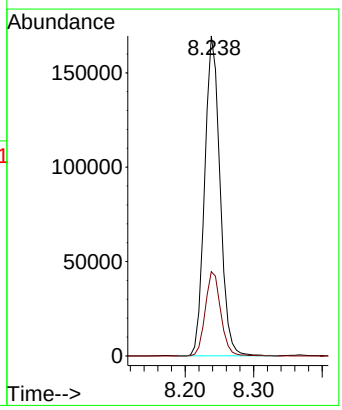


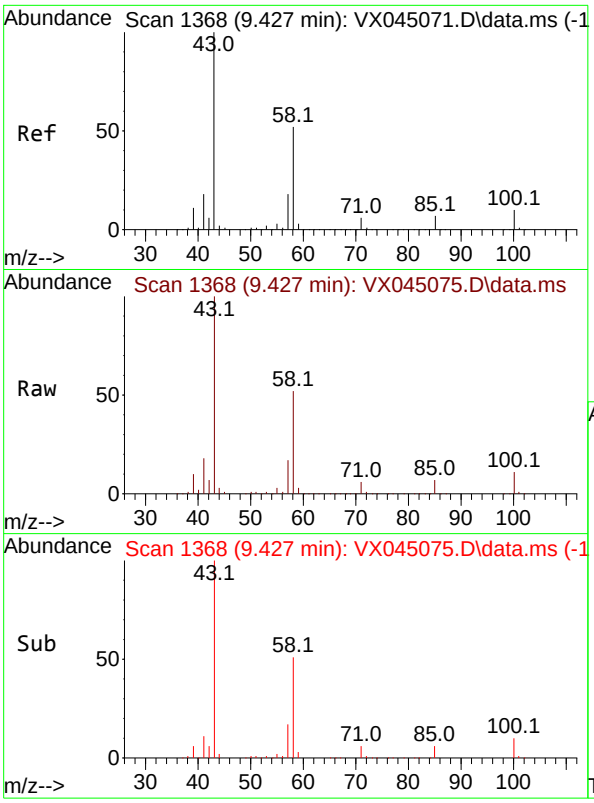


#58
2-Chloroethyl Vinyl ether
Concen: 275.557 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 63 Resp: 264335

Ion	Ratio	Lower	Upper
63	100		
106	26.5	21.5	32.3





#59
2-Hexanone
Concen: 265.049 ug/l
RT: 9.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 43 Resp: 41673

Ion	Ratio	Lower	Upper
43	100		
58	52.2	25.9	77.6

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations
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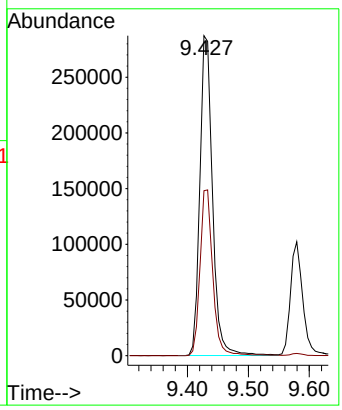
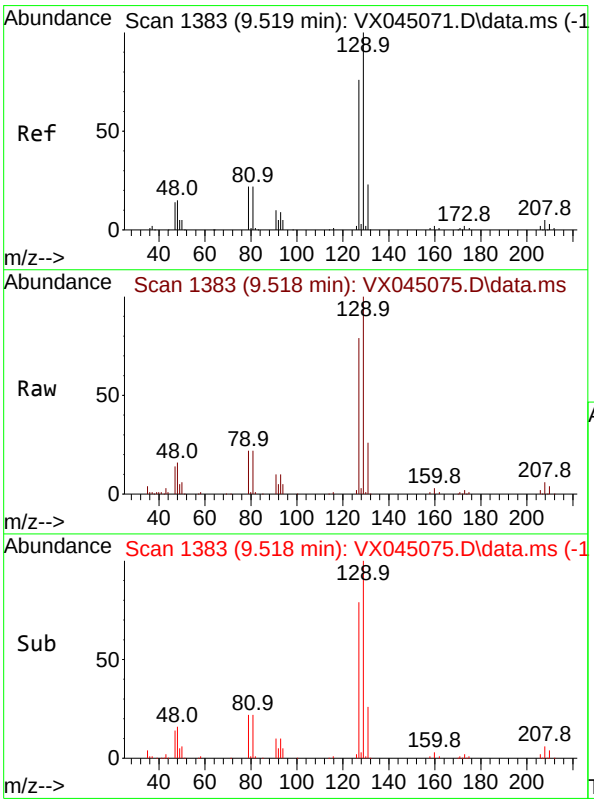
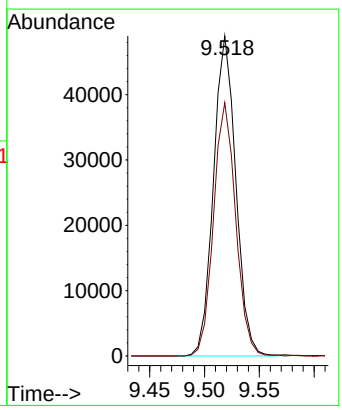


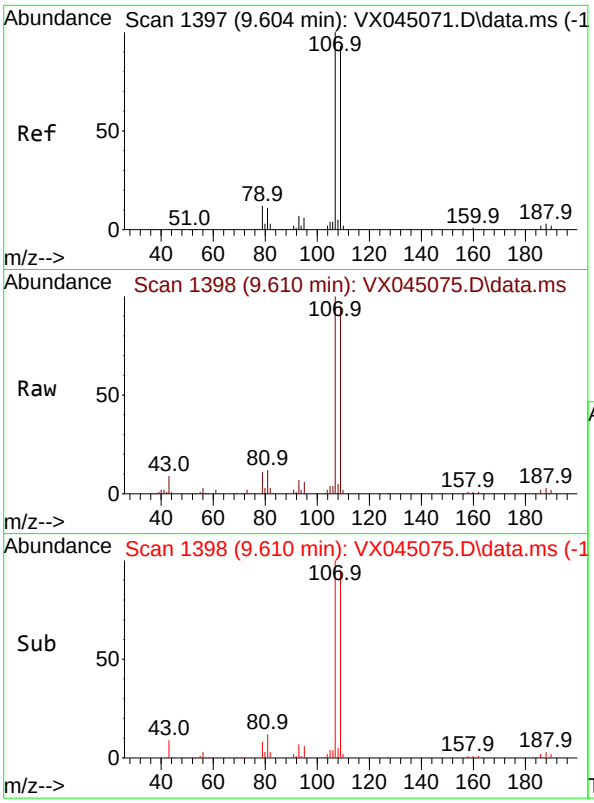


#60
Dibromochloromethane
Concen: 51.374 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:129 Resp: 69492

Ion	Ratio	Lower	Upper
129	100		
127	78.6	38.5	115.5





#61
1,2-Dibromoethane
Concen: 51.492 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:107 Resp: 6650

Ion	Ratio	Lower	Upper
107	100		
109	93.8	76.1	114.1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations
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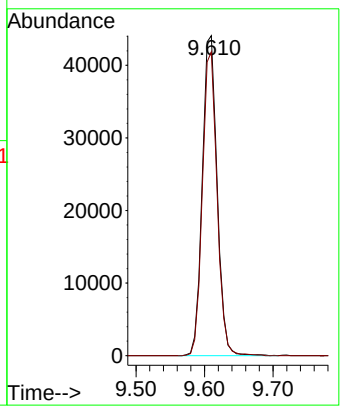
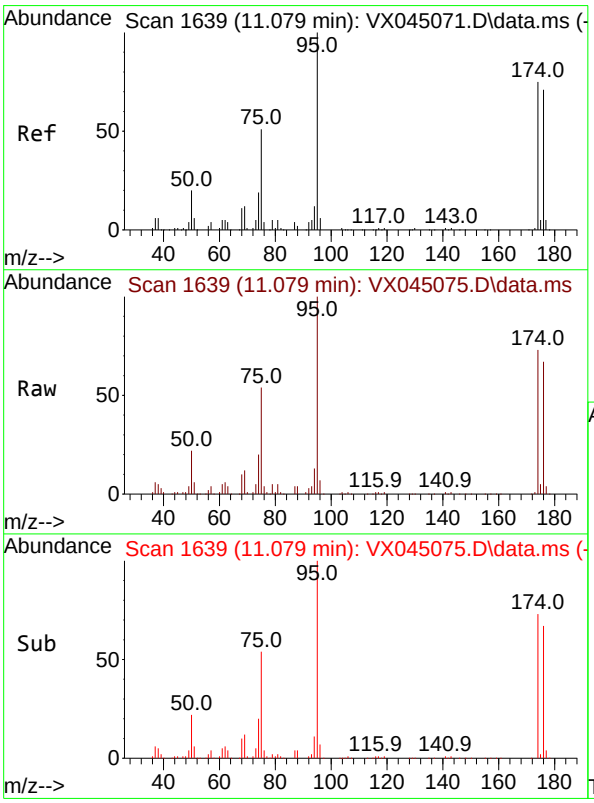
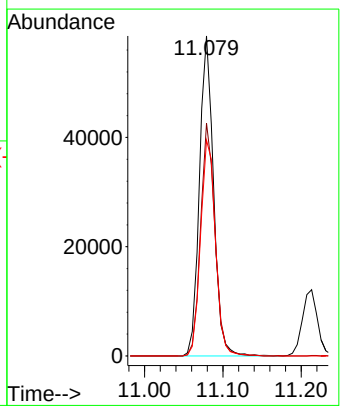


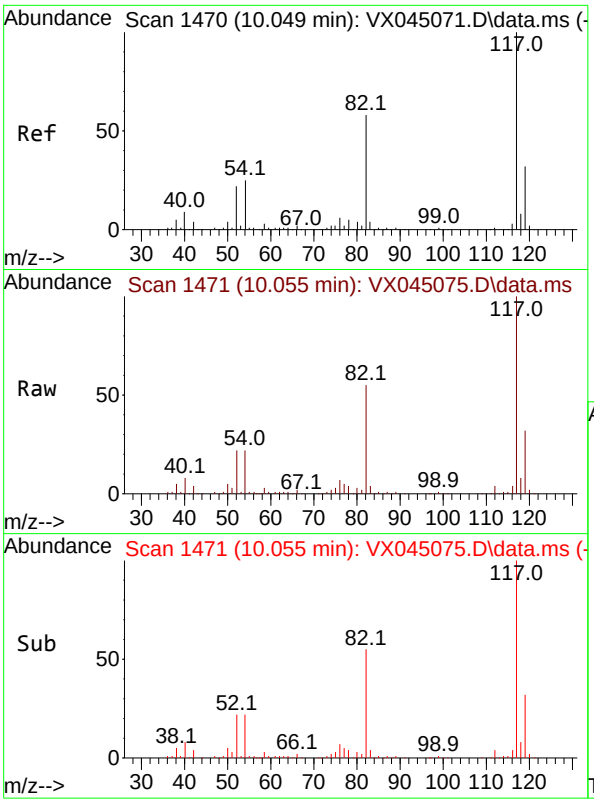


#62
4-Bromofluorobenzene
Concen: 49.240 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 95 Resp: 73162

Ion	Ratio	Lower	Upper
95	100		
174	74.0	0.0	148.2
176	71.3	0.0	141.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:117 Resp: 15779

Ion	Ratio	Lower	Upper
117	100		
82	55.3	46.3	69.5
119	31.9	25.7	38.5

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations
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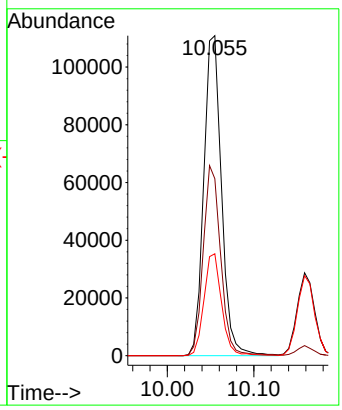
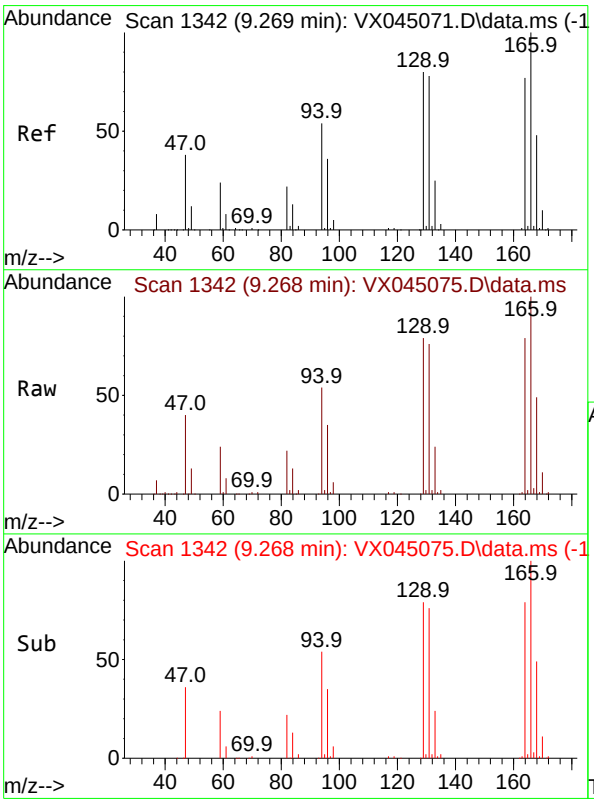
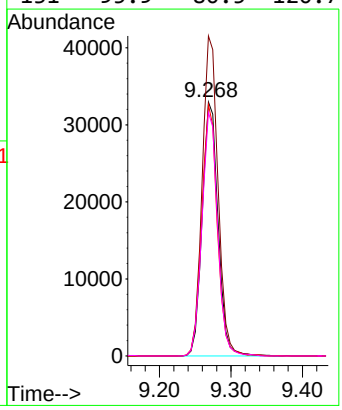


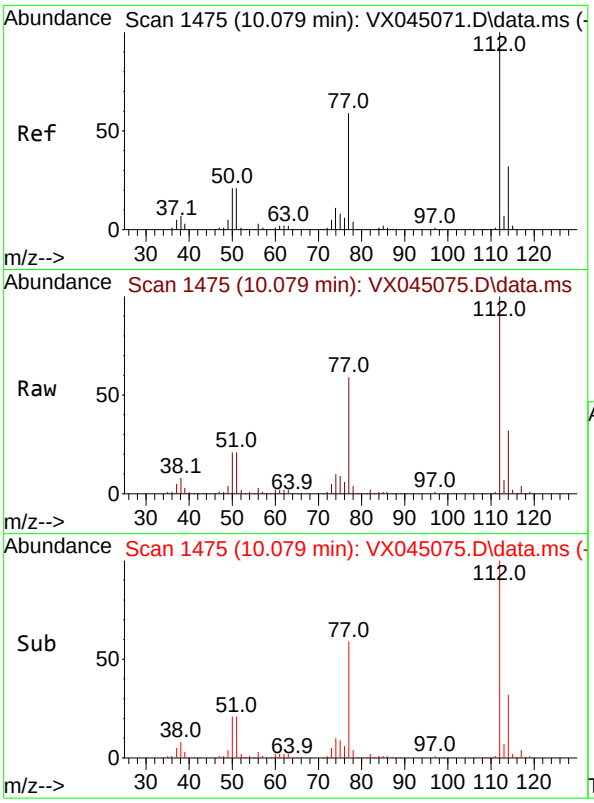


#64
Tetrachloroethene
Concen: 50.126 ug/l
RT: 9.268 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:164 Resp: 50659

Ion	Ratio	Lower	Upper
164	100		
166	126.0	103.6	155.4
129	99.0	82.7	124.1
131	95.9	80.5	120.7





#65
Chlorobenzene
Concen: 50.580 ug/l
RT: 10.079 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:112 Resp: 16888

Ion	Ratio	Lower	Upper
112	100		
114	31.9	26.0	39.0

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

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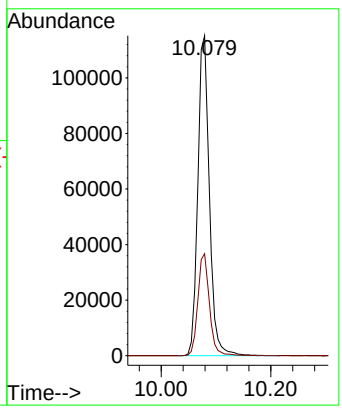
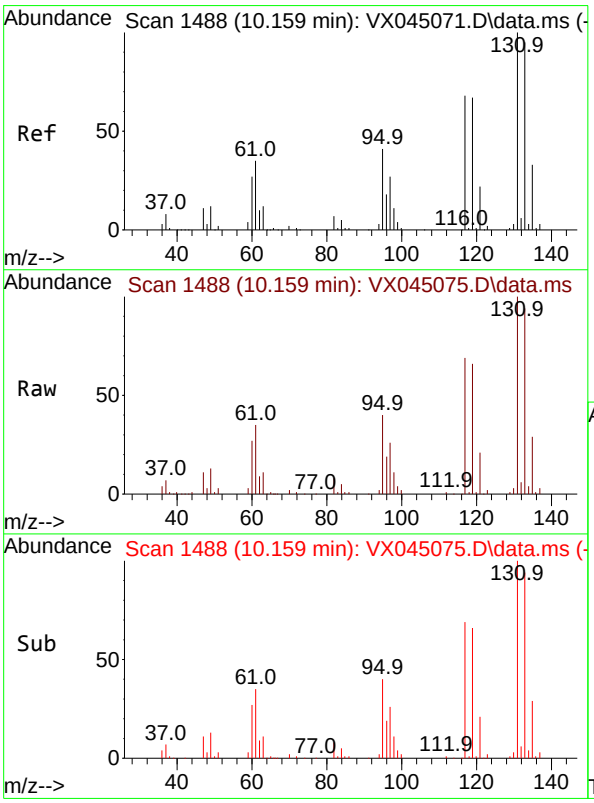
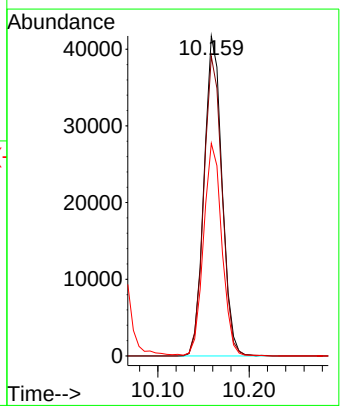


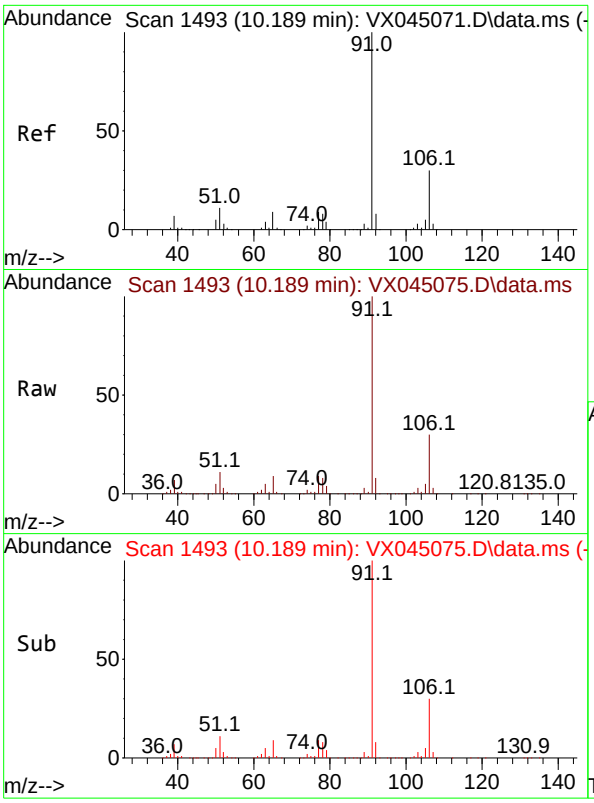


#66
1,1,1,2-Tetrachloroethane
Concen: 51.102 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:131 Resp: 56822

Ion	Ratio	Lower	Upper
131	100		
133	94.9	48.6	145.9
119	67.6	33.9	101.7





#67
Ethyl Benzene
Concen: 51.621 ug/l
RT: 10.189 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 91 Resp: 30032

Ion	Ratio	Lower	Upper
91	100		
106	30.0	23.9	35.9

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations
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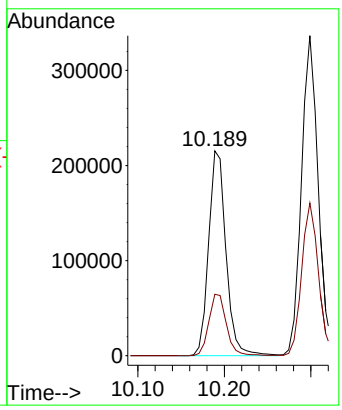
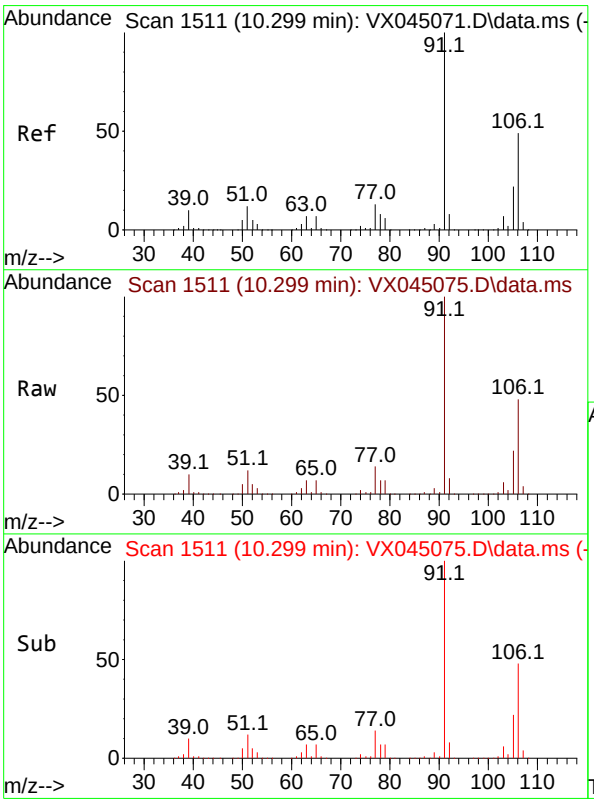
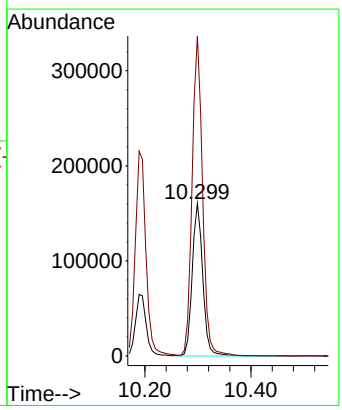


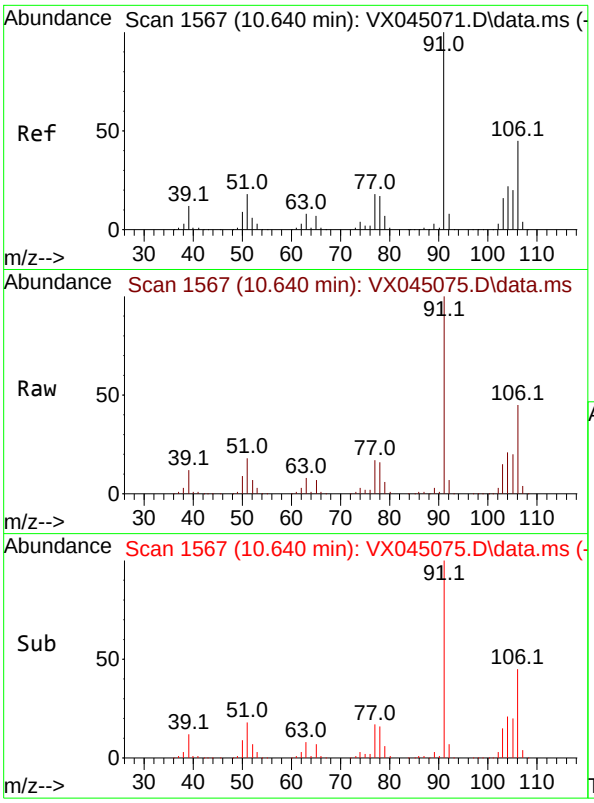


#68
m/p-Xylenes
Concen: 103.454 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:106 Resp: 220335

Ion	Ratio	Lower	Upper
106	100		
91	207.8	165.4	248.0





#69
o-Xylene
Concen: 50.668 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:106 Resp: 10883

Ion	Ratio	Lower	Upper
106	100		
91	220.5	109.9	329.6

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations APPROVED

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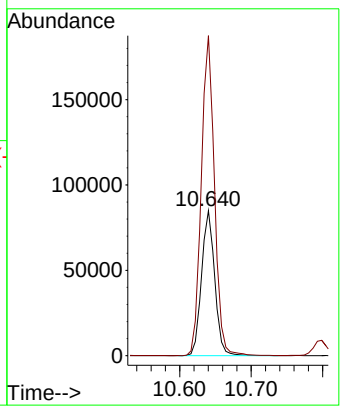
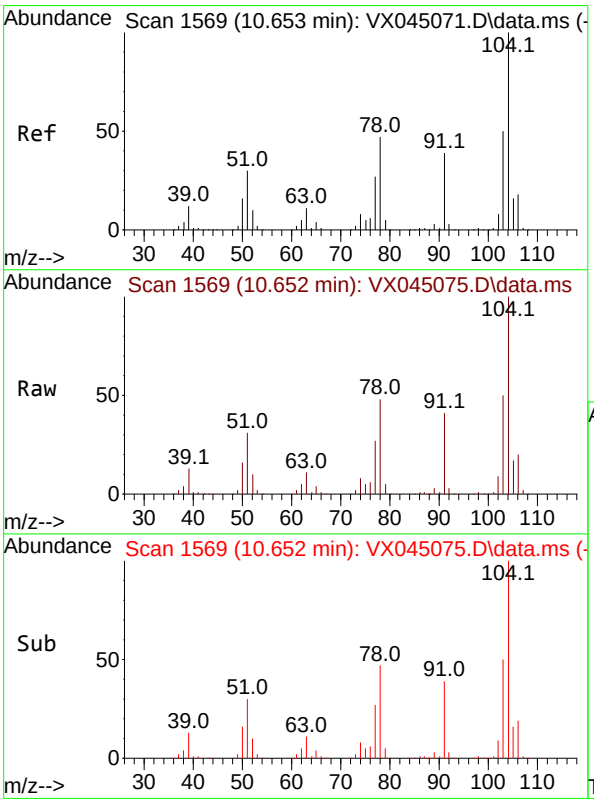
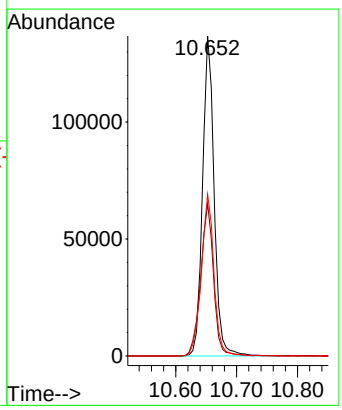


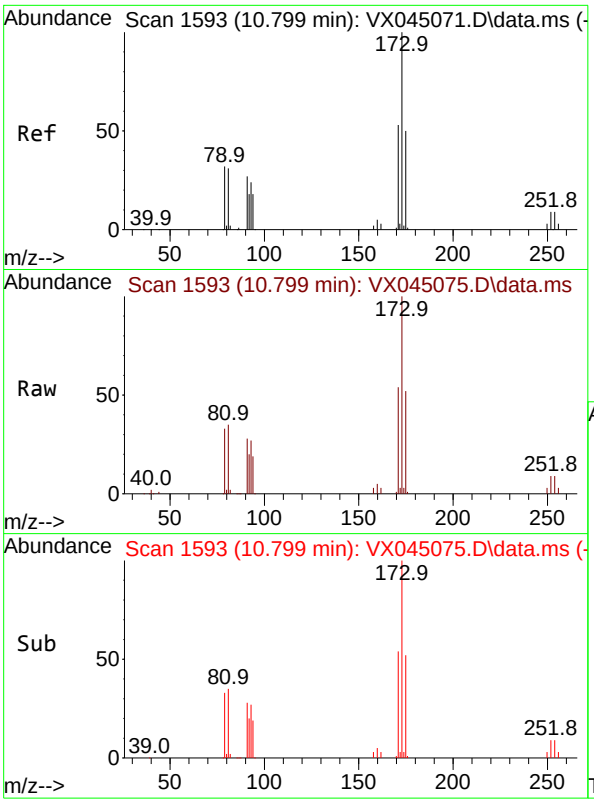


#70
Styrene
Concen: 52.177 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:104 Resp: 181349

Ion	Ratio	Lower	Upper
104	100		
78	52.8	42.2	63.4
103	55.1	43.8	65.8





#71
Bromoform
Concen: 52.636 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:173 Resp: 4413

Ion	Ratio	Lower	Upper
173	100		
175	49.3	24.6	73.6
254	0.0	0.0	0.0

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations
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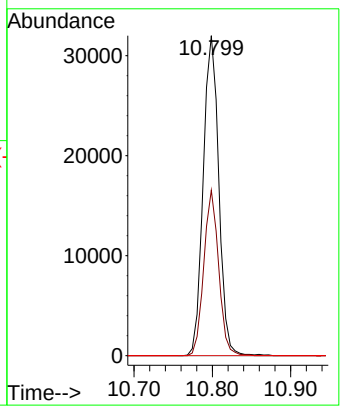
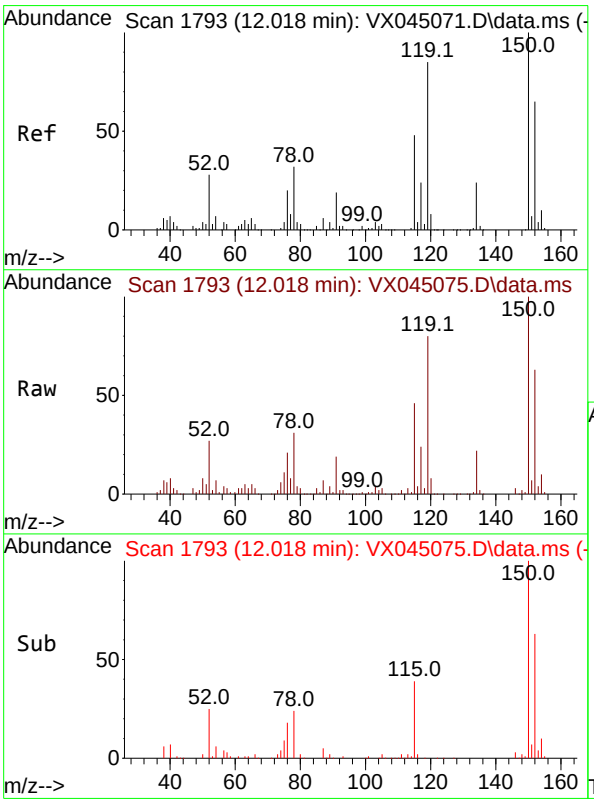
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

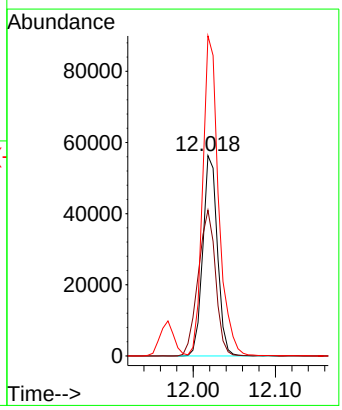


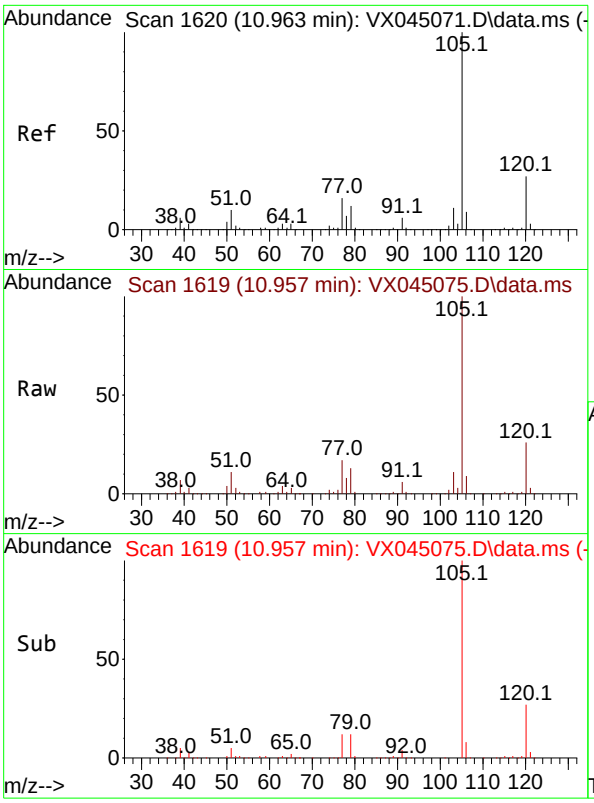


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:152 Resp: 69357

Ion	Ratio	Lower	Upper
152	100		
115	86.9	44.2	132.6
150	174.3	0.0	349.0





#73
Isopropylbenzene
Concen: 51.589 ug/l
RT: 10.957 min Scan# 1(
Delta R.T. -0.006 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:105 Resp: 27927

Ion	Ratio	Lower	Upper
105	100		
120	25.9	13.2	39.5

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations
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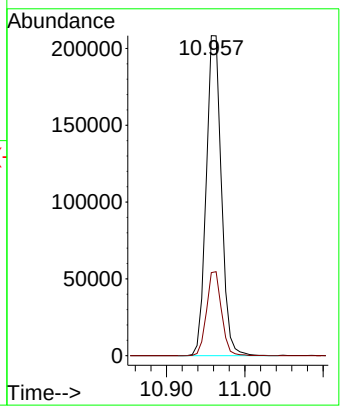
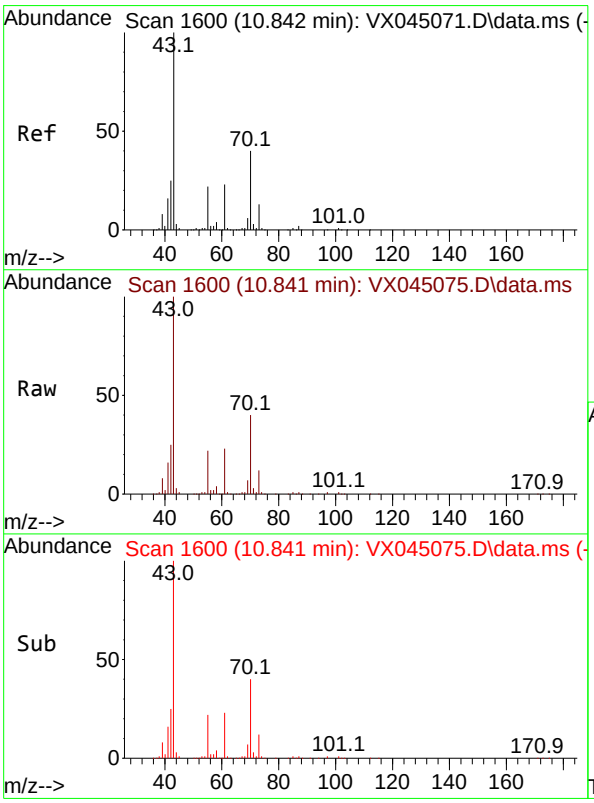
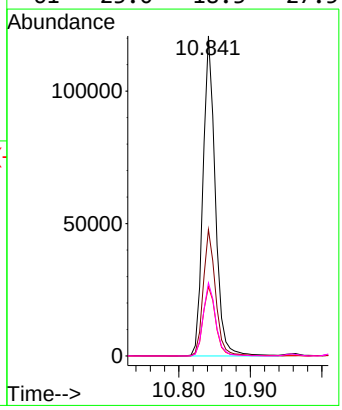


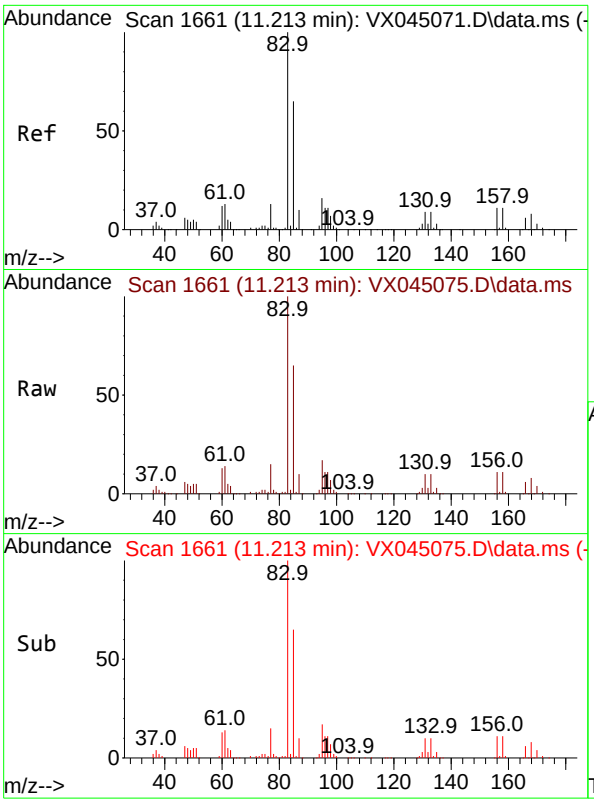


#74
N-amyl acetate
Concen: 56.851 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 43 Resp: 144412

Ion	Ratio	Lower	Upper
43	100		
70	39.5	31.8	47.6
55	22.3	18.3	27.5
61	23.0	18.3	27.5





#75
1,1,2,2-Tetrachloroethane
Concen: 50.741 ug/l
RT: 11.213 min Scan# 1(
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 83 Resp: 10080(

Ion	Ratio	Lower	Upper
83	100		
131	9.4	4.5	13.4
85	64.0	31.7	95.1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations
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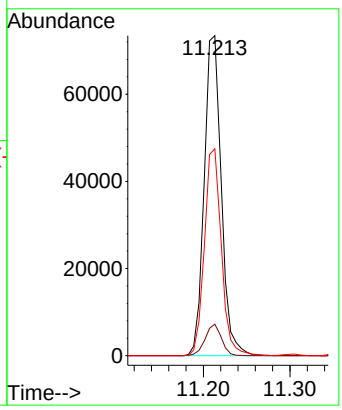
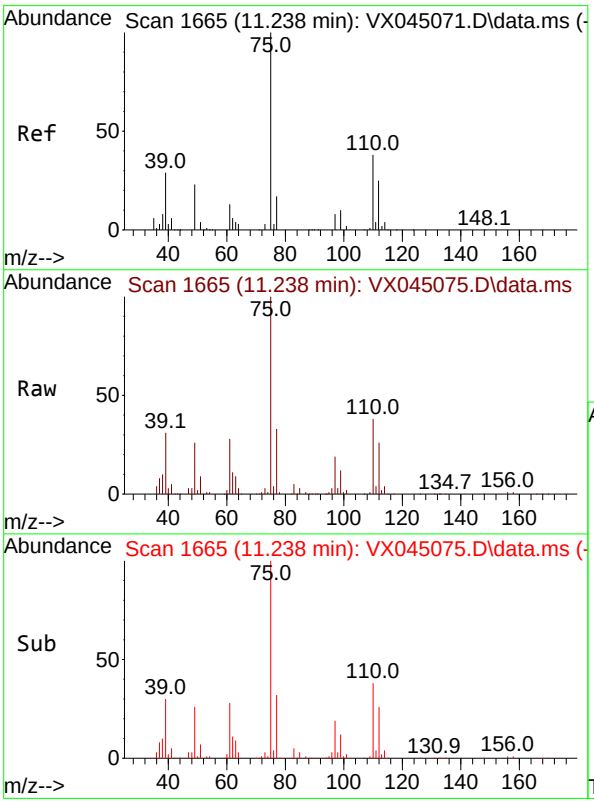
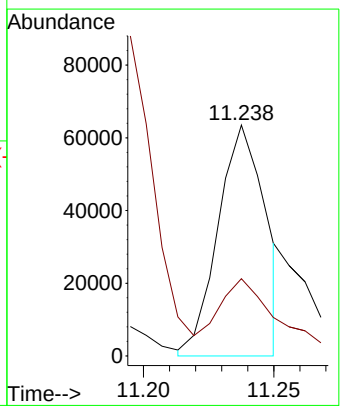


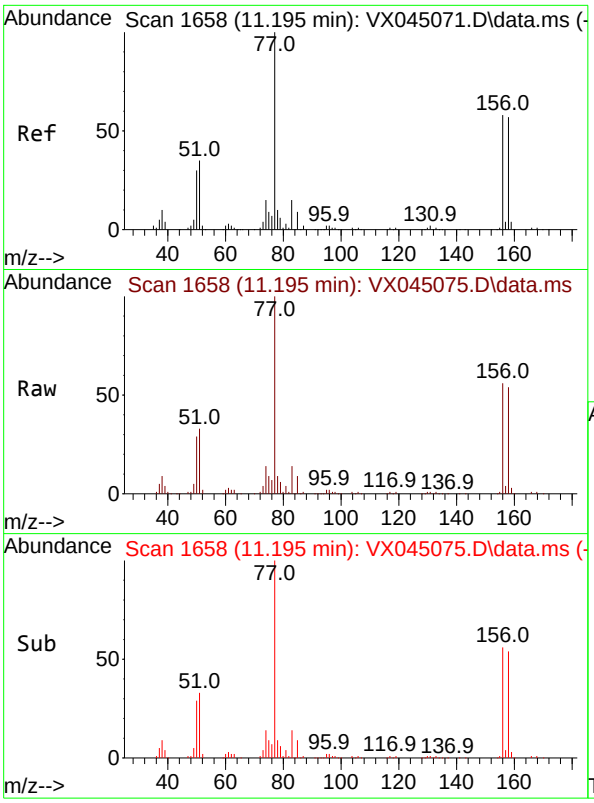


#76
1,2,3-Trichloropropane
Concen: 49.940 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 75 Resp: 80618

Ion	Ratio	Lower	Upper
75	100		
77	42.5	20.7	62.1





#77
Bromobenzene
Concen: 50.360 ug/l
RT: 11.195 min Scan# 1(
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:156 Resp: 6432

Ion	Ratio	Lower	Upper
156	100		
77	172.1	85.8	257.4
158	96.5	48.4	145.2

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations
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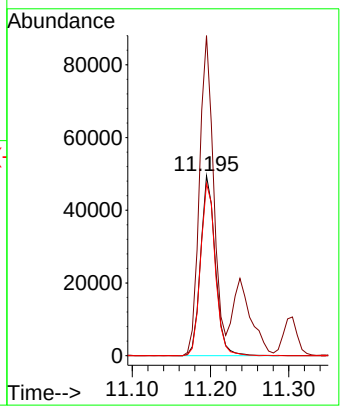
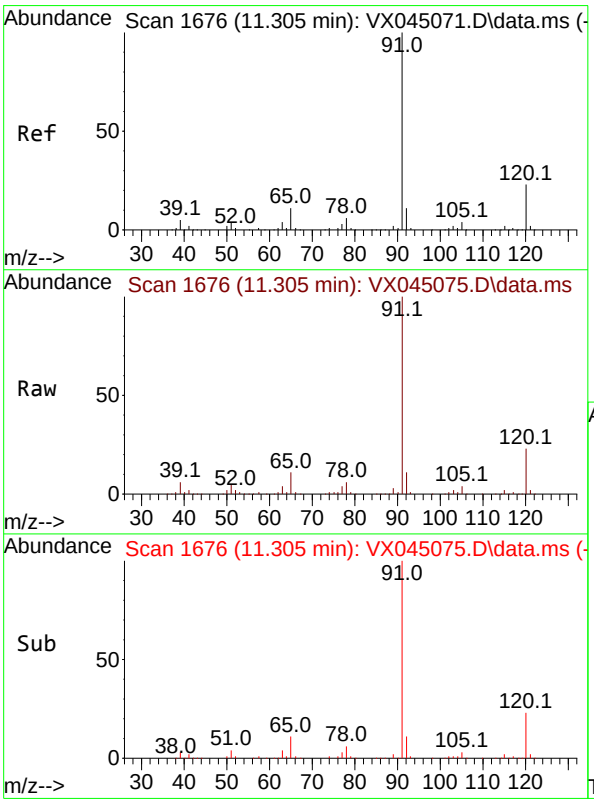
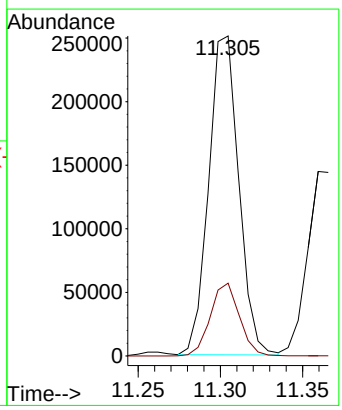


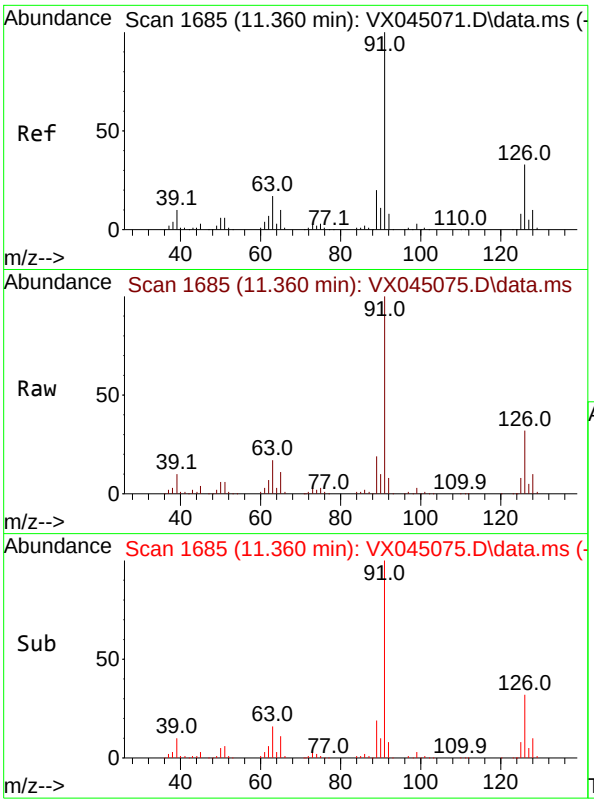


#78
n-propylbenzene
Concen: 52.203 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 91 Resp: 319235

Ion	Ratio	Lower	Upper
91	100		
120	22.2	11.2	33.6





#79
2-Chlorotoluene
Concen: 49.338 ug/l
RT: 11.360 min Scan# 1(
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 91 Resp: 19215(

Ion	Ratio	Lower	Upper
91	100		
126	33.1	16.4	49.4

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations
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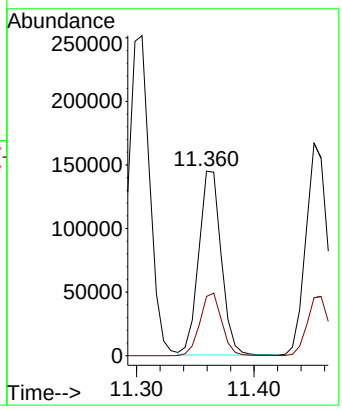
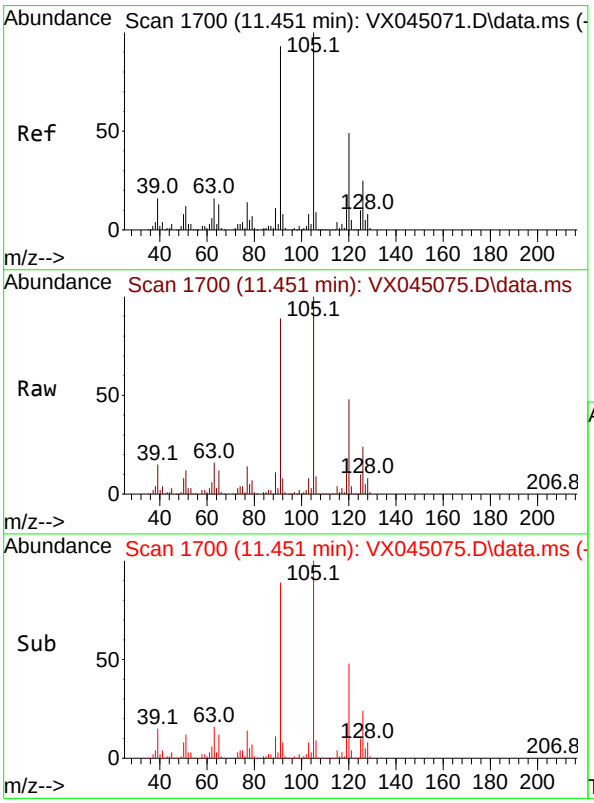
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

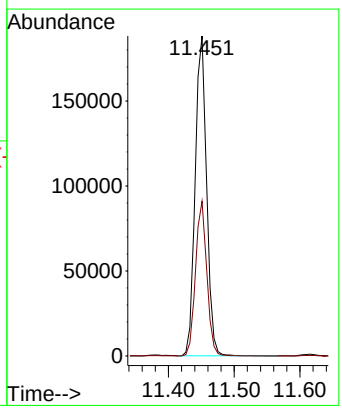


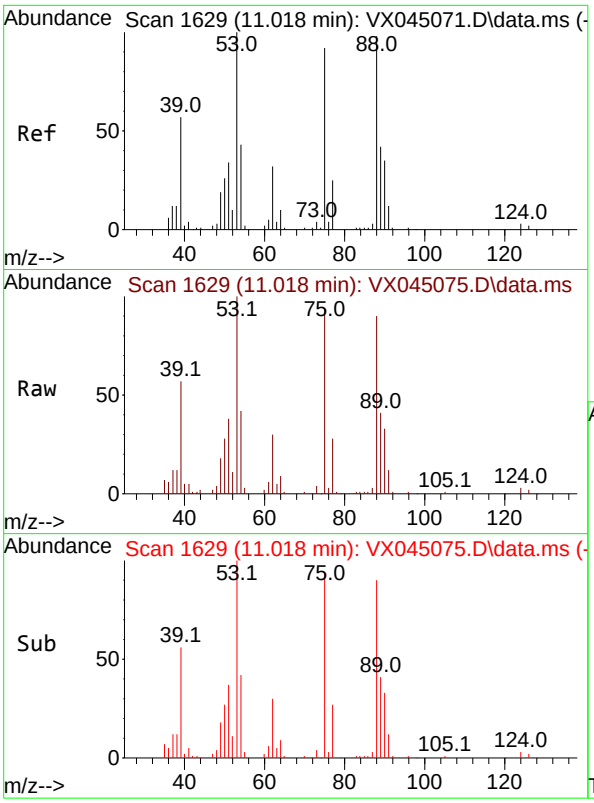


#80
1,3,5-Trimethylbenzene
Concen: 51.544 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:105 Resp: 225622

Ion	Ratio	Lower	Upper
105	100		
120	48.0	24.1	72.2





#81
trans-1,4-Dichloro-2-butene
Concen: 50.757 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 75 Resp: 2394

Ion	Ratio	Lower	Upper
75	100		
53	111.4	88.5	132.7
89	45.8	36.2	54.4

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations
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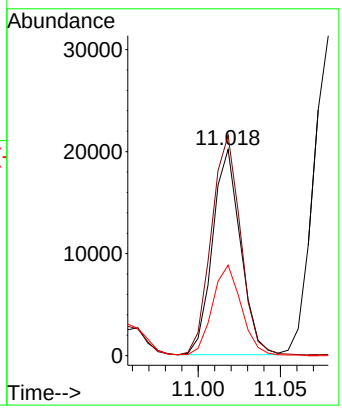
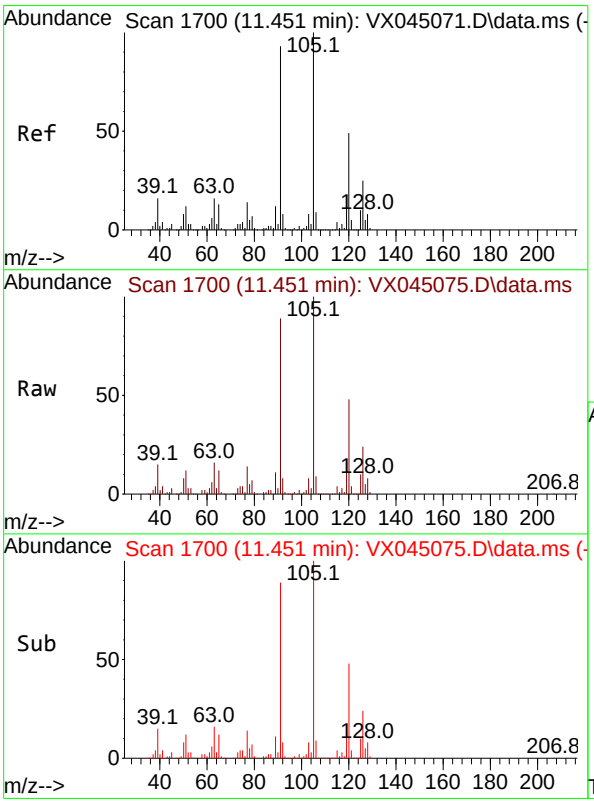
Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

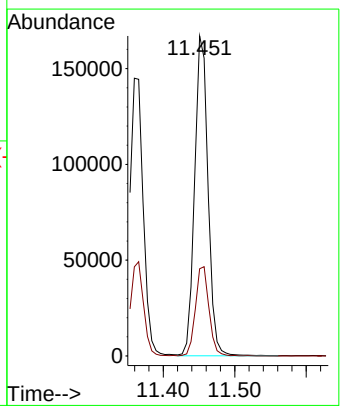


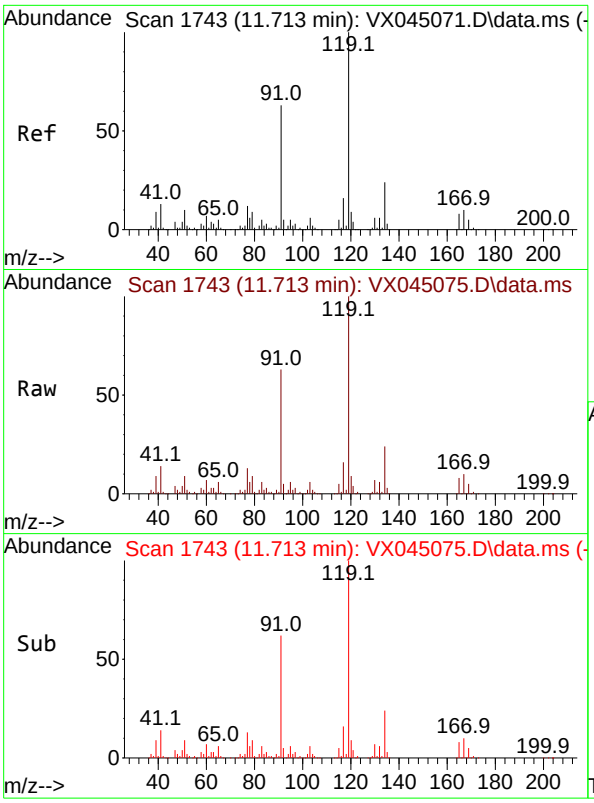


#82
4-Chlorotoluene
Concen: 51.009 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 91 Resp: 216511

Ion	Ratio	Lower	Upper
91	100		
126	28.3	14.1	42.4





#83
tert-Butylbenzene
Concen: 50.552 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:119 Resp: 22735

Ion	Ratio	Lower	Upper
119	100		
91	61.1	30.7	92.1
134	23.4	11.7	35.0

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
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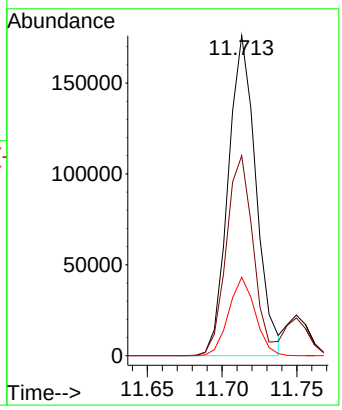
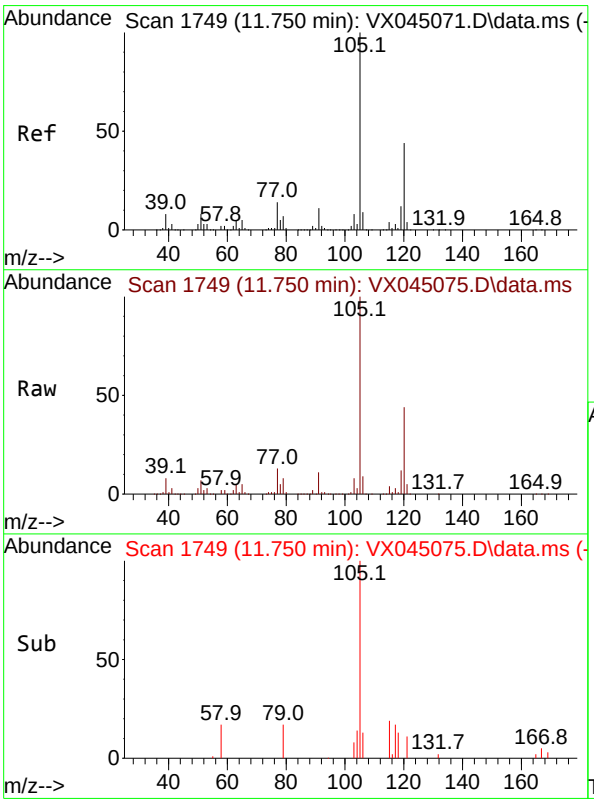
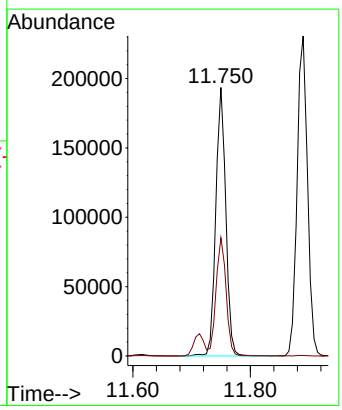


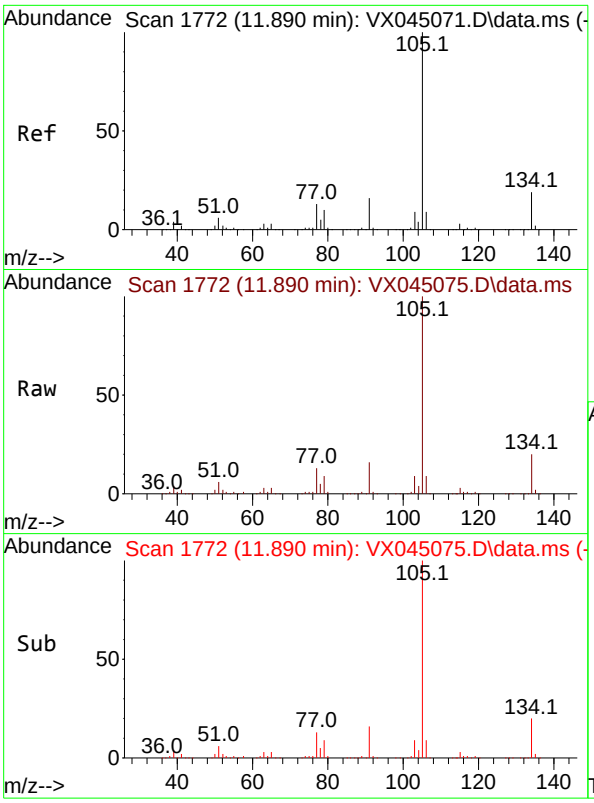


#84
1,2,4-Trimethylbenzene
Concen: 51.932 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:105 Resp: 228729

Ion	Ratio	Lower	Upper
105	100		
120	44.3	22.1	66.1





#85
sec-Butylbenzene
Concen: 52.703 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:105 Resp: 28393

Ion	Ratio	Lower	Upper
105	100		
134	19.6	9.8	29.4

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations
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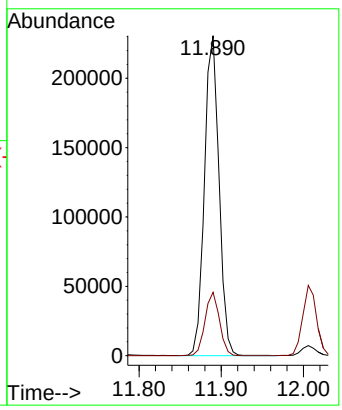
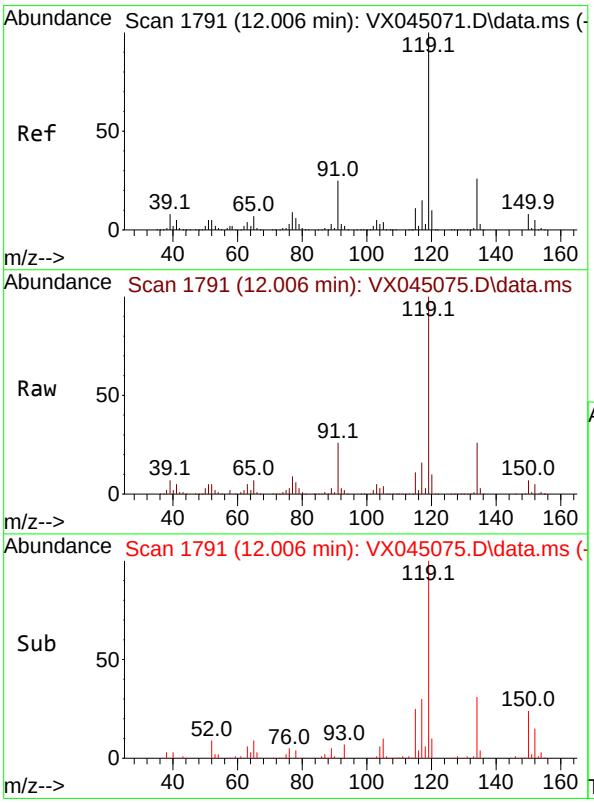
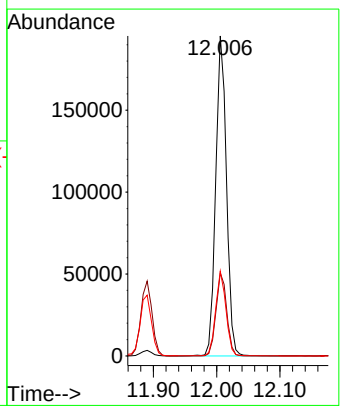


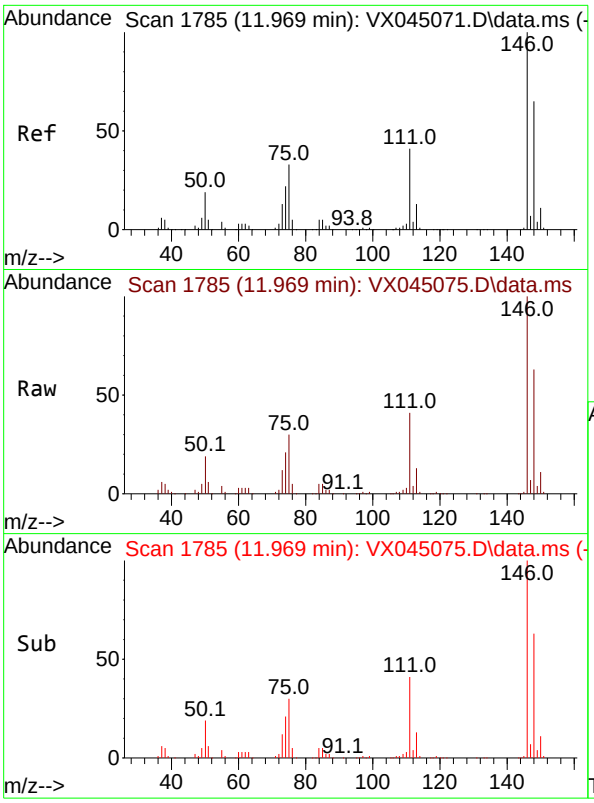


#86
p-Isopropyltoluene
Concen: 52.803 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:119 Resp: 229894

Ion	Ratio	Lower	Upper
119	100		
134	25.9	12.9	38.6
91	25.3	12.7	38.0





#87
1,3-Dichlorobenzene
Concen: 50.372 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:146 Resp: 114778

Ion	Ratio	Lower	Upper
146	100		
111	42.5	21.1	63.4
148	63.6	31.9	95.7

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations
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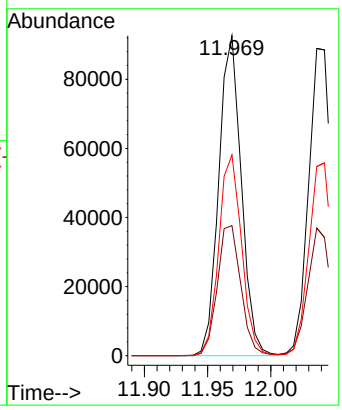
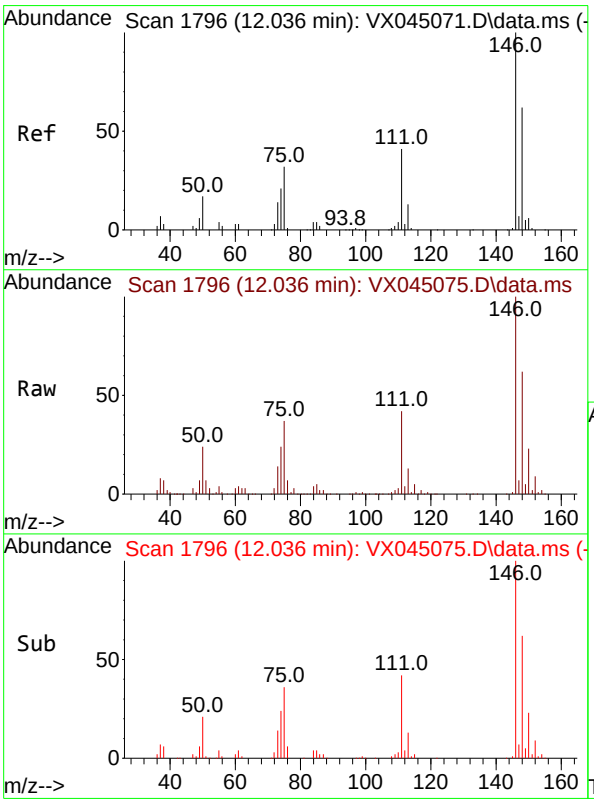
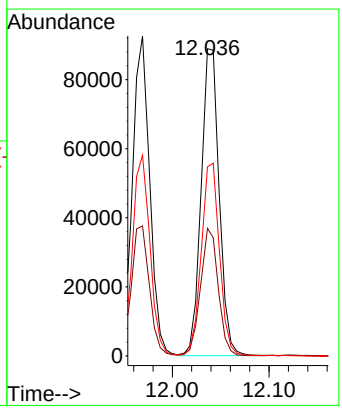


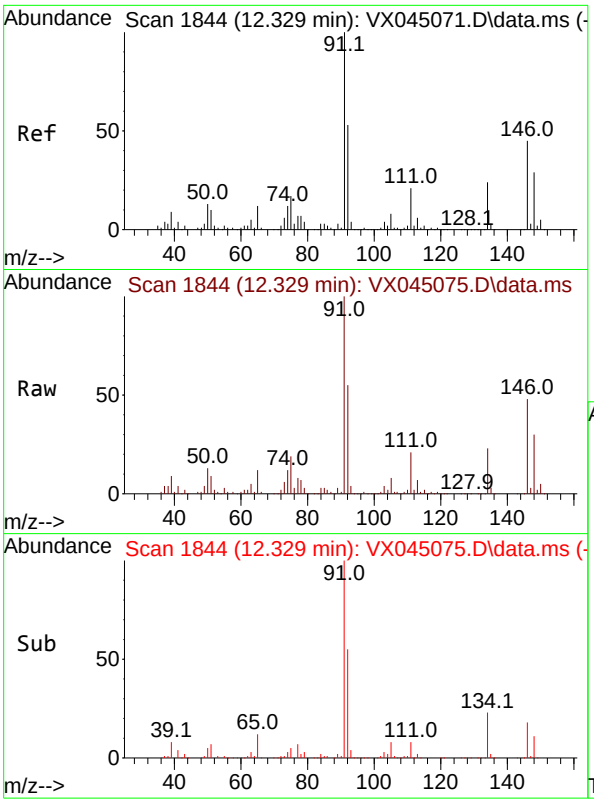


#88
1,4-Dichlorobenzene
Concen: 50.097 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:146 Resp: 115486

Ion	Ratio	Lower	Upper
146	100		
111	41.0	20.2	60.5
148	63.0	31.9	95.9





#89
n-Butylbenzene
Concen: 54.662 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 91 Resp: 20497

Ion	Ratio	Lower	Upper
91	100		
92	53.8	26.7	80.0
134	23.9	12.2	36.6

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations APPROVED

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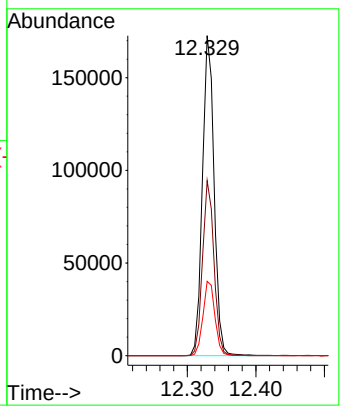
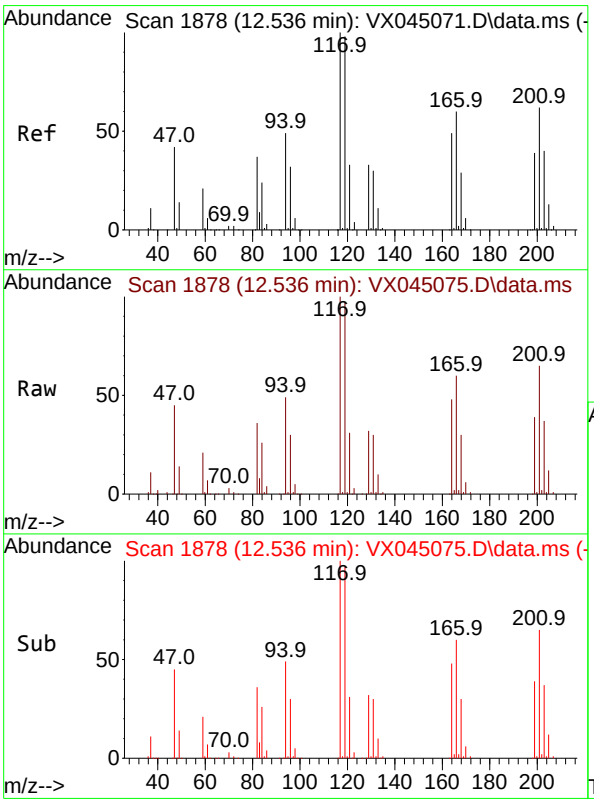
Supervised By :Mahesh Dadoda 02/28/2025

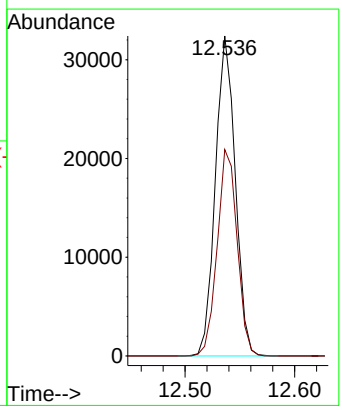


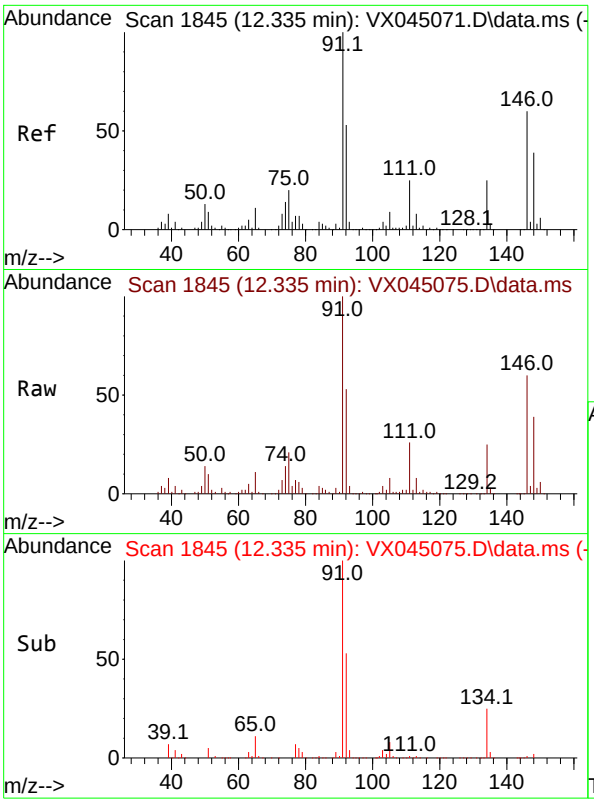


#90
Hexachloroethane
Concen: 51.866 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:117 Resp: 40844

Ion	Ratio	Lower	Upper
117	100		
201	64.7	31.9	95.9





#91
1,2-Dichlorobenzene
Concen: 50.899 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

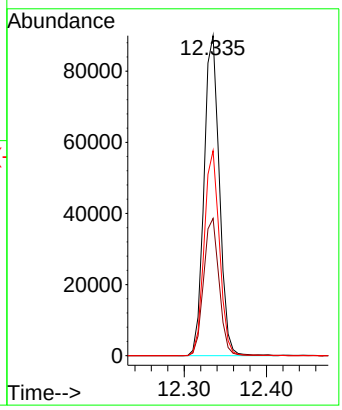
Tgt Ion:146 Resp: 11634

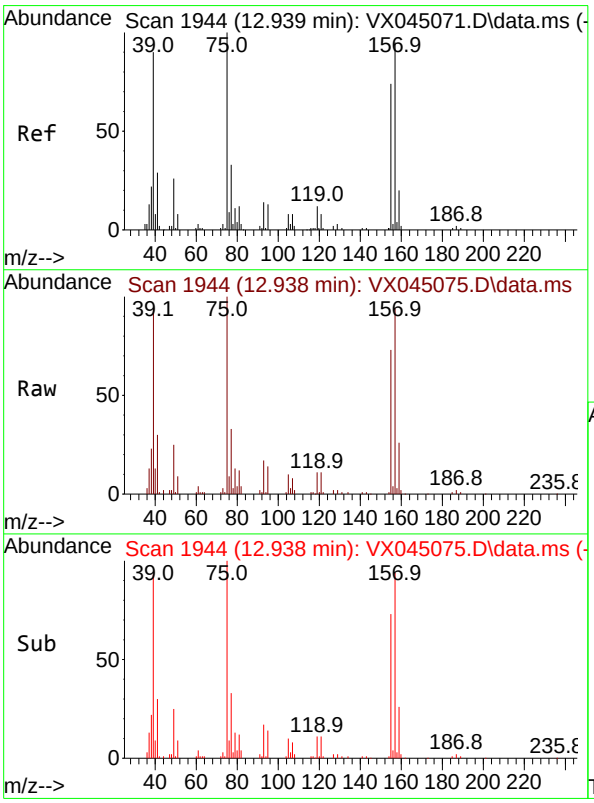
Ion	Ratio	Lower	Upper
146	100		
111	43.2	21.6	65.0
148	63.9	31.9	95.9

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

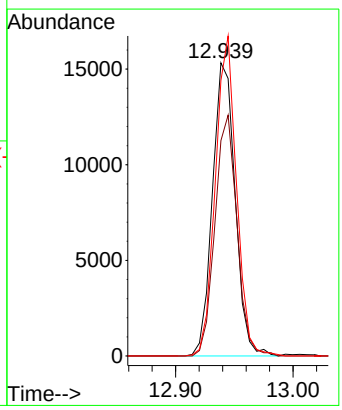


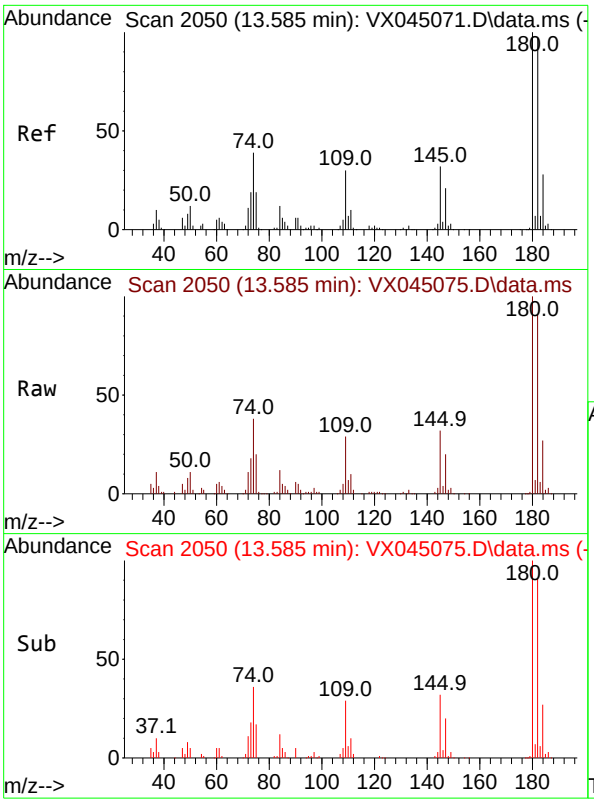


#92
1,2-Dibromo-3-Chloropropane
Concen: 53.199 ug/l
RT: 12.938 min Scan# 1944
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion: 75 Resp: 20589

Ion	Ratio	Lower	Upper
75	100		
155	79.8	39.6	118.7
157	101.7	51.1	153.4





#93
1,2,4-Trichlorobenzene
Concen: 54.834 ug/l
RT: 13.585 min Scan# 2(
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

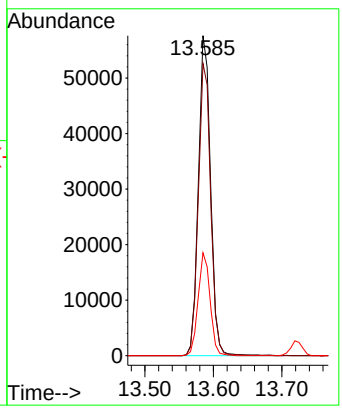
Tgt Ion:180 Resp: 7136

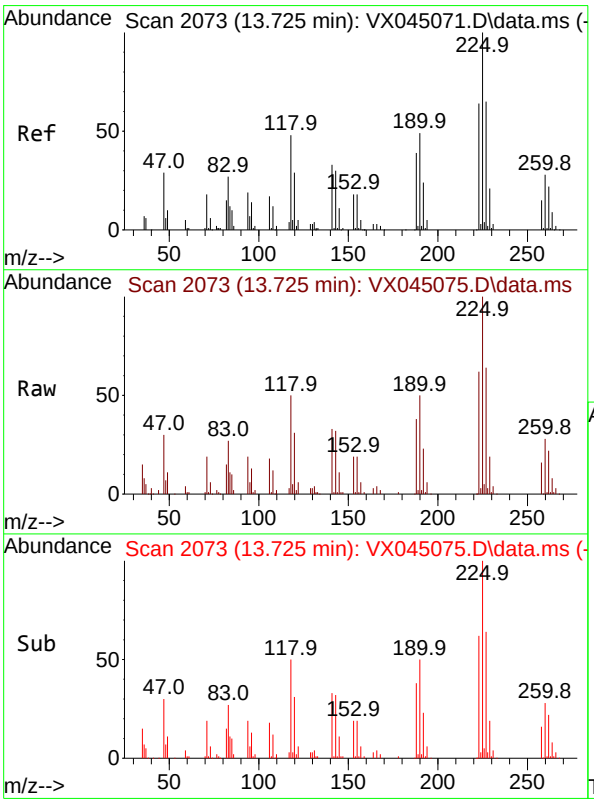
Ion	Ratio	Lower	Upper
180	100		
182	92.4	47.3	141.9
145	31.6	16.3	48.9

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

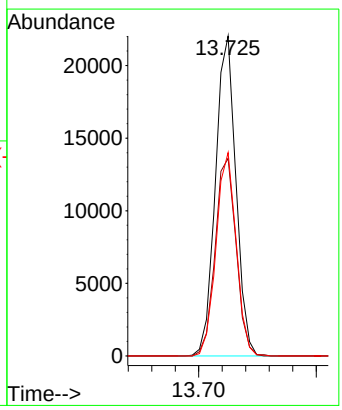


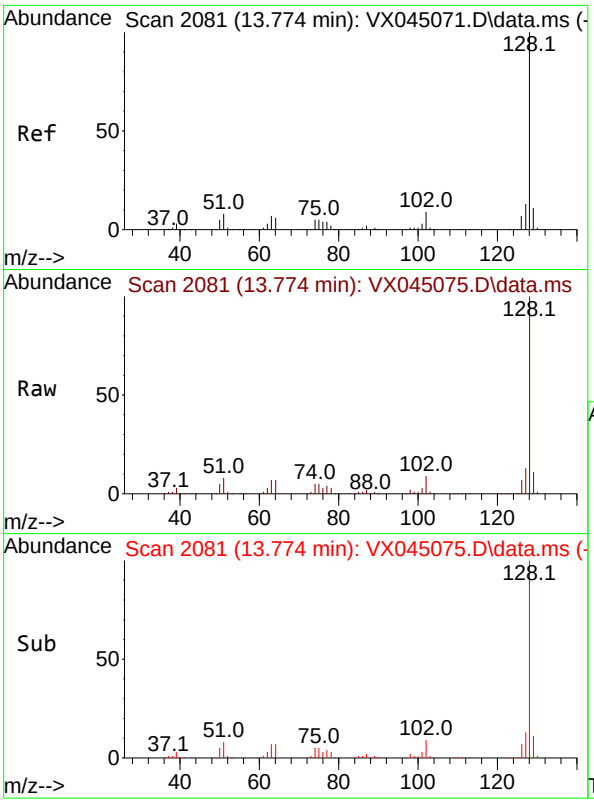


#94
Hexachlorobutadiene
Concen: 50.032 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:225 Resp: 26697

Ion	Ratio	Lower	Upper
225	100		
223	63.2	31.9	95.7
227	62.4	31.4	94.0





#95
Naphthalene
Concen: 55.163 ug/l
RT: 13.774 min Scan# 2(
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

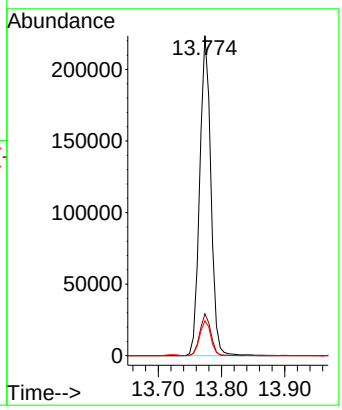
Tgt Ion:128 Resp: 27584

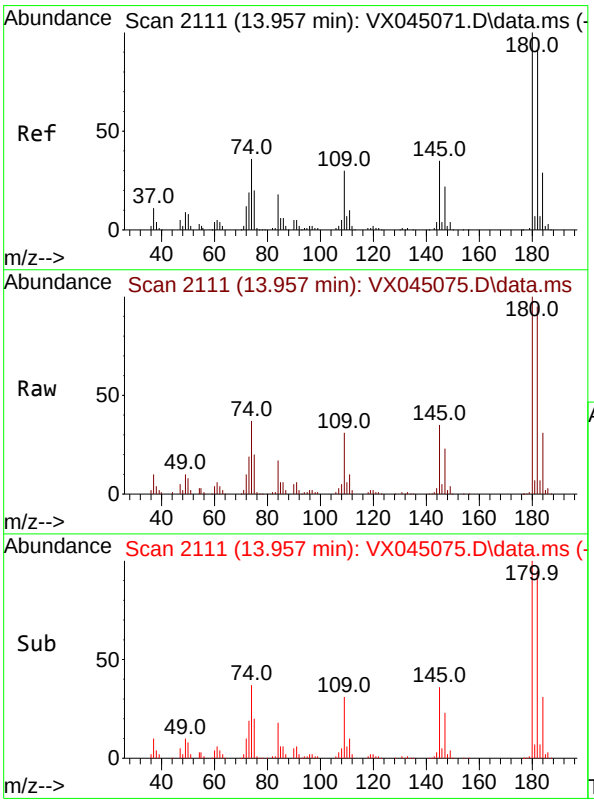
Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.3	15.5
129	10.9	8.7	13.1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/28/2025
Supervised By :Mahesh Dadoda 02/28/2025

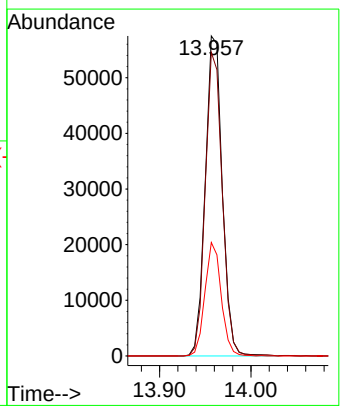




#96
1,2,3-Trichlorobenzene
Concen: 54.049 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VX045075.D
Acq: 28 Feb 2025 04:33

Tgt Ion:180 Resp: 74211

Ion	Ratio	Lower	Upper
180	100		
182	94.5	47.5	142.6
145	33.9	17.0	50.9



ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045075.D
Acq On : 28 Feb 2025 04:33
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Quant Time: Feb 28 06:55:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	98	0.00
2	T	Dichlorodifluoromethane	0.629	0.603	4.1	95	0.00
3	P	Chloromethane	0.770	0.750	2.6	98	0.00
4	C	Vinyl Chloride	0.764	0.757	0.9#	98	0.00
5	T	Bromomethane	0.300	0.277	7.7	93	0.00
6	T	Chloroethane	0.352	0.296	15.9	78	0.00
7	T	Trichlorofluoromethane	1.011	1.003	0.8	94	0.00
8	T	Diethyl Ether	0.396	0.385	2.8	98	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.581	0.585	-0.7	97	0.00
10	T	Methyl Iodide	0.726	0.734	-1.1	94	0.00
11	T	Tert butyl alcohol	0.151	0.144	4.6	106	0.00
12	CM	1,1-Dichloroethene	0.614	0.609	0.8#	96	0.00
13	T	Acrolein	0.174	0.189	-8.6	107	0.00
14	T	Allyl chloride	1.094	1.131	-3.4	100	0.00
15	T	Acrylonitrile	0.404	0.413	-2.2	99	0.00
16	T	Acetone	0.369	0.358	3.0	100	0.00
17	T	Carbon Disulfide	1.636	1.635	0.1	97	0.00
18	T	Methyl Acetate	0.888	0.893	-0.6	101	0.00
19	T	Methyl tert-butyl Ether	2.061	2.190	-6.3	103	0.00
20	T	Methylene Chloride	0.731	0.726	0.7	102	0.00
21	T	trans-1,2-Dichloroethene	0.607	0.621	-2.3	97	0.00
22	T	Diisopropyl ether	2.224	2.400	-7.9	103	0.00
23	T	Vinyl Acetate	1.856	2.096	-12.9	105	0.00
24	P	1,1-Dichloroethane	1.247	1.276	-2.3	101	0.00
25	T	2-Butanone	0.555	0.587	-5.8	100	0.00
26	T	2,2-Dichloropropane	0.585	0.578	1.2	95	0.00
27	T	cis-1,2-Dichloroethene	0.749	0.773	-3.2	100	0.00
28	T	Bromochloromethane	0.594	0.599	-0.8	98	0.00
29	T	Tetrahydrofuran	0.373	0.385	-3.2	102	0.00
30	C	Chloroform	1.239	1.244	-0.4#	98	0.00
31	T	Cyclohexane	1.082	1.085	-0.3	96	0.00
32	T	1,1,1-Trichloroethane	1.000	1.019	-1.9	98	0.00
33	S	1,2-Dichloroethane-d4	0.795	0.800	-0.6	104	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	99	0.00
35	S	Dibromofluoromethane	0.334	0.340	-1.8	103	0.00
36	T	1,1-Dichloropropene	0.459	0.447	2.6	95	0.00
37	T	Ethyl Acetate	0.591	0.610	-3.2	100	0.00
38	T	Carbon Tetrachloride	0.465	0.460	1.1	98	0.00
39	T	Methylcyclohexane	0.549	0.562	-2.4	95	0.00
40	TM	Benzene	1.448	1.482	-2.3	98	0.00
41	T	Methacrylonitrile	0.319	0.341	-6.9	99	0.00
42	TM	1,2-Dichloroethane	0.521	0.529	-1.5	99	0.00
43	T	Isopropyl Acetate	0.874	0.951	-8.8	102	0.00
44	TM	Trichloroethene	0.340	0.333	2.1	97	0.00
45	C	1,2-Dichloropropane	0.372	0.380	-2.2#	102	0.00
46	T	Dibromomethane	0.263	0.272	-3.4	100	0.00
47	T	Bromodichloromethane	0.516	0.526	-1.9	99	0.00
48	T	Methyl methacrylate	0.438	0.474	-8.2	102	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045075.D
Acq On : 28 Feb 2025 04:33
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Quant Time: Feb 28 06:55:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.009	0.010	-11.1	102	0.00
50	S	Toluene-d8	1.212	1.221	-0.7	100	0.00
51	T	4-Methyl-2-Pentanone	0.587	0.610	-3.9	99	0.00
52	CM	Toluene	0.849	0.867	-2.1#	96	0.00
53	T	t-1,3-Dichloropropene	0.431	0.468	-8.6	99	0.00
54	T	cis-1,3-Dichloropropene	0.503	0.531	-5.6	98	0.00
55	T	1,1,2-Trichloroethane	0.350	0.351	-0.3	98	0.00
56	T	Ethyl methacrylate	0.532	0.575	-8.1	100	0.00
57	T	1,3-Dichloropropane	0.605	0.621	-2.6	99	0.00
58	T	2-Chloroethyl Vinyl ether	0.259	0.286	-10.4	100	0.00
59	T	2-Hexanone	0.425	0.451	-6.1	100	0.00
60	T	Dibromochloromethane	0.366	0.376	-2.7	97	0.00
61	T	1,2-Dibromoethane	0.349	0.360	-3.2	100	0.00
62	S	4-Bromofluorobenzene	0.402	0.396	1.5	98	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	97	0.00
64	T	Tetrachloroethene	0.320	0.321	-0.3	96	0.00
65	PM	Chlorobenzene	1.058	1.070	-1.1	95	0.00
66	T	1,1,1,2-Tetrachloroethane	0.352	0.360	-2.3	99	0.00
67	C	Ethyl Benzene	1.843	1.903	-3.3#	95	0.00
68	T	m/p-Xylenes	0.675	0.698	-3.4	94	0.00
69	T	o-Xylene	0.681	0.690	-1.3	95	0.00
70	T	Styrene	1.101	1.149	-4.4	95	0.00
71	P	Bromoform	0.266	0.280	-5.3	99	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	97	0.00
73	T	Isopropylbenzene	3.903	4.027	-3.2	95	0.00
74	T	N-amyl acetate	1.831	2.082	-13.7	103	0.00
75	P	1,1,2,2-Tetrachloroethane	1.432	1.453	-1.5	100	0.00
76	T	1,2,3-Trichloropropane	1.164	1.162	0.2	99	0.00
77	T	Bromobenzene	0.921	0.927	-0.7	96	0.00
78	T	n-propylbenzene	4.409	4.603	-4.4	93	0.00
79	T	2-Chlorotoluene	2.808	2.770	1.4	94	0.00
80	T	1,3,5-Trimethylbenzene	3.156	3.253	-3.1	94	0.00
81	T	trans-1,4-Dichloro-2-butene	0.340	0.345	-1.5	99	0.00
82	T	4-Chlorotoluene	3.060	3.122	-2.0	94	0.00
83	T	tert-Butylbenzene	3.242	3.278	-1.1	95	0.00
84	T	1,2,4-Trimethylbenzene	3.175	3.298	-3.9	95	0.00
85	T	sec-Butylbenzene	3.884	4.094	-5.4	95	0.00
86	T	p-Isopropyltoluene	3.139	3.315	-5.6	94	0.00
87	T	1,3-Dichlorobenzene	1.643	1.655	-0.7	97	0.00
88	T	1,4-Dichlorobenzene	1.662	1.665	-0.2	96	0.00
89	T	n-Butylbenzene	2.703	2.955	-9.3	95	0.00
90	T	Hexachloroethane	0.568	0.589	-3.7	95	0.00
91	T	1,2-Dichlorobenzene	1.648	1.677	-1.8	98	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.279	0.297	-6.5	100	0.00
93	T	1,2,4-Trichlorobenzene	0.938	1.029	-9.7	99	0.00
94	T	Hexachlorobutadiene	0.385	0.385	0.0	96	0.00
95	T	Naphthalene	3.605	3.977	-10.3	99	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045075.D
Acq On : 28 Feb 2025 04:33
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Quant Time: Feb 28 06:55:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.990	1.070	-8.1	98	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045075.D
Acq On : 28 Feb 2025 04:33
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Quant Time: Feb 28 06:55:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	98	0.00
2	T	Dichlorodifluoromethane	50.000	47.933	4.1	95	0.00
3	P	Chloromethane	50.000	48.696	2.6	98	0.00
4	C	Vinyl Chloride	50.000	49.529	0.9#	98	0.00
5	T	Bromomethane	50.000	46.190	7.6	93	0.00
6	T	Chloroethane	50.000	41.948	16.1	78	0.00
7	T	Trichlorofluoromethane	50.000	49.569	0.9	94	0.00
8	T	Diethyl Ether	50.000	48.651	2.7	98	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	50.367	-0.7	97	0.00
10	T	Methyl Iodide	50.000	50.541	-1.1	94	0.00
11	T	Tert butyl alcohol	250.000	238.577	4.6	106	0.00
12	CM	1,1-Dichloroethene	50.000	49.568	0.9#	96	0.00
13	T	Acrolein	250.000	271.255	-8.5	107	0.00
14	T	Allyl chloride	50.000	51.691	-3.4	100	0.00
15	T	Acrylonitrile	250.000	255.479	-2.2	99	0.00
16	T	Acetone	250.000	242.877	2.8	100	0.00
17	T	Carbon Disulfide	50.000	49.952	0.1	97	0.00
18	T	Methyl Acetate	50.000	50.312	-0.6	101	0.00
19	T	Methyl tert-butyl Ether	50.000	53.114	-6.2	103	0.00
20	T	Methylene Chloride	50.000	49.639	0.7	102	0.00
21	T	trans-1,2-Dichloroethene	50.000	51.172	-2.3	97	0.00
22	T	Diisopropyl ether	50.000	53.955	-7.9	103	0.00
23	T	Vinyl Acetate	250.000	282.313	-12.9	105	0.00
24	P	1,1-Dichloroethane	50.000	51.190	-2.4	101	0.00
25	T	2-Butanone	250.000	264.040	-5.6	100	0.00
26	T	2,2-Dichloropropane	50.000	49.401	1.2	95	0.00
27	T	cis-1,2-Dichloroethene	50.000	51.606	-3.2	100	0.00
28	T	Bromochloromethane	50.000	50.399	-0.8	98	0.00
29	T	Tetrahydrofuran	250.000	258.277	-3.3	102	0.00
30	C	Chloroform	50.000	50.236	-0.5#	98	0.00
31	T	Cyclohexane	50.000	50.158	-0.3	96	0.00
32	T	1,1,1-Trichloroethane	50.000	50.939	-1.9	98	0.00
33	S	1,2-Dichloroethane-d4	50.000	50.297	-0.6	104	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	99	0.00
35	S	Dibromofluoromethane	50.000	50.841	-1.7	103	0.00
36	T	1,1-Dichloropropene	50.000	48.770	2.5	95	0.00
37	T	Ethyl Acetate	50.000	51.596	-3.2	100	0.00
38	T	Carbon Tetrachloride	50.000	49.425	1.2	98	0.00
39	T	Methylcyclohexane	50.000	51.169	-2.3	95	0.00
40	TM	Benzene	50.000	51.195	-2.4	98	0.00
41	T	Methacrylonitrile	50.000	53.352	-6.7	99	0.00
42	TM	1,2-Dichloroethane	50.000	50.718	-1.4	99	0.00
43	T	Isopropyl Acetate	50.000	54.452	-8.9	102	0.00
44	TM	Trichloroethene	50.000	48.924	2.2	97	0.00
45	C	1,2-Dichloropropane	50.000	51.086	-2.2#	102	0.00
46	T	Dibromomethane	50.000	51.661	-3.3	100	0.00
47	T	Bromodichloromethane	50.000	50.930	-1.9	99	0.00
48	T	Methyl methacrylate	50.000	54.016	-8.0	102	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045075.D
Acq On : 28 Feb 2025 04:33
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Quant Time: Feb 28 06:55:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	1049.007	-4.9	102	0.00
50	S	Toluene-d8	50.000	50.364	-0.7	100	0.00
51	T	4-Methyl-2-Pentanone	250.000	259.995	-4.0	99	0.00
52	CM	Toluene	50.000	51.020	-2.0#	96	0.00
53	T	t-1,3-Dichloropropene	50.000	54.247	-8.5	99	0.00
54	T	cis-1,3-Dichloropropene	50.000	52.732	-5.5	98	0.00
55	T	1,1,2-Trichloroethane	50.000	50.232	-0.5	98	0.00
56	T	Ethyl methacrylate	50.000	54.109	-8.2	100	0.00
57	T	1,3-Dichloropropane	50.000	51.312	-2.6	99	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	275.557	-10.2	100	0.00
59	T	2-Hexanone	250.000	265.049	-6.0	100	0.00
60	T	Dibromochloromethane	50.000	51.374	-2.7	97	0.00
61	T	1,2-Dibromoethane	50.000	51.492	-3.0	100	0.00
62	S	4-Bromofluorobenzene	50.000	49.240	1.5	98	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	97	0.00
64	T	Tetrachloroethene	50.000	50.126	-0.3	96	0.00
65	PM	Chlorobenzene	50.000	50.580	-1.2	95	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	51.102	-2.2	99	0.00
67	C	Ethyl Benzene	50.000	51.621	-3.2#	95	0.00
68	T	m/p-Xylenes	100.000	103.454	-3.5	94	0.00
69	T	o-Xylene	50.000	50.668	-1.3	95	0.00
70	T	Styrene	50.000	52.177	-4.4	95	0.00
71	P	Bromoform	50.000	52.636	-5.3	99	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	97	0.00
73	T	Isopropylbenzene	50.000	51.589	-3.2	95	0.00
74	T	N-amyl acetate	50.000	56.851	-13.7	103	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	50.741	-1.5	100	0.00
76	T	1,2,3-Trichloropropane	50.000	49.940	0.1	99	0.00
77	T	Bromobenzene	50.000	50.360	-0.7	96	0.00
78	T	n-propylbenzene	50.000	52.203	-4.4	93	0.00
79	T	2-Chlorotoluene	50.000	49.338	1.3	94	0.00
80	T	1,3,5-Trimethylbenzene	50.000	51.544	-3.1	94	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	50.757	-1.5	99	0.00
82	T	4-Chlorotoluene	50.000	51.009	-2.0	94	0.00
83	T	tert-Butylbenzene	50.000	50.552	-1.1	95	0.00
84	T	1,2,4-Trimethylbenzene	50.000	51.932	-3.9	95	0.00
85	T	sec-Butylbenzene	50.000	52.703	-5.4	95	0.00
86	T	p-Isopropyltoluene	50.000	52.803	-5.6	94	0.00
87	T	1,3-Dichlorobenzene	50.000	50.372	-0.7	97	0.00
88	T	1,4-Dichlorobenzene	50.000	50.097	-0.2	96	0.00
89	T	n-Butylbenzene	50.000	54.662	-9.3	95	0.00
90	T	Hexachloroethane	50.000	51.866	-3.7	95	0.00
91	T	1,2-Dichlorobenzene	50.000	50.899	-1.8	98	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	53.199	-6.4	100	0.00
93	T	1,2,4-Trichlorobenzene	50.000	54.834	-9.7	99	0.00
94	T	Hexachlorobutadiene	50.000	50.032	-0.1	96	0.00
95	T	Naphthalene	50.000	55.163	-10.3	99	0.00

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045075.D
Acq On : 28 Feb 2025 04:33
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX022825

Quant Time: Feb 28 06:55:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	54.049	-8.1	98	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: JACO05

Lab Code: CHEM Case No.: Q1501 SAS No.: Q1501 SDG No.: Q1501

Instrument ID: MSVOA_X Calibration Date/Time: 03/05/2025 09:12

Lab File ID: VX045127.D Init. Calib. Date(s): 02/28/2025 02/28/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 01:27 03:47

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Vinyl Chloride	0.764	0.689		-9.82	20
1,1-Dichloroethene	0.614	0.553		-9.94	20
1,1-Dichloroethane	1.247	1.123	0.1	-9.94	20
cis-1,2-Dichloroethene	0.749	0.684		-8.68	20
1,1,1-Trichloroethane	1.000	0.923		-7.7	20
Benzene	1.448	1.416		-2.21	20
1,2-Dichloroethane	0.521	0.506		-2.88	20
Trichloroethene	0.340	0.338		-0.59	20
1,1,2-Trichloroethane	0.350	0.334		-4.57	20
Tetrachloroethene	0.320	0.328		2.5	20
1,2-Dichloroethane-d4	0.795	0.743		-6.54	20
Dibromofluoromethane	0.334	0.344		2.99	20
Toluene-d8	1.212	1.229		1.4	20
4-Bromofluorobenzene	0.402	0.412		2.49	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030525\
Data File : VX045127.D
Acq On : 05 Mar 2025 09:12
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 06 00:58:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene	5.544	168	112291	50.000 ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	190470	50.000 ug/l	0.00
63) Chlorobenzene-d5	10.049	117	164207	50.000 ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	74481	50.000 ug/l	0.00
System Monitoring Compounds					
33) 1,2-Dichloroethane-d4	5.946	65	83482	46.738 ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 93.480%		
35) Dibromofluoromethane	5.373	113	65550	51.467 ug/l	-0.01
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.940%		
50) Toluene-d8	8.641	98	234119	50.704 ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.400%		
62) 4-Bromofluorobenzene	11.079	95	78409	51.246 ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 102.500%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.166	85	68622	48.548 ug/l	91
3) Chloromethane	1.307	50	75368	43.571 ug/l	97
4) Vinyl Chloride	1.374	62	77400	45.105 ug/l	98
5) Bromomethane	1.593	94	30416	45.089 ug/l	98
6) Chloroethane	1.660	64	32683	41.292 ug/l	95
7) Trichlorofluoromethane	1.867	101	105280	46.345 ug/l	98
8) Diethyl Ether	2.136	74	39098	44.003 ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.312	101	65196	49.955 ug/l	99
10) Methyl Iodide	2.441	142	78420	48.082 ug/l	98
11) Tert butyl alcohol	2.995	59	60479	178.760 ug/l	100
12) 1,1-Dichloroethene	2.306	96	62054	44.972 ug/l	99
13) Acrolein	2.233	56	93541	239.177 ug/l	98
14) Allyl chloride	2.654	41	116846	47.573 ug/l	98
15) Acrylonitrile	3.062	53	196064	216.227 ug/l	99
16) Acetone	2.386	43	168809	203.698 ug/l	97
17) Carbon Disulfide	2.495	76	163042	44.364 ug/l	97
18) Methyl Acetate	2.703	43	91008	45.649 ug/l	99
19) Methyl tert-butyl Ether	3.111	73	208272	44.990 ug/l	100
20) Methylene Chloride	2.782	84	71831	43.757 ug/l	97
21) trans-1,2-Dichloroethene	3.081	96	64065	46.997 ug/l	97
22) Diisopropyl ether	3.757	45	232828	46.611 ug/l	96
23) Vinyl Acetate	3.715	43	988338	237.095 ug/l	99
24) 1,1-Dichloroethane	3.599	63	126104	45.046 ug/l	98
25) 2-Butanone	4.556	43	274151	219.773 ug/l	97
26) 2,2-Dichloropropane	4.465	77	89223	67.949 ug/l	96
27) cis-1,2-Dichloroethene	4.477	96	76838	45.662 ug/l	95
28) Bromochloromethane	4.891	49	62721	47.005 ug/l	99
29) Tetrahydrofuran	5.001	42	179664	214.470 ug/l	100
30) Chloroform	5.086	83	126092	45.331 ug/l	98
31) Cyclohexane	5.458	56	116269	47.845 ug/l	99
32) 1,1,1-Trichloroethane	5.373	97	103689	46.154 ug/l	99
36) 1,1-Dichloropropene	5.678	75	86057	49.270 ug/l	99
37) Ethyl Acetate	4.715	43	105492	46.871 ug/l	99
38) Carbon Tetrachloride	5.666	117	87042	49.086 ug/l	99
39) Methylcyclohexane	7.373	83	115913	55.384 ug/l	98
40) Benzene	6.025	78	269708	48.900 ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030525\
Data File : VX045127.D
Acq On : 05 Mar 2025 09:12
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 06 00:58:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED
Reviewed By :John Carlone 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	4.916	41	59812	49.148 ug/l	98
42) 1,2-Dichloroethane	6.080	62	96363	48.518 ug/l	100
43) Isopropyl Acetate	6.336	43	161345	48.480 ug/l	100
44) Trichloroethene	7.117	130	64443	49.759 ug/l	99
45) 1,2-Dichloropropane	7.421	63	67543	47.629 ug/l	97
46) Dibromomethane	7.574	93	48542	48.429 ug/l	98
47) Bromodichloromethane	7.818	83	97568	49.627 ug/l	100
48) Methyl methacrylate	7.690	41	80625	48.288 ug/l	99
49) 1,4-Dioxane	7.665	88	31601	897.247 ug/l	97
51) 4-Methyl-2-Pentanone	8.574	43	523954	234.470 ug/l	99
52) Toluene	8.714	92	163330	50.472 ug/l	98
53) t-1,3-Dichloropropene	8.976	75	88322	53.736 ug/l	99
54) cis-1,3-Dichloropropene	8.360	75	102986	53.733 ug/l	97
55) 1,1,2-Trichloroethane	9.147	97	63538	47.694 ug/l	96
56) Ethyl methacrylate	9.116	69	98764	48.771 ug/l	99
57) 1,3-Dichloropropane	9.305	76	110247	47.819 ug/l	98
58) 2-Chloroethyl Vinyl ether	8.238	63	263234	266.477 ug/l	100
59) 2-Hexanone	9.427	43	384958	237.763 ug/l	100
60) Dibromochloromethane	9.518	129	71321	51.202 ug/l	98
61) 1,2-Dibromoethane	9.604	107	64667	48.624 ug/l	99
64) Tetrachloroethene	9.269	164	53835	51.190 ug/l	97
65) Chlorobenzene	10.073	112	171449	49.344 ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.159	131	56543	48.866 ug/l	99
67) Ethyl Benzene	10.189	91	308282	50.920 ug/l	99
68) m/p-Xylenes	10.299	106	228130	102.932 ug/l	100
69) o-Xylene	10.640	106	111076	49.692 ug/l	99
70) Styrene	10.652	104	183603	50.763 ug/l	100
71) Bromoform	10.799	173	44654	51.176 ug/l #	99
73) Isopropylbenzene	10.957	105	289986	49.882 ug/l	100
74) N-amyl acetate	10.841	43	133706	49.015 ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.213	83	97087	45.510 ug/l	98
76) 1,2,3-Trichloropropane	11.238	75	77426m	44.663 ug/l	
77) Bromobenzene	11.195	156	65952	48.083 ug/l	99
78) n-propylbenzene	11.305	91	338544	51.552 ug/l	99
79) 2-Chlorotoluene	11.360	91	196917	47.083 ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	235799	50.163 ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	26035	51.395 ug/l	98
82) 4-Chlorotoluene	11.451	91	223976	49.137 ug/l	100
83) tert-Butylbenzene	11.713	119	232845	48.210 ug/l	100
84) 1,2,4-Trimethylbenzene	11.750	105	236246	49.949 ug/l	100
85) sec-Butylbenzene	11.890	105	298121	51.530 ug/l	99
86) p-Isopropyltoluene	12.006	119	242004	51.761 ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	119022	48.641 ug/l	100
88) 1,4-Dichlorobenzene	12.042	146	118036	47.680 ug/l	99
89) n-Butylbenzene	12.329	91	222008	55.132 ug/l	100
90) Hexachloroethane	12.536	117	42059	49.734 ug/l	99
91) 1,2-Dichlorobenzene	12.335	146	121609	49.543 ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	19675	47.340 ug/l	98
93) 1,2,4-Trichlorobenzene	13.585	180	73807	52.807 ug/l	100
94) Hexachlorobutadiene	13.725	225	30136	52.591 ug/l	97
95) Naphthalene	13.774	128	269735	50.230 ug/l	100
96) 1,2,3-Trichlorobenzene	13.963	180	75650	51.306 ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030525\
Data File : VX045127.D
Acq On : 05 Mar 2025 09:12
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025

Quant Time: Mar 06 00:58:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

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

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

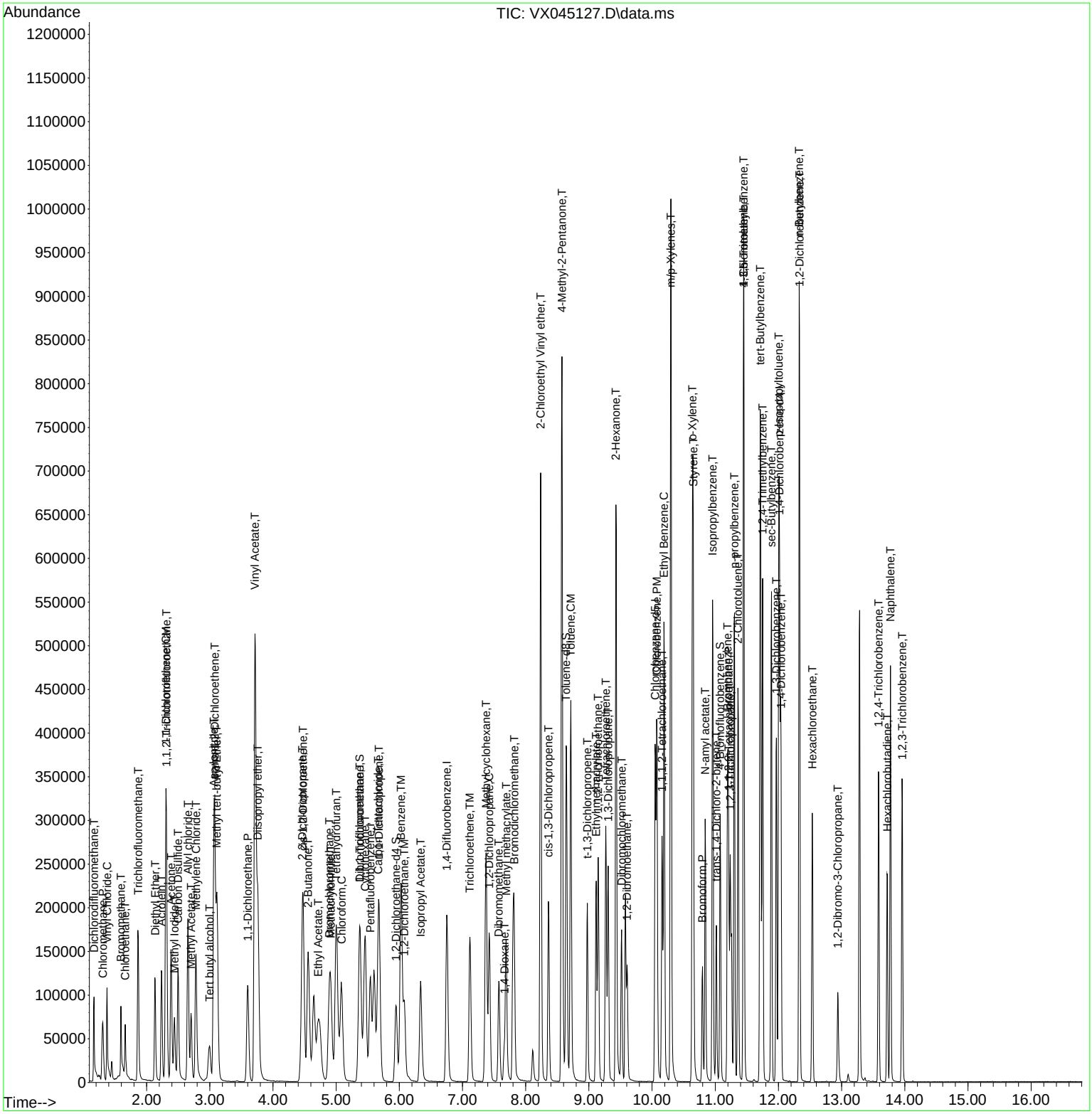
Sample Results: **VX045127.D**

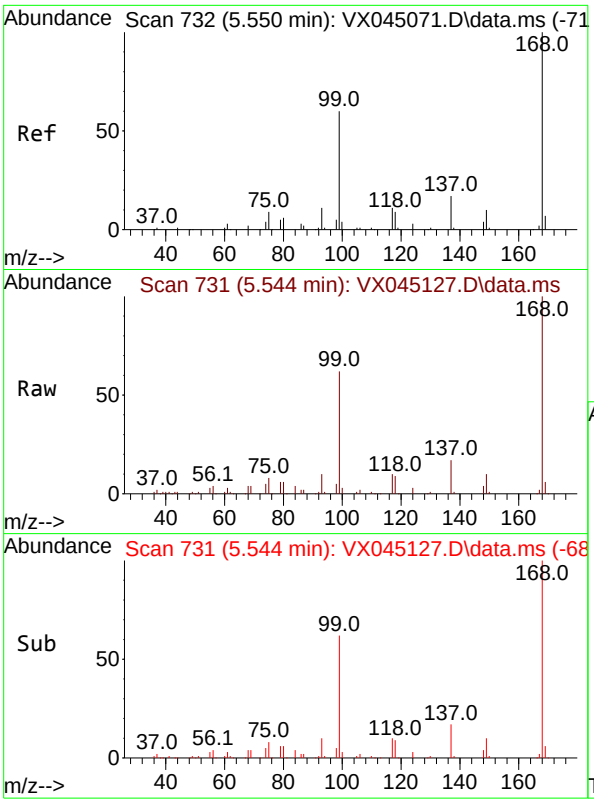
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030525\
Data File : VX045127.D
Acq On : 05 Mar 2025 09:12
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 06 00:58:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED
Reviewed By :John Carlone 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

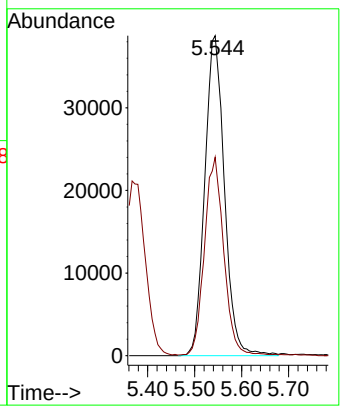
Tgt Ion:168 Resp: 11229

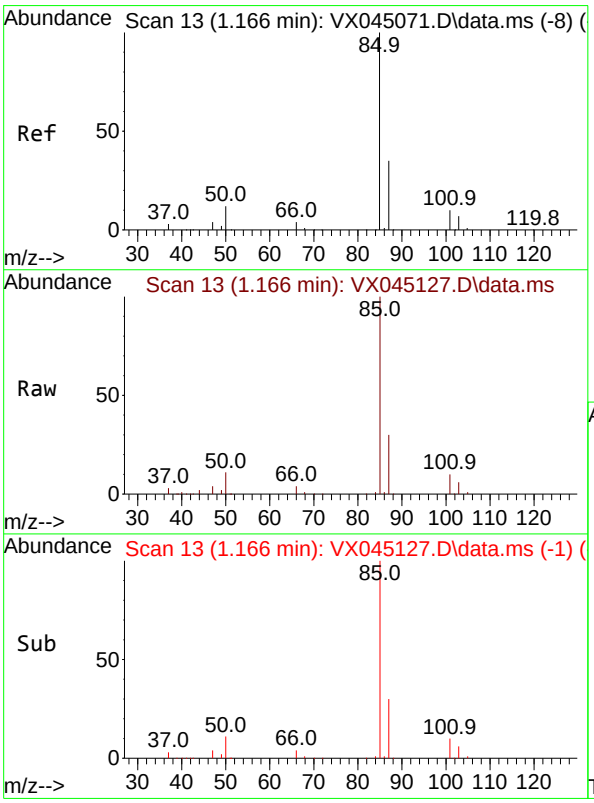
Ion	Ratio	Lower	Upper
168	100		
99	61.8	48.2	72.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025

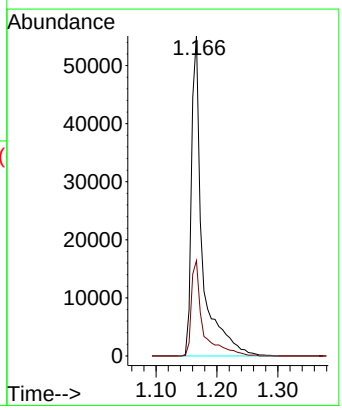


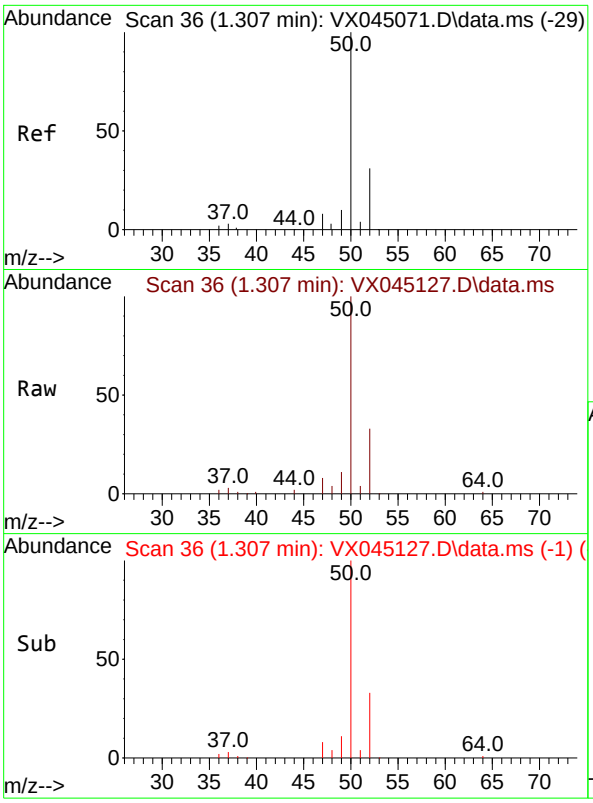


#2
Dichlorodifluoromethane
Concen: 48.548 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion: 85 Resp: 68622

Ion	Ratio	Lower	Upper
85	100		
87	29.8	17.4	52.3





#3
Chloromethane
Concen: 43.571 ug/l
RT: 1.307 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion: 50 Resp: 7536

Ion	Ratio	Lower	Upper
50	100		
52	33.1	25.0	37.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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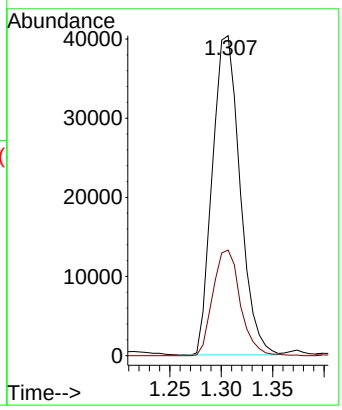
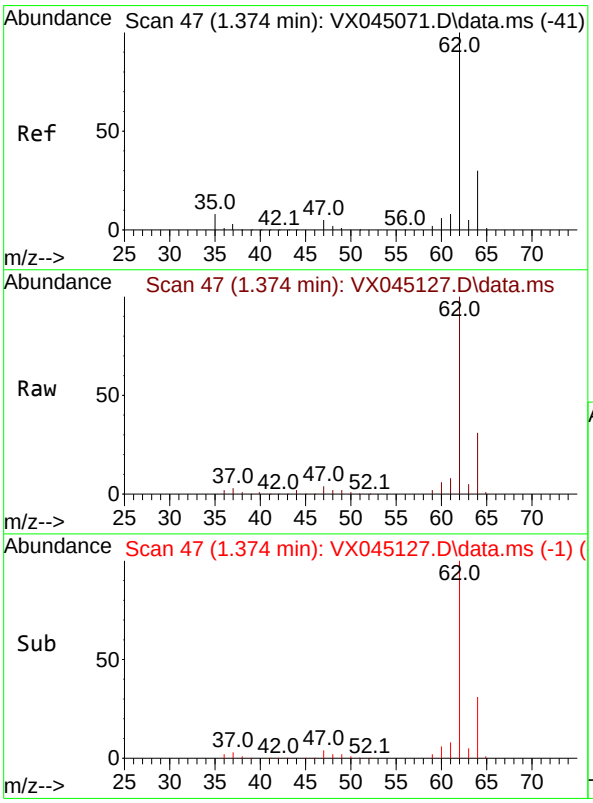
Reviewed By :John Carlone 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025

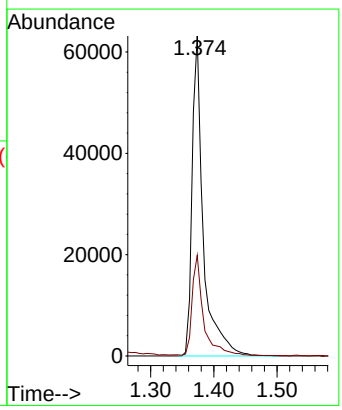


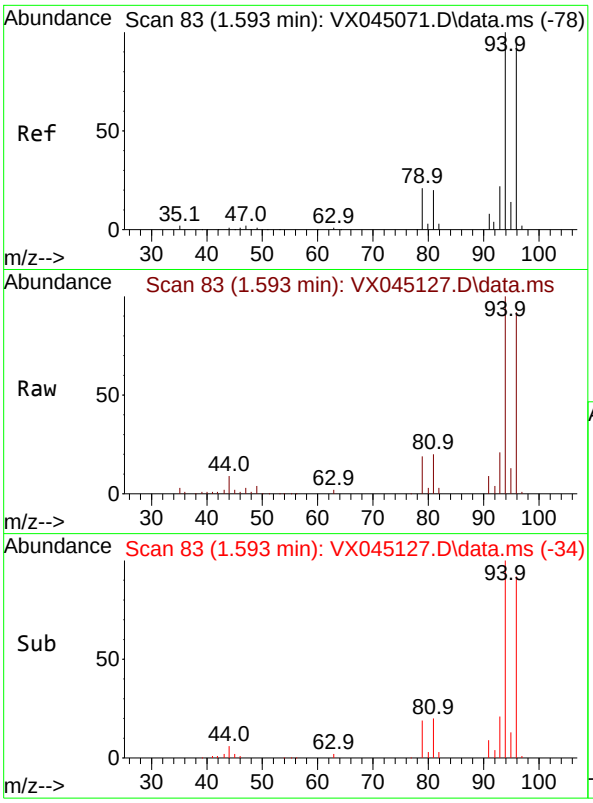


#4
Vinyl Chloride
Concen: 45.105 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion: 62 Resp: 77400

Ion	Ratio	Lower	Upper
62	100		
64	31.3	24.3	36.5





#5
Bromomethane
Concen: 45.089 ug/l
RT: 1.593 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion: 94 Resp: 3041

Ion	Ratio	Lower	Upper
94	100		
96	91.6	75.0	112.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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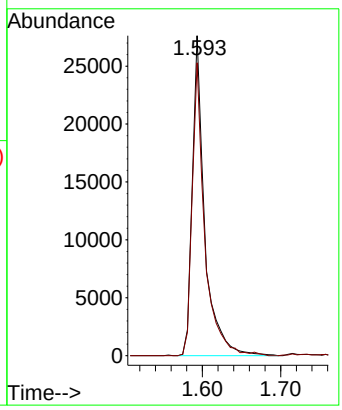
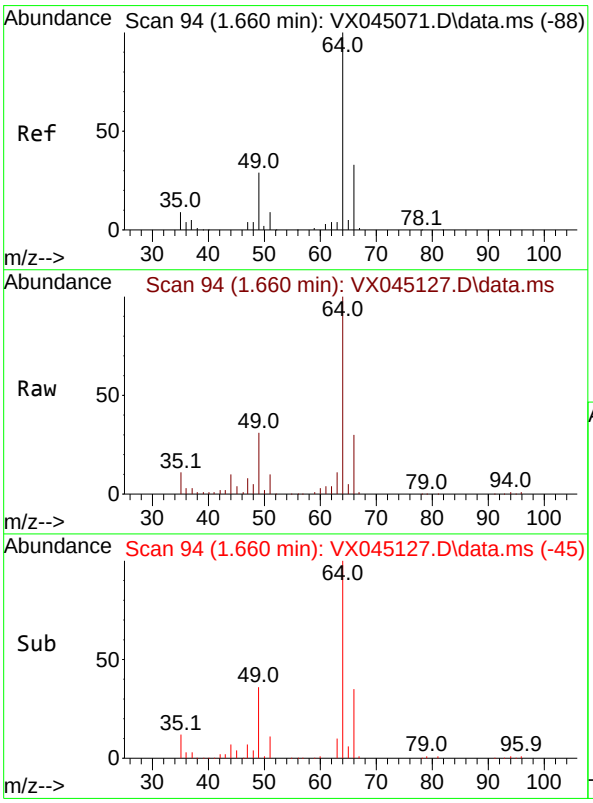
Reviewed By :John Carlone 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025

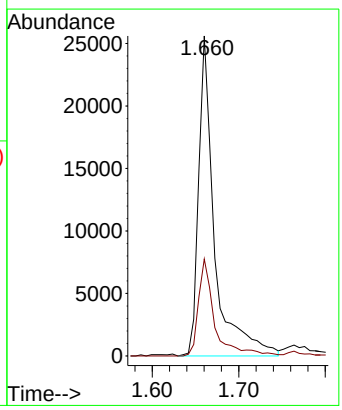


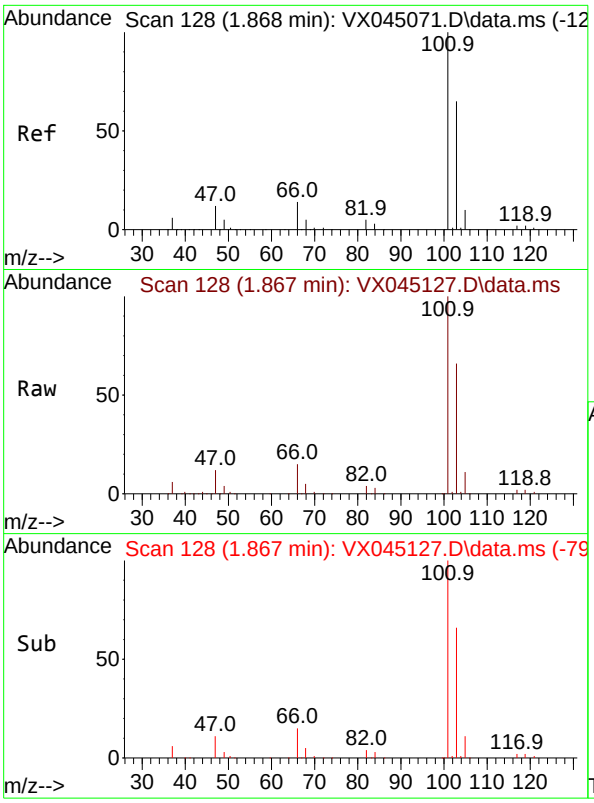


#6
Chloroethane
Concen: 41.292 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.000 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion: 64 Resp: 32683

Ion	Ratio	Lower	Upper
64	100		
66	30.3	26.7	40.1





#7
Trichlorofluoromethane
Concen: 46.345 ug/l
RT: 1.867 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion:101 Resp: 10528

Ion	Ratio	Lower	Upper
101	100		
103	66.5	52.1	78.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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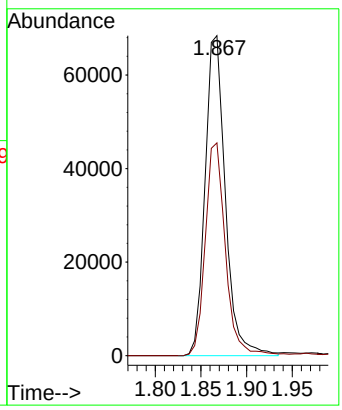
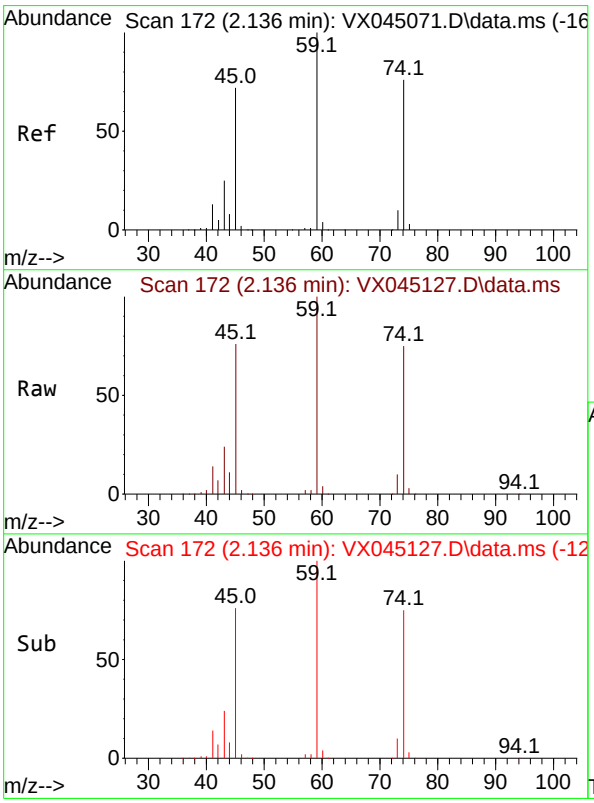
Reviewed By :John Carlone 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025

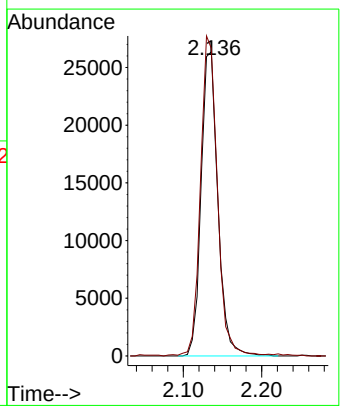


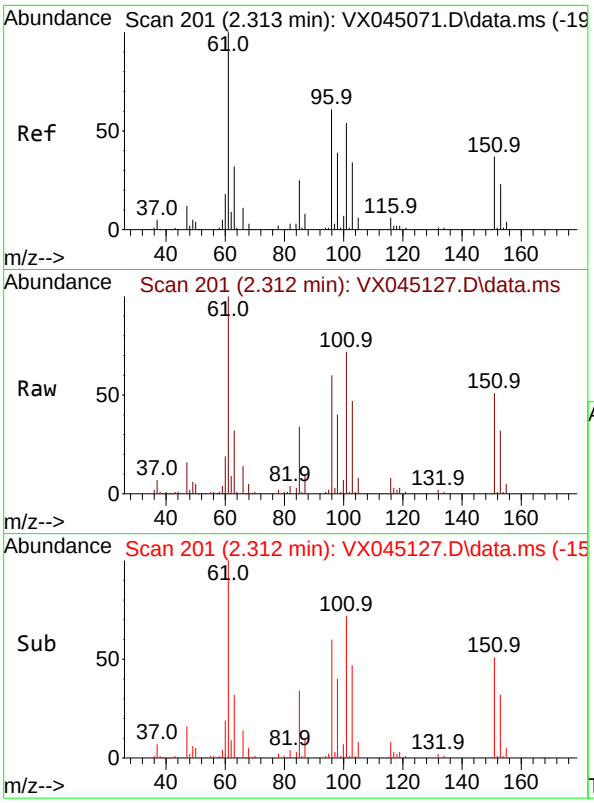


#8
Diethyl Ether
Concen: 44.003 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion: 74 Resp: 39098

Ion	Ratio	Lower	Upper
74	100		
45	106.0	51.5	154.5





#9
1,1,2-Trichlorotrifluoroethane
Concen: 49.955 ug/l
RT: 2.312 min Scan# 2(
Delta R.T. -0.000 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion:101 Resp: 6519(

Ion	Ratio	Lower	Upper
101	100		
85	46.1	36.2	54.4
151	71.3	56.4	84.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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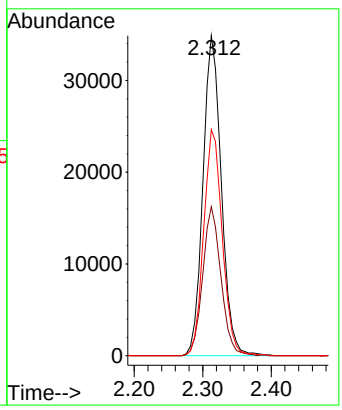
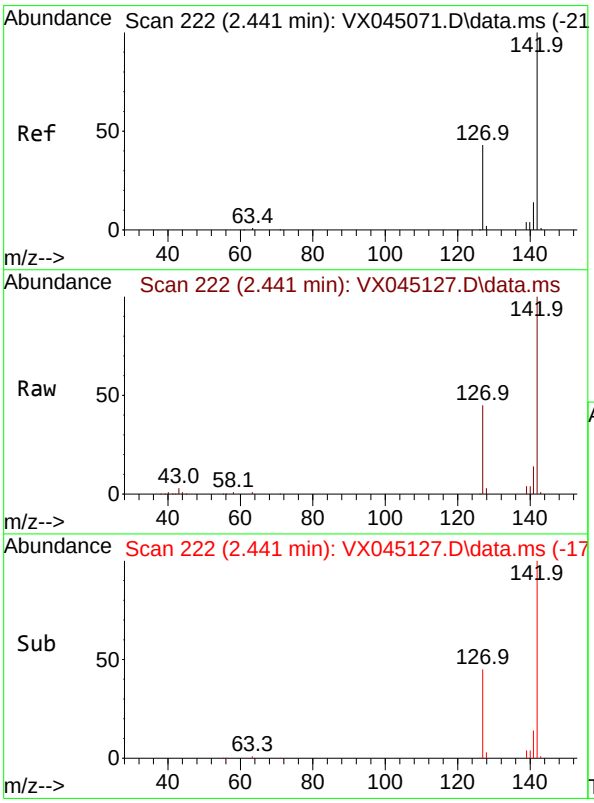
Supervised By :Mahesh Dadoda 03/06/2025

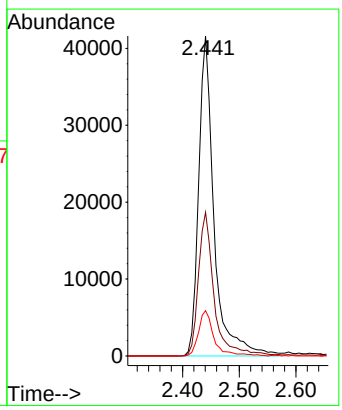


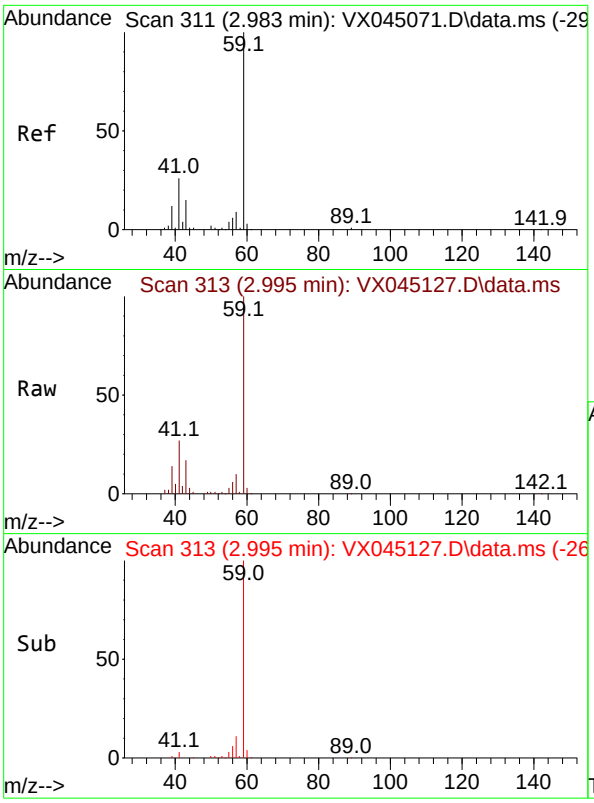


#10
Methyl Iodide
Concen: 48.082 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.000 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion:142 Resp: 78420

Ion	Ratio	Lower	Upper
142	100		
127	45.8	35.4	53.2
141	14.2	11.6	17.4





#11
Tert butyl alcohol
Concen: 178.760 ug/l
RT: 2.995 min Scan# 3
Delta R.T. 0.012 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion: 59 Resp: 6047

Ion	Ratio	Lower	Upper
59	100		
57	10.0	7.8	11.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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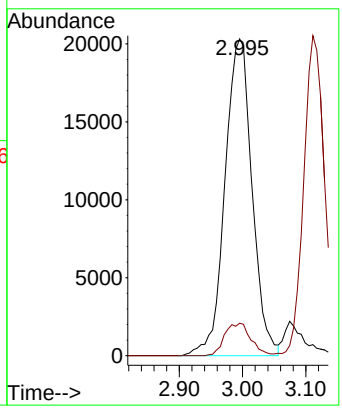
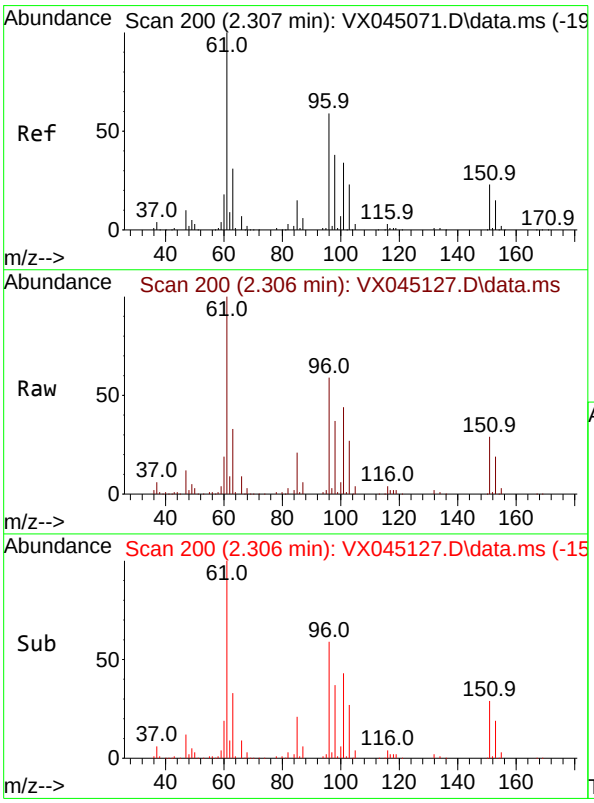
Supervised By :Mahesh Dadoda 03/06/2025

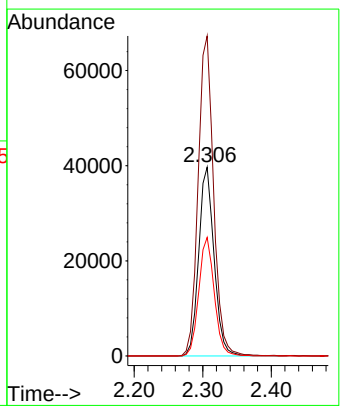


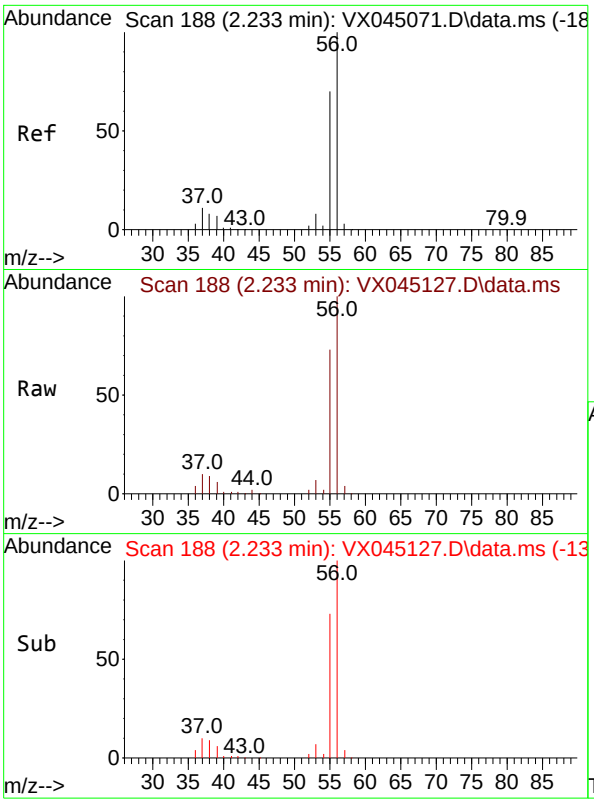


#12
1,1-Dichloroethene
Concen: 44.972 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.000 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion: 96 Resp: 62054

Ion	Ratio	Lower	Upper
96	100		
61	169.5	134.6	202.0
98	62.8	51.0	76.6





#13
Acrolein
Concen: 239.177 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion: 56 Resp: 9354

Ion	Ratio	Lower	Upper
56	100		
55	71.8	56.2	84.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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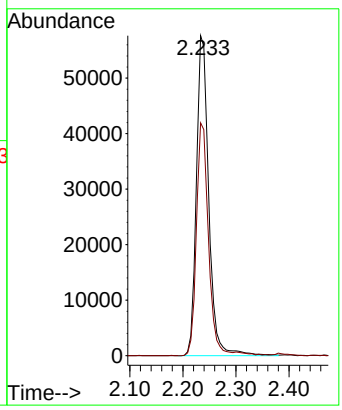
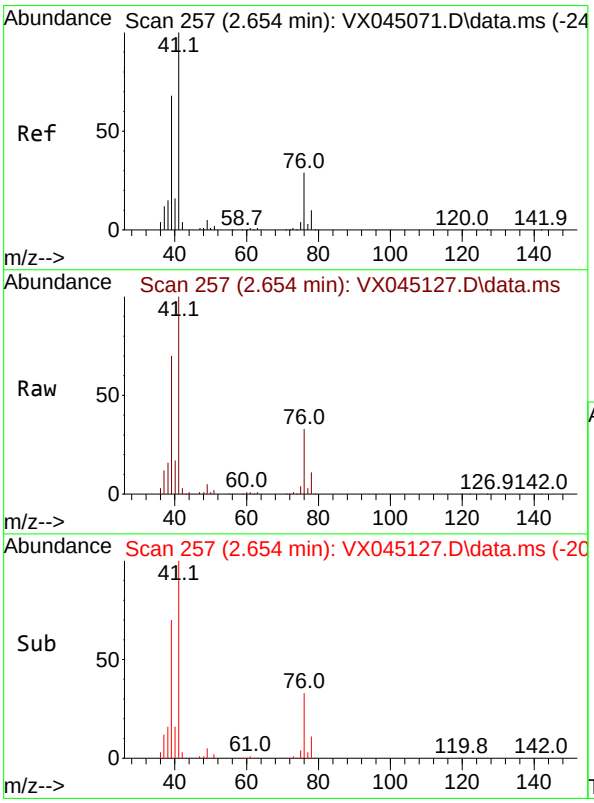
Reviewed By :John Carlone 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025

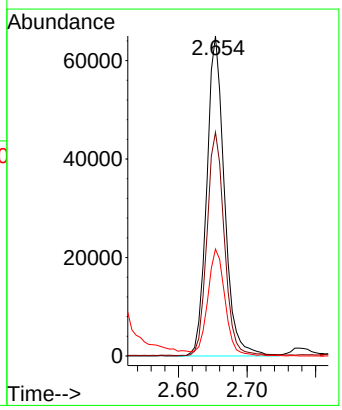


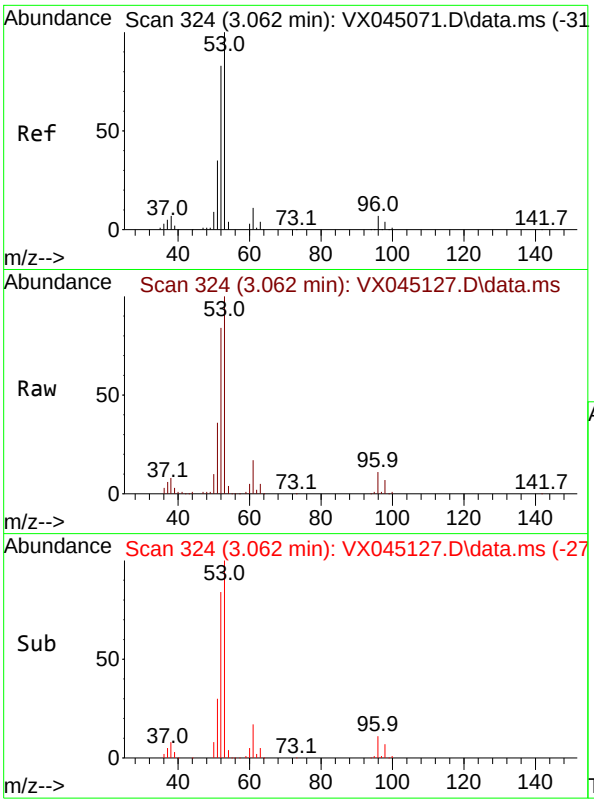


#14
Allyl chloride
Concen: 47.573 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion: 41 Resp: 116846

Ion	Ratio	Lower	Upper
41	100		
39	68.4	53.8	80.8
76	33.0	25.2	37.8





#15
Acrylonitrile
Concen: 216.227 ug/l
RT: 3.062 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion: 53 Resp: 19606

Ion	Ratio	Lower	Upper
53	100		
52	83.4	66.2	99.2
51	35.9	29.0	43.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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Reviewed By :John Carlone 03/06/2025
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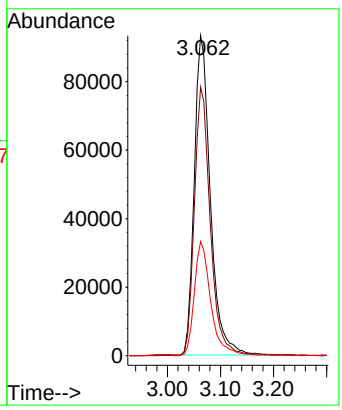
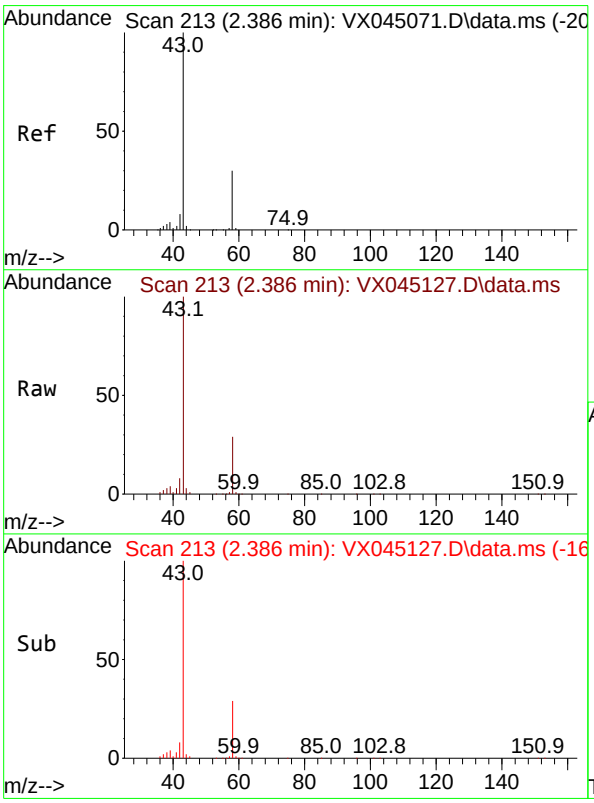
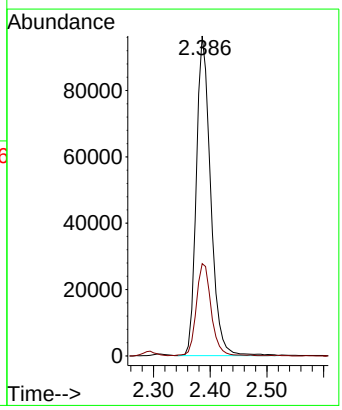


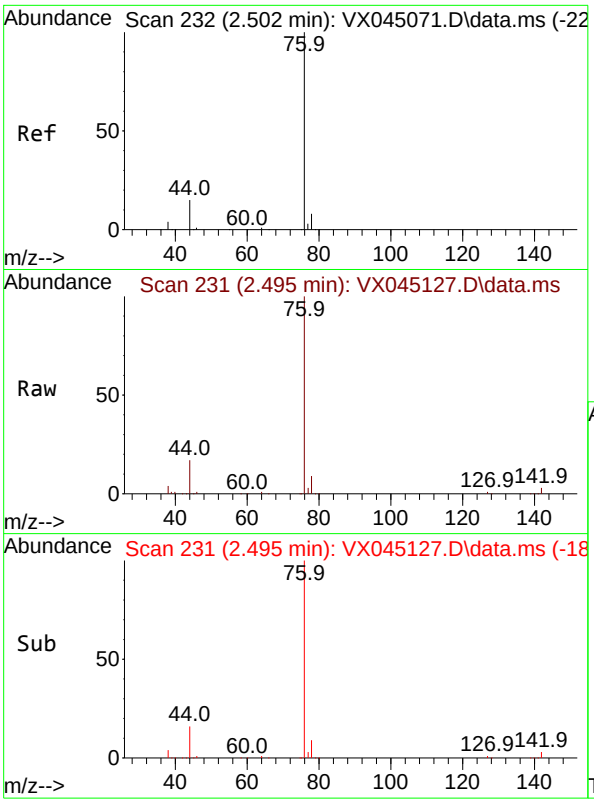


#16
Acetone
Concen: 203.698 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.000 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion: 43 Resp: 168809

Ion	Ratio	Lower	Upper
43	100		
58	28.7	24.2	36.4





#17
Carbon Disulfide
Concen: 44.364 ug/l
RT: 2.495 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion: 76 Resp: 16304

Ion	Ratio	Lower	Upper
76	100		
78	9.4	6.6	9.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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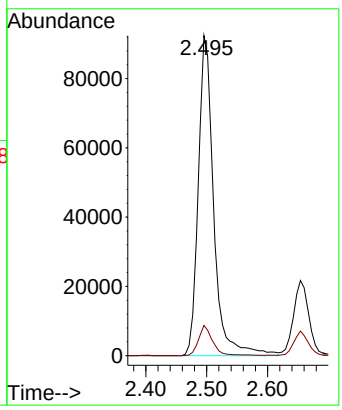
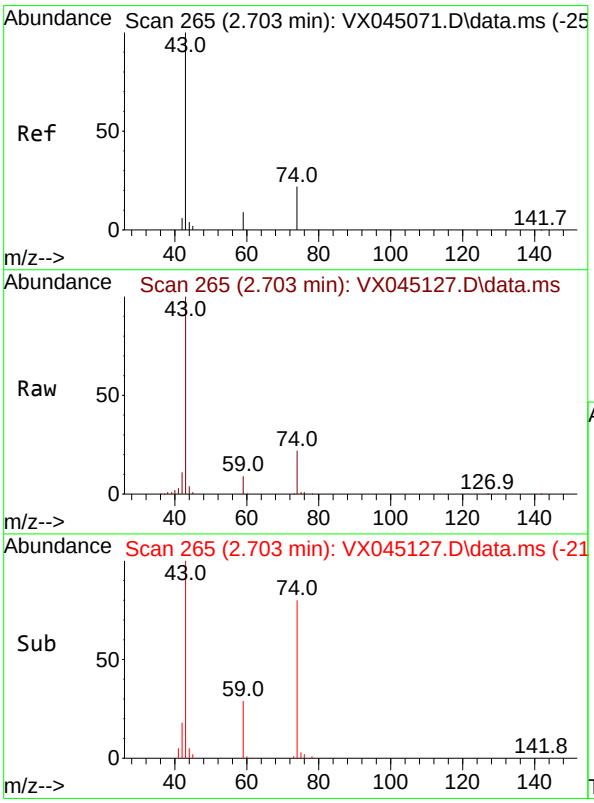
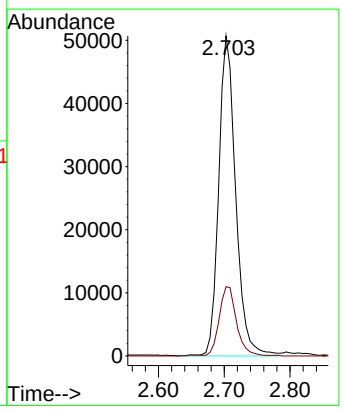


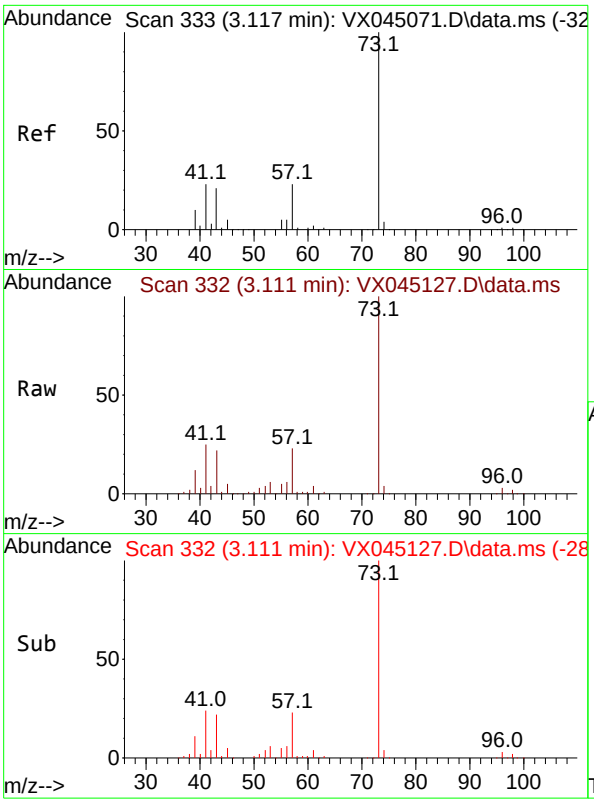


#18
Methyl Acetate
Concen: 45.649 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion: 43 Resp: 91008

Ion	Ratio	Lower	Upper
43	100		
74	22.2	17.4	26.2





#19
Methyl tert-butyl Ether
Concen: 44.990 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion: 73 Resp: 20827

Ion	Ratio	Lower	Upper
73	100		
57	23.1	18.5	27.7

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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Reviewed By :John Carlone 03/06/2025
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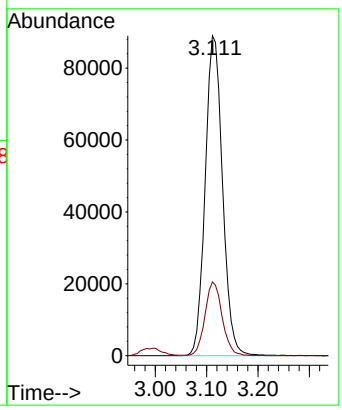
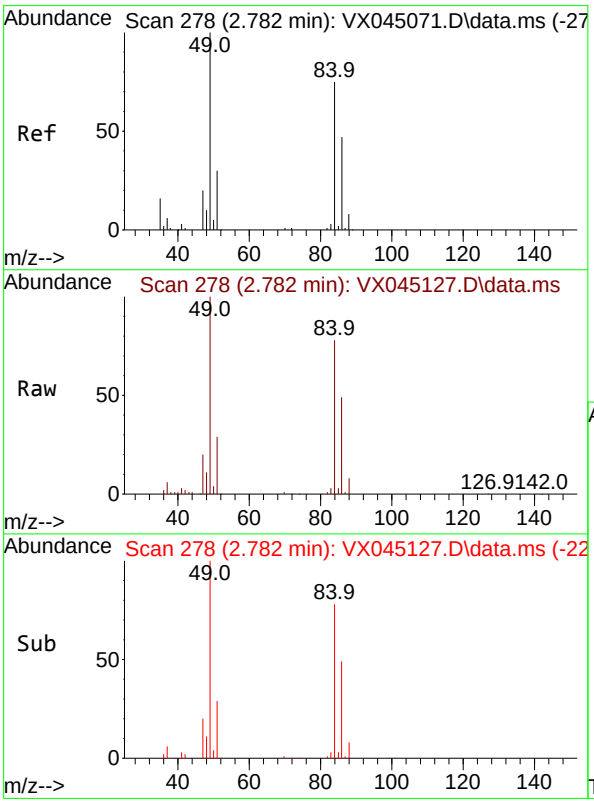
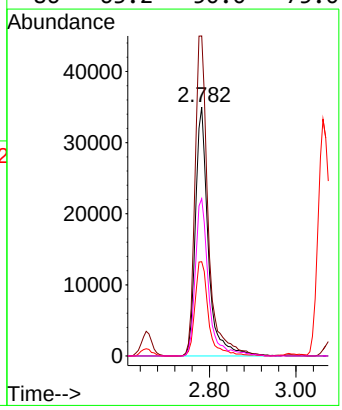


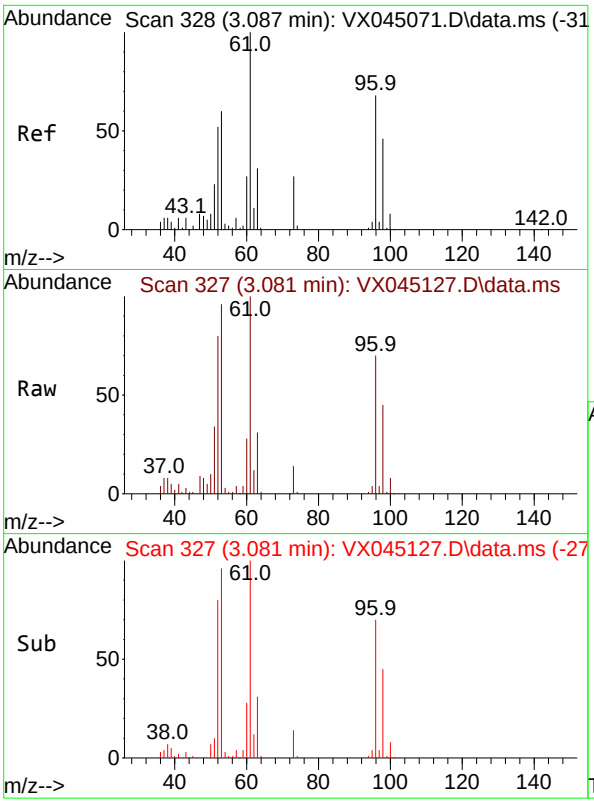


#20
Methylene Chloride
Concen: 43.757 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion: 84 Resp: 71831

Ion	Ratio	Lower	Upper
84	100		
49	128.6	106.5	159.7
51	37.9	32.1	48.1
86	63.2	50.0	75.0





#21
trans-1,2-Dichloroethene
Concen: 46.997 ug/l
RT: 3.081 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion: 96 Resp: 6406

Ion	Ratio	Lower	Upper
96	100		
61	143.1	117.0	175.4
98	64.6	53.4	80.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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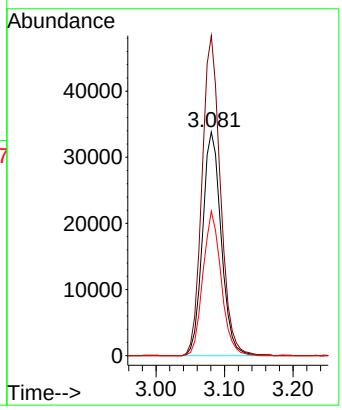
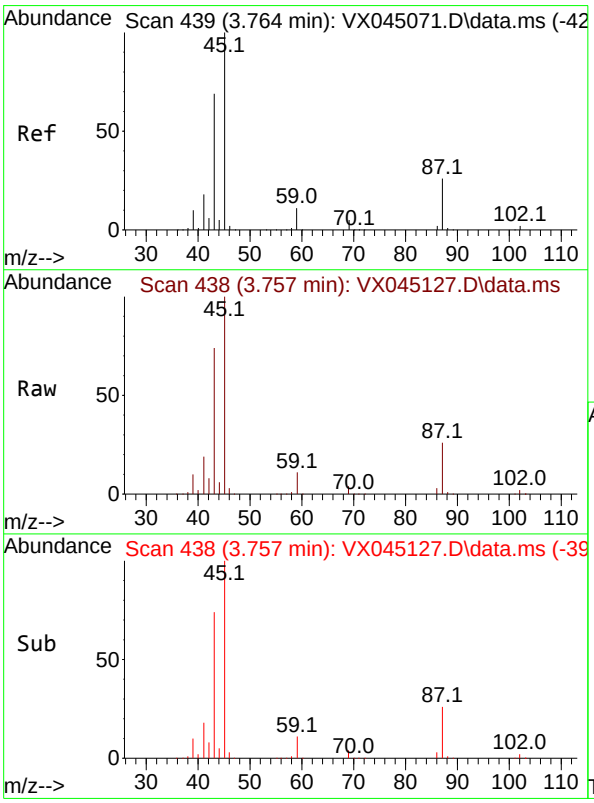
Reviewed By :John Carlone 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025

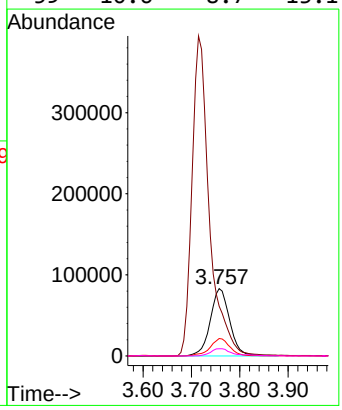


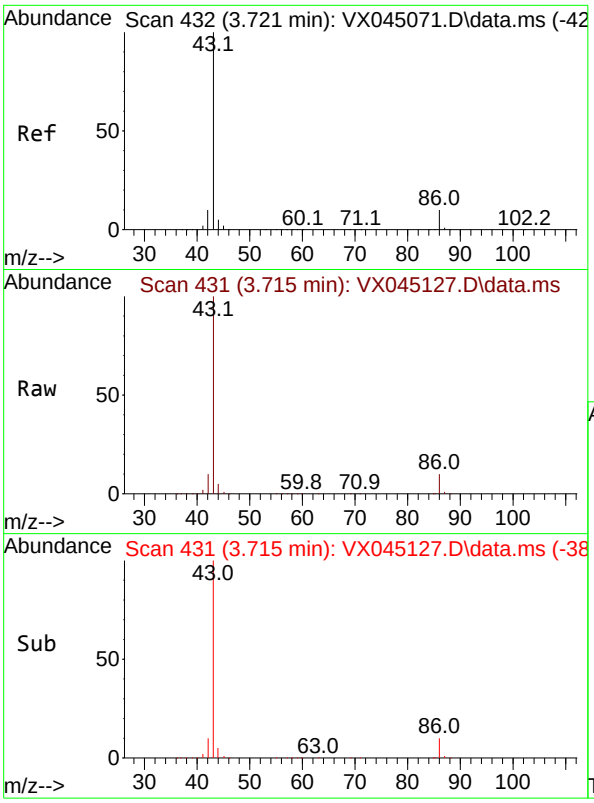


#22
Diisopropyl ether
Concen: 46.611 ug/l
RT: 3.757 min Scan# 438
Delta R.T. -0.006 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion: 45 Resp: 232828

Ion	Ratio	Lower	Upper
45	100		
43	73.2	54.9	82.3
87	25.8	21.0	31.4
59	10.6	8.7	13.1





#23
Vinyl Acetate
Concen: 237.095 ug/l
RT: 3.715 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion: 43 Resp: 98833

Ion	Ratio	Lower	Upper
43	100		
86	9.9	8.1	12.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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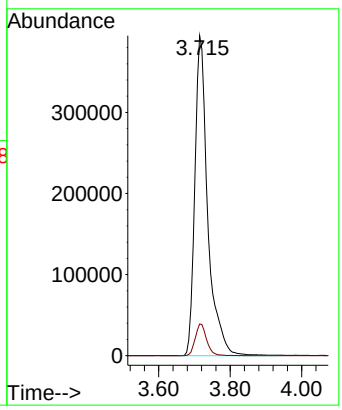
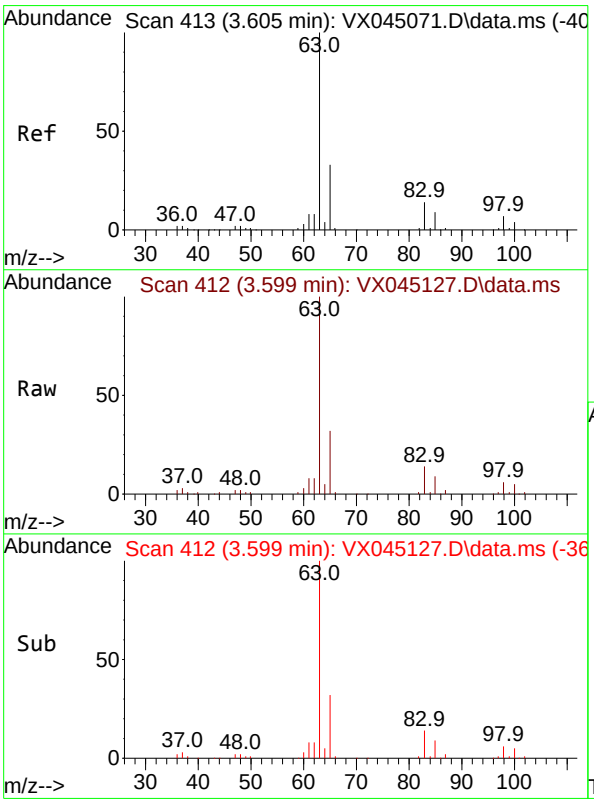
Reviewed By :John Carlone 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025

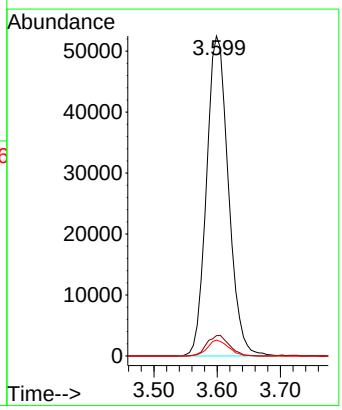


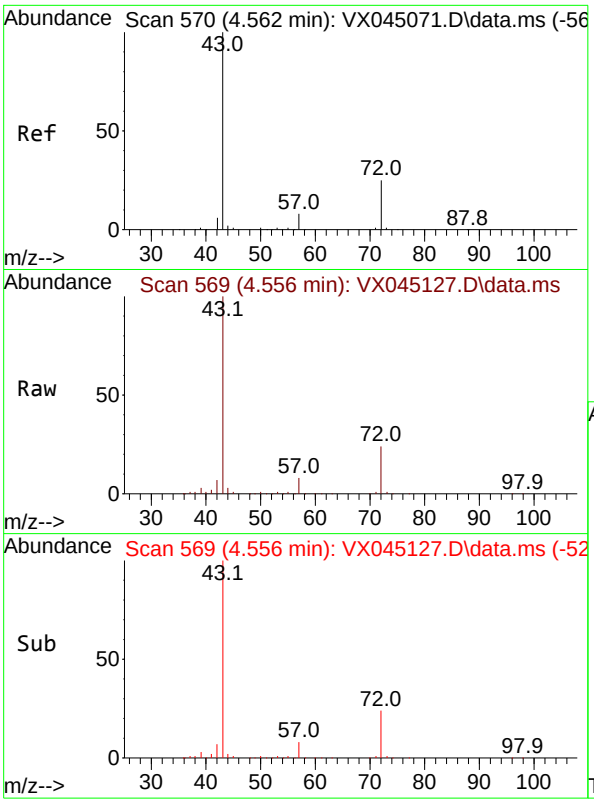


#24
1,1-Dichloroethane
Concen: 45.046 ug/l
RT: 3.599 min Scan# 412
Delta R.T. -0.006 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion: 63 Resp: 126104

Ion	Ratio	Lower	Upper
63	100		
98	6.4	3.4	10.2
100	4.9	2.1	6.5





#25
2-Butanone
Concen: 219.773 ug/l
RT: 4.556 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion: 43 Resp: 27415

Ion	Ratio	Lower	Upper
43	100		
72	23.6	20.0	30.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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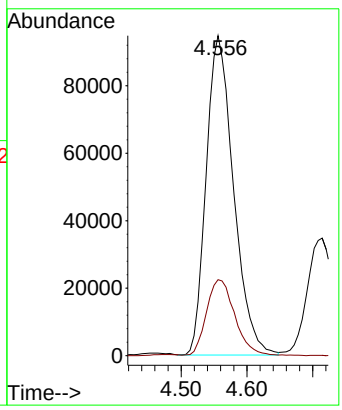
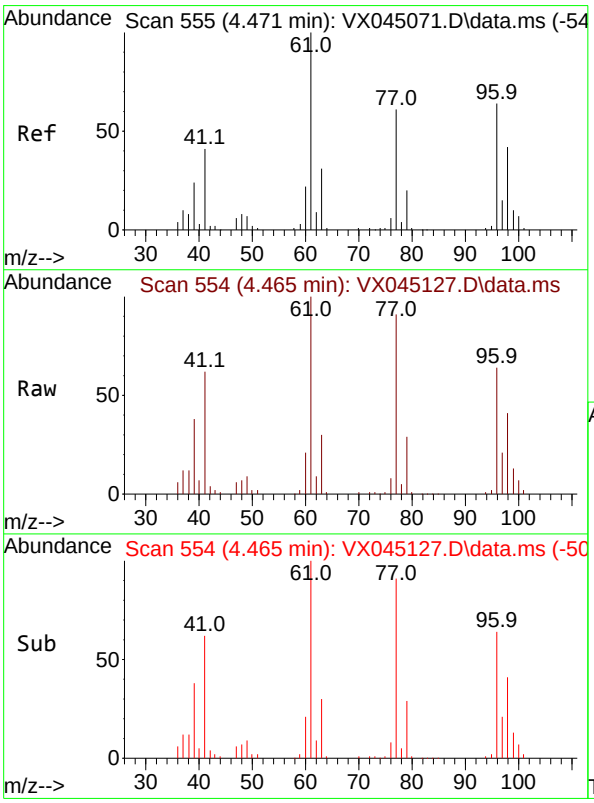
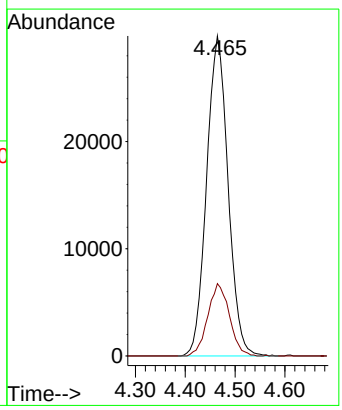


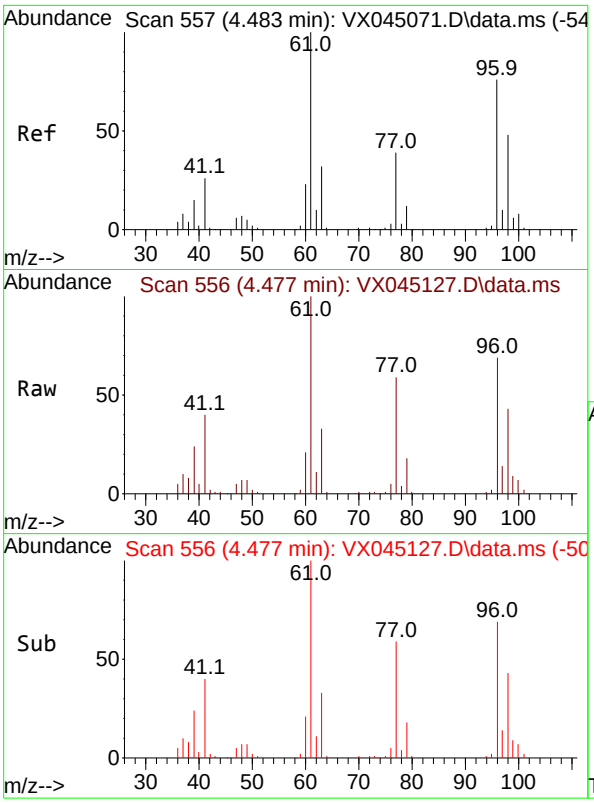


#26
2,2-Dichloropropane
Concen: 67.949 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.006 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion: 77 Resp: 89223

Ion	Ratio	Lower	Upper
77	100		
97	22.8	12.4	37.0





#27
cis-1,2-Dichloroethene
Concen: 45.662 ug/l
RT: 4.477 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion: 96 Resp: 7683

Ion	Ratio	Lower	Upper
96	100		
61	150.1	0.0	283.2
98	64.4	0.0	128.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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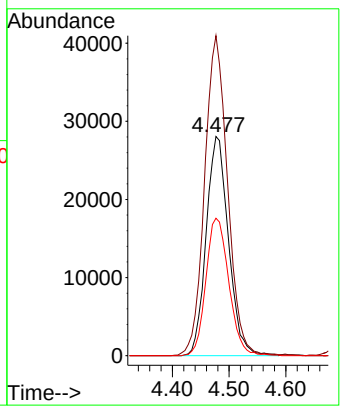
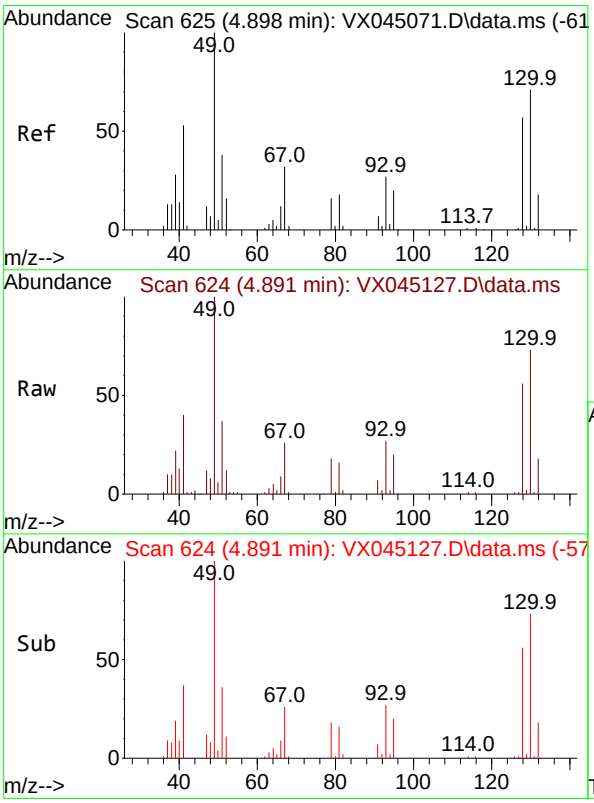
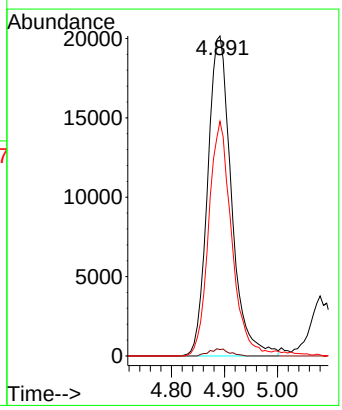


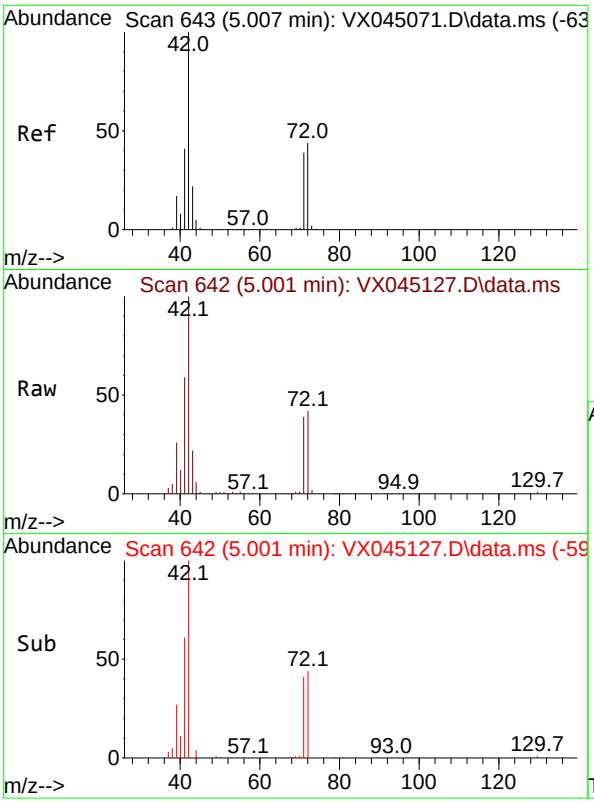


#28
Bromochloromethane
Concen: 47.005 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion: 49 Resp: 62721

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	3.4
130	70.7	56.1	84.1





#29
Tetrahydrofuran
Concen: 214.470 ug/l
RT: 5.001 min Scan# 64
Delta R.T. -0.006 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion: 42 Resp: 17966

Ion	Ratio	Lower	Upper
42	100		
72	42.4	34.1	51.1
71	39.1	31.4	47.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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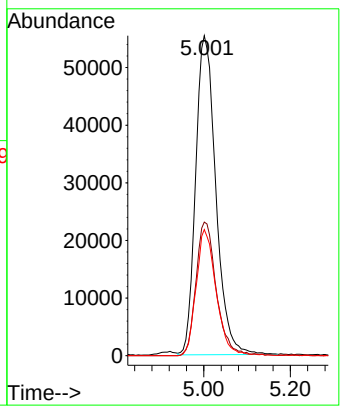
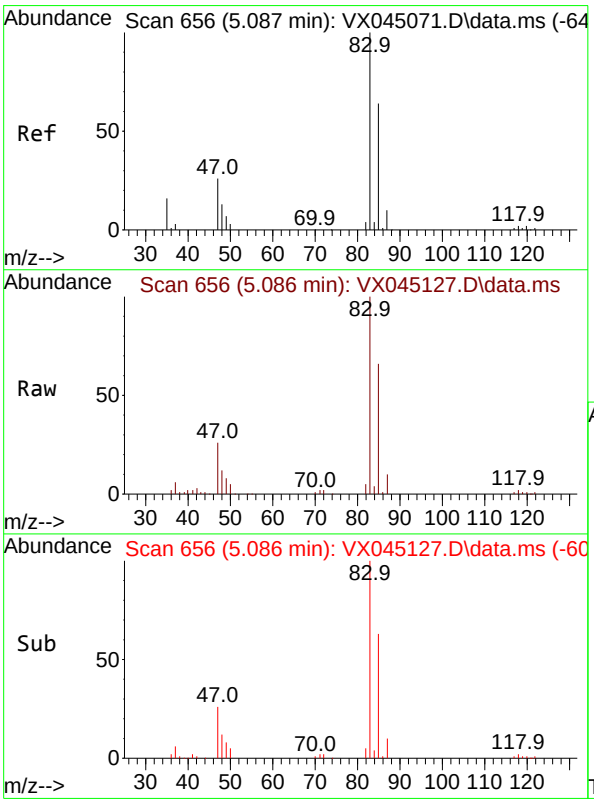
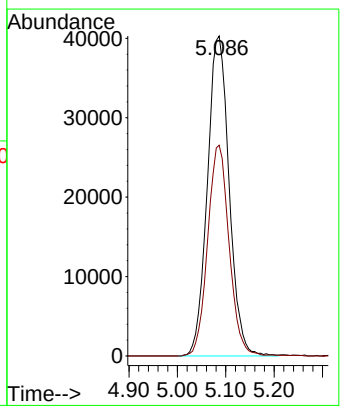


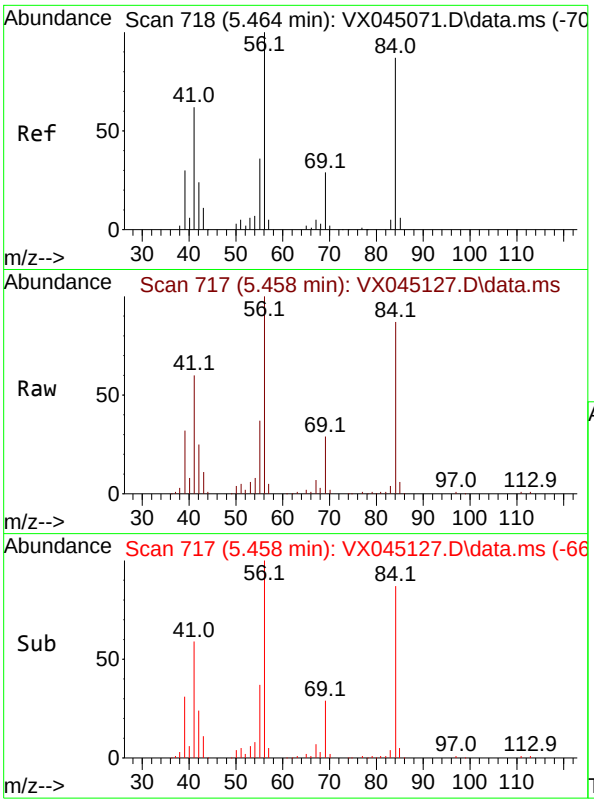


#30
Chloroform
Concen: 45.331 ug/l
RT: 5.086 min Scan# 656
Delta R.T. -0.000 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion: 83 Resp: 126092

Ion	Ratio	Lower	Upper
83	100		
85	65.8	51.4	77.2





#31
Cyclohexane
Concen: 47.845 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion: 56 Resp: 116269

Ion	Ratio	Lower	Upper
56	100		
69	29.4	23.4	35.2
84	85.8	69.4	104.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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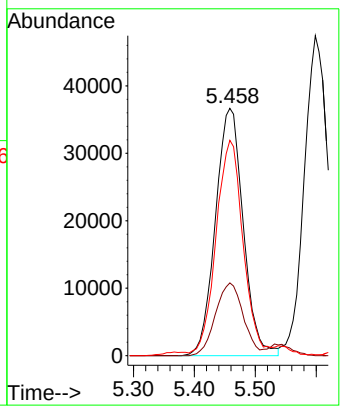
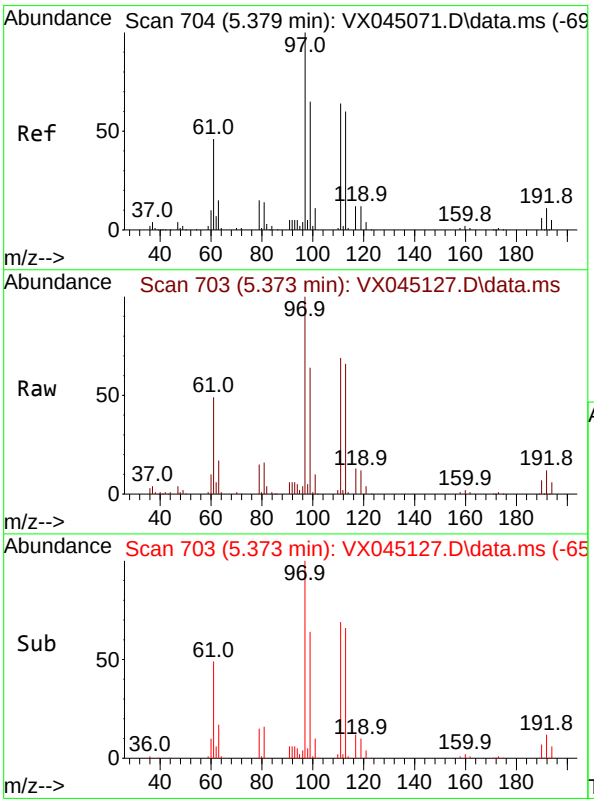
Reviewed By :John Carlone 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025

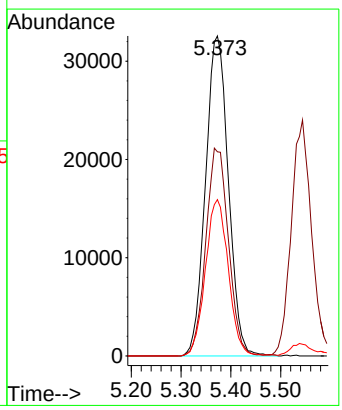


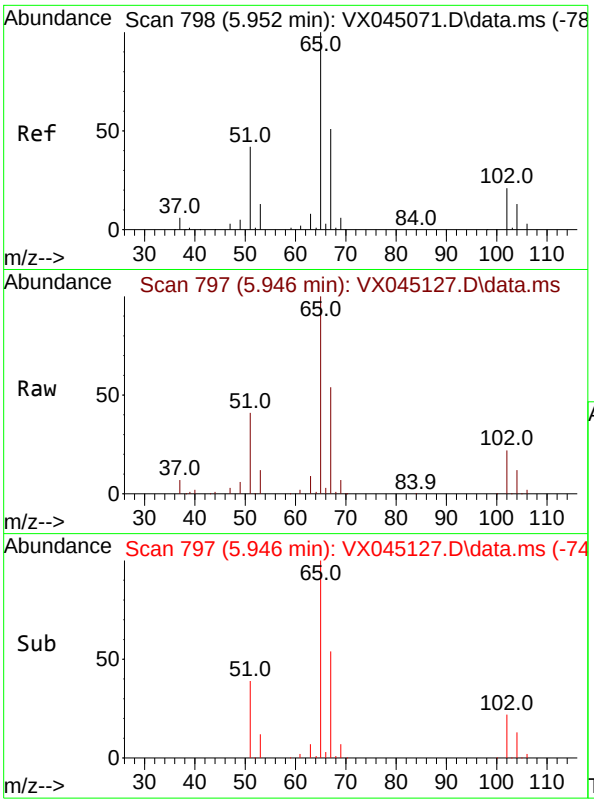


#32
1,1,1-Trichloroethane
Concen: 46.154 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.006 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion: 97 Resp: 103689

Ion	Ratio	Lower	Upper
97	100		
99	64.5	51.6	77.4
61	49.2	38.4	57.6





#33
1,2-Dichloroethane-d4
Concen: 46.738 ug/l
RT: 5.946 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion: 65 Resp: 8348

Ion	Ratio	Lower	Upper
65	100		
67	52.5	0.0	106.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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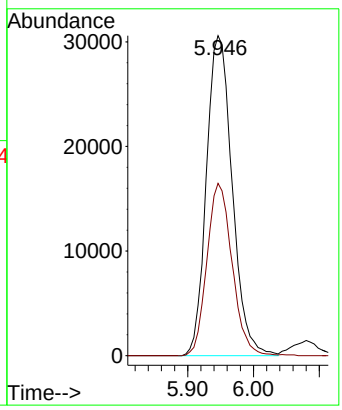
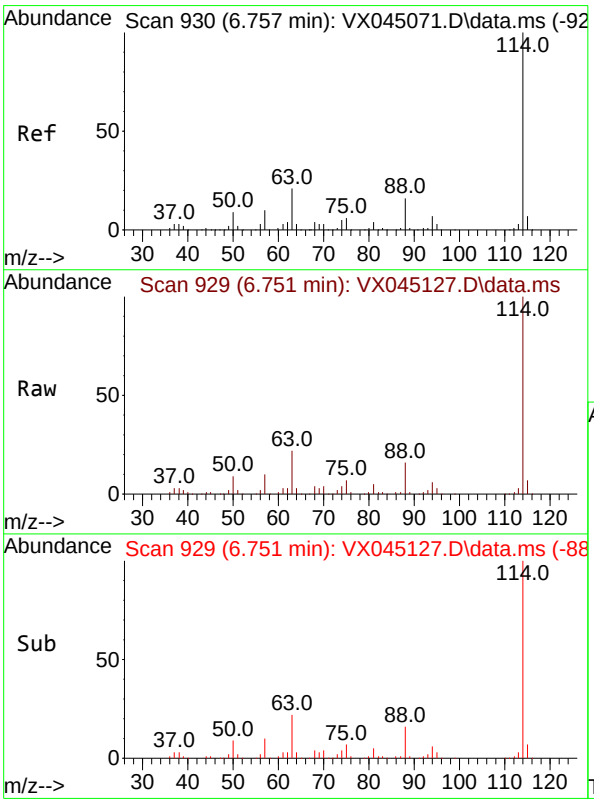
Supervised By :Mahesh Dadoda 03/06/2025

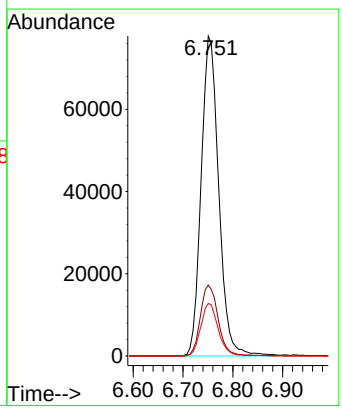


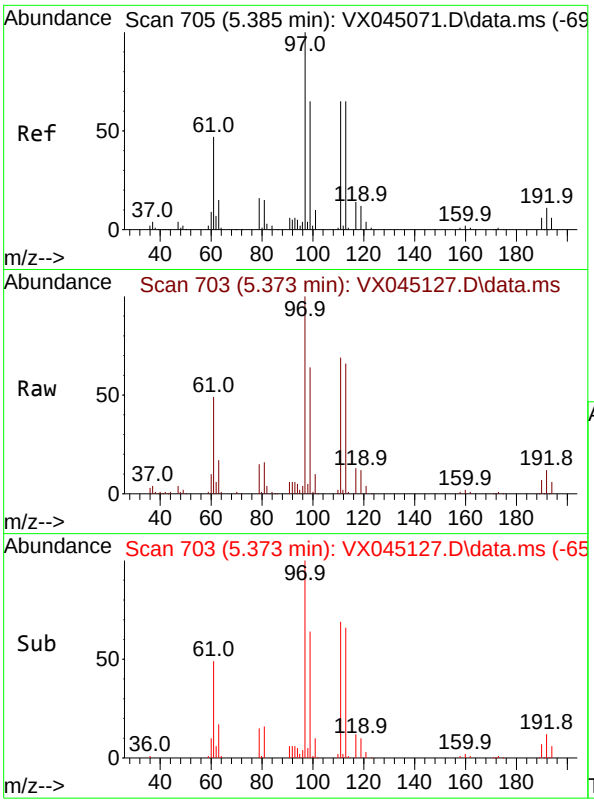


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. -0.006 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion:114 Resp: 190470

Ion	Ratio	Lower	Upper
114	100		
63	22.2	0.0	41.8
88	16.4	0.0	32.8





#35
Dibromofluoromethane
Concen: 51.467 ug/l
RT: 5.373 min Scan# 7(
Delta R.T. -0.012 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion:113 Resp: 6555(

Ion	Ratio	Lower	Upper
113	100		
111	102.1	81.8	122.6
192	17.7	14.3	21.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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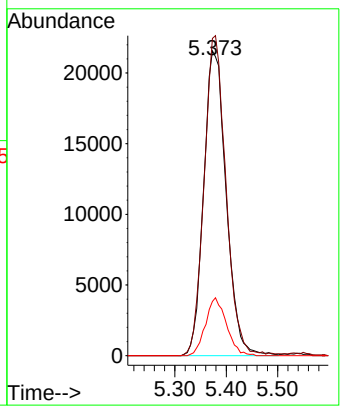
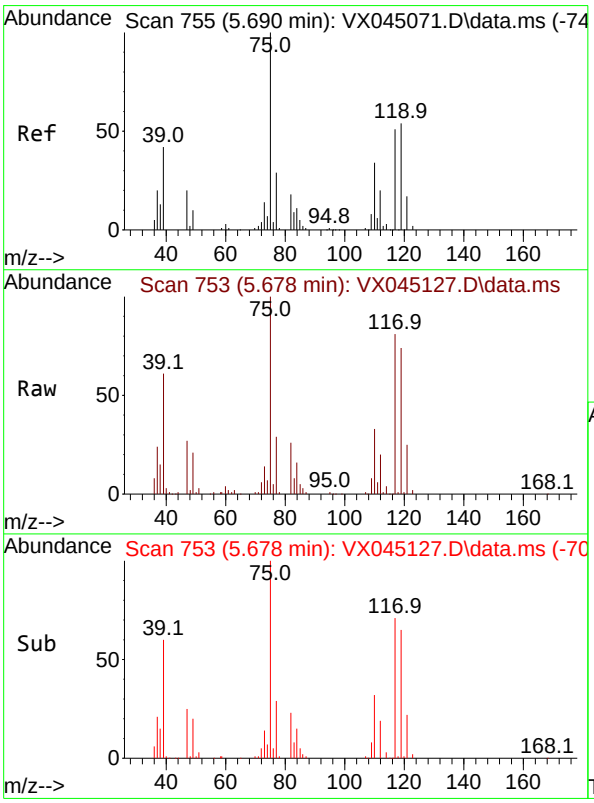
Reviewed By :John Carlone 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025

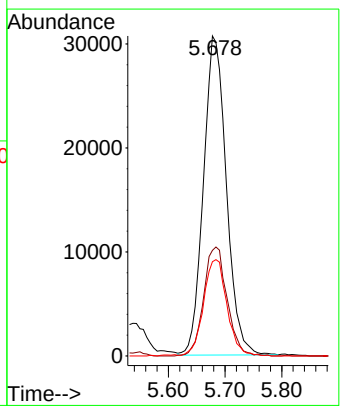


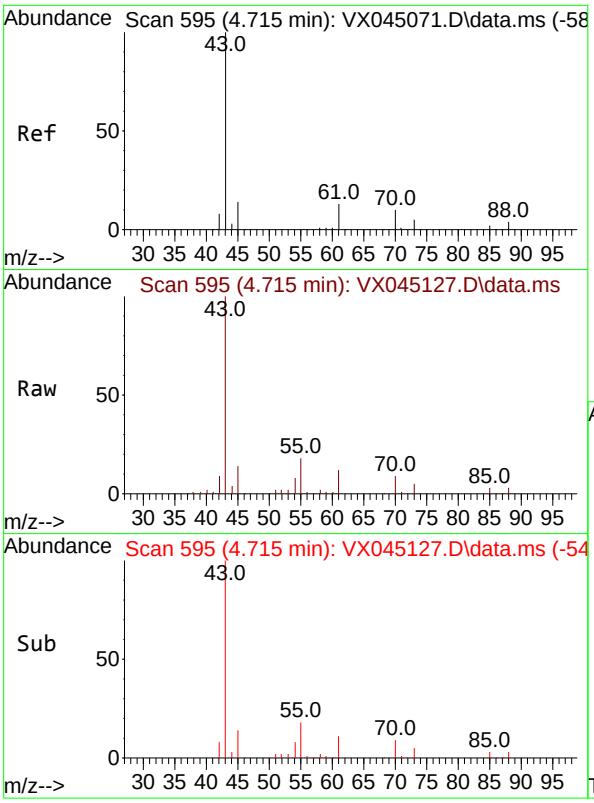


#36
1,1-Dichloropropene
Concen: 49.270 ug/l
RT: 5.678 min Scan# 753
Delta R.T. -0.012 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion: 75 Resp: 86057

Ion	Ratio	Lower	Upper
75	100		
110	35.0	16.9	50.6
77	31.0	24.5	36.7





#37
Ethyl Acetate
Concen: 46.871 ug/l
RT: 4.715 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion: 43 Resp: 10549

Ion	Ratio	Lower	Upper
43	100		
61	13.2	10.8	16.2
70	9.4	7.7	11.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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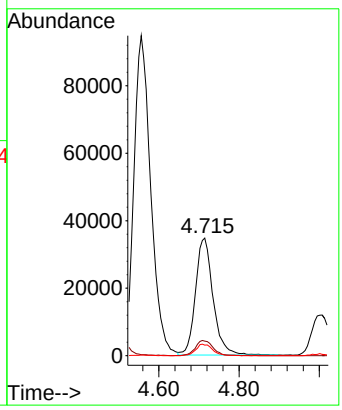
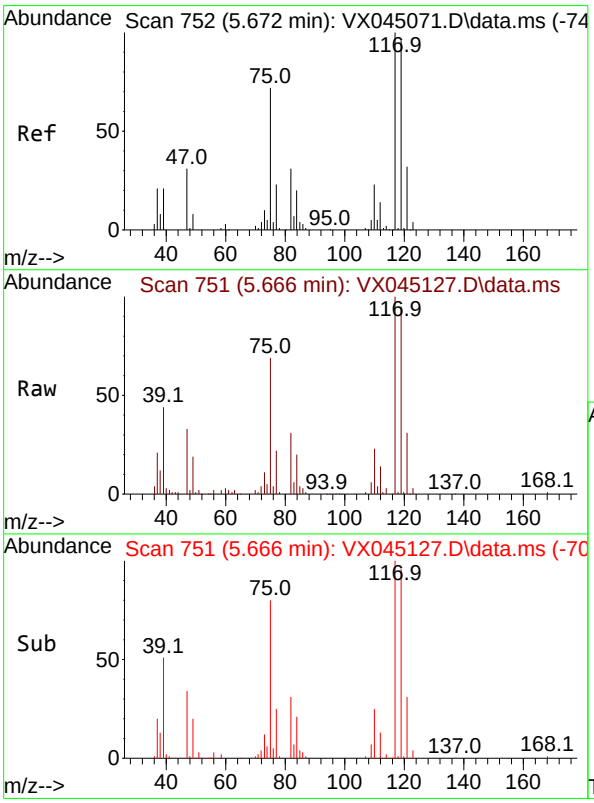
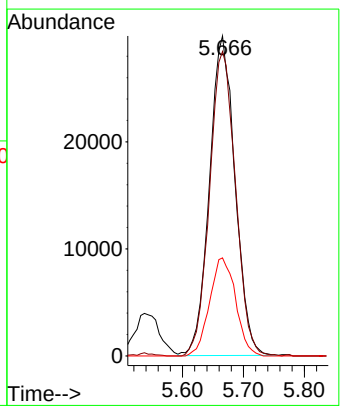


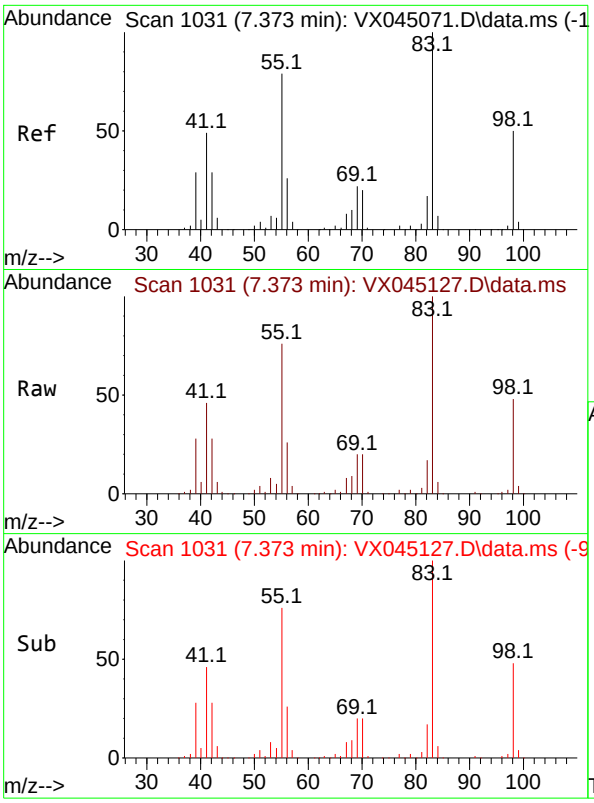


#38
Carbon Tetrachloride
Concen: 49.086 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion:117 Resp: 87042

Ion	Ratio	Lower	Upper
117	100		
119	95.3	76.7	115.1
121	30.7	25.5	38.3





#39
Methylcyclohexane
Concen: 55.384 ug/l
RT: 7.373 min Scan# 1(
Delta R.T. -0.000 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion: 83 Resp: 11591

Ion	Ratio	Lower	Upper
83	100		
55	76.4	63.0	94.4
98	48.3	39.7	59.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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Reviewed By :John Carlone 03/06/2025
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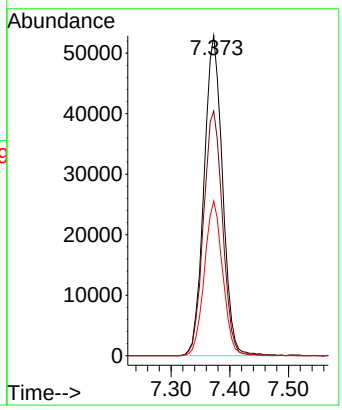
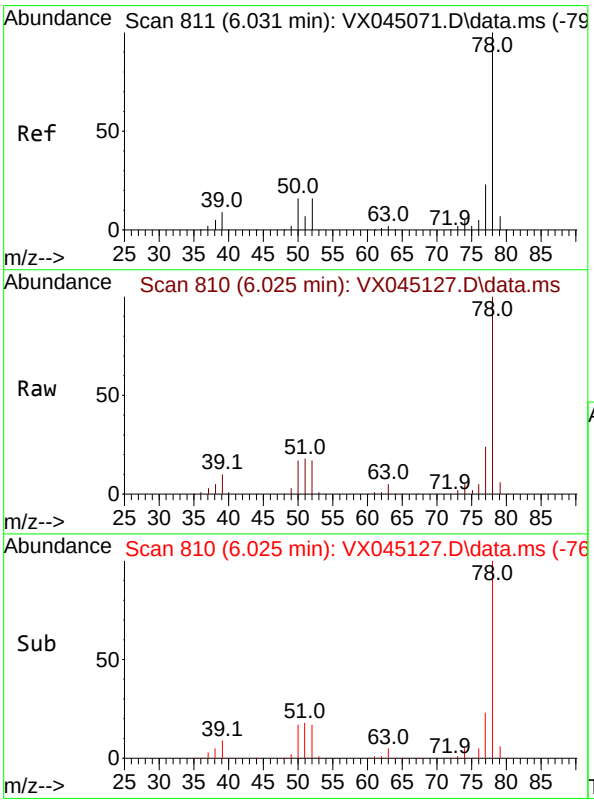
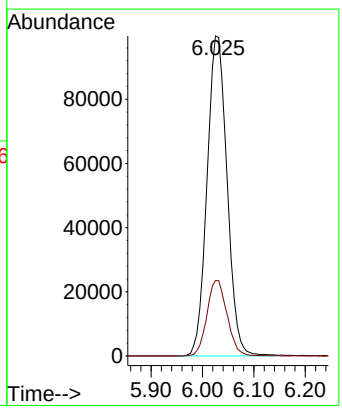


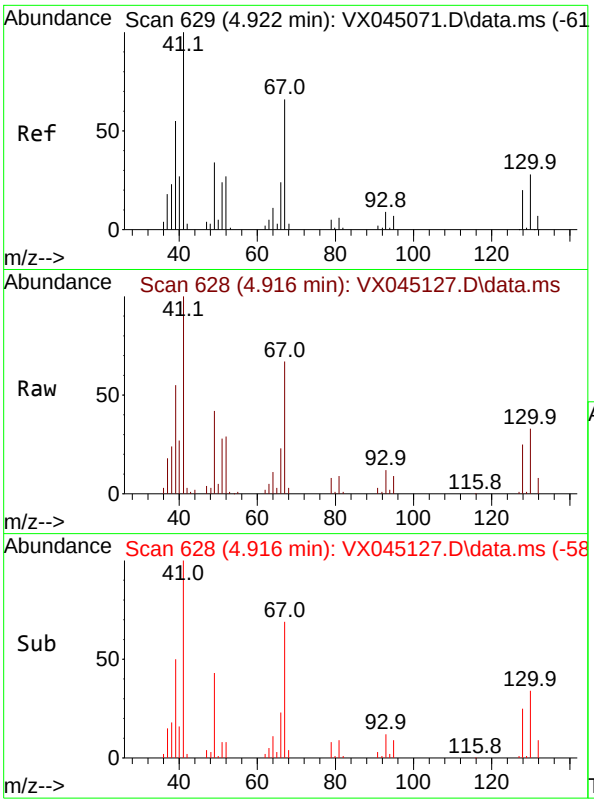


#40
Benzene
Concen: 48.900 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.006 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion: 78 Resp: 269708

Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.8	28.2





#41
Methacrylonitrile
Concen: 49.148 ug/l
RT: 4.916 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

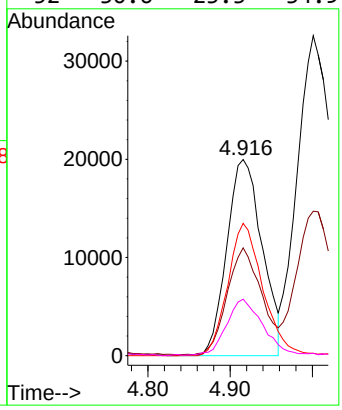
Tgt Ion: 41 Resp: 5981

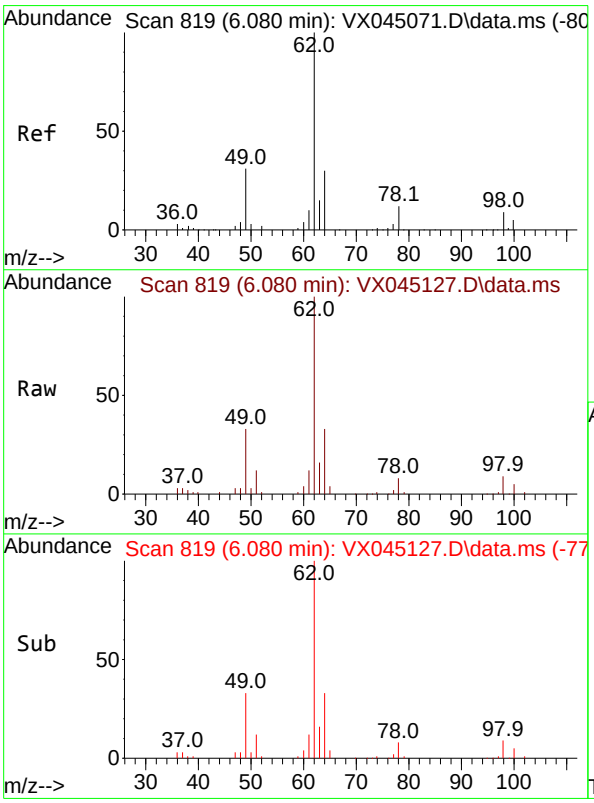
Ion	Ratio	Lower	Upper
41	100		
39	53.4	44.6	67.0
67	67.2	53.9	80.9
52	30.6	23.3	34.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025

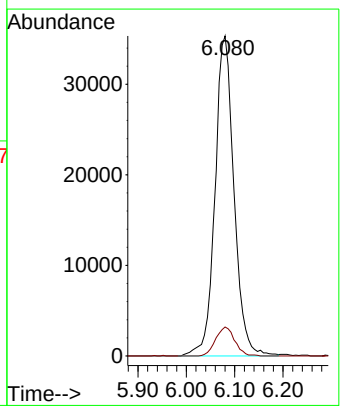


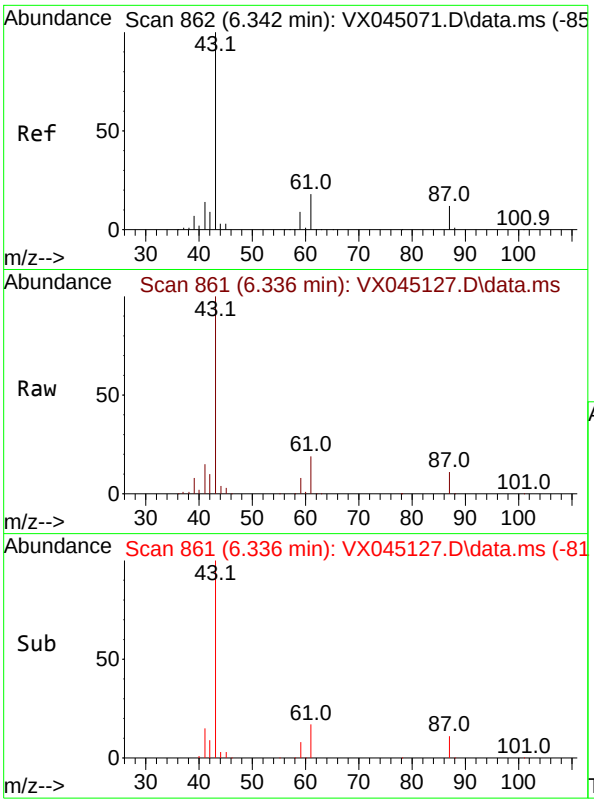


#42
1,2-Dichloroethane
Concen: 48.518 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.000 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion: 62 Resp: 96363

Ion	Ratio	Lower	Upper
62	100		
98	9.1	0.0	18.2





#43
Isopropyl Acetate
Concen: 48.480 ug/l
RT: 6.336 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion: 43 Resp: 16134

Ion	Ratio	Lower	Upper
43	100		
61	18.8	14.9	22.3
87	12.0	9.4	14.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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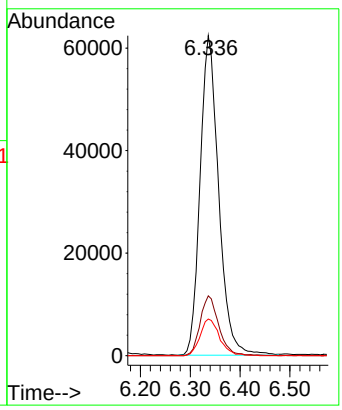
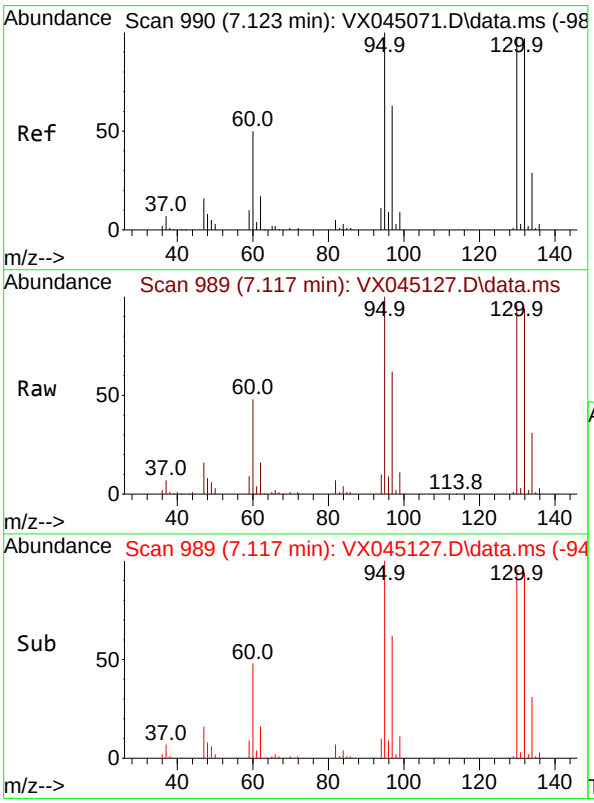
Supervised By :Mahesh Dadoda 03/06/2025

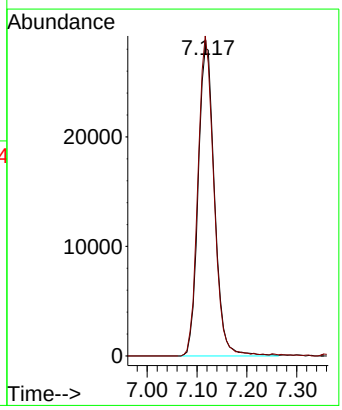


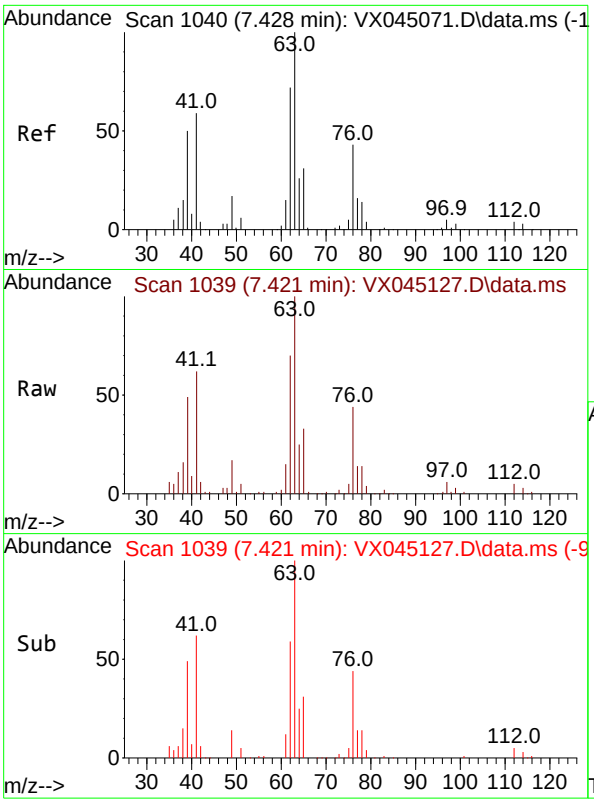


#44
Trichloroethene
Concen: 49.759 ug/l
RT: 7.117 min Scan# 989
Delta R.T. -0.006 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion:130 Resp: 64443

Ion	Ratio	Lower	Upper
130	100		
95	104.0	0.0	205.0





#45
1,2-Dichloropropane
Concen: 47.629 ug/l
RT: 7.421 min Scan# 1(
Delta R.T. -0.006 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion: 63 Resp: 6754

Ion	Ratio	Lower	Upper
63	100		
65	32.6	24.7	37.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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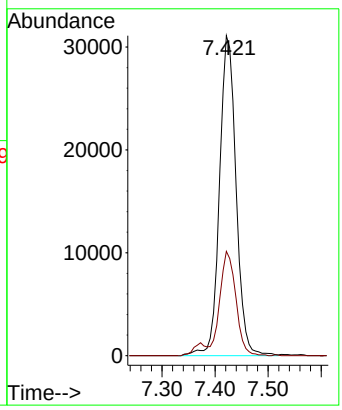
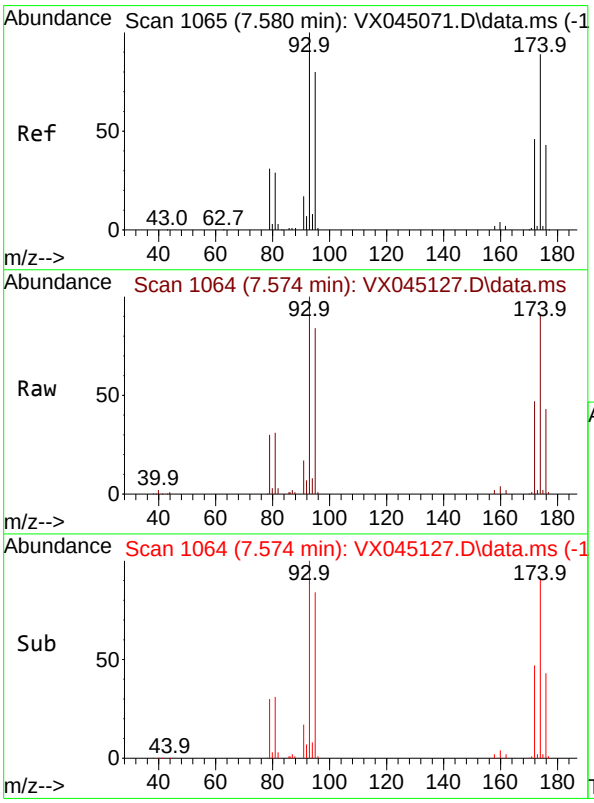
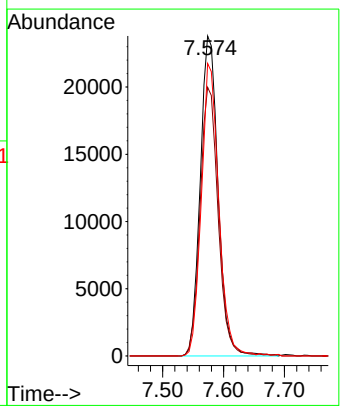


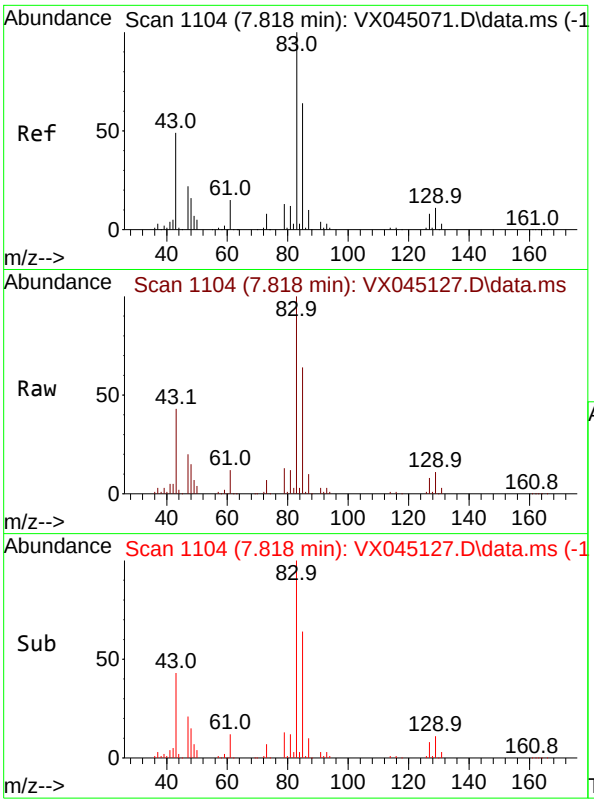


#46
Dibromomethane
Concen: 48.429 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. -0.006 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion: 93 Resp: 48542

Ion	Ratio	Lower	Upper
93	100		
95	85.0	65.8	98.8
174	89.7	72.2	108.2





#47
Bromodichloromethane
Concen: 49.627 ug/l
RT: 7.818 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion: 83 Resp: 9756

Ion	Ratio	Lower	Upper
83	100		
85	64.3	51.1	76.7
127	8.1	6.4	9.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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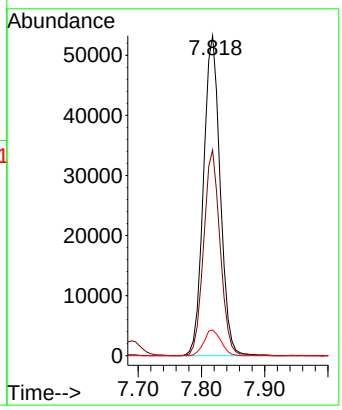
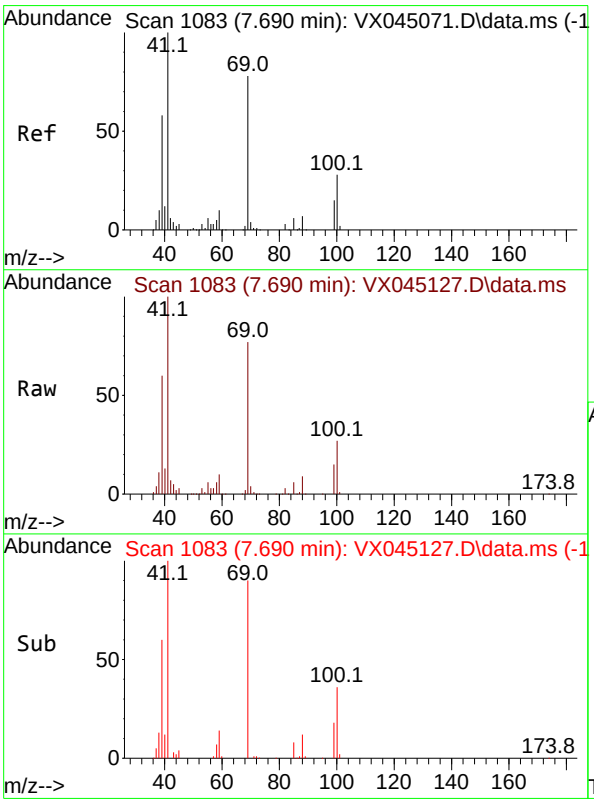
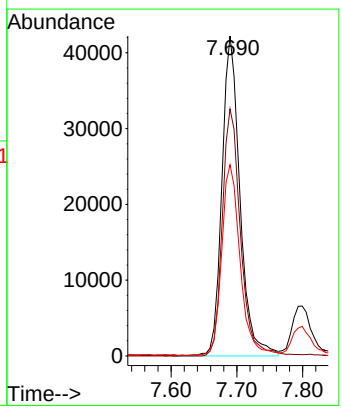


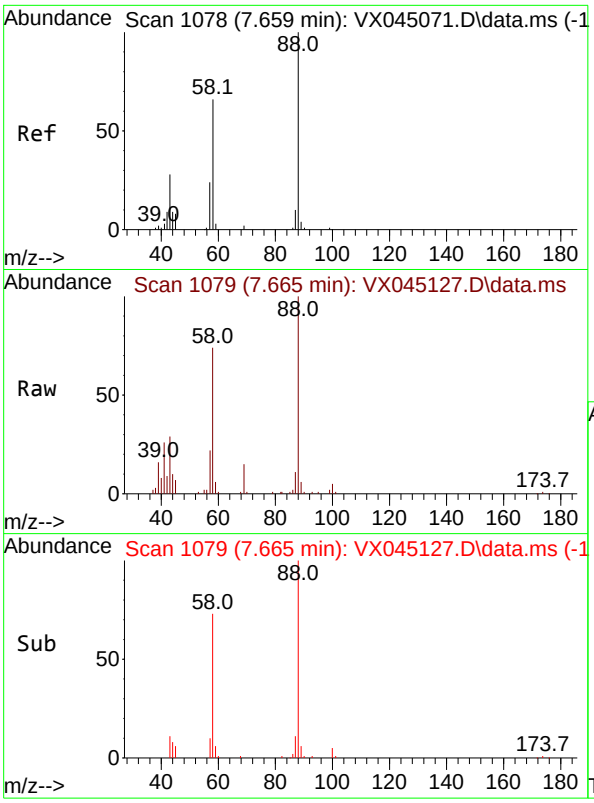


#48
Methyl methacrylate
Concen: 48.288 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. -0.000 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion: 41 Resp: 80625

Ion	Ratio	Lower	Upper
41	100		
69	78.0	63.0	94.6
39	60.5	47.5	71.3





#49
1,4-Dioxane
Concen: 897.247 ug/l
RT: 7.665 min Scan# 1(
Delta R.T. 0.006 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion: 88 Resp: 3160

Ion	Ratio	Lower	Upper
88	100		
43	36.7	28.7	43.1
58	72.4	55.8	83.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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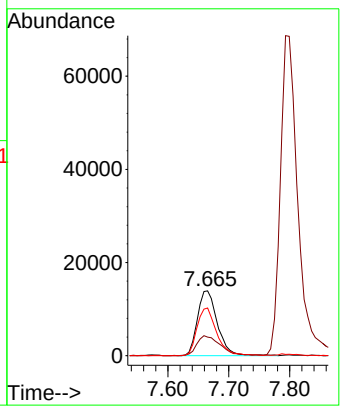
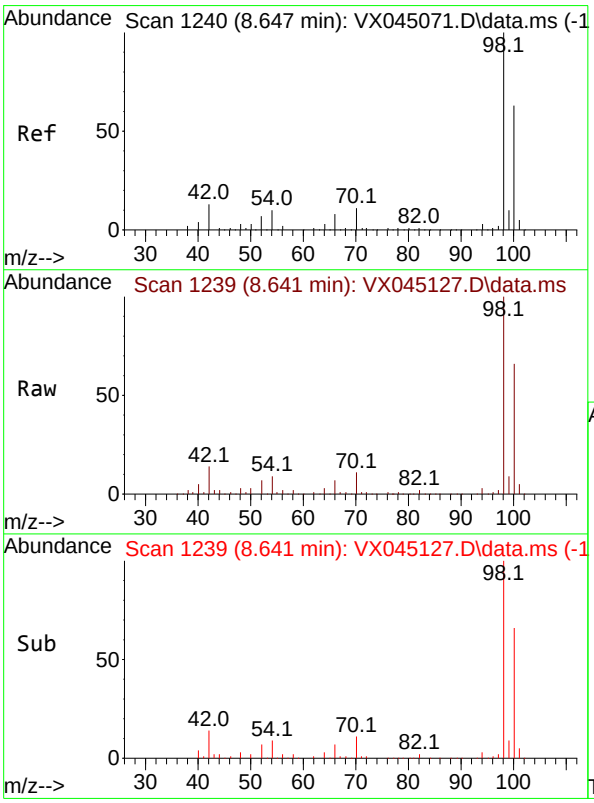
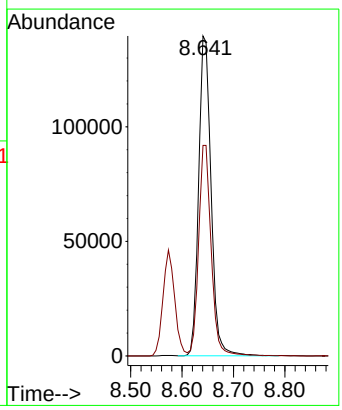


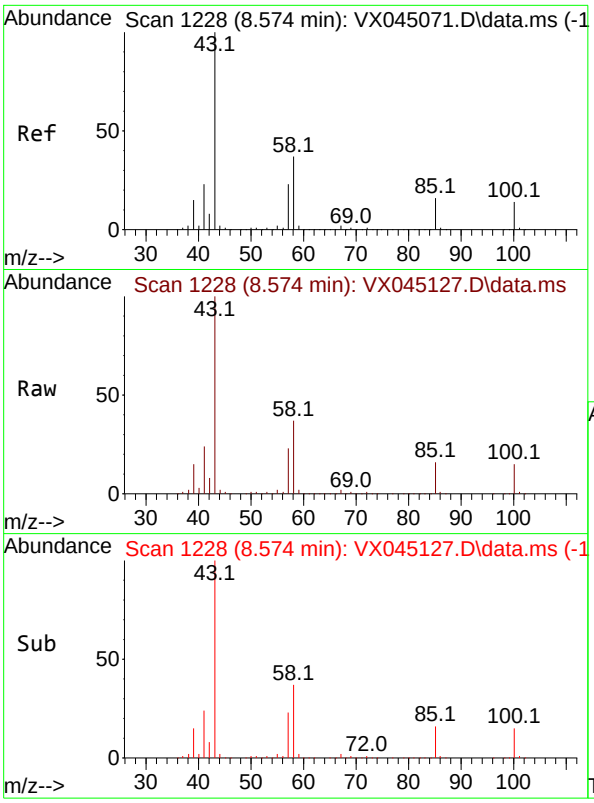


#50
Toluene-d8
Concen: 50.704 ug/l
RT: 8.641 min Scan# 1239
Delta R.T. -0.006 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion: 98 Resp: 234119

Ion	Ratio	Lower	Upper
98	100		
100	66.2	52.0	78.0





#51
4-Methyl-2-Pentanone
Concen: 234.470 ug/l
RT: 8.574 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion: 43 Resp: 52395

Ion	Ratio	Lower	Upper
43	100		
58	36.9	29.2	43.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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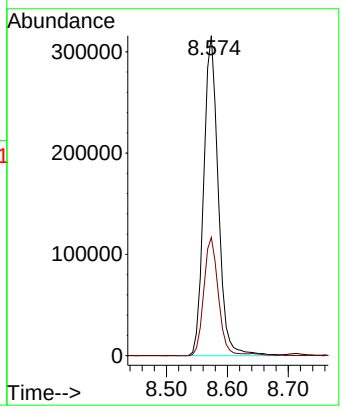
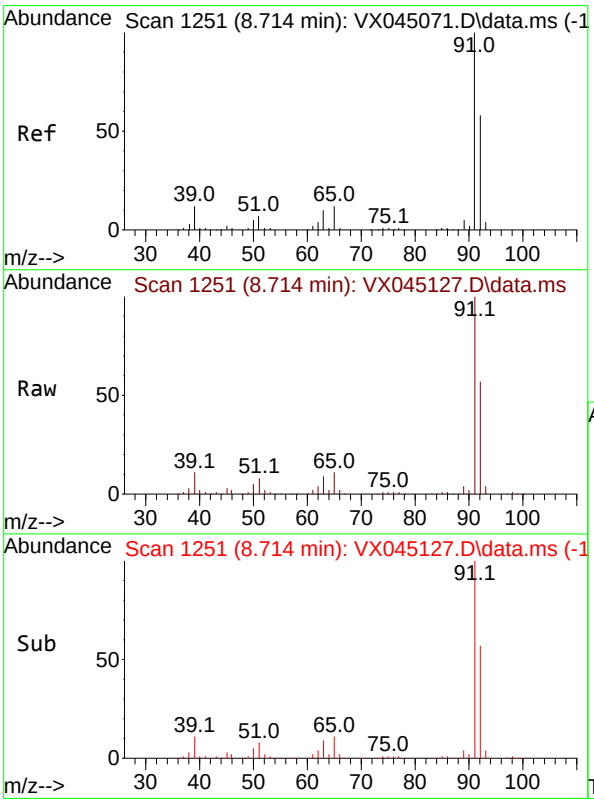
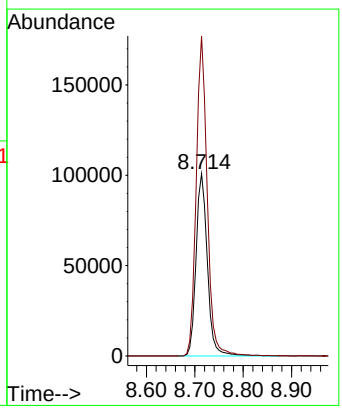


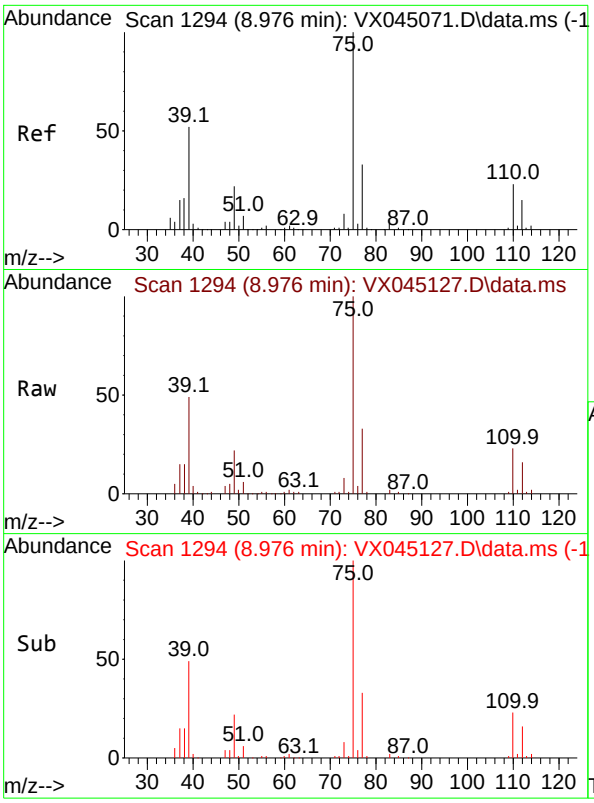


#52
Toluene
Concen: 50.472 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion: 92 Resp: 163330

Ion	Ratio	Lower	Upper
92	100		
91	171.0	138.9	208.3





#53
t-1,3-Dichloropropene
Concen: 53.736 ug/l
RT: 8.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion: 75 Resp: 8832

Ion	Ratio	Lower	Upper
75	100		
77	32.5	26.5	39.7

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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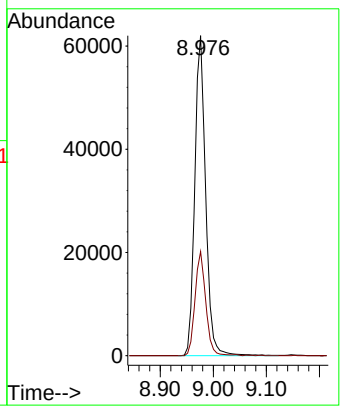
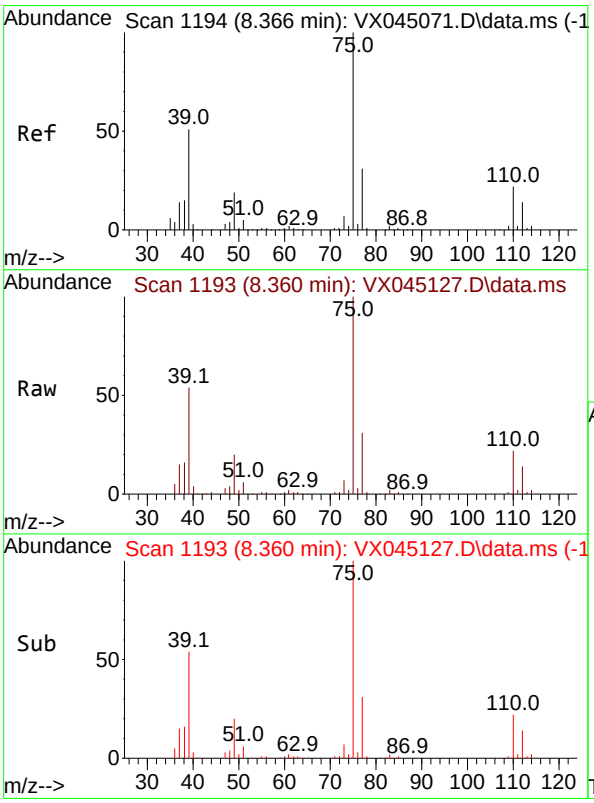
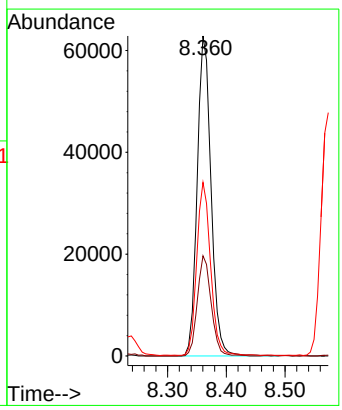


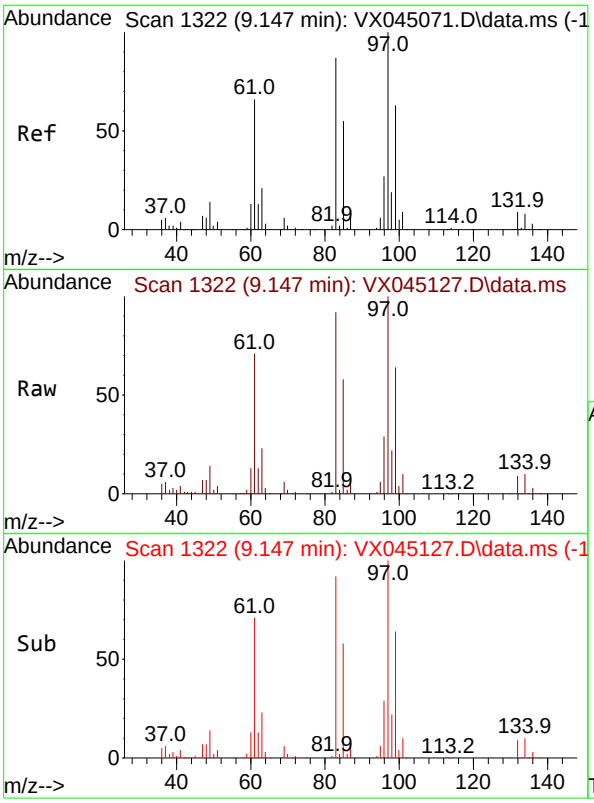


#54
cis-1,3-Dichloropropene
Concen: 53.733 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. -0.006 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion: 75 Resp: 102986

Ion	Ratio	Lower	Upper
75	100		
77	31.3	24.7	37.1
39	54.1	40.7	61.1

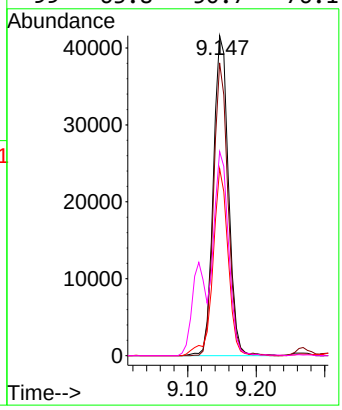




#55
1,1,2-Trichloroethane
Concen: 47.694 ug/l
RT: 9.147 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion: 97 Resp: 6353

Ion	Ratio	Lower	Upper
97	100		
83	91.5	69.4	104.2
85	58.4	44.1	66.1
99	63.8	50.7	76.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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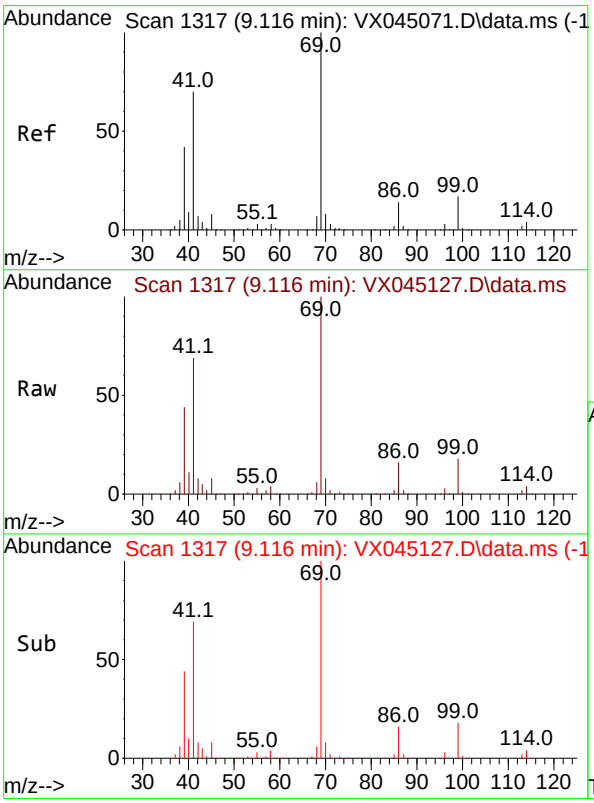
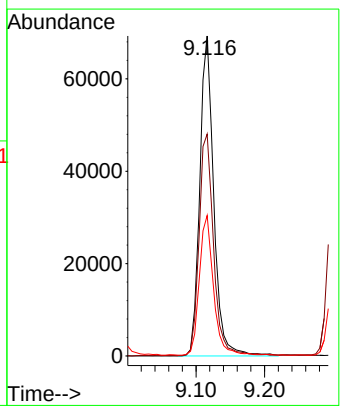
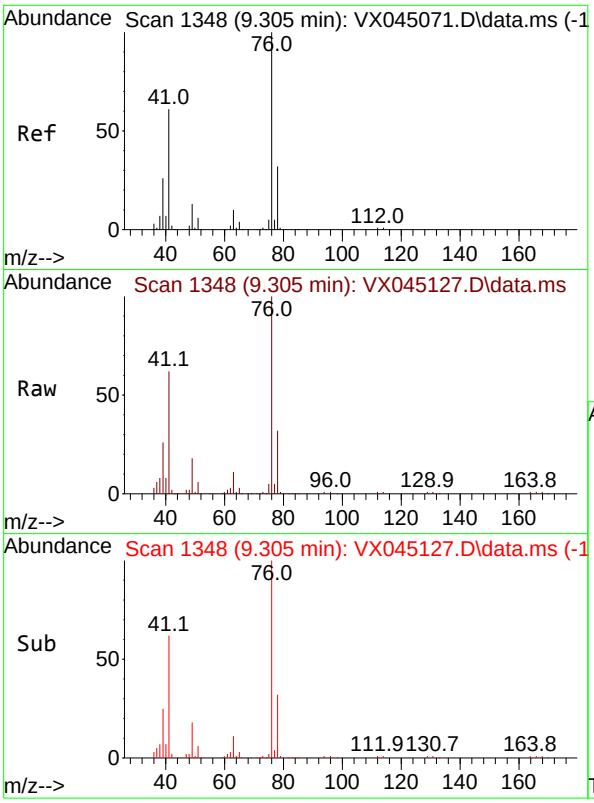


#56
Ethyl methacrylate
Concen: 48.771 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion: 69 Resp: 98764

Ion	Ratio	Lower	Upper
69	100		
41	72.0	57.0	85.4
39	44.0	34.2	51.4





#57
1,3-Dichloropropane
Concen: 47.819 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion: 76 Resp: 11024

Ion	Ratio	Lower	Upper
76	100		
78	32.8	25.5	38.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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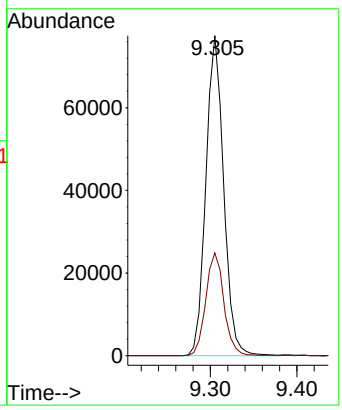
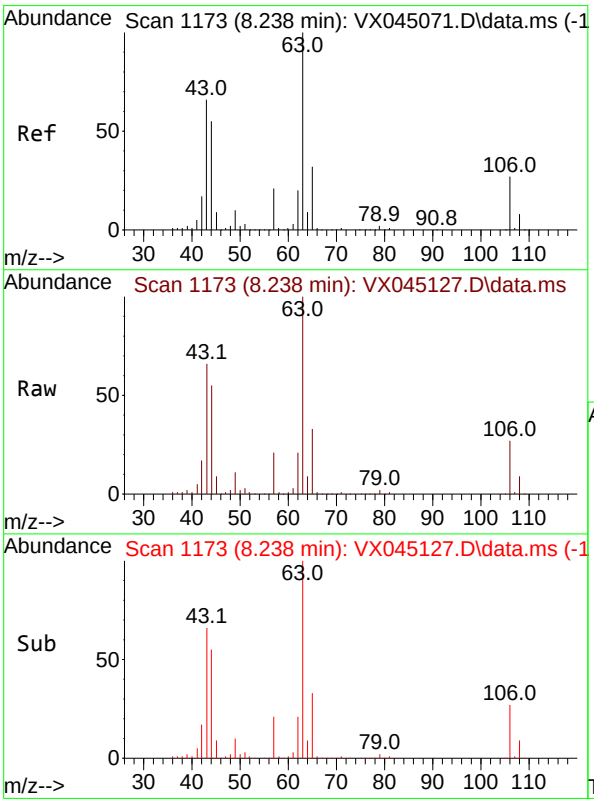
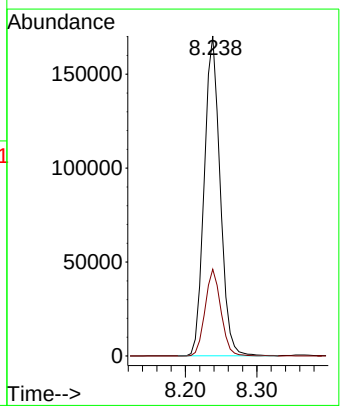


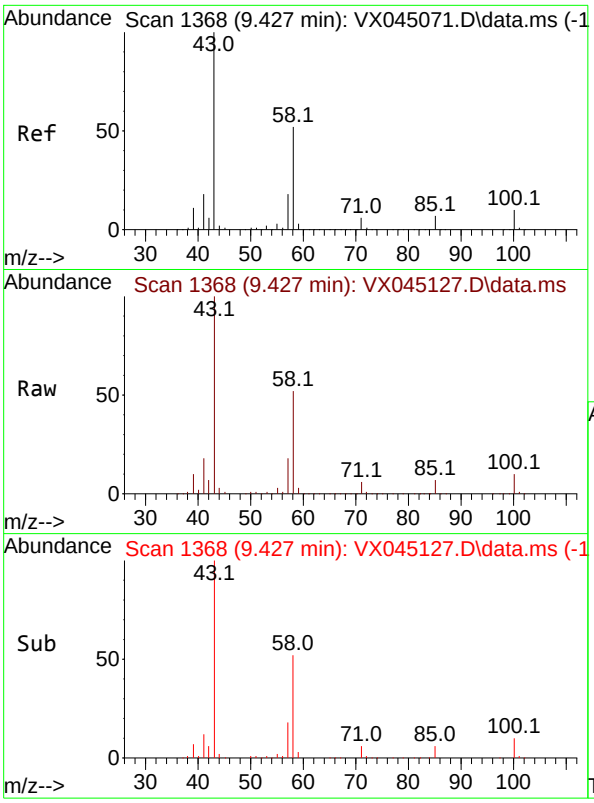


#58
2-Chloroethyl Vinyl ether
Concen: 266.477 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion: 63 Resp: 263234

Ion	Ratio	Lower	Upper
63	100		
106	26.9	21.5	32.3





#59
2-Hexanone
Concen: 237.763 ug/l
RT: 9.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion: 43 Resp: 38495

Ion	Ratio	Lower	Upper
43	100		
58	52.0	25.9	77.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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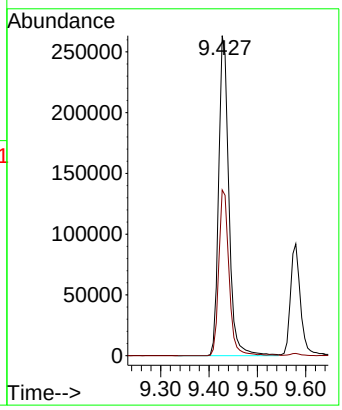
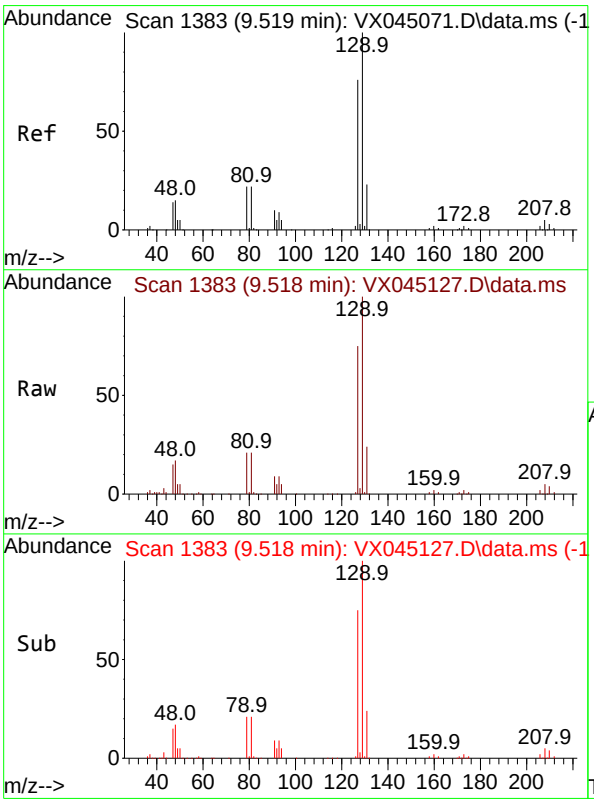
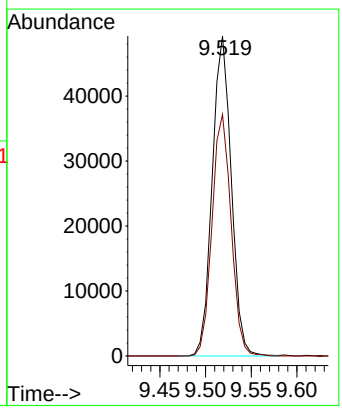


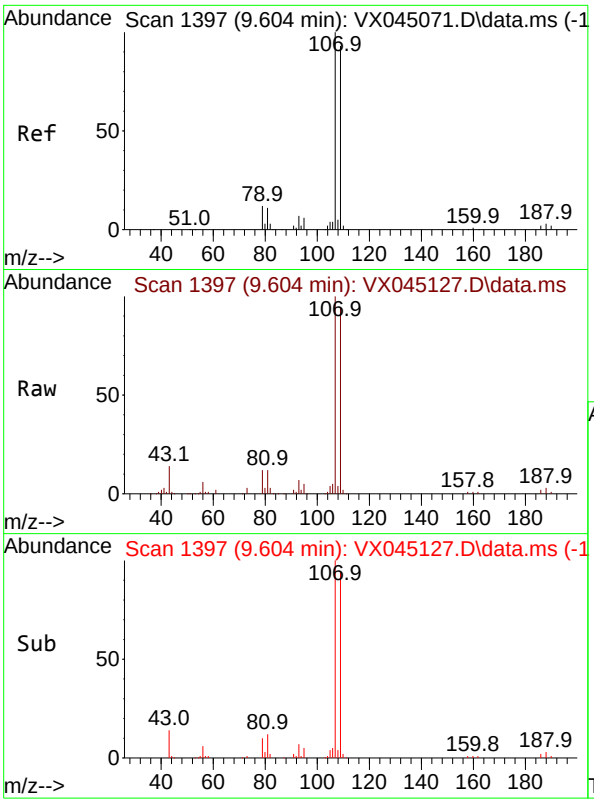


#60
Dibromochloromethane
Concen: 51.202 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion:129 Resp: 71321

Ion	Ratio	Lower	Upper
129	100		
127	75.5	38.5	115.5





#61
1,2-Dibromoethane
Concen: 48.624 ug/l
RT: 9.604 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion:107 Resp: 6466

Ion	Ratio	Lower	Upper
107	100		
109	94.3	76.1	114.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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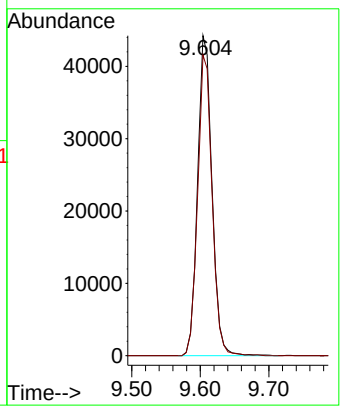
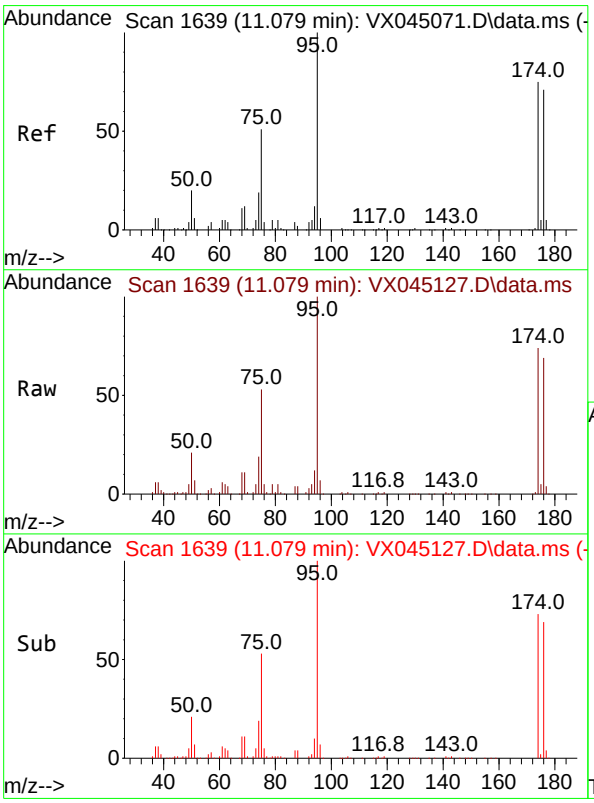
Reviewed By :John Carlone 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025

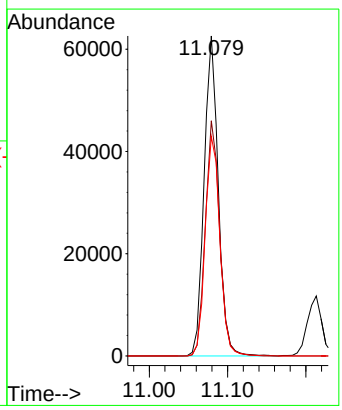


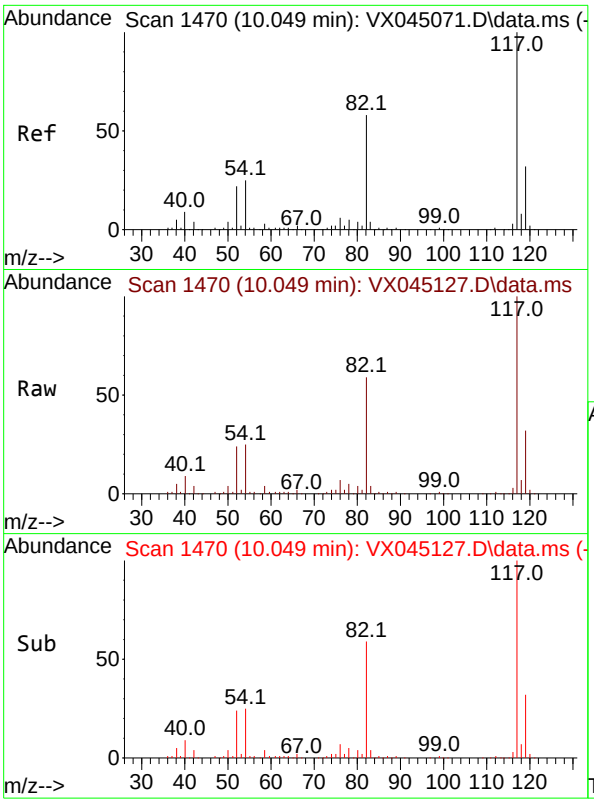


#62
4-Bromofluorobenzene
Concen: 51.246 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion: 95 Resp: 78409

Ion	Ratio	Lower	Upper
95	100		
174	74.7	0.0	148.2
176	71.1	0.0	141.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion:117 Resp: 16420

Ion	Ratio	Lower	Upper
117	100		
82	59.1	46.3	69.5
119	32.3	25.7	38.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/06/2025
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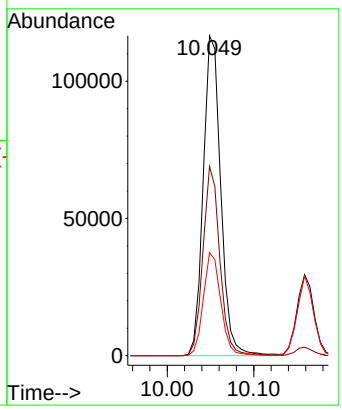
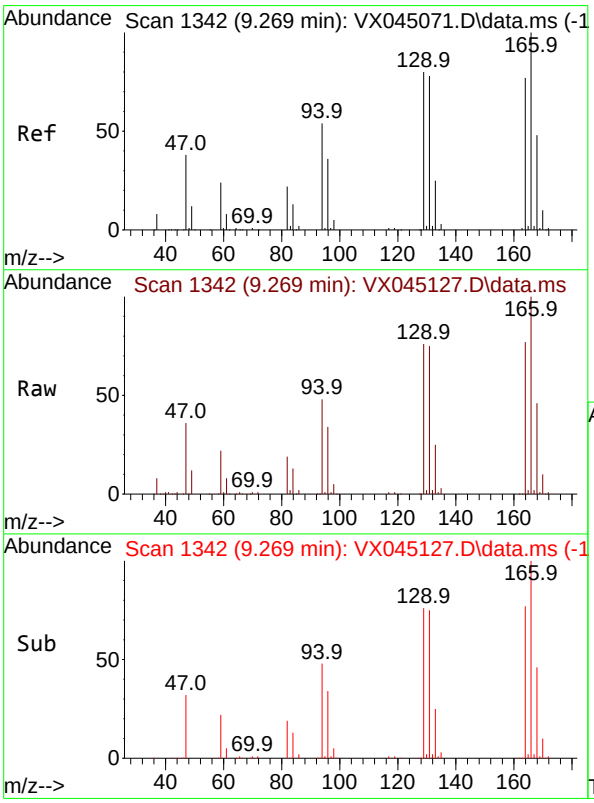
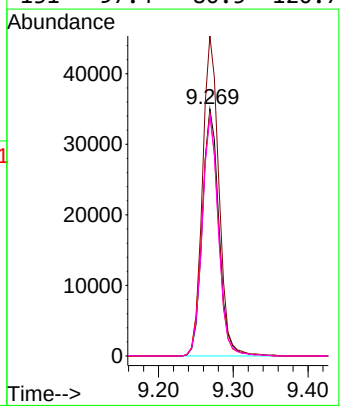


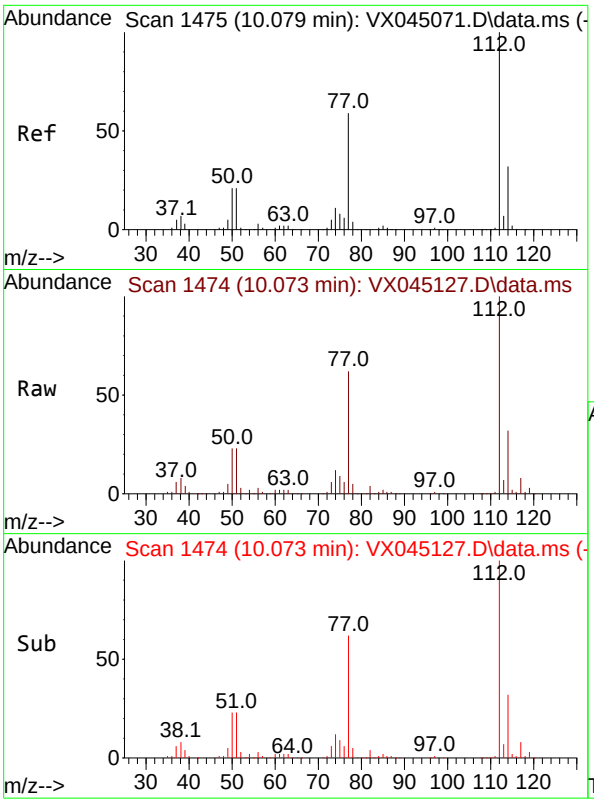


#64
Tetrachloroethene
Concen: 51.190 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion:164 Resp: 53835

Ion	Ratio	Lower	Upper
164	100		
166	129.5	103.6	155.4
129	98.2	82.7	124.1
131	97.4	80.5	120.7





#65
Chlorobenzene
Concen: 49.344 ug/l
RT: 10.073 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion:112 Resp: 171449

Ion	Ratio	Lower	Upper
112	100		
114	32.2	26.0	39.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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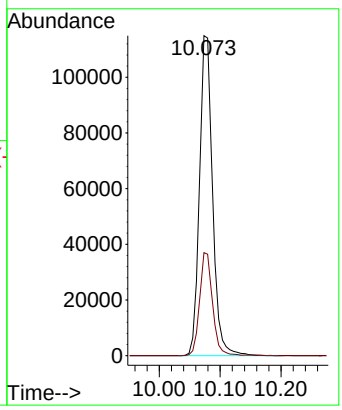
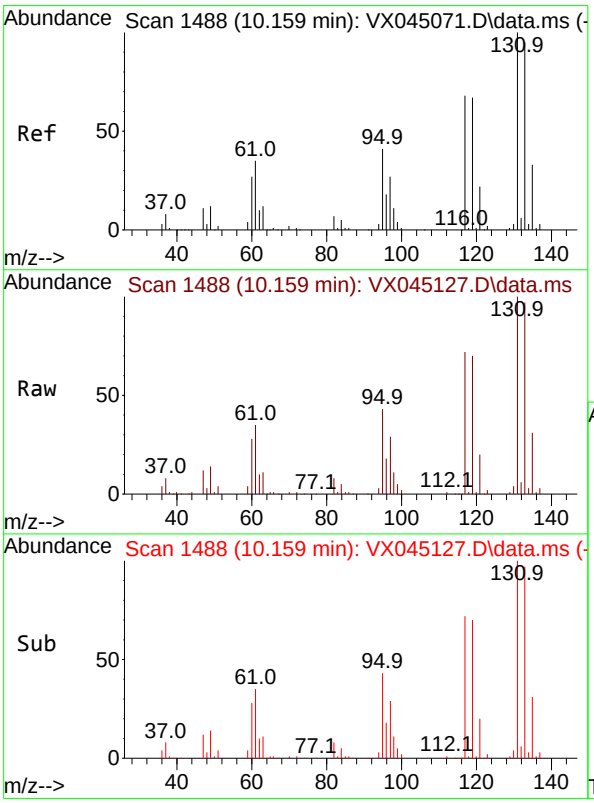
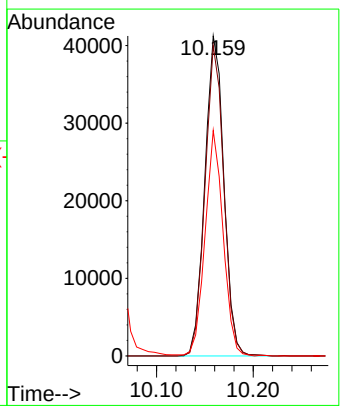


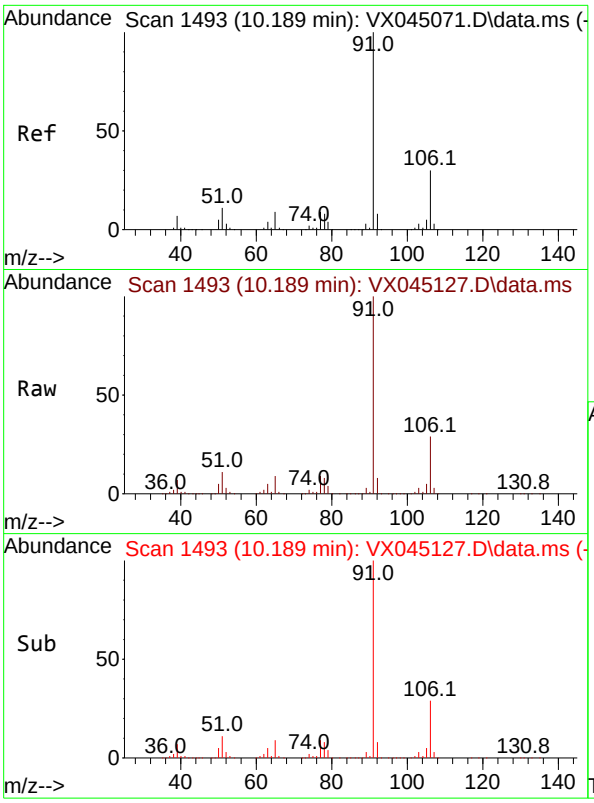


#66
1,1,1,2-Tetrachloroethane
Concen: 48.866 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion:131 Resp: 56543

Ion	Ratio	Lower	Upper
131	100		
133	95.7	48.6	145.9
119	67.0	33.9	101.7





#67
Ethyl Benzene
Concen: 50.920 ug/l
RT: 10.189 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion: 91 Resp: 30828

Ion	Ratio	Lower	Upper
91	100		
106	29.4	23.9	35.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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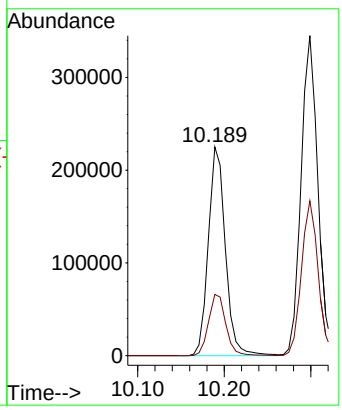
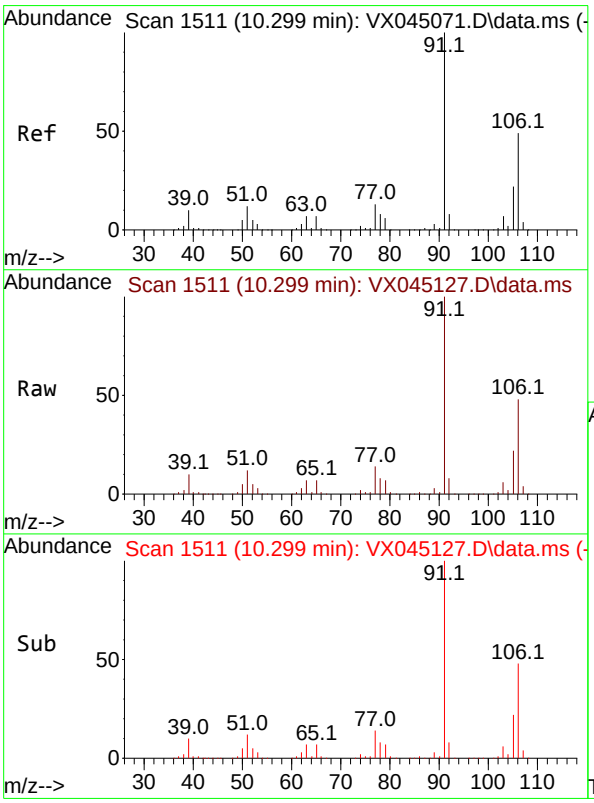
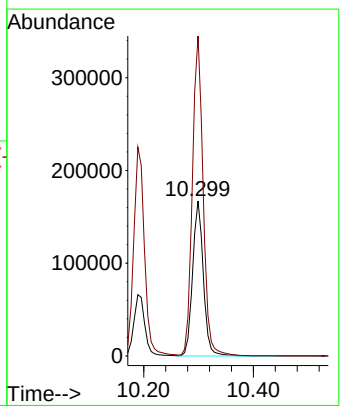


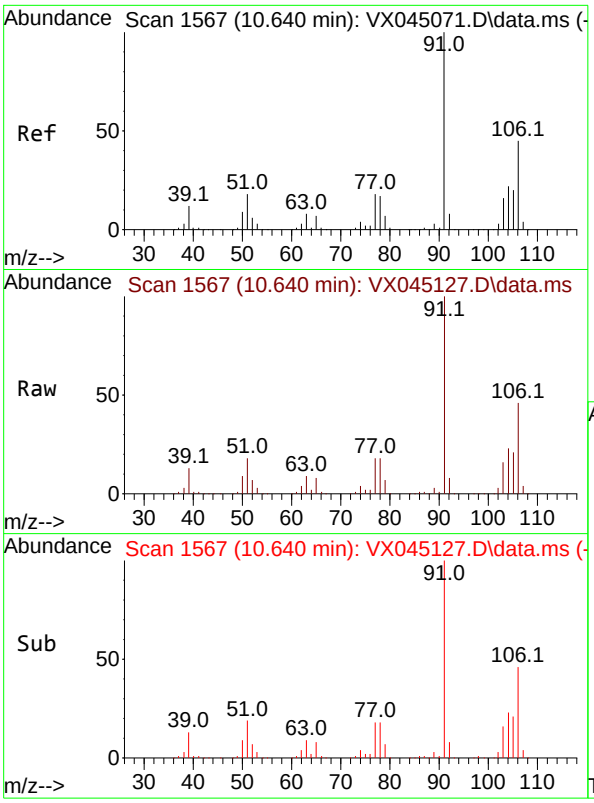


#68
m/p-Xylenes
Concen: 102.932 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion:106 Resp: 228130

Ion	Ratio	Lower	Upper
106	100		
91	206.7	165.4	248.0





#69
o-Xylene
Concen: 49.692 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion:106 Resp: 11107

Ion	Ratio	Lower	Upper
106	100		
91	218.6	109.9	329.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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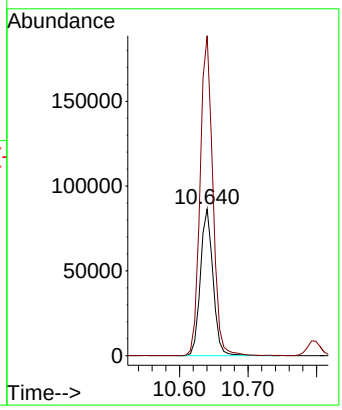
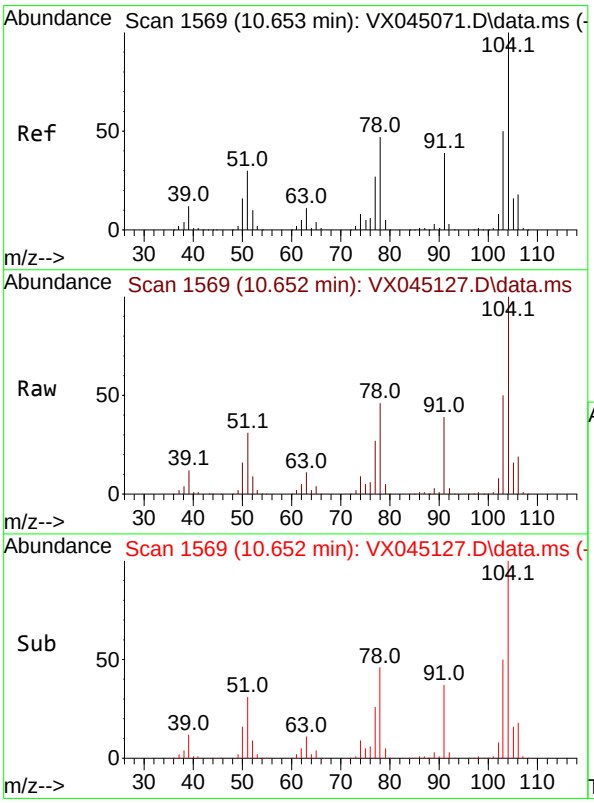
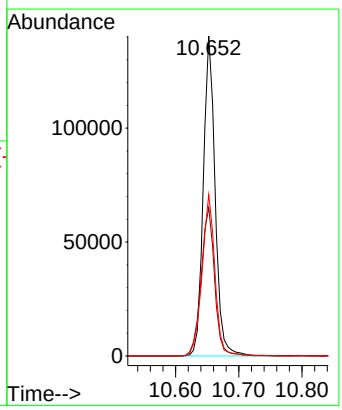


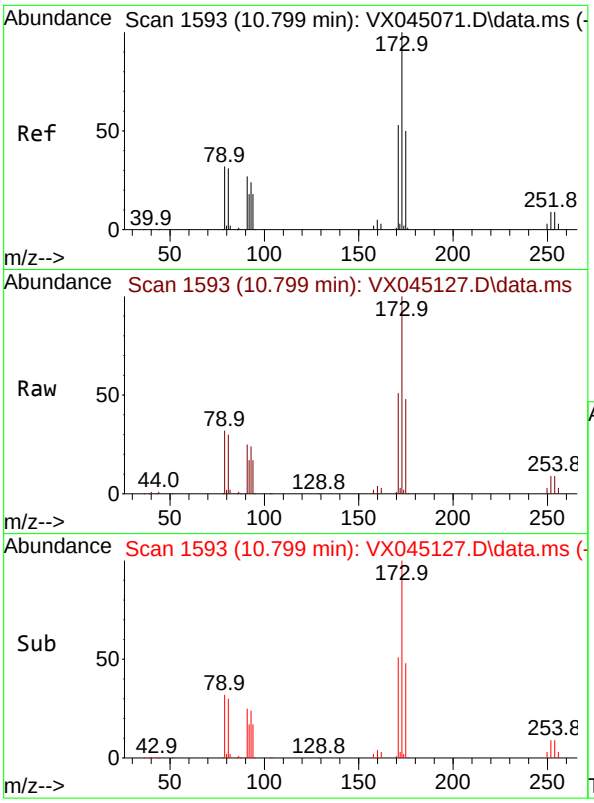


#70
Styrene
Concen: 50.763 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion:104 Resp: 183603

Ion	Ratio	Lower	Upper
104	100		
78	52.8	42.2	63.4
103	54.9	43.8	65.8





#71
Bromoform
Concen: 51.176 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion:173 Resp: 4465

Ion	Ratio	Lower	Upper
173	100		
175	48.1	24.6	73.6
254	0.0	0.0	0.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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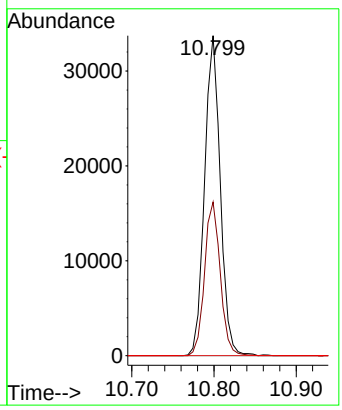
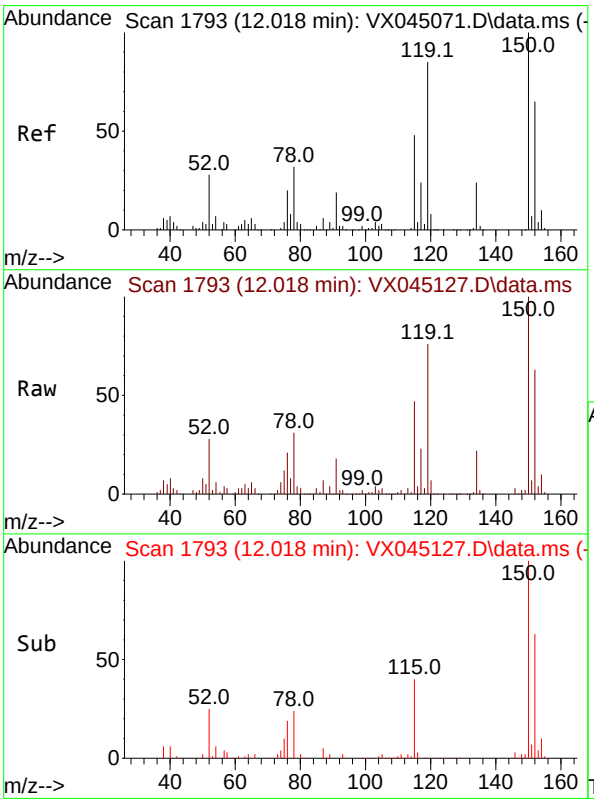
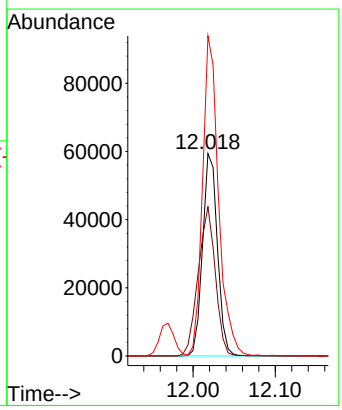


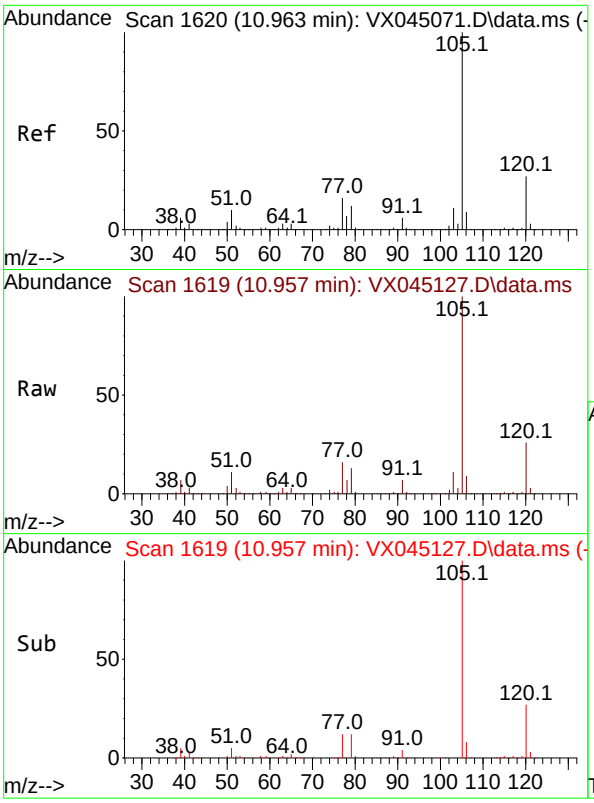


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion:152 Resp: 74481

Ion	Ratio	Lower	Upper
152	100		
115	85.2	44.2	132.6
150	170.7	0.0	349.0





#73
Isopropylbenzene
Concen: 49.882 ug/l
RT: 10.957 min Scan# 1(
Delta R.T. -0.006 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion:105 Resp: 28998(

Ion	Ratio	Lower	Upper
105	100		
120	26.1	13.2	39.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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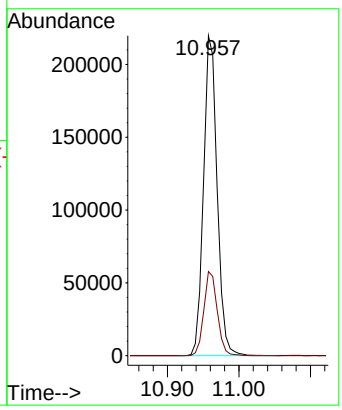
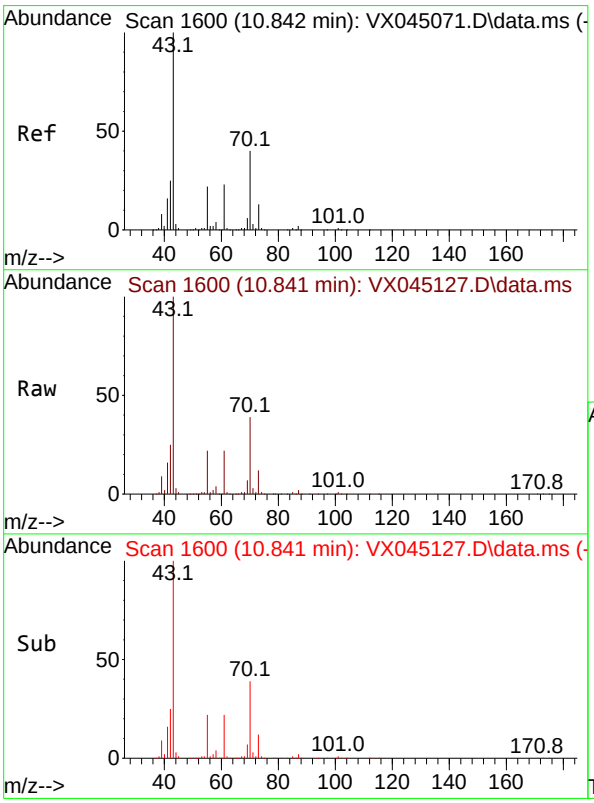
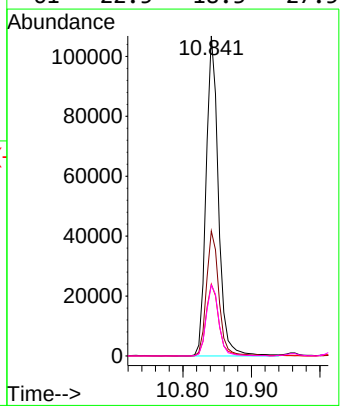


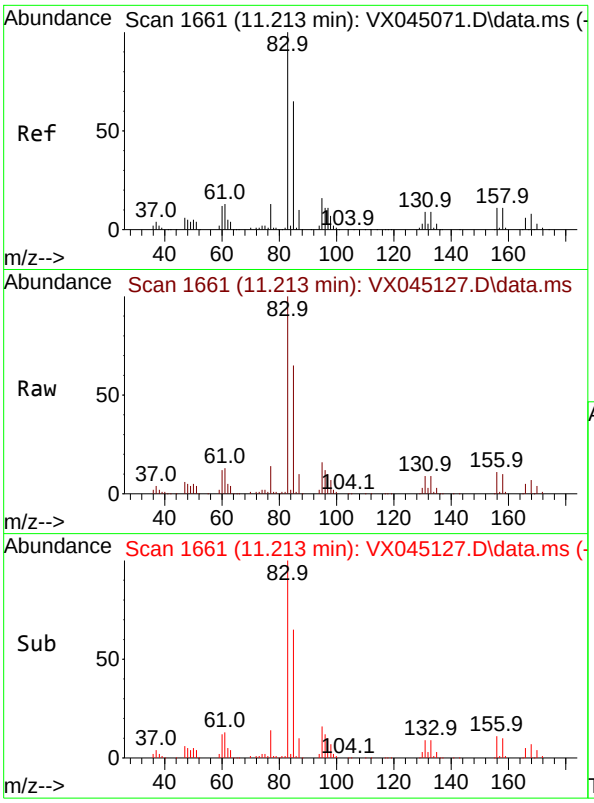


#74
N-amyl acetate
Concen: 49.015 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion: 43 Resp: 133706

Ion	Ratio	Lower	Upper
43	100		
70	39.3	31.8	47.6
55	22.9	18.3	27.5
61	22.5	18.3	27.5





#75
1,1,2,2-Tetrachloroethane
Concen: 45.510 ug/l
RT: 11.213 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion: 83 Resp: 9708

Ion	Ratio	Lower	Upper
83	100		
131	9.2	4.5	13.4
85	64.8	31.7	95.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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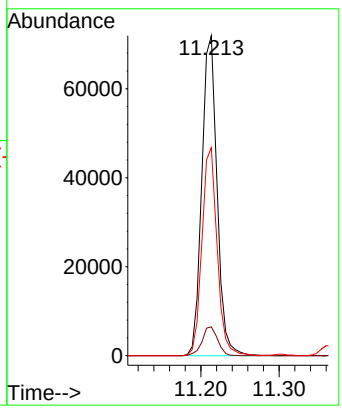
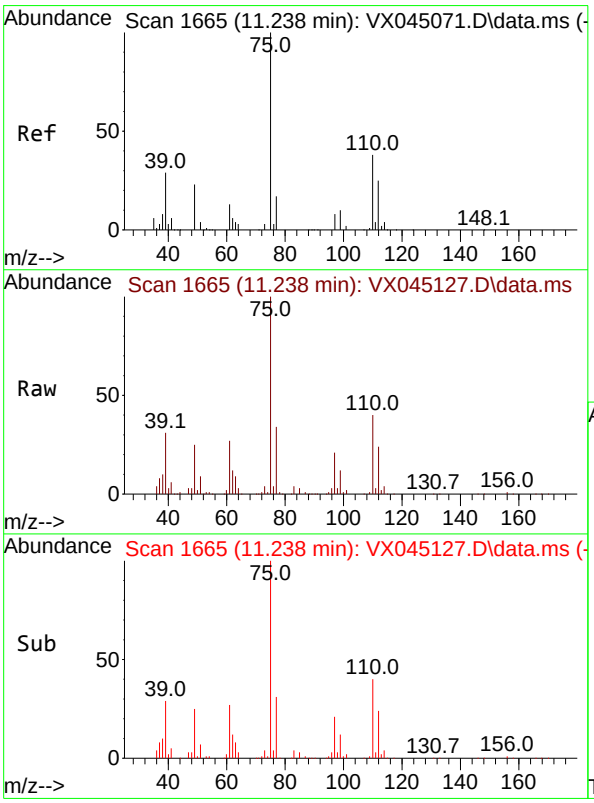
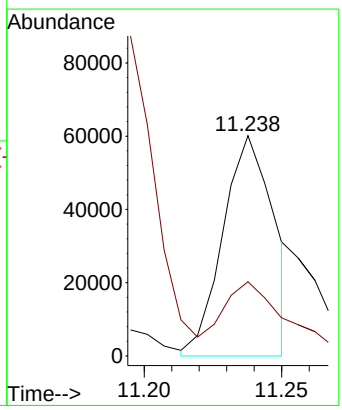


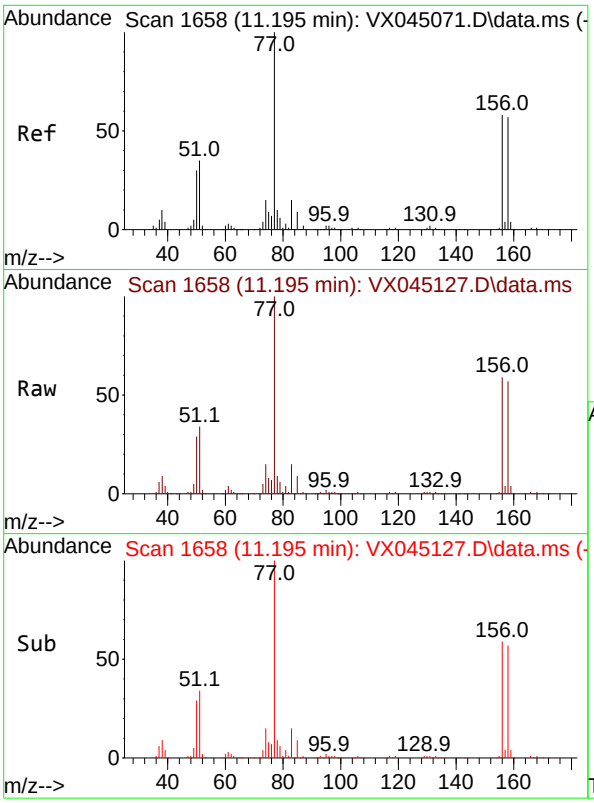


#76
1,2,3-Trichloropropane
Concen: 44.663 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion: 75 Resp: 77426

Ion	Ratio	Lower	Upper
75	100		
77	43.0	20.7	62.1





#77
Bromobenzene
Concen: 48.083 ug/l
RT: 11.195 min Scan# 1(
Delta R.T. -0.000 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion:156 Resp: 6595

Ion	Ratio	Lower	Upper
156	100		
77	169.8	85.8	257.4
158	97.1	48.4	145.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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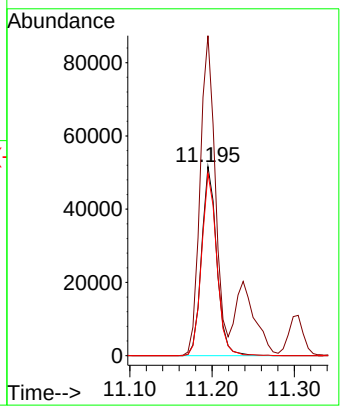
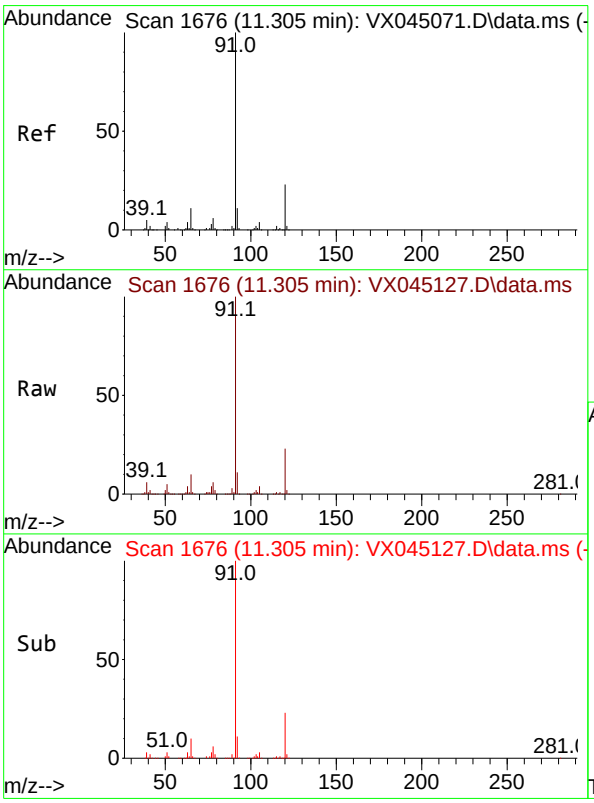
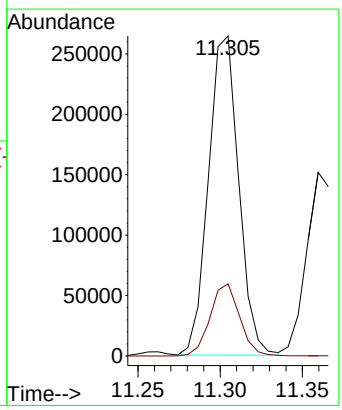


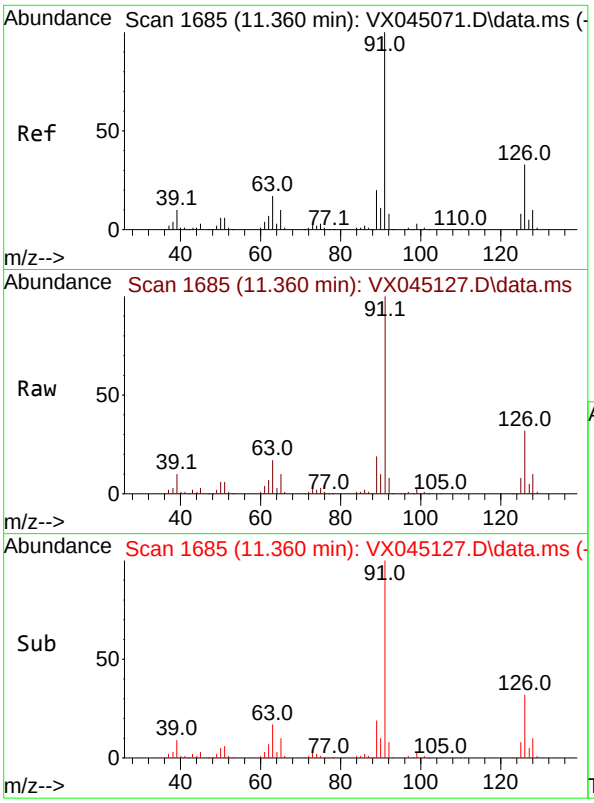


#78
n-propylbenzene
Concen: 51.552 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion: 91 Resp: 338544

Ion	Ratio	Lower	Upper
91	100		
120	22.0	11.2	33.6





#79
2-Chlorotoluene
Concen: 47.083 ug/l
RT: 11.360 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion: 91 Resp: 19691

Ion	Ratio	Lower	Upper
91	100		
126	33.0	16.4	49.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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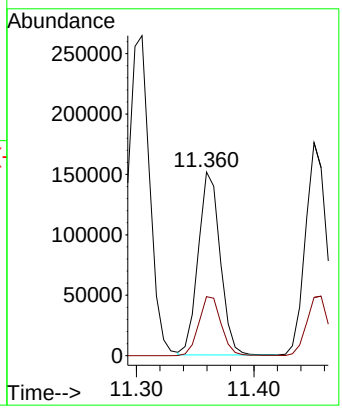
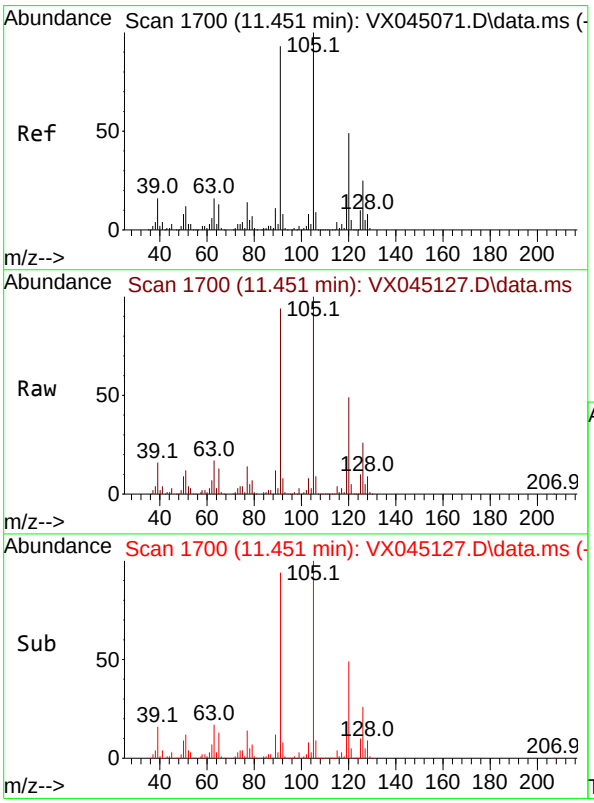
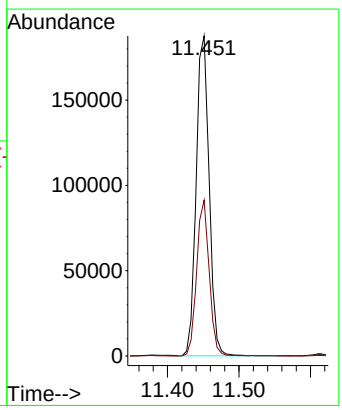


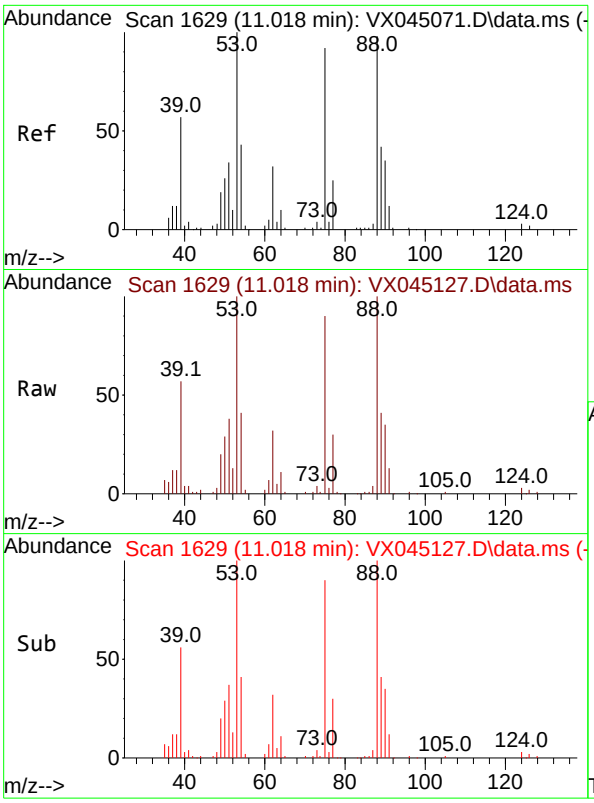


#80
1,3,5-Trimethylbenzene
Concen: 50.163 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion:105 Resp: 235799

Ion	Ratio	Lower	Upper
105	100		
120	47.2	24.1	72.2





#81
trans-1,4-Dichloro-2-butene
Concen: 51.395 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

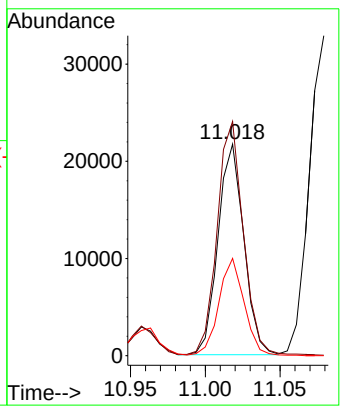
Tgt Ion: 75 Resp: 2603

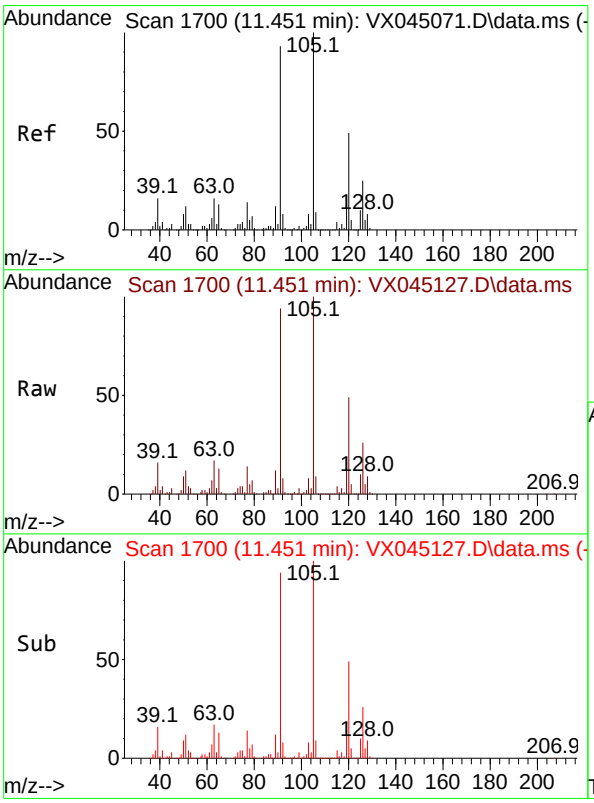
Ion	Ratio	Lower	Upper
75	100		
53	113.7	88.5	132.7
89	45.5	36.2	54.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025

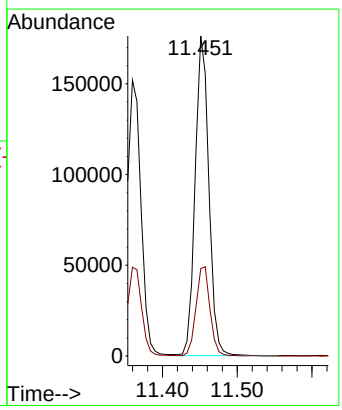


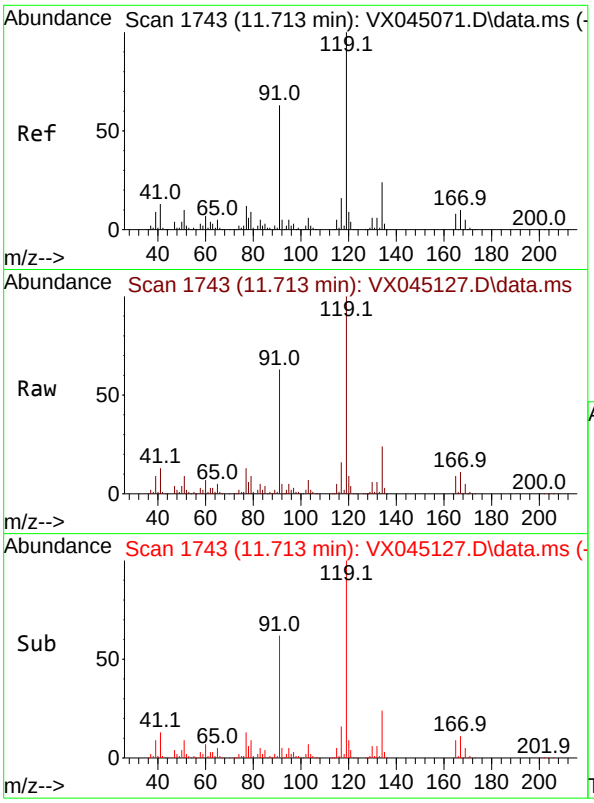


#82
4-Chlorotoluene
Concen: 49.137 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion: 91 Resp: 223976

Ion	Ratio	Lower	Upper
91	100		
126	28.4	14.1	42.4





#83
tert-Butylbenzene
Concen: 48.210 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

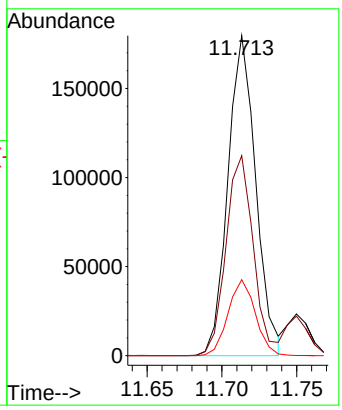
Tgt Ion:119 Resp: 23284

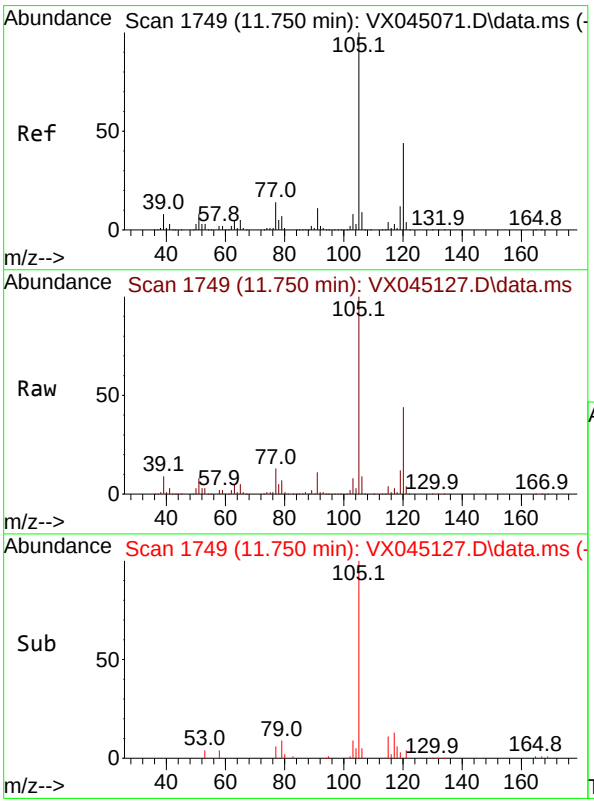
Ion	Ratio	Lower	Upper
119	100		
91	61.5	30.7	92.1
134	23.3	11.7	35.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025

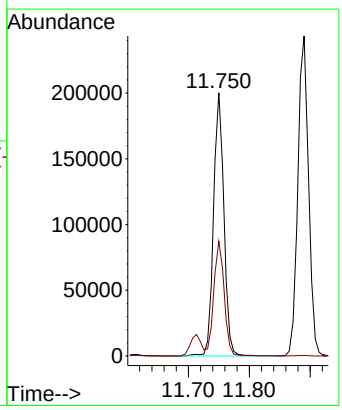


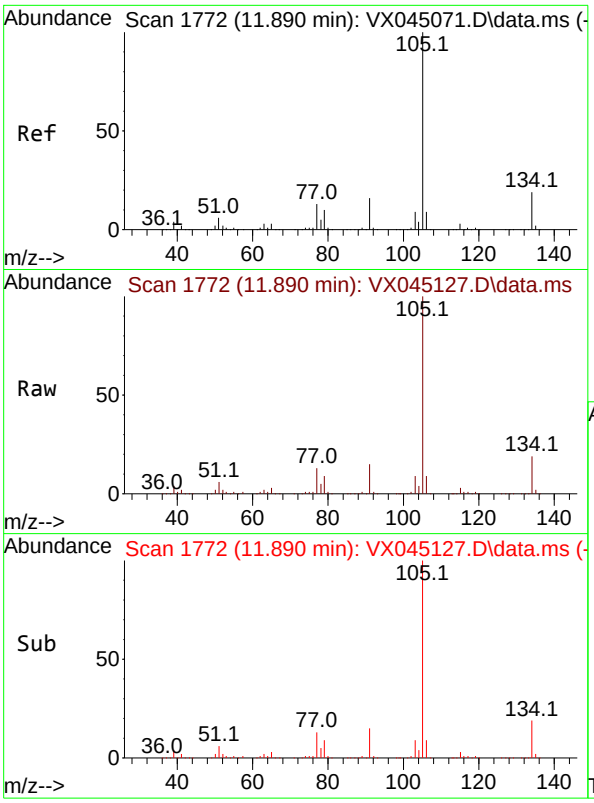


#84
1,2,4-Trimethylbenzene
Concen: 49.949 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion:105 Resp: 236246

Ion	Ratio	Lower	Upper
105	100		
120	44.0	22.1	66.1





#85
sec-Butylbenzene
Concen: 51.530 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

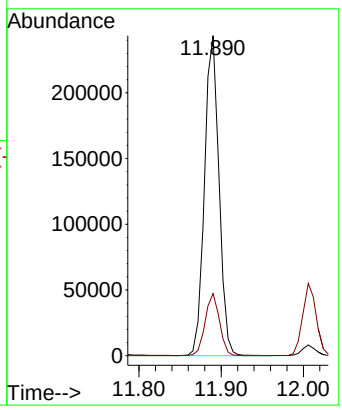
Tgt Ion:105 Resp: 29812

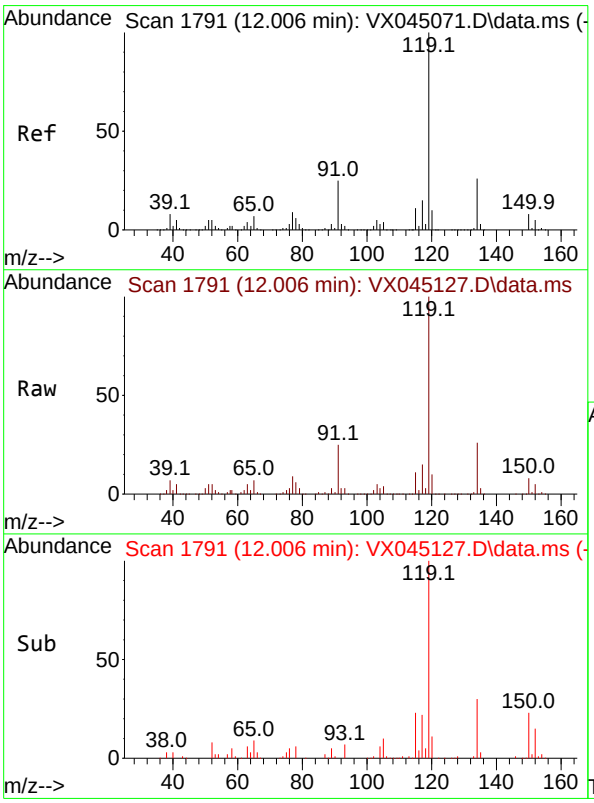
Ion	Ratio	Lower	Upper
105	100		
134	19.2	9.8	29.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025

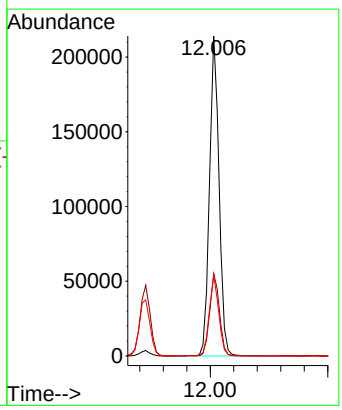


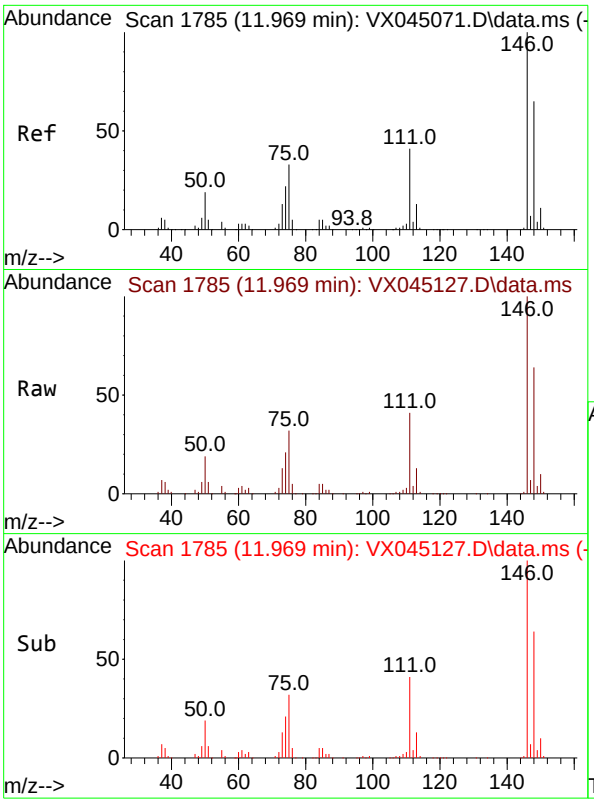


#86
p-Isopropyltoluene
Concen: 51.761 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion:119 Resp: 242004

Ion	Ratio	Lower	Upper
119	100		
134	26.1	12.9	38.6
91	25.0	12.7	38.0





#87
1,3-Dichlorobenzene
Concen: 48.641 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

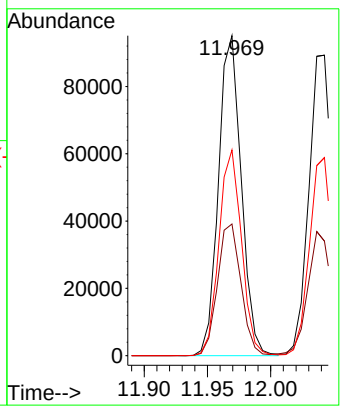
Tgt Ion:146 Resp: 11902

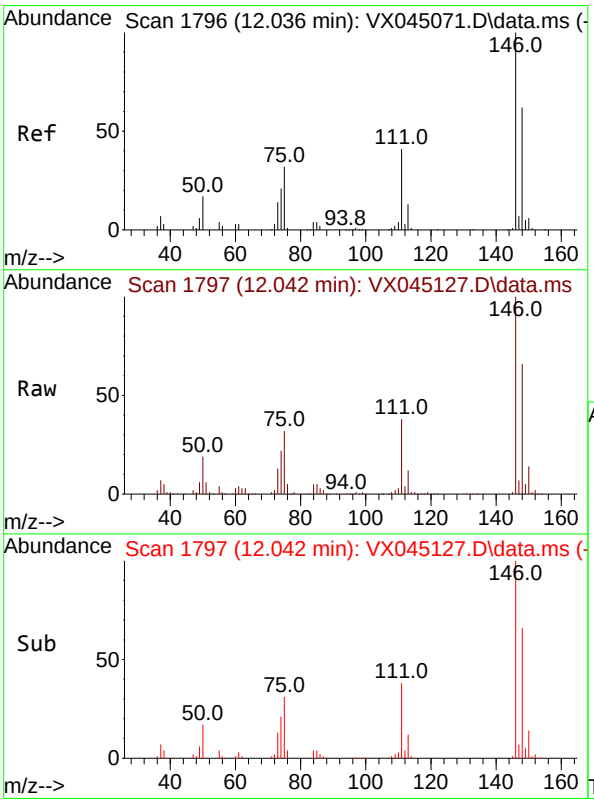
Ion	Ratio	Lower	Upper
146	100		
111	42.5	21.1	63.4
148	63.8	31.9	95.7

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025

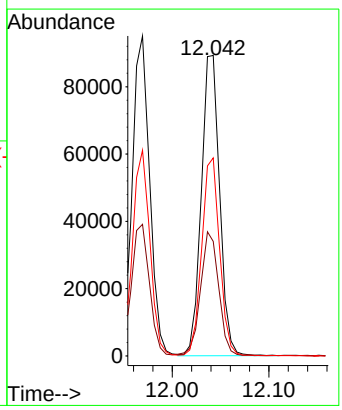


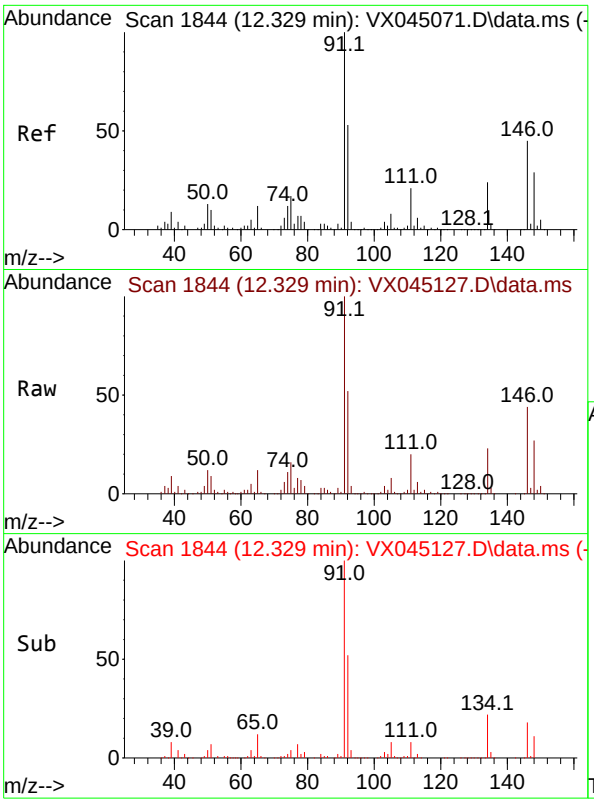


#88
1,4-Dichlorobenzene
Concen: 47.680 ug/l
RT: 12.042 min Scan# 1797
Delta R.T. 0.006 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion:146 Resp: 118036

Ion	Ratio	Lower	Upper
146	100		
111	40.9	20.2	60.5
148	64.7	31.9	95.9





#89
n-Butylbenzene
Concen: 55.132 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

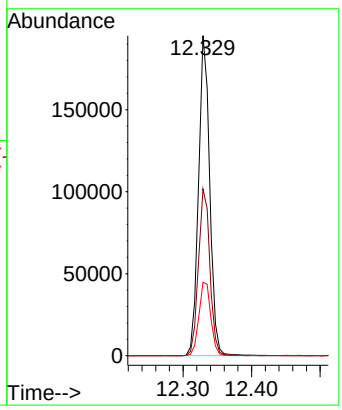
Tgt Ion: 91 Resp: 22200

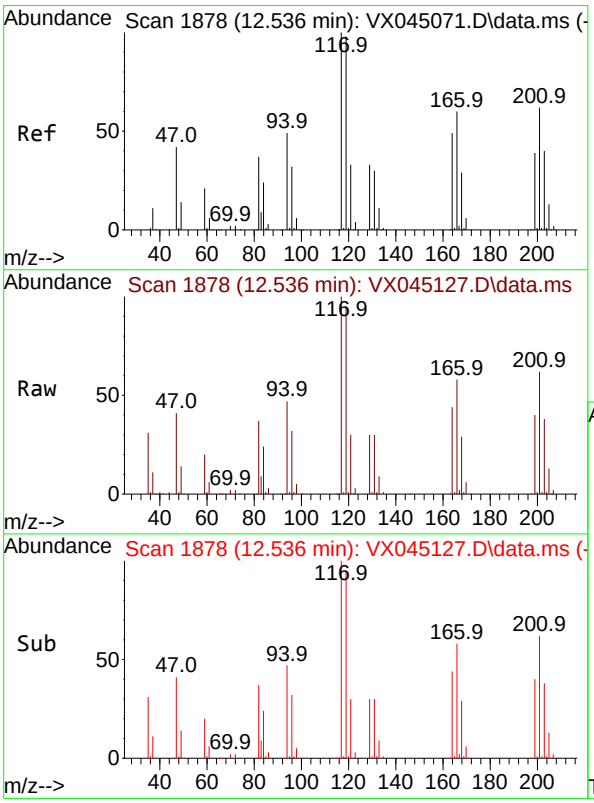
Ion	Ratio	Lower	Upper
91	100		
92	53.5	26.7	80.0
134	24.5	12.2	36.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025

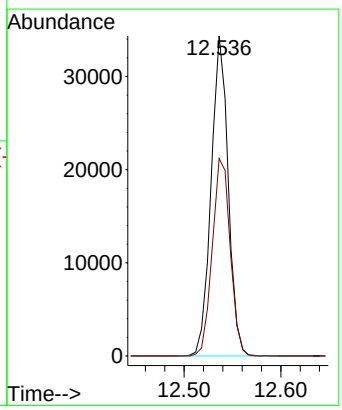


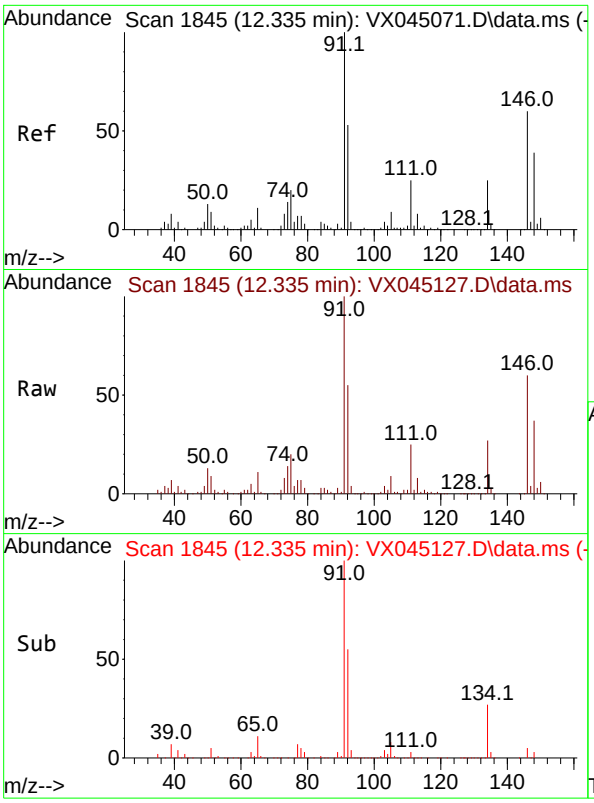


#90
Hexachloroethane
Concen: 49.734 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion:117 Resp: 42059

Ion	Ratio	Lower	Upper
117	100		
201	65.0	31.9	95.9





#91
1,2-Dichlorobenzene
Concen: 49.543 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

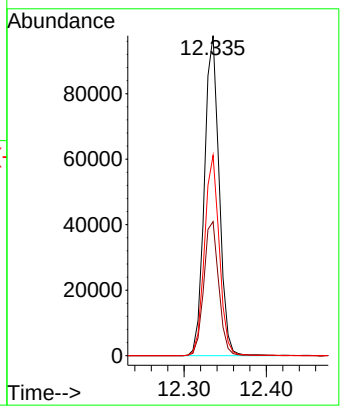
Tgt Ion:146 Resp: 12160

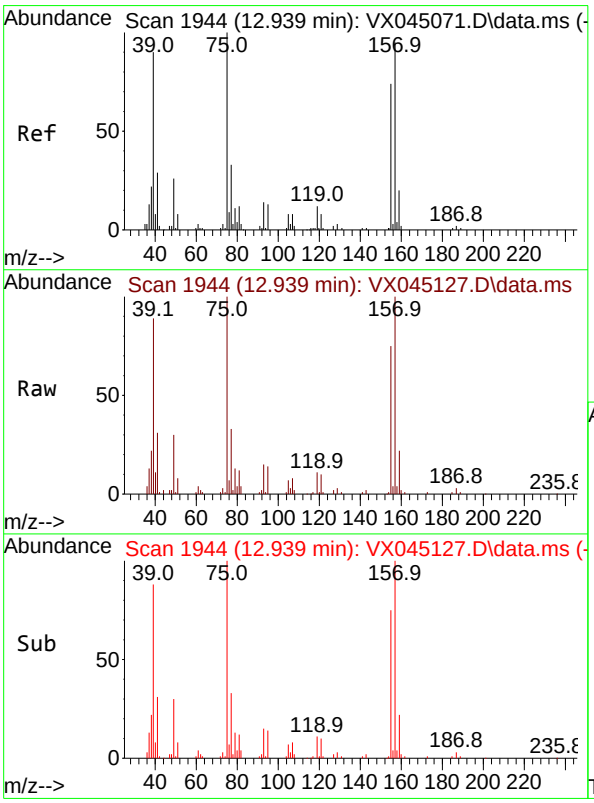
Ion	Ratio	Lower	Upper
146	100		
111	42.6	21.6	65.0
148	62.7	31.9	95.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025

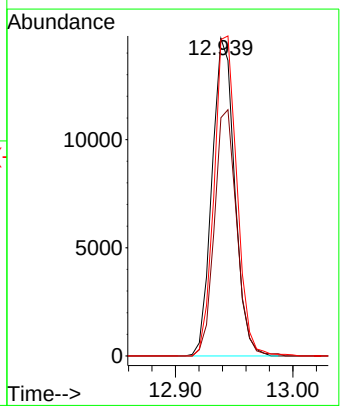


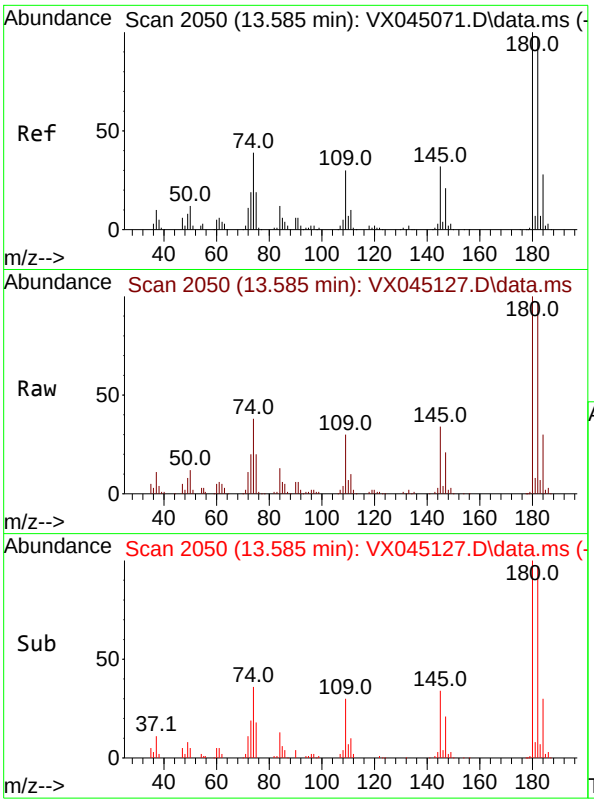


#92
1,2-Dibromo-3-Chloropropane
Concen: 47.340 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.000 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion: 75 Resp: 19675

Ion	Ratio	Lower	Upper
75	100		
155	76.3	39.6	118.7
157	101.6	51.1	153.4





#93
1,2,4-Trichlorobenzene
Concen: 52.807 ug/l
RT: 13.585 min Scan# 2(
Delta R.T. -0.000 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

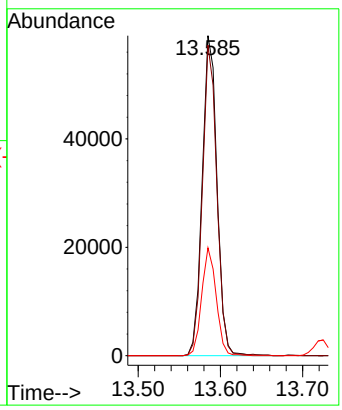
Tgt Ion:180 Resp: 7380

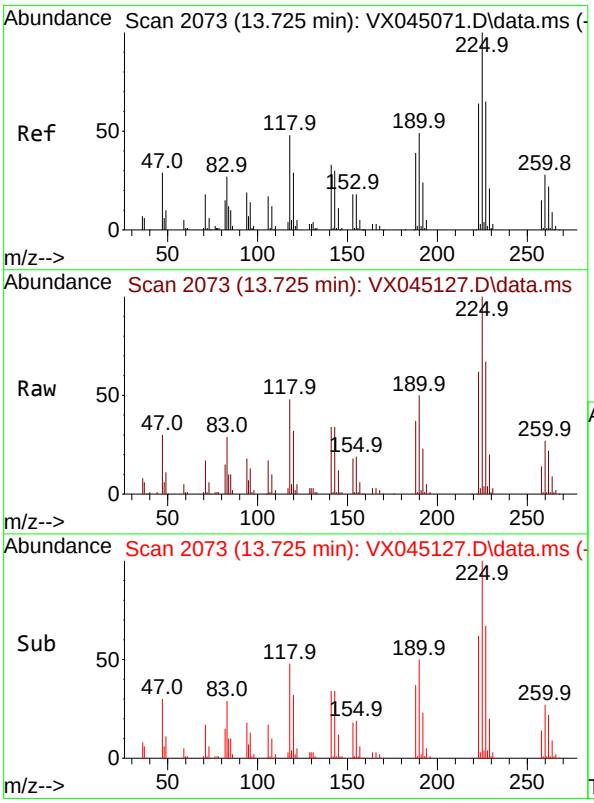
Ion	Ratio	Lower	Upper
180	100		
182	94.8	47.3	141.9
145	32.9	16.3	48.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025

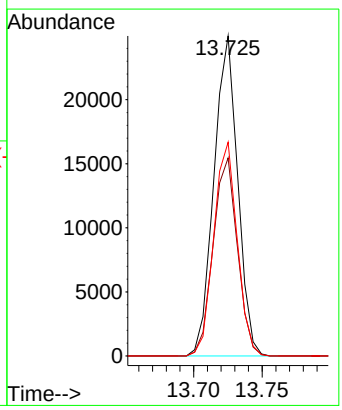


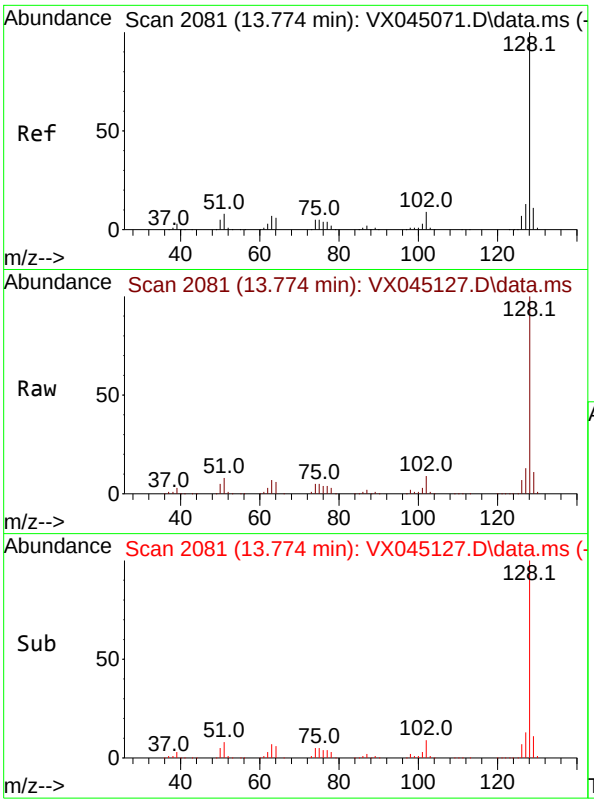


#94
Hexachlorobutadiene
Concen: 52.591 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion:225 Resp: 30136

Ion	Ratio	Lower	Upper
225	100		
223	62.9	31.9	95.7
227	65.7	31.4	94.0





#95
Naphthalene
Concen: 50.230 ug/l
RT: 13.774 min Scan# 2(
Delta R.T. -0.000 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

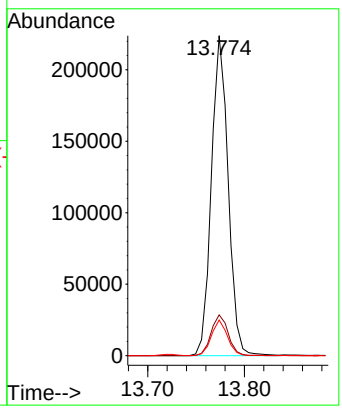
Tgt Ion:128 Resp: 26973!

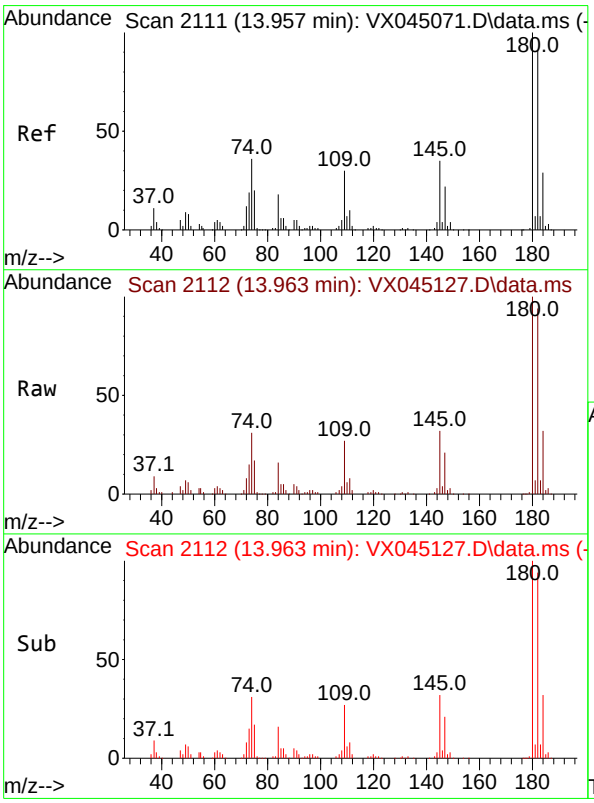
Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.3	15.5
129	10.8	8.7	13.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025

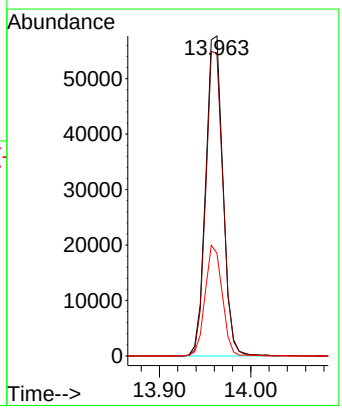




#96
1,2,3-Trichlorobenzene
Concen: 51.306 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. 0.006 min
Lab File: VX045127.D
Acq: 05 Mar 2025 09:12

Tgt Ion:180 Resp: 75650

Ion	Ratio	Lower	Upper
180	100		
182	95.5	47.5	142.6
145	34.3	17.0	50.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030525\
Data File : VX045127.D
Acq On : 05 Mar 2025 09:12
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Mar 06 00:58:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	109	0.00
2	T	Dichlorodifluoromethane	0.629	0.611	2.9	106	0.00
3	P	Chloromethane	0.770	0.671	12.9	97	0.00
4	C	Vinyl Chloride	0.764	0.689	9.8#	99	0.00
5	T	Bromomethane	0.300	0.271	9.7	101	0.00
6	T	Chloroethane	0.352	0.291	17.3	85	0.00
7	T	Trichlorofluoromethane	1.011	0.938	7.2	97	0.00
8	T	Diethyl Ether	0.396	0.348	12.1	98	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.581	0.581	0.0	106	0.00
10	T	Methyl Iodide	0.726	0.698	3.9	99	0.00
11	T	Tert butyl alcohol	0.151	0.108	28.5#	87	0.01
12	CM	1,1-Dichloroethene	0.614	0.553	9.9#	96	0.00
13	T	Acrolein	0.174	0.167	4.0	104	0.00
14	T	Allyl chloride	1.094	1.041	4.8	102	0.00
15	T	Acrylonitrile	0.404	0.349	13.6	93	0.00
16	T	Acetone	0.369	0.301	18.4	93	0.00
17	T	Carbon Disulfide	1.636	1.452	11.2	95	0.00
18	T	Methyl Acetate	0.888	0.810	8.8	102	0.00
19	T	Methyl tert-butyl Ether	2.061	1.855	10.0	97	0.00
20	T	Methylene Chloride	0.731	0.640	12.4	100	0.00
21	T	trans-1,2-Dichloroethene	0.607	0.571	5.9	98	0.00
22	T	Diisopropyl ether	2.224	2.073	6.8	98	0.00
23	T	Vinyl Acetate	1.856	1.760	5.2	97	0.00
24	P	1,1-Dichloroethane	1.247	1.123	9.9	98	0.00
25	T	2-Butanone	0.555	0.488	12.1	92	0.00
26	T	2,2-Dichloropropane	0.585	0.795	-35.9#	145	0.00
27	T	cis-1,2-Dichloroethene	0.749	0.684	8.7	98	0.00
28	T	Bromochloromethane	0.594	0.559	5.9	101	0.00
29	T	Tetrahydrofuran	0.373	0.320	14.2	93	0.00
30	C	Chloroform	1.239	1.123	9.4#	98	0.00
31	T	Cyclohexane	1.082	1.035	4.3	102	0.00
32	T	1,1,1-Trichloroethane	1.000	0.923	7.7	98	0.00
33	S	1,2-Dichloroethane-d4	0.795	0.743	6.5	107	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	102	0.00
35	S	Dibromofluoromethane	0.334	0.344	-3.0	107	-0.01
36	T	1,1-Dichloropropene	0.459	0.452	1.5	99	-0.01
37	T	Ethyl Acetate	0.591	0.554	6.3	93	0.00
38	T	Carbon Tetrachloride	0.465	0.457	1.7	100	0.00
39	T	Methylcyclohexane	0.549	0.609	-10.9	106	0.00
40	TM	Benzene	1.448	1.416	2.2	97	0.00
41	T	Methacrylonitrile	0.319	0.314	1.6	94	0.00
42	TM	1,2-Dichloroethane	0.521	0.506	2.9	98	0.00
43	T	Isopropyl Acetate	0.874	0.847	3.1	93	0.00
44	TM	Trichloroethene	0.340	0.338	0.6	101	0.00
45	C	1,2-Dichloropropane	0.372	0.355	4.6#	98	0.00
46	T	Dibromomethane	0.263	0.255	3.0	97	0.00
47	T	Bromodichloromethane	0.516	0.512	0.8	100	0.00
48	T	Methyl methacrylate	0.438	0.423	3.4	93	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030525\
Data File : VX045127.D
Acq On : 05 Mar 2025 09:12
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Mar 06 00:58:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.009	0.008	11.1	90	0.00
50	S	Toluene-d8	1.212	1.229	-1.4	104	0.00
51	T	4-Methyl-2-Pentanone	0.587	0.550	6.3	92	0.00
52	CM	Toluene	0.849	0.858	-1.1#	98	0.00
53	T	t-1,3-Dichloropropene	0.431	0.464	-7.7	101	0.00
54	T	cis-1,3-Dichloropropene	0.503	0.541	-7.6	103	0.00
55	T	1,1,2-Trichloroethane	0.350	0.334	4.6	96	0.00
56	T	Ethyl methacrylate	0.532	0.519	2.4	93	0.00
57	T	1,3-Dichloropropane	0.605	0.579	4.3	95	0.00
58	T	2-Chloroethyl Vinyl ether	0.259	0.276	-6.6	100	0.00
59	T	2-Hexanone	0.425	0.404	4.9	92	0.00
60	T	Dibromochloromethane	0.366	0.374	-2.2	100	0.00
61	T	1,2-Dibromoethane	0.349	0.340	2.6	98	0.00
62	S	4-Bromofluorobenzene	0.402	0.412	-2.5	105	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	101	0.00
64	T	Tetrachloroethene	0.320	0.328	-2.5	102	0.00
65	PM	Chlorobenzene	1.058	1.044	1.3	97	0.00
66	T	1,1,1,2-Tetrachloroethane	0.352	0.344	2.3	98	0.00
67	C	Ethyl Benzene	1.843	1.877	-1.8#	97	0.00
68	T	m/p-Xylenes	0.675	0.695	-3.0	97	0.00
69	T	o-Xylene	0.681	0.676	0.7	97	0.00
70	T	Styrene	1.101	1.118	-1.5	96	0.00
71	P	Bromoform	0.266	0.272	-2.3	100	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	105	0.00
73	T	Isopropylbenzene	3.903	3.893	0.3	98	0.00
74	T	N-amyl acetate	1.831	1.795	2.0	95	0.00
75	P	1,1,2,2-Tetrachloroethane	1.432	1.304	8.9	96	0.00
76	T	1,2,3-Trichloropropane	1.164	1.040	10.7	95	0.00
77	T	Bromobenzene	0.921	0.885	3.9	99	0.00
78	T	n-propylbenzene	4.409	4.545	-3.1	99	0.00
79	T	2-Chlorotoluene	2.808	2.644	5.8	96	0.00
80	T	1,3,5-Trimethylbenzene	3.156	3.166	-0.3	98	0.00
81	T	trans-1,4-Dichloro-2-butene	0.340	0.350	-2.9	108	0.00
82	T	4-Chlorotoluene	3.060	3.007	1.7	97	0.00
83	T	tert-Butylbenzene	3.242	3.126	3.6	97	0.00
84	T	1,2,4-Trimethylbenzene	3.175	3.172	0.1	98	0.00
85	T	sec-Butylbenzene	3.884	4.003	-3.1	99	0.00
86	T	p-Isopropyltoluene	3.139	3.249	-3.5	99	0.00
87	T	1,3-Dichlorobenzene	1.643	1.598	2.7	100	0.00
88	T	1,4-Dichlorobenzene	1.662	1.585	4.6	98	0.00
89	T	n-Butylbenzene	2.703	2.981	-10.3	103	0.00
90	T	Hexachloroethane	0.568	0.565	0.5	98	0.00
91	T	1,2-Dichlorobenzene	1.648	1.633	0.9	102	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.279	0.264	5.4	95	0.00
93	T	1,2,4-Trichlorobenzene	0.938	0.991	-5.7	103	0.00
94	T	Hexachlorobutadiene	0.385	0.405	-5.2	108	0.00
95	T	Naphthalene	3.605	3.622	-0.5	97	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030525\
Data File : VX045127.D
Acq On : 05 Mar 2025 09:12
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Mar 06 00:58:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.990	1.016	-2.6	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030525\
Data File : VX045127.D
Acq On : 05 Mar 2025 09:12
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Mar 06 00:58:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	109	0.00
2	T	Dichlorodifluoromethane	50.000	48.548	2.9	106	0.00
3	P	Chloromethane	50.000	43.571	12.9	97	0.00
4	C	Vinyl Chloride	50.000	45.105	9.8#	99	0.00
5	T	Bromomethane	50.000	45.089	9.8	101	0.00
6	T	Chloroethane	50.000	41.292	17.4	85	0.00
7	T	Trichlorofluoromethane	50.000	46.345	7.3	97	0.00
8	T	Diethyl Ether	50.000	44.003	12.0	98	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	49.955	0.1	106	0.00
10	T	Methyl Iodide	50.000	48.082	3.8	99	0.00
11	T	Tert butyl alcohol	250.000	178.760	28.5#	87	0.01
12	CM	1,1-Dichloroethene	50.000	44.972	10.1#	96	0.00
13	T	Acrolein	250.000	239.177	4.3	104	0.00
14	T	Allyl chloride	50.000	47.573	4.9	102	0.00
15	T	Acrylonitrile	250.000	216.227	13.5	93	0.00
16	T	Acetone	250.000	203.698	18.5	93	0.00
17	T	Carbon Disulfide	50.000	44.364	11.3	95	0.00
18	T	Methyl Acetate	50.000	45.649	8.7	102	0.00
19	T	Methyl tert-butyl Ether	50.000	44.990	10.0	97	0.00
20	T	Methylene Chloride	50.000	43.757	12.5	100	0.00
21	T	trans-1,2-Dichloroethene	50.000	46.997	6.0	98	0.00
22	T	Diisopropyl ether	50.000	46.611	6.8	98	0.00
23	T	Vinyl Acetate	250.000	237.095	5.2	97	0.00
24	P	1,1-Dichloroethane	50.000	45.046	9.9	98	0.00
25	T	2-Butanone	250.000	219.773	12.1	92	0.00
26	T	2,2-Dichloropropane	50.000	67.949	-35.9#	145	0.00
27	T	cis-1,2-Dichloroethene	50.000	45.662	8.7	98	0.00
28	T	Bromochloromethane	50.000	47.005	6.0	101	0.00
29	T	Tetrahydrofuran	250.000	214.470	14.2	93	0.00
30	C	Chloroform	50.000	45.331	9.3#	98	0.00
31	T	Cyclohexane	50.000	47.845	4.3	102	0.00
32	T	1,1,1-Trichloroethane	50.000	46.154	7.7	98	0.00
33	S	1,2-Dichloroethane-d4	50.000	46.738	6.5	107	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	102	0.00
35	S	Dibromofluoromethane	50.000	51.467	-2.9	107	-0.01
36	T	1,1-Dichloropropene	50.000	49.270	1.5	99	-0.01
37	T	Ethyl Acetate	50.000	46.871	6.3	93	0.00
38	T	Carbon Tetrachloride	50.000	49.086	1.8	100	0.00
39	T	Methylcyclohexane	50.000	55.384	-10.8	106	0.00
40	TM	Benzene	50.000	48.900	2.2	97	0.00
41	T	Methacrylonitrile	50.000	49.148	1.7	94	0.00
42	TM	1,2-Dichloroethane	50.000	48.518	3.0	98	0.00
43	T	Isopropyl Acetate	50.000	48.480	3.0	93	0.00
44	TM	Trichloroethene	50.000	49.759	0.5	101	0.00
45	C	1,2-Dichloropropane	50.000	47.629	4.7#	98	0.00
46	T	Dibromomethane	50.000	48.429	3.1	97	0.00
47	T	Bromodichloromethane	50.000	49.627	0.7	100	0.00
48	T	Methyl methacrylate	50.000	48.288	3.4	93	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030525\
Data File : VX045127.D
Acq On : 05 Mar 2025 09:12
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Mar 06 00:58:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	897.247	10.3	90	0.00
50	S	Toluene-d8	50.000	50.704	-1.4	104	0.00
51	T	4-Methyl-2-Pentanone	250.000	234.470	6.2	92	0.00
52	CM	Toluene	50.000	50.472	-0.9#	98	0.00
53	T	t-1,3-Dichloropropene	50.000	53.736	-7.5	101	0.00
54	T	cis-1,3-Dichloropropene	50.000	53.733	-7.5	103	0.00
55	T	1,1,2-Trichloroethane	50.000	47.694	4.6	96	0.00
56	T	Ethyl methacrylate	50.000	48.771	2.5	93	0.00
57	T	1,3-Dichloropropane	50.000	47.819	4.4	95	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	266.477	-6.6	100	0.00
59	T	2-Hexanone	250.000	237.763	4.9	92	0.00
60	T	Dibromochloromethane	50.000	51.202	-2.4	100	0.00
61	T	1,2-Dibromoethane	50.000	48.624	2.8	98	0.00
62	S	4-Bromofluorobenzene	50.000	51.246	-2.5	105	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	101	0.00
64	T	Tetrachloroethene	50.000	51.190	-2.4	102	0.00
65	PM	Chlorobenzene	50.000	49.344	1.3	97	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	48.866	2.3	98	0.00
67	C	Ethyl Benzene	50.000	50.920	-1.8#	97	0.00
68	T	m/p-Xylenes	100.000	102.932	-2.9	97	0.00
69	T	o-Xylene	50.000	49.692	0.6	97	0.00
70	T	Styrene	50.000	50.763	-1.5	96	0.00
71	P	Bromoform	50.000	51.176	-2.4	100	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	105	0.00
73	T	Isopropylbenzene	50.000	49.882	0.2	98	0.00
74	T	N-amyl acetate	50.000	49.015	2.0	95	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	45.510	9.0	96	0.00
76	T	1,2,3-Trichloropropane	50.000	44.663	10.7	95	0.00
77	T	Bromobenzene	50.000	48.083	3.8	99	0.00
78	T	n-propylbenzene	50.000	51.552	-3.1	99	0.00
79	T	2-Chlorotoluene	50.000	47.083	5.8	96	0.00
80	T	1,3,5-Trimethylbenzene	50.000	50.163	-0.3	98	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	51.395	-2.8	108	0.00
82	T	4-Chlorotoluene	50.000	49.137	1.7	97	0.00
83	T	tert-Butylbenzene	50.000	48.210	3.6	97	0.00
84	T	1,2,4-Trimethylbenzene	50.000	49.949	0.1	98	0.00
85	T	sec-Butylbenzene	50.000	51.530	-3.1	99	0.00
86	T	p-Isopropyltoluene	50.000	51.761	-3.5	99	0.00
87	T	1,3-Dichlorobenzene	50.000	48.641	2.7	100	0.00
88	T	1,4-Dichlorobenzene	50.000	47.680	4.6	98	0.00
89	T	n-Butylbenzene	50.000	55.132	-10.3	103	0.00
90	T	Hexachloroethane	50.000	49.734	0.5	98	0.00
91	T	1,2-Dichlorobenzene	50.000	49.543	0.9	102	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	47.340	5.3	95	0.00
93	T	1,2,4-Trichlorobenzene	50.000	52.807	-5.6	103	0.00
94	T	Hexachlorobutadiene	50.000	52.591	-5.2	108	0.00
95	T	Naphthalene	50.000	50.230	-0.5	97	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030525\
Data File : VX045127.D
Acq On : 05 Mar 2025 09:12
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Mar 06 00:58:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	51.306	-2.6	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: JACO05

Lab Code: CHEM Case No.: Q1501 SAS No.: Q1501 SDG No.: Q1501

Instrument ID: MSVOA_X Calibration Date/Time: 03/06/2025 09:56

Lab File ID: VX045155.D Init. Calib. Date(s): 02/28/2025 02/28/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 01:27 03:47

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Vinyl Chloride	0.764	0.725		-5.11	20
1,1-Dichloroethene	0.614	0.600		-2.28	20
1,1-Dichloroethane	1.247	1.215	0.1	-2.57	20
cis-1,2-Dichloroethene	0.749	0.750		0.13	20
1,1,1-Trichloroethane	1.000	0.978		-2.2	20
Benzene	1.448	1.464		1.11	20
1,2-Dichloroethane	0.521	0.534		2.49	20
Trichloroethene	0.340	0.341		0.29	20
1,1,2-Trichloroethane	0.350	0.355		1.43	20
Tetrachloroethene	0.320	0.322		0.63	20
1,2-Dichloroethane-d4	0.795	0.783		-1.51	20
Dibromofluoromethane	0.334	0.341		2.1	20
Toluene-d8	1.212	1.244		2.64	20
4-Bromofluorobenzene	0.402	0.419		4.23	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
Data File : VX045155.D
Acq On : 06 Mar 2025 09:56
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

Quant Time: Mar 07 00:36:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene	5.544	168	99532	50.000 ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	175834	50.000 ug/l	0.00
63) Chlorobenzene-d5	10.049	117	153746	50.000 ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	69403	50.000 ug/l	0.00
System Monitoring Compounds					
33) 1,2-Dichloroethane-d4	5.952	65	77946	49.233 ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 98.460%		
35) Dibromofluoromethane	5.379	113	59938	50.978 ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.960%		
50) Toluene-d8	8.647	98	218659	51.298 ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.600%		
62) 4-Bromofluorobenzene	11.079	95	73689	52.170 ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 104.340%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.166	85	62832	50.150 ug/l	97
3) Chloromethane	1.307	50	71998	46.958 ug/l	97
4) Vinyl Chloride	1.374	62	72148	47.434 ug/l	95
5) Bromomethane	1.593	94	27896	46.654 ug/l	97
6) Chloroethane	1.660	64	29705	42.341 ug/l	95
7) Trichlorofluoromethane	1.861	101	96812	48.081 ug/l	100
8) Diethyl Ether	2.136	74	36087	45.821 ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.313	101	61310	52.999 ug/l	99
10) Methyl Iodide	2.441	142	74610	51.610 ug/l	98
11) Tert butyl alcohol	3.002	59	58538	195.202 ug/l	98
12) 1,1-Dichloroethene	2.307	96	59671	48.789 ug/l	96
13) Acrolein	2.239	56	73987	213.430 ug/l	100
14) Allyl chloride	2.654	41	109096	50.112 ug/l	98
15) Acrylonitrile	3.069	53	198270	246.689 ug/l	99
16) Acetone	2.392	43	171774	233.847 ug/l	100
17) Carbon Disulfide	2.495	76	145559	44.684 ug/l	98
18) Methyl Acetate	2.709	43	95234	53.893 ug/l	97
19) Methyl tert-butyl Ether	3.117	73	200537	48.872 ug/l	99
20) Methylene Chloride	2.782	84	70093	48.172 ug/l	96
21) trans-1,2-Dichloroethene	3.081	96	60722	50.255 ug/l	98
22) Diisopropyl ether	3.764	45	224890	50.793 ug/l	96
23) Vinyl Acetate	3.721	43	950142	257.151 ug/l	100
24) 1,1-Dichloroethane	3.599	63	120920	48.731 ug/l	99
25) 2-Butanone	4.562	43	280778	253.939 ug/l	96
26) 2,2-Dichloropropane	4.465	77	79357	68.182 ug/l	95
27) cis-1,2-Dichloroethene	4.483	96	74696	50.079 ug/l	98
28) Bromochloromethane	4.891	49	54795	46.329 ug/l	98
29) Tetrahydrofuran	5.007	42	181493	244.426 ug/l	99
30) Chloroform	5.087	83	120327	48.804 ug/l	99
31) Cyclohexane	5.464	56	108111	50.191 ug/l	95
32) 1,1,1-Trichloroethane	5.379	97	97325	48.875 ug/l	99
36) 1,1-Dichloropropene	5.684	75	80527	49.941 ug/l	99
37) Ethyl Acetate	4.715	43	104246	50.173 ug/l	99
38) Carbon Tetrachloride	5.666	117	80480	49.163 ug/l	98
39) Methylcyclohexane	7.373	83	105138	54.417 ug/l	98
40) Benzene	6.031	78	257458	50.564 ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
Data File : VX045155.D
Acq On : 06 Mar 2025 09:56
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 07 00:36:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	4.922	41	58347	51.935 ug/l	98
42) 1,2-Dichloroethane	6.086	62	93921	51.224 ug/l	100
43) Isopropyl Acetate	6.342	43	158752	51.671 ug/l	99
44) Trichloroethene	7.123	130	60024	50.205 ug/l	99
45) 1,2-Dichloropropane	7.428	63	66275	50.625 ug/l	99
46) Dibromomethane	7.580	93	47874	51.739 ug/l	100
47) Bromodichloromethane	7.818	83	91992	50.685 ug/l	98
48) Methyl methacrylate	7.690	41	80137	51.991 ug/l	99
49) 1,4-Dioxane	7.665	88	32662	1004.564 ug/l	100
51) 4-Methyl-2-Pentanone	8.574	43	541338	262.414 ug/l	99
52) Toluene	8.714	92	156953	52.538 ug/l	99
53) t-1,3-Dichloropropene	8.976	75	82047	54.074 ug/l	97
54) cis-1,3-Dichloropropene	8.360	75	95642	54.055 ug/l	96
55) 1,1,2-Trichloroethane	9.147	97	62335	50.685 ug/l	99
56) Ethyl methacrylate	9.116	69	97896	52.367 ug/l	99
57) 1,3-Dichloropropane	9.305	76	107677	50.592 ug/l	99
58) 2-Chloroethyl Vinyl ether	8.238	63	249971	274.113 ug/l	99
59) 2-Hexanone	9.433	43	396084	264.998 ug/l	100
60) Dibromochloromethane	9.519	129	66396	51.634 ug/l	100
61) 1,2-Dibromoethane	9.610	107	62076	50.561 ug/l	100
64) Tetrachloroethene	9.269	164	49532	50.303 ug/l	92
65) Chlorobenzene	10.073	112	165756	50.951 ug/l	97
66) 1,1,1,2-Tetrachloroethane	10.159	131	54204	50.032 ug/l	99
67) Ethyl Benzene	10.189	91	296897	52.376 ug/l	100
68) m/p-Xylenes	10.299	106	216494	104.329 ug/l	97
69) o-Xylene	10.640	106	106776	51.019 ug/l	100
70) Styrene	10.653	104	178838	52.810 ug/l	100
71) Bromoform	10.799	173	40824	49.970 ug/l #	99
73) Isopropylbenzene	10.957	105	276189	50.984 ug/l	99
74) N-amyl acetate	10.842	43	131698	51.811 ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.213	83	98154	49.376 ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	79287m	49.083 ug/l	
77) Bromobenzene	11.195	156	64179	50.213 ug/l	98
78) n-propylbenzene	11.305	91	322984	52.781 ug/l	99
79) 2-Chlorotoluene	11.360	91	193846	49.740 ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	224986	51.365 ug/l	100
81) trans-1,4-Dichloro-2-b...	11.018	75	24421	51.737 ug/l	94
82) 4-Chlorotoluene	11.451	91	215920	50.836 ug/l	99
83) tert-Butylbenzene	11.713	119	226930	50.423 ug/l	100
84) 1,2,4-Trimethylbenzene	11.750	105	227267	51.566 ug/l	100
85) sec-Butylbenzene	11.890	105	284085	52.696 ug/l	99
86) p-Isopropyltoluene	12.006	119	233986	53.707 ug/l	100
87) 1,3-Dichlorobenzene	11.969	146	113668	49.852 ug/l	99
88) 1,4-Dichlorobenzene	12.036	146	114115	49.469 ug/l	98
89) n-Butylbenzene	12.329	91	209635	55.868 ug/l	99
90) Hexachloroethane	12.536	117	39179	49.718 ug/l	99
91) 1,2-Dichlorobenzene	12.335	146	117105	51.199 ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.939	75	19847	51.248 ug/l	98
93) 1,2,4-Trichlorobenzene	13.585	180	70127	53.845 ug/l	99
94) Hexachlorobutadiene	13.725	225	27989	52.418 ug/l	99
95) Naphthalene	13.774	128	266376	53.234 ug/l	100
96) 1,2,3-Trichlorobenzene	13.963	180	73124	53.222 ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
Data File : VX045155.D
Acq On : 06 Mar 2025 09:56
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 07 00:36:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
Data File : VX045155.D
Acq On : 06 Mar 2025 09:56
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 07 00:36:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 03/10/2025
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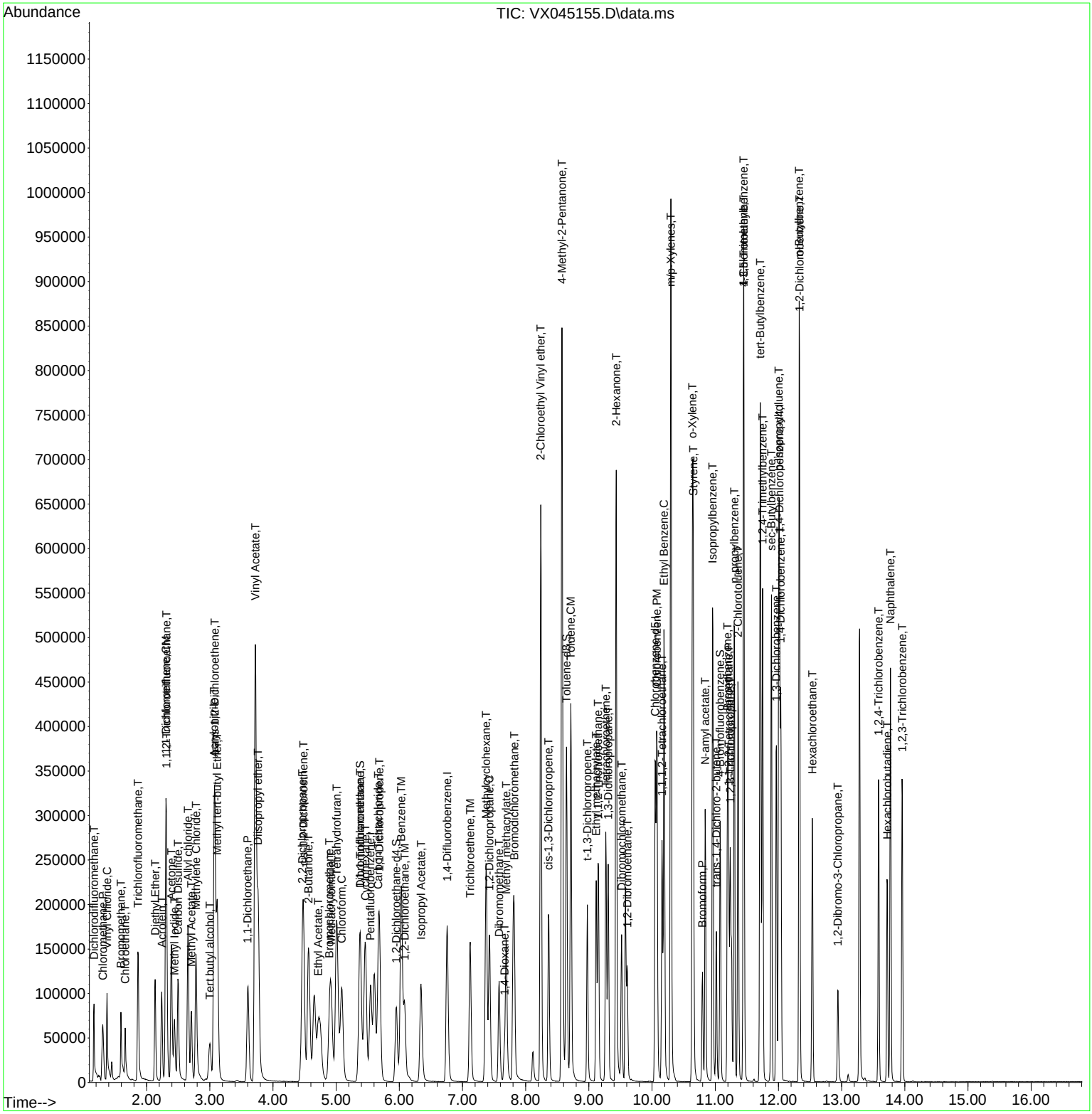

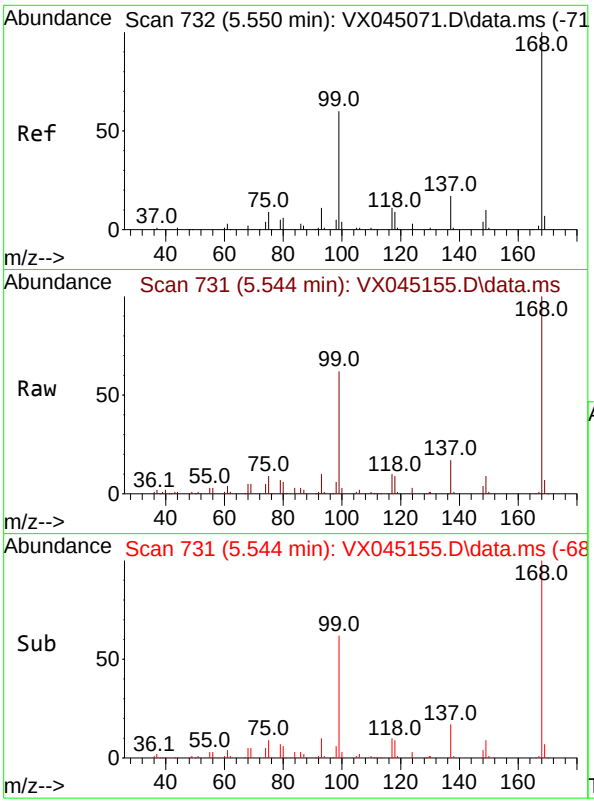

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion:168 Resp: 9953

Ion	Ratio	Lower	Upper
168	100		
99	61.9	48.2	72.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/10/2025
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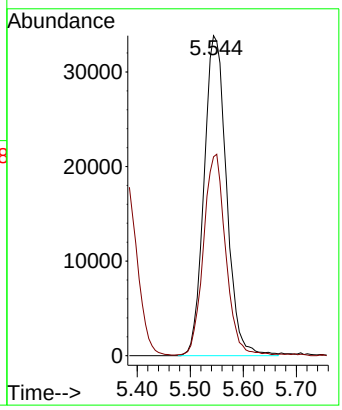
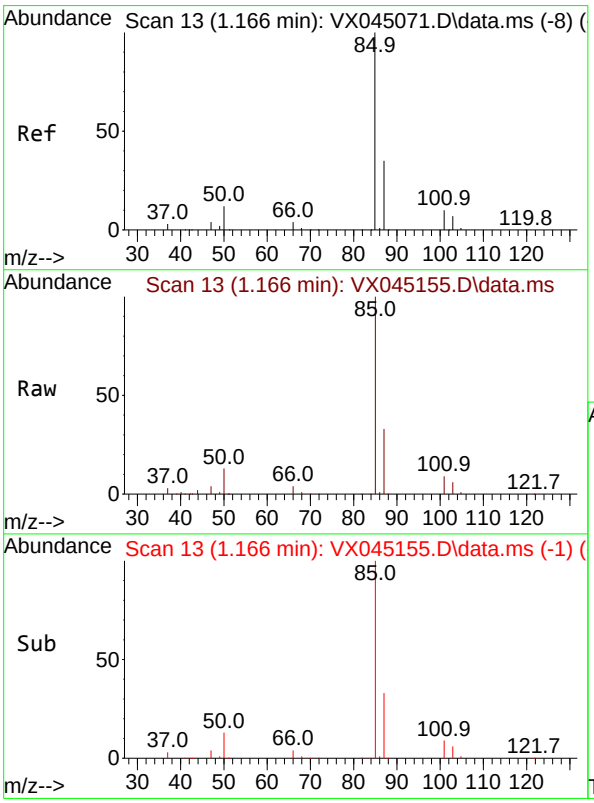
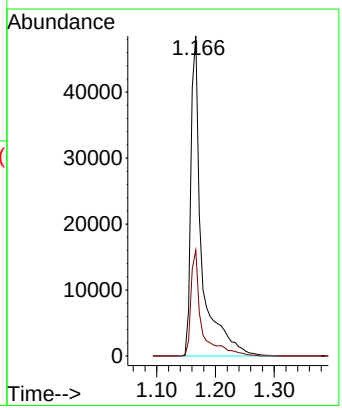


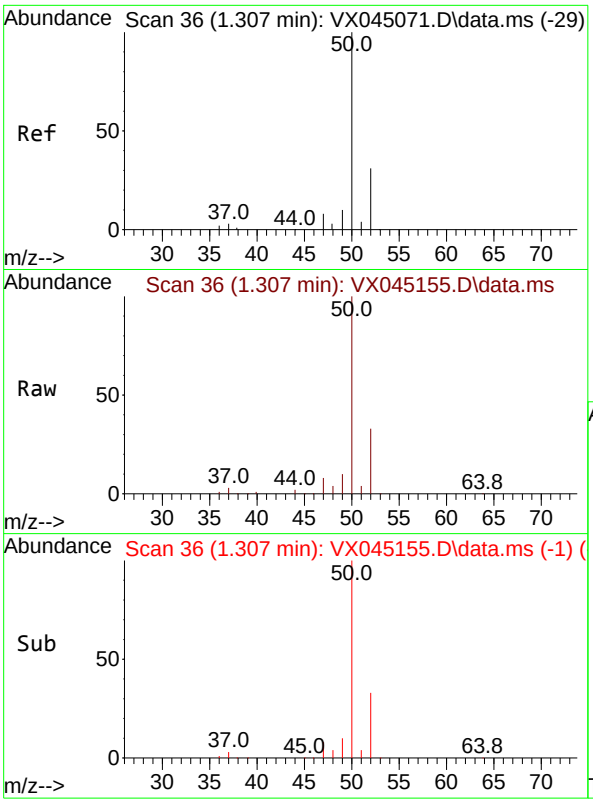


#2
Dichlorodifluoromethane
Concen: 50.150 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion: 85 Resp: 62832

Ion	Ratio	Lower	Upper
85	100		
87	33.0	17.4	52.3





#3
Chloromethane
Concen: 46.958 ug/l
RT: 1.307 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

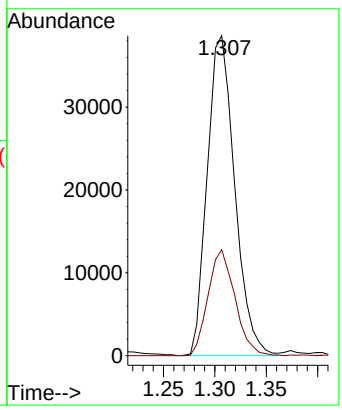
Tgt Ion: 50 Resp: 7199

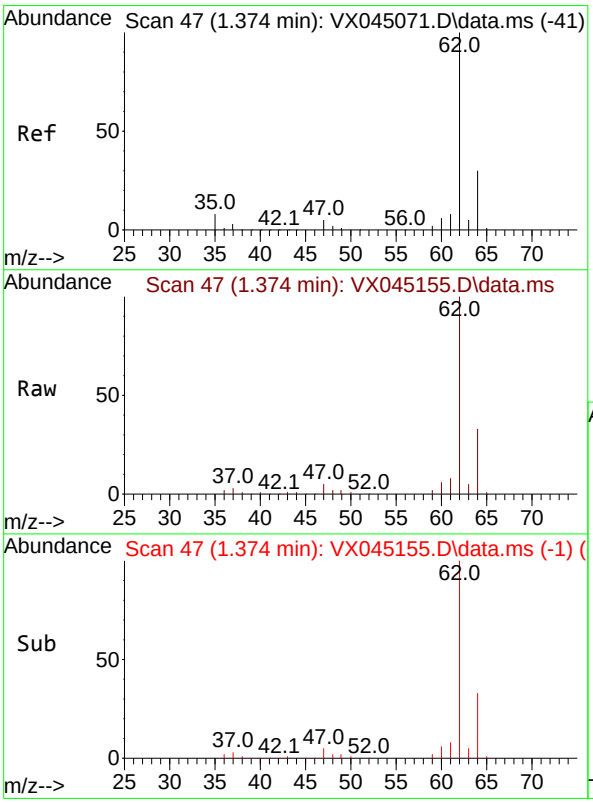
Ion	Ratio	Lower	Upper
50	100		
52	33.1	25.0	37.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

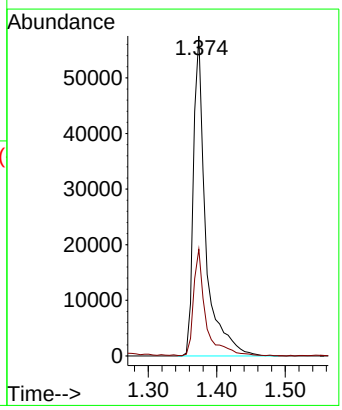


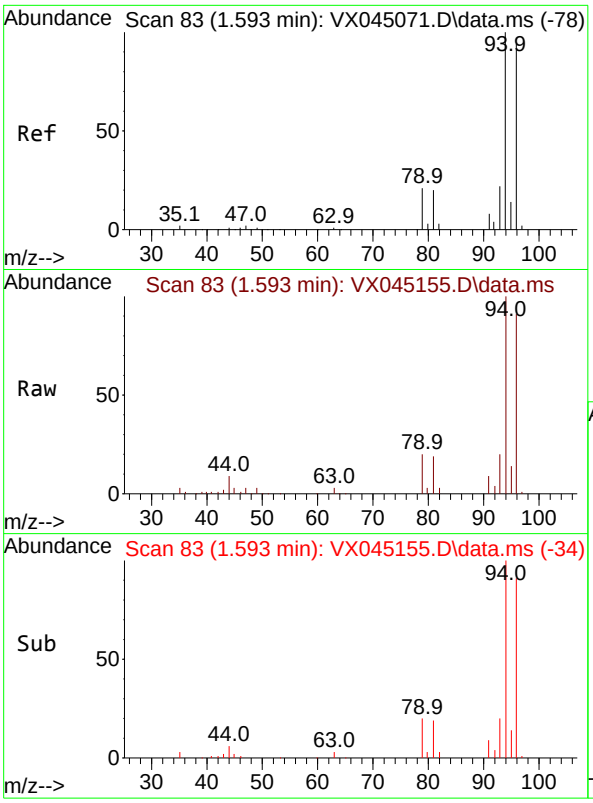


#4
Vinyl Chloride
Concen: 47.434 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion: 62 Resp: 72148

Ion	Ratio	Lower	Upper
62	100		
64	33.2	24.3	36.5





#5
Bromomethane
Concen: 46.654 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

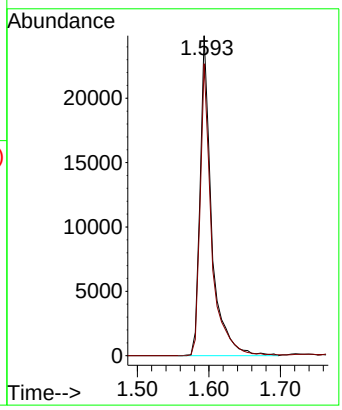
Tgt Ion: 94 Resp: 2789

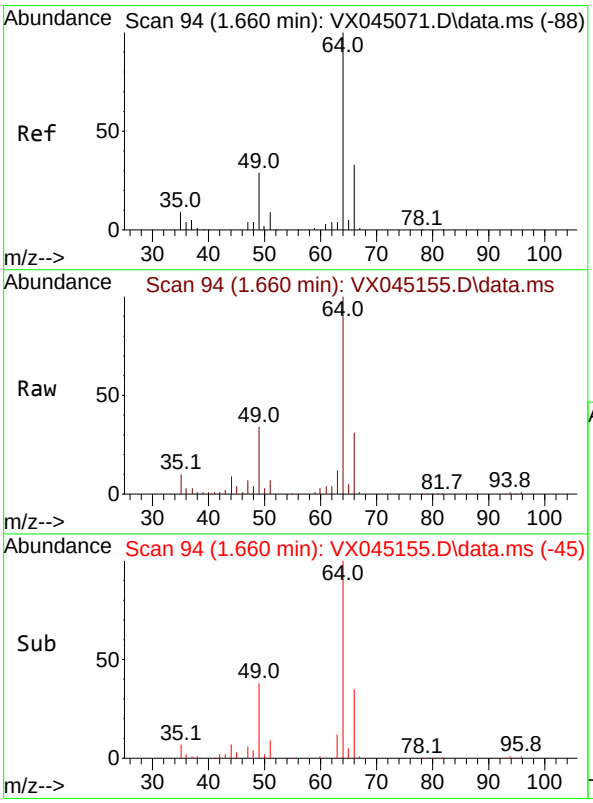
Ion	Ratio	Lower	Upper
94	100		
96	91.2	75.0	112.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

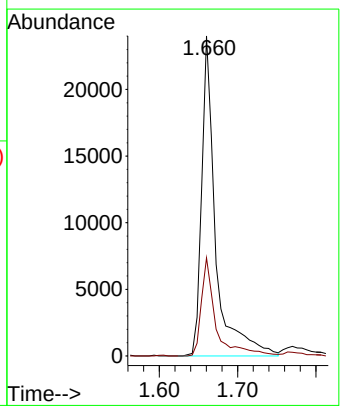


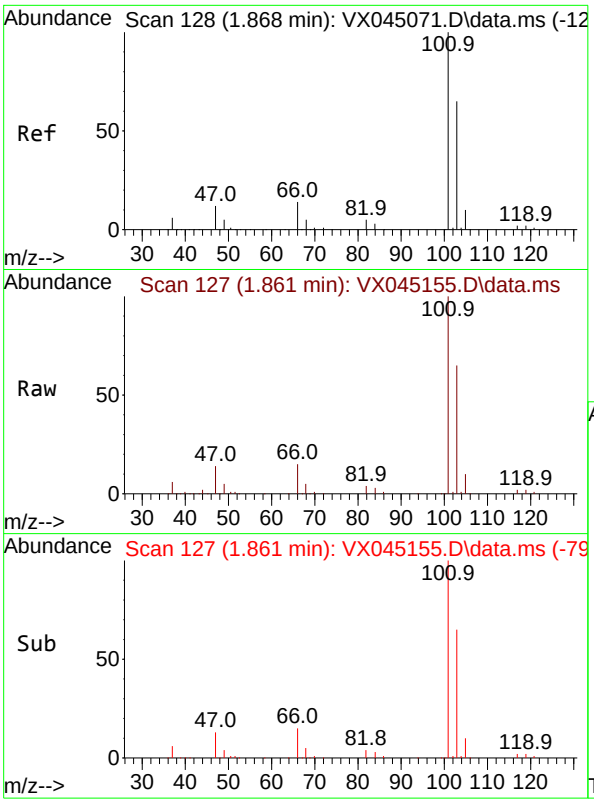


#6
Chloroethane
Concen: 42.341 ug/l
RT: 1.660 min Scan# 94
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion: 64 Resp: 29705

Ion	Ratio	Lower	Upper
64	100		
66	30.6	26.7	40.1





#7
Trichlorofluoromethane
Concen: 48.081 ug/l
RT: 1.861 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

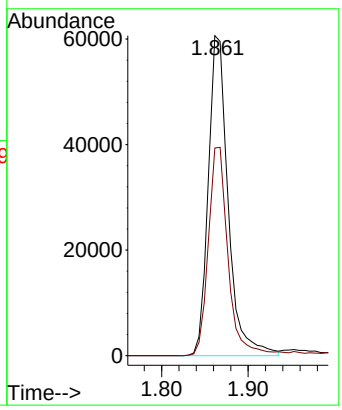
Tgt Ion:101 Resp: 9681

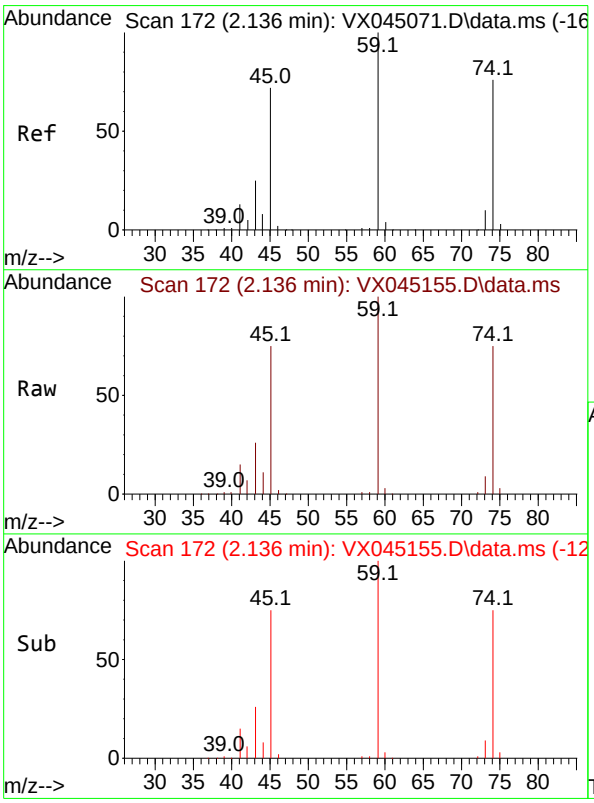
Ion	Ratio	Lower	Upper
101	100		
103	64.9	52.1	78.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

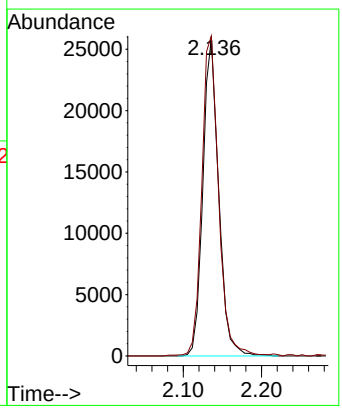


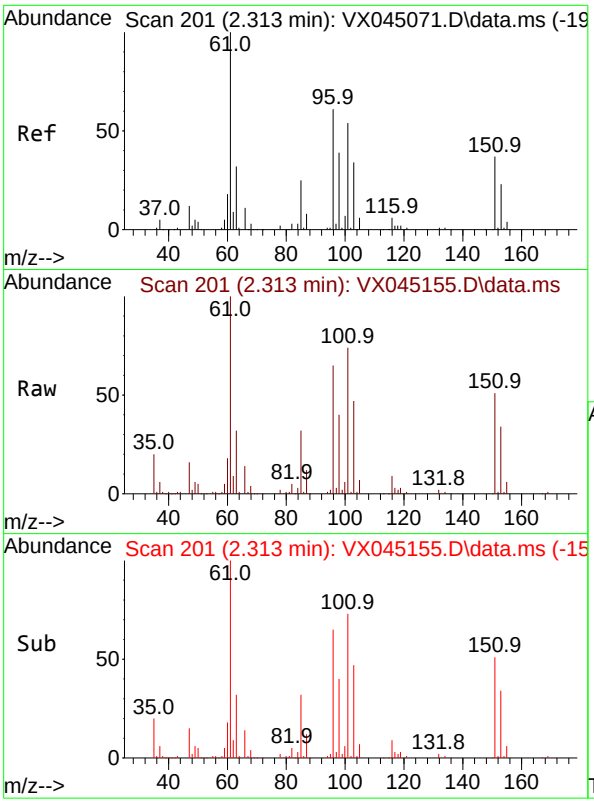


#8
Diethyl Ether
Concen: 45.821 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion: 74 Resp: 36087

Ion	Ratio	Lower	Upper
74	100		
45	107.4	51.5	154.5





#9
1,1,2-Trichlorotrifluoroethane
Concen: 52.999 ug/l
RT: 2.313 min Scan# 2(
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

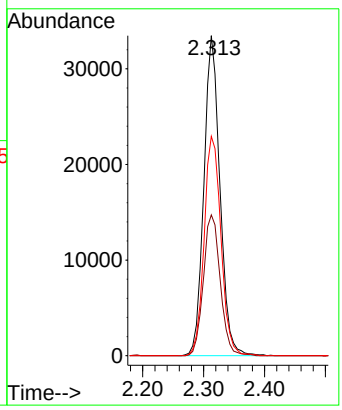
Tgt Ion:101 Resp: 6131(

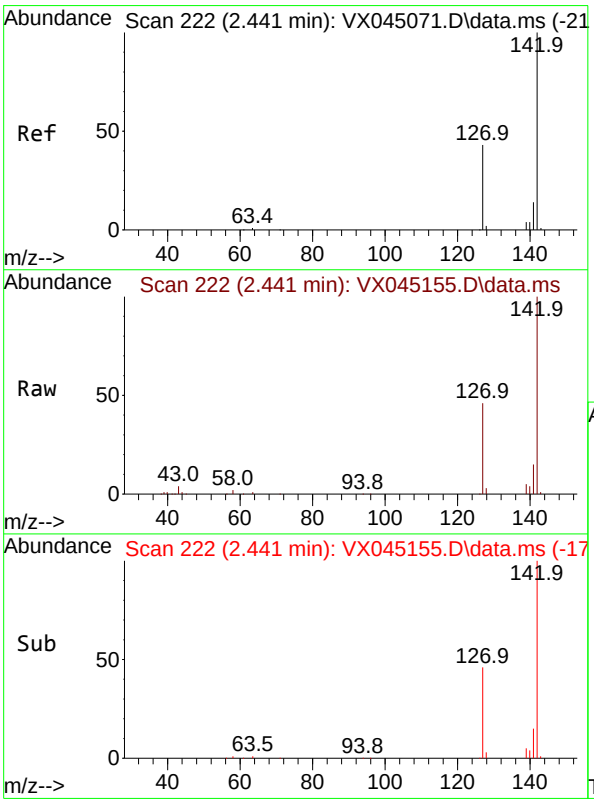
Ion	Ratio	Lower	Upper
101	100		
85	46.2	36.2	54.4
151	71.8	56.4	84.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

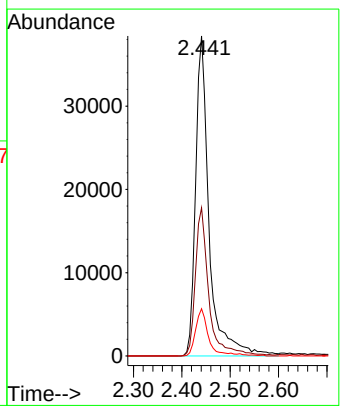


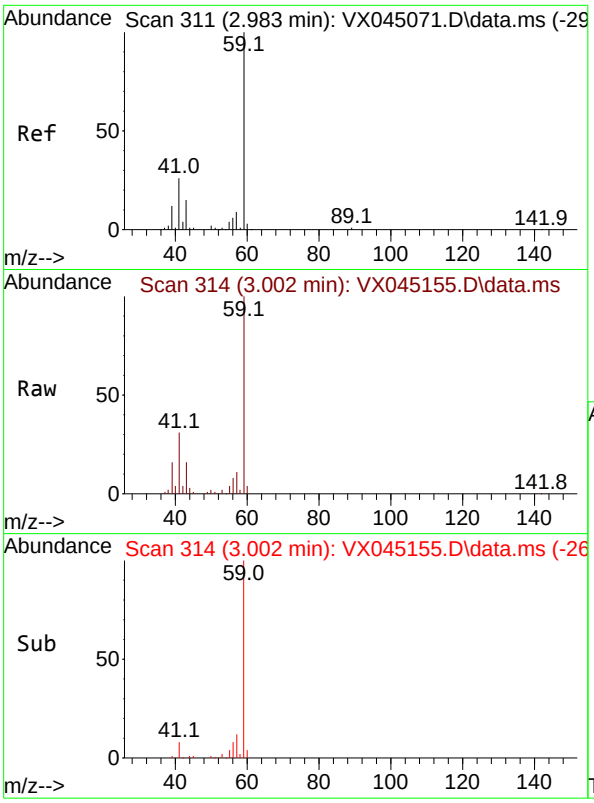


#10
Methyl Iodide
Concen: 51.610 ug/l
RT: 2.441 min Scan# 222
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion:142 Resp: 74610

Ion	Ratio	Lower	Upper
142	100		
127	46.1	35.4	53.2
141	14.3	11.6	17.4





#11
Tert butyl alcohol
Concen: 195.202 ug/l
RT: 3.002 min Scan# 3
Delta R.T. 0.018 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

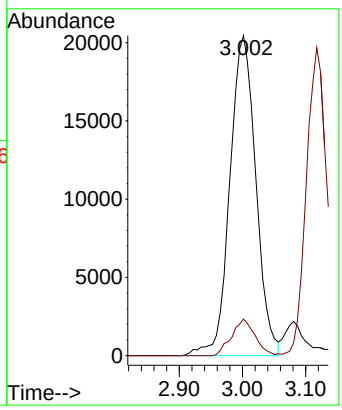
Tgt Ion: 59 Resp: 5853

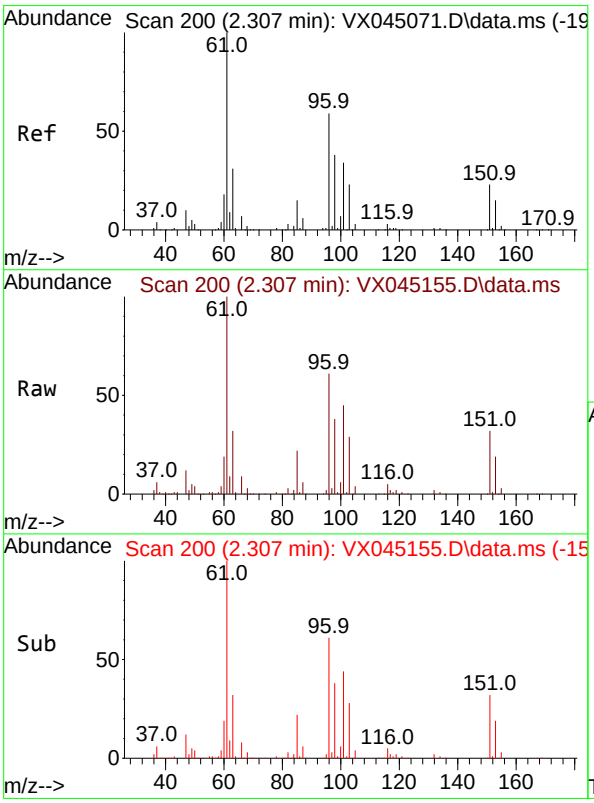
Ion	Ratio	Lower	Upper
59	100		
57	10.4	7.8	11.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

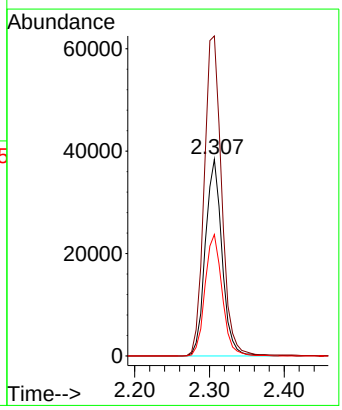


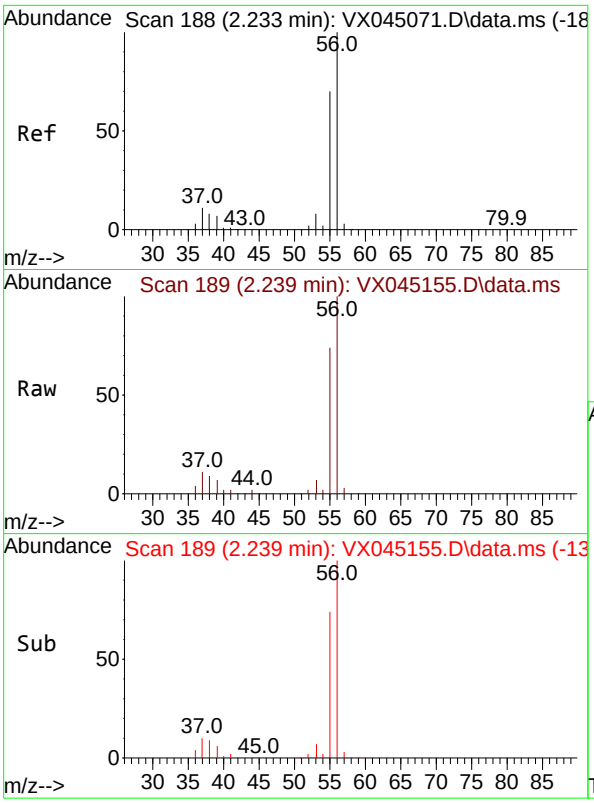


#12
1,1-Dichloroethene
Concen: 48.789 ug/l
RT: 2.307 min Scan# 200
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion: 96 Resp: 59671

Ion	Ratio	Lower	Upper
96	100		
61	162.7	134.6	202.0
98	61.8	51.0	76.6





#13
Acrolein
Concen: 213.430 ug/l
RT: 2.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion: 56 Resp: 7398

Ion	Ratio	Lower	Upper
56	100		
55	70.4	56.2	84.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

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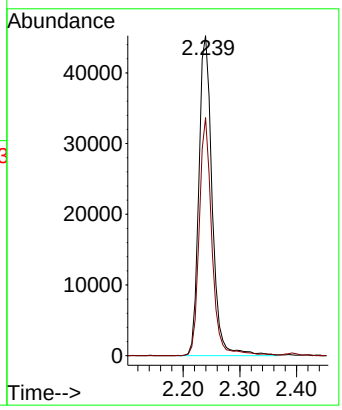
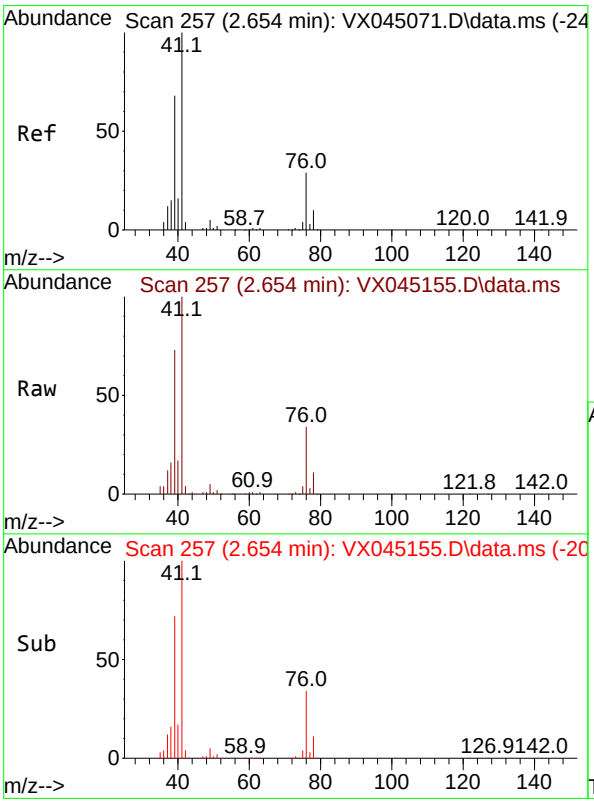
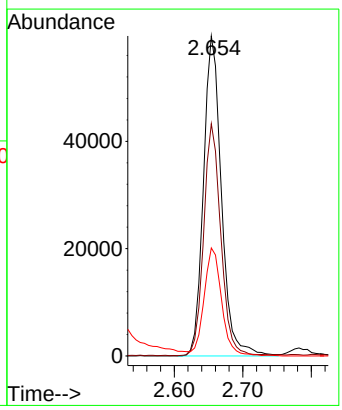


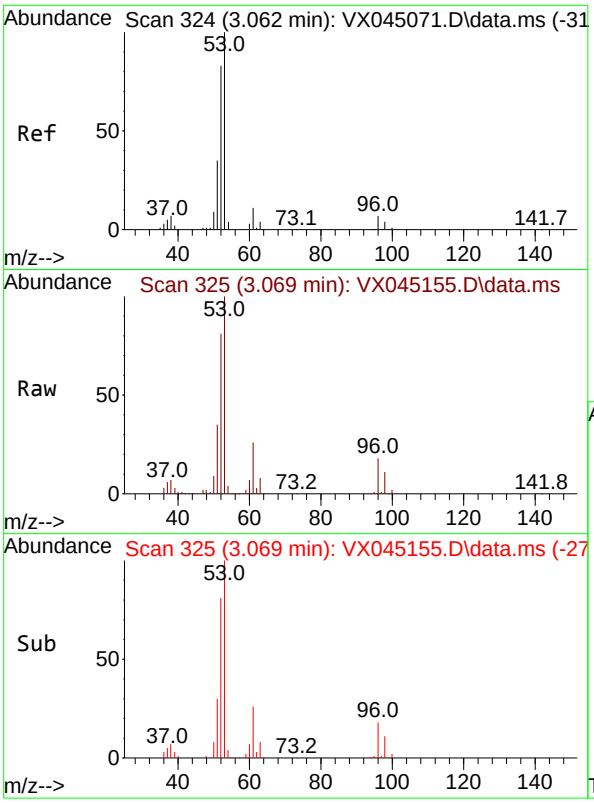


#14
Allyl chloride
Concen: 50.112 ug/l
RT: 2.654 min Scan# 257
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion: 41 Resp: 109096

Ion	Ratio	Lower	Upper
41	100		
39	68.9	53.8	80.8
76	32.5	25.2	37.8





#15
Acrylonitrile
Concen: 246.689 ug/l
RT: 3.069 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

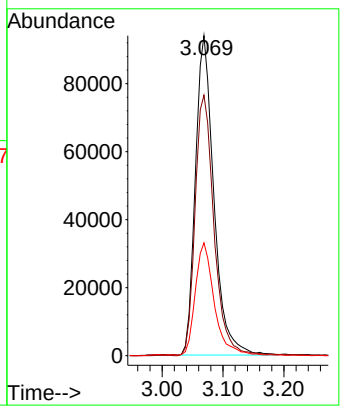
Tgt Ion: 53 Resp: 19827

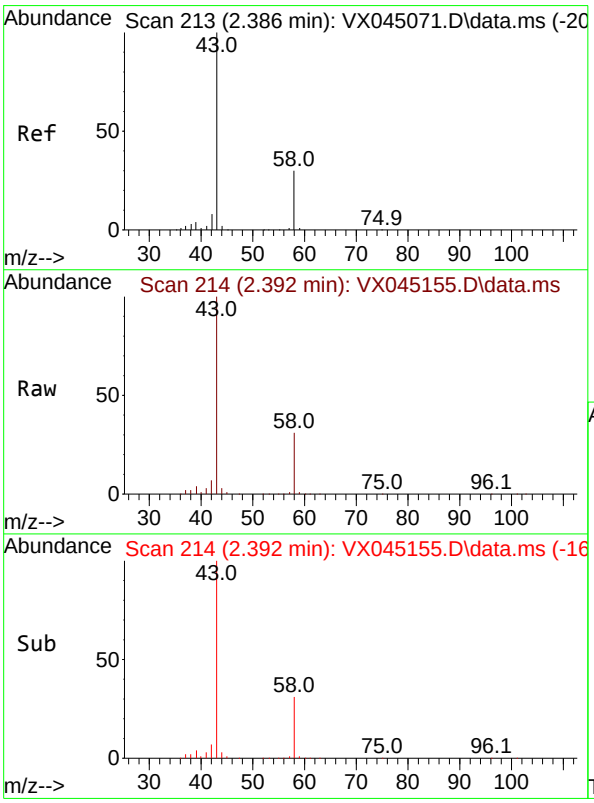
Ion	Ratio	Lower	Upper
53	100		
52	83.6	66.2	99.2
51	35.6	29.0	43.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

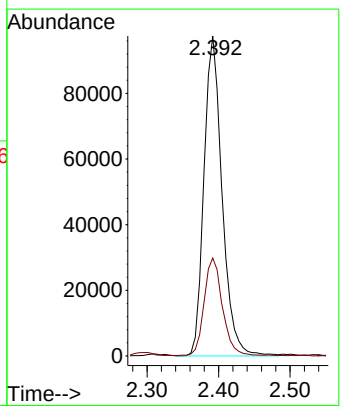


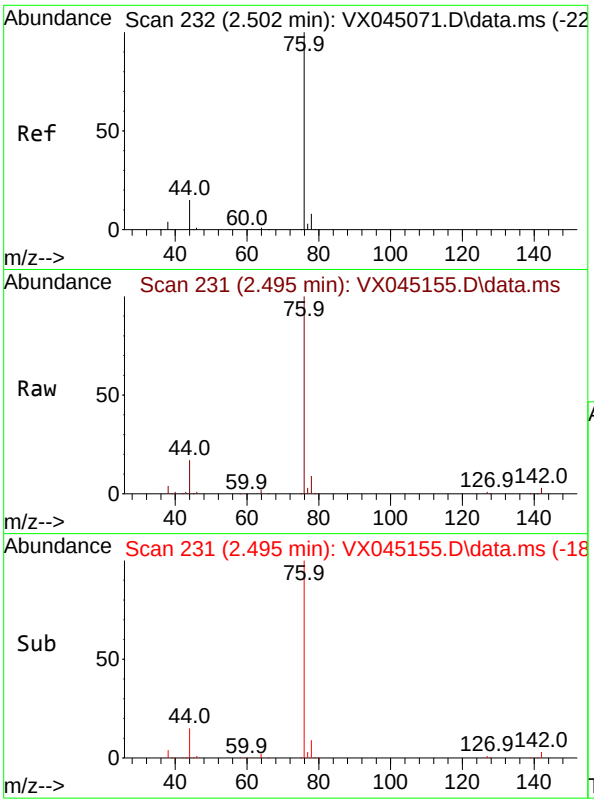


#16
Acetone
Concen: 233.847 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.006 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion: 43 Resp: 171774

Ion	Ratio	Lower	Upper
43	100		
58	30.5	24.2	36.4





#17
Carbon Disulfide
Concen: 44.684 ug/l
RT: 2.495 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion: 76 Resp: 14555

Ion	Ratio	Lower	Upper
76	100		
78	9.0	6.6	9.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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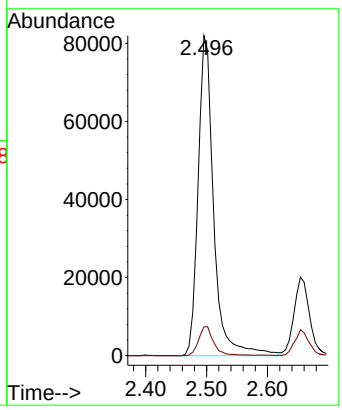
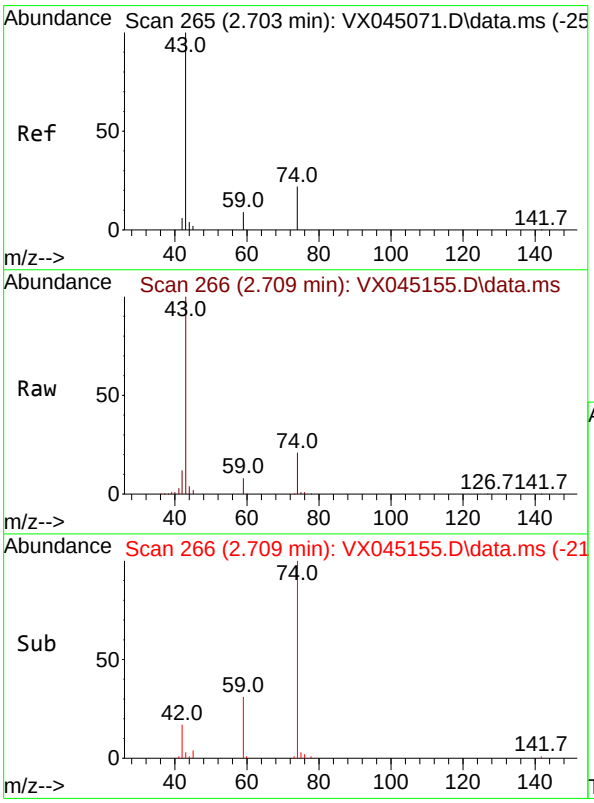
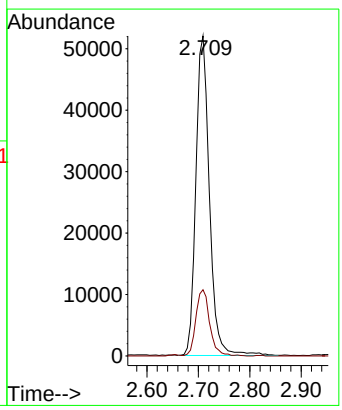


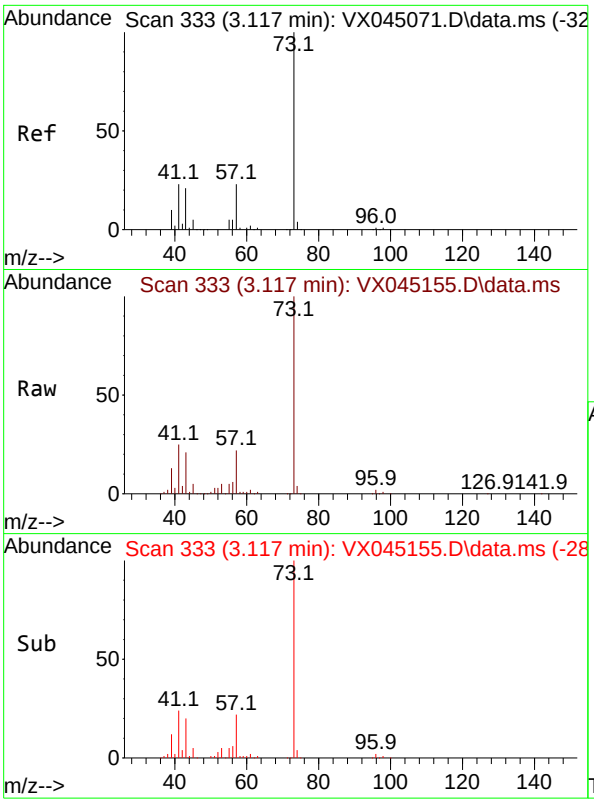


#18
Methyl Acetate
Concen: 53.893 ug/l
RT: 2.709 min Scan# 266
Delta R.T. 0.006 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion: 43 Resp: 95234

Ion	Ratio	Lower	Upper
43	100		
74	20.6	17.4	26.2





#19
Methyl tert-butyl Ether
Concen: 48.872 ug/l
RT: 3.117 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion: 73 Resp: 20053

Ion	Ratio	Lower	Upper
73	100		
57	22.5	18.5	27.7

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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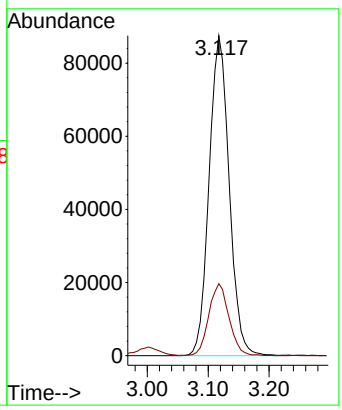
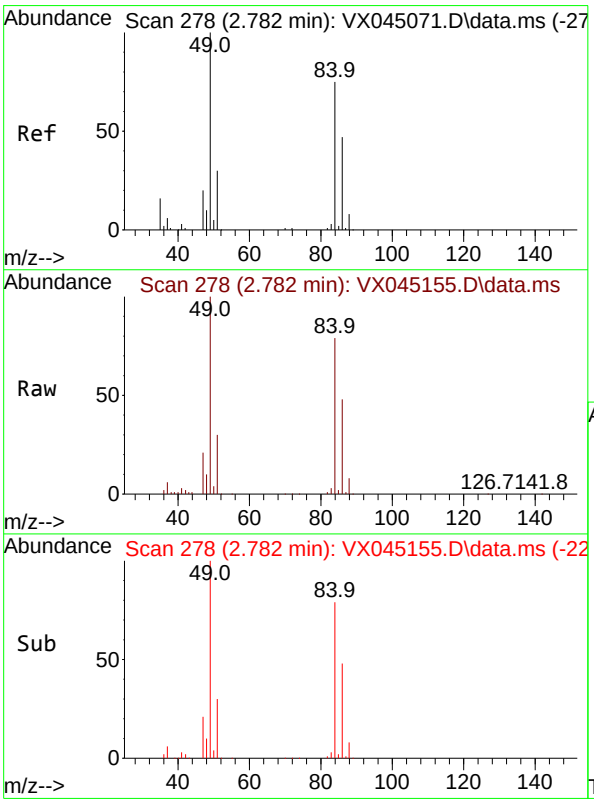
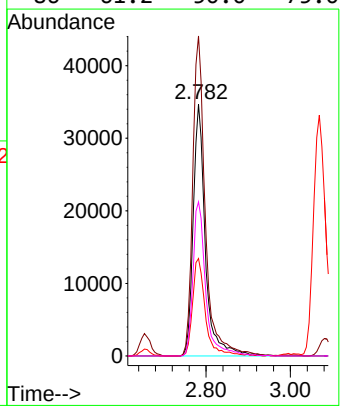


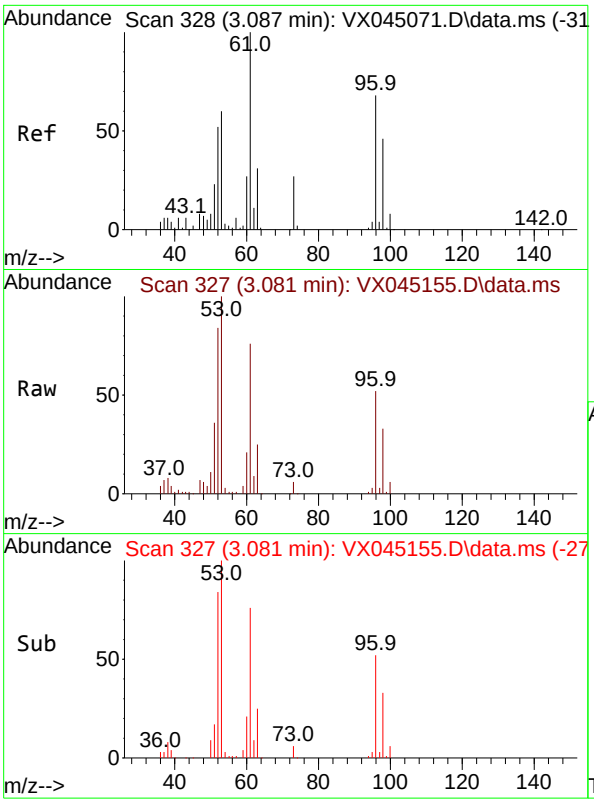


#20
Methylene Chloride
Concen: 48.172 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion: 84 Resp: 70093

Ion	Ratio	Lower	Upper
84	100		
49	127.1	106.5	159.7
51	38.7	32.1	48.1
86	61.2	50.0	75.0





#21
trans-1,2-Dichloroethene
Concen: 50.255 ug/l
RT: 3.081 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion: 96 Resp: 6072

Ion	Ratio	Lower	Upper
96	100		
61	145.1	117.0	175.4
98	64.4	53.4	80.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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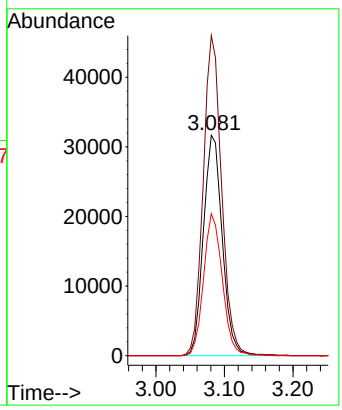
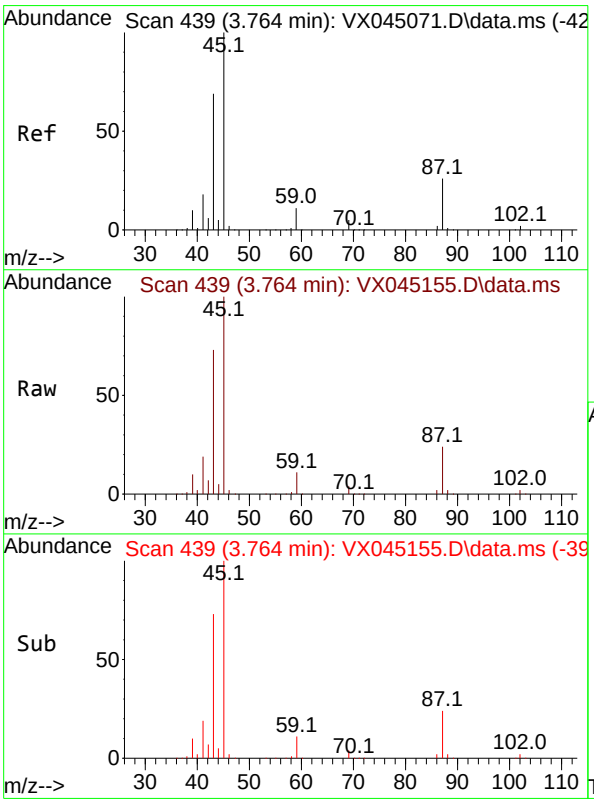
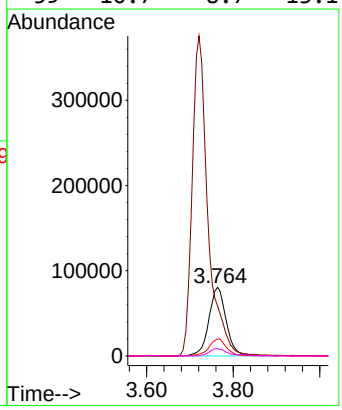


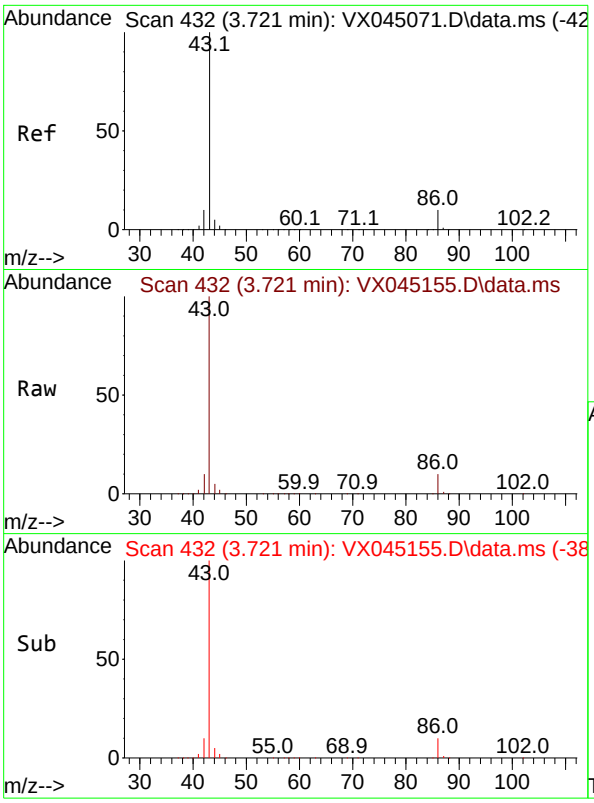


#22
Diisopropyl ether
Concen: 50.793 ug/l
RT: 3.764 min Scan# 439
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion: 45 Resp: 224890

Ion	Ratio	Lower	Upper
45	100		
43	72.7	54.9	82.3
87	24.4	21.0	31.4
59	10.7	8.7	13.1





#23
Vinyl Acetate
Concen: 257.151 ug/l
RT: 3.721 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion: 43 Resp: 95014

Ion	Ratio	Lower	Upper
43	100		
86	10.1	8.1	12.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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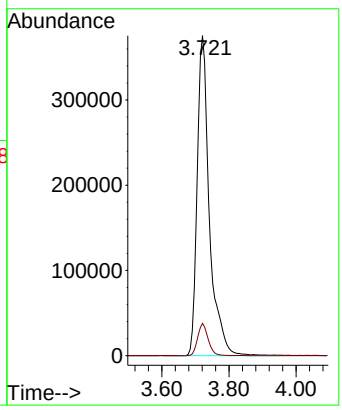
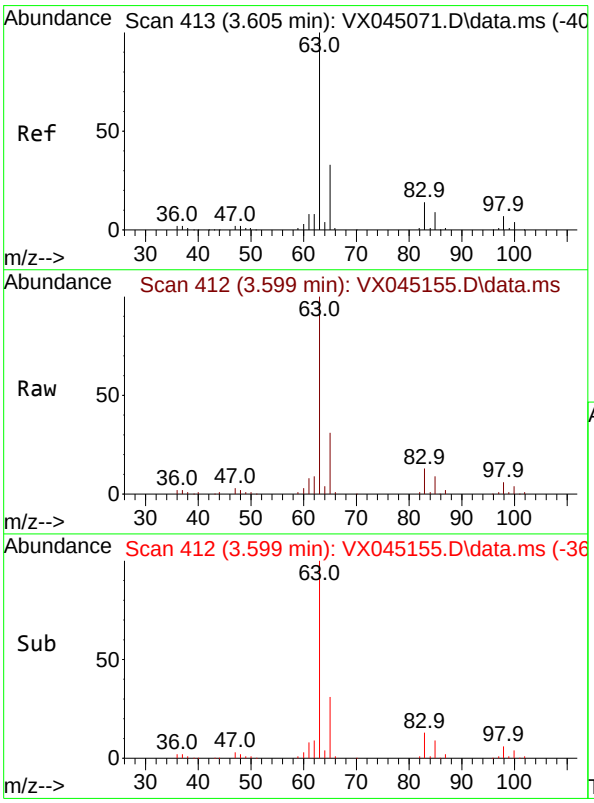
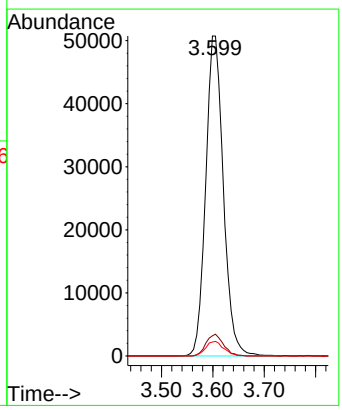


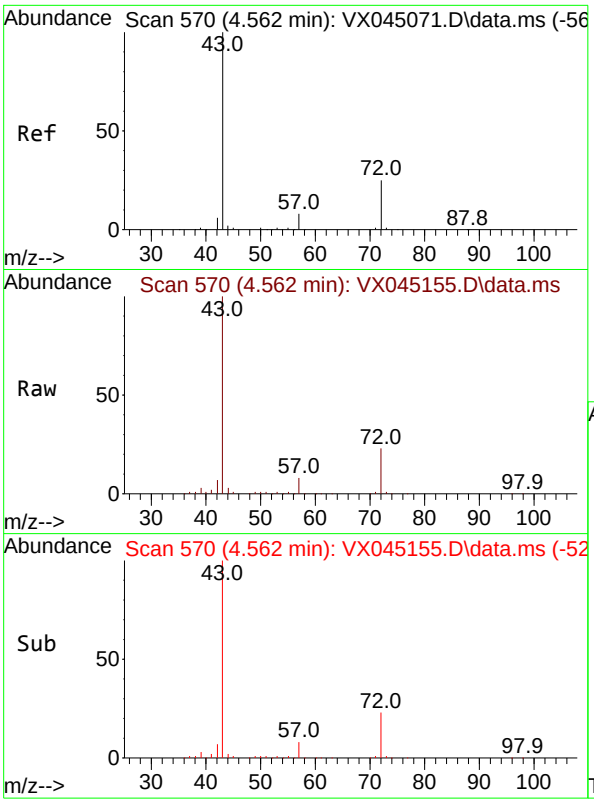


#24
1,1-Dichloroethane
Concen: 48.731 ug/l
RT: 3.599 min Scan# 412
Delta R.T. -0.006 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion: 63 Resp: 120920

Ion	Ratio	Lower	Upper
63	100		
98	6.3	3.4	10.2
100	4.4	2.1	6.5





#25
2-Butanone
Concen: 253.939 ug/l
RT: 4.562 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion: 43 Resp: 28077

Ion	Ratio	Lower	Upper
43	100		
72	23.2	20.0	30.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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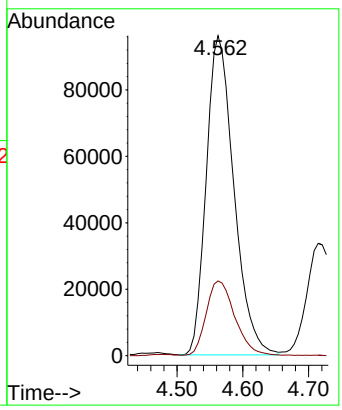
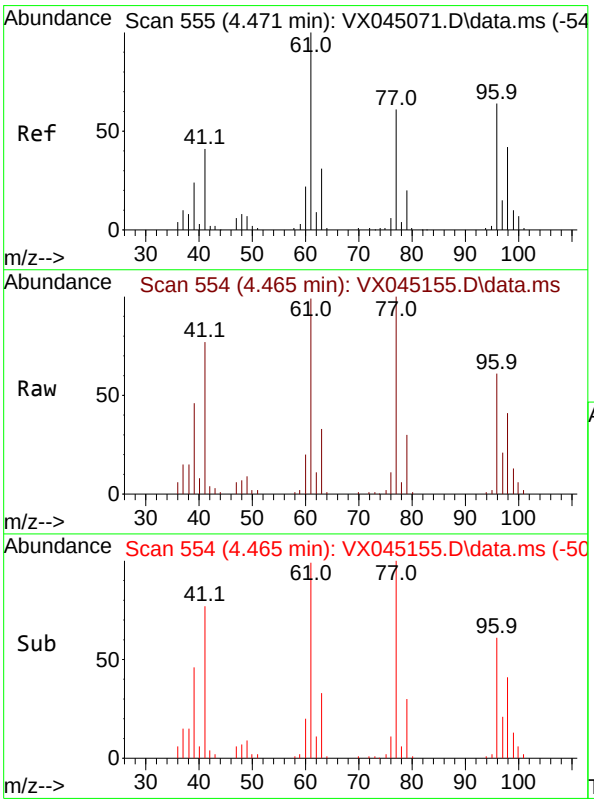
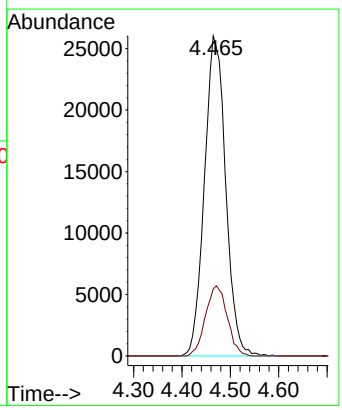


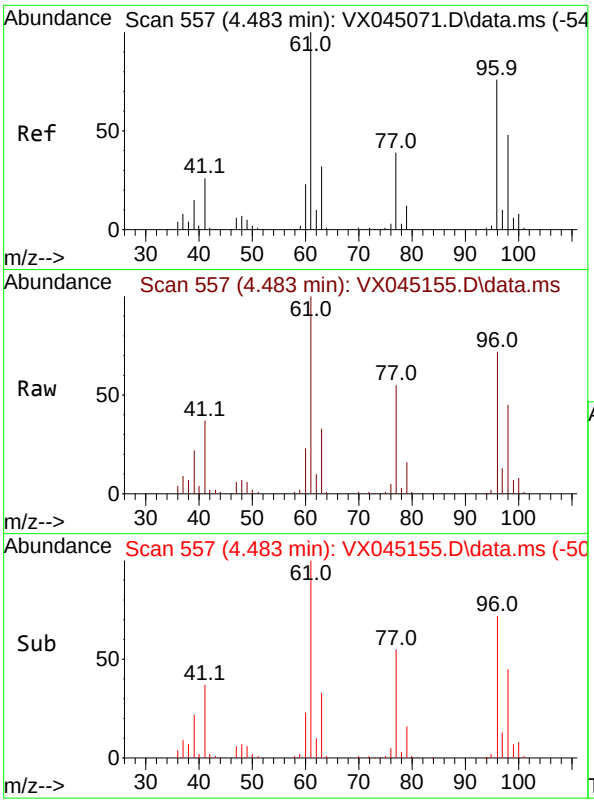


#26
2,2-Dichloropropane
Concen: 68.182 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.006 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion: 77 Resp: 79357

Ion	Ratio	Lower	Upper
77	100		
97	22.4	12.4	37.0





#27
cis-1,2-Dichloroethene
Concen: 50.079 ug/l
RT: 4.483 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion: 96 Resp: 7469

Ion	Ratio	Lower	Upper
96	100		
61	145.5	0.0	283.2
98	63.7	0.0	128.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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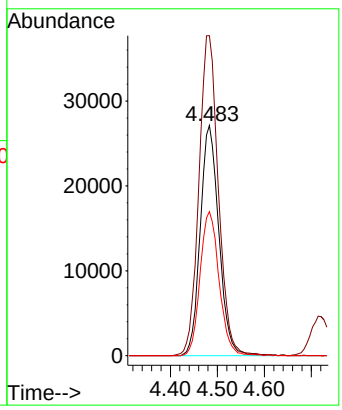
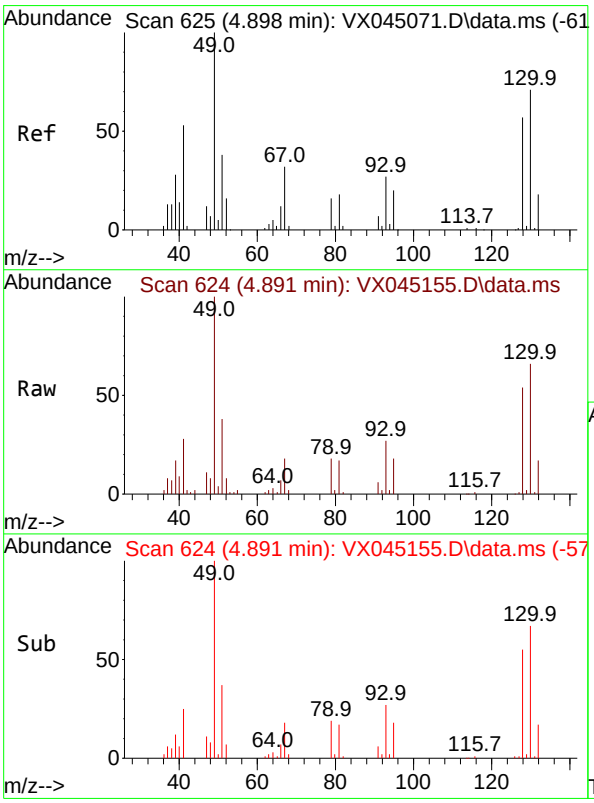
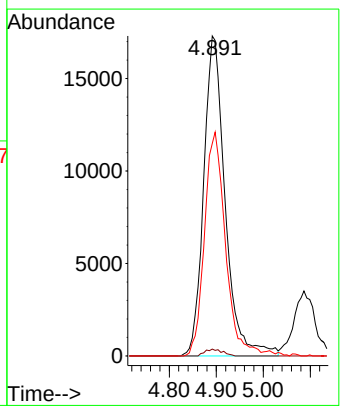


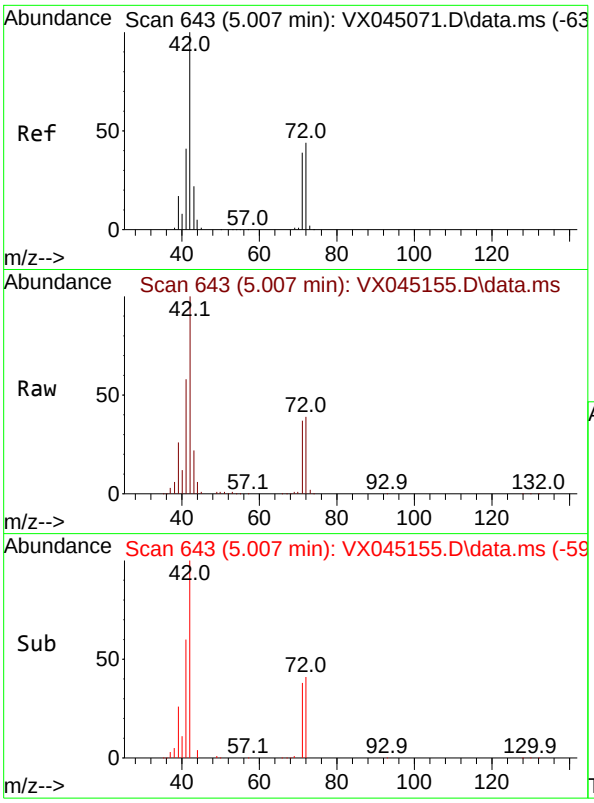


#28
Bromochloromethane
Concen: 46.329 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion: 49 Resp: 54795

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	3.4
130	68.4	56.1	84.1





#29
Tetrahydrofuran
Concen: 244.426 ug/l
RT: 5.007 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion: 42 Resp: 18149

Ion	Ratio	Lower	Upper
42	100		
72	41.9	34.1	51.1
71	38.3	31.4	47.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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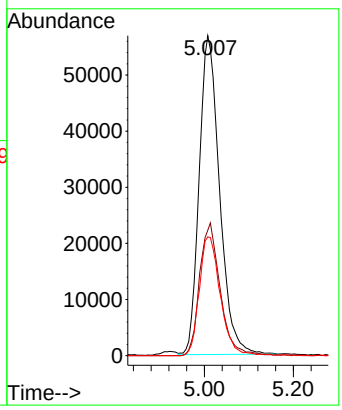
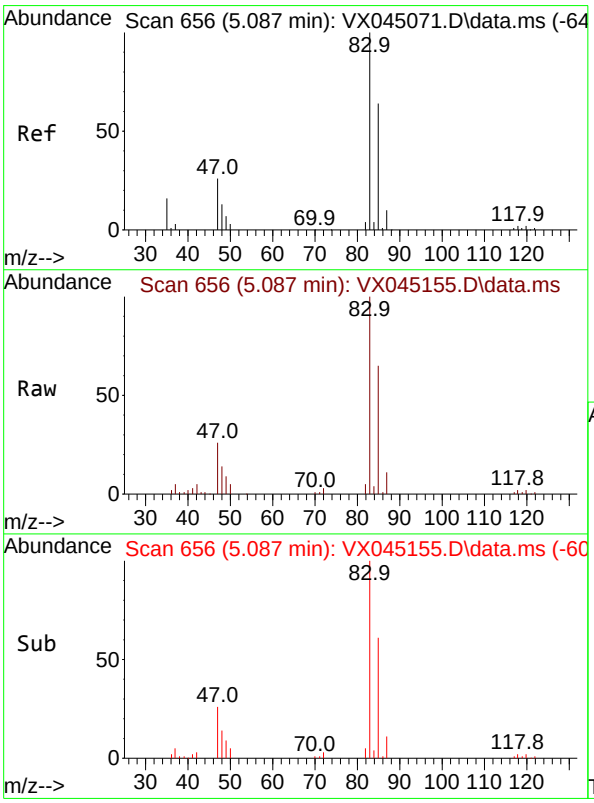
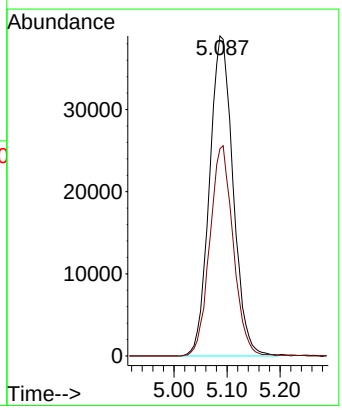


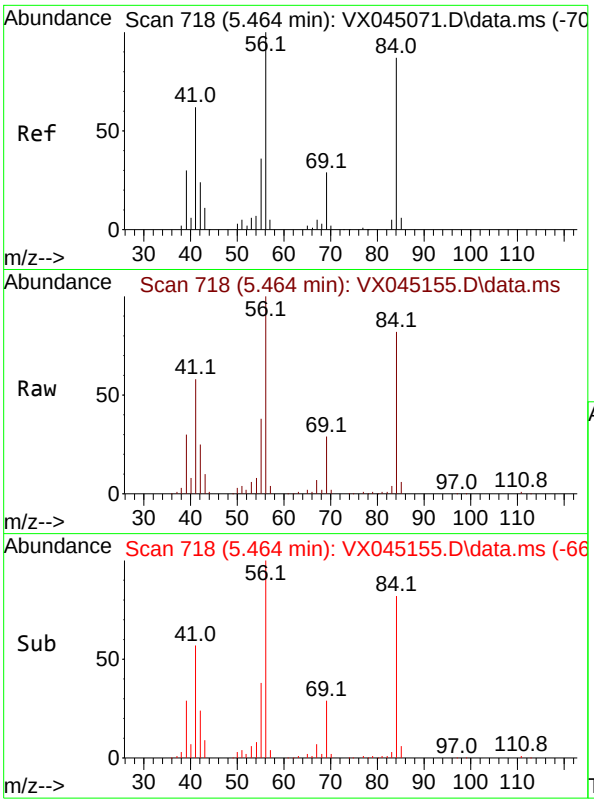


#30
Chloroform
Concen: 48.804 ug/l
RT: 5.087 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion: 83 Resp: 120327

Ion	Ratio	Lower	Upper
83	100		
85	64.7	51.4	77.2





#31
Cyclohexane
Concen: 50.191 ug/l
RT: 5.464 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion: 56 Resp: 10811

Ion	Ratio	Lower	Upper
56	100		
69	29.4	23.4	35.2
84	80.2	69.4	104.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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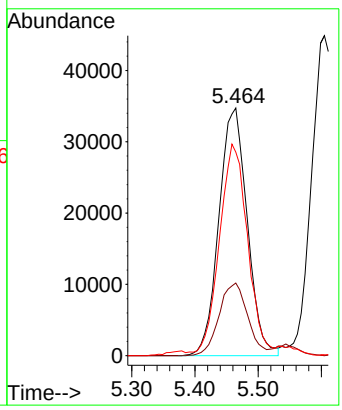
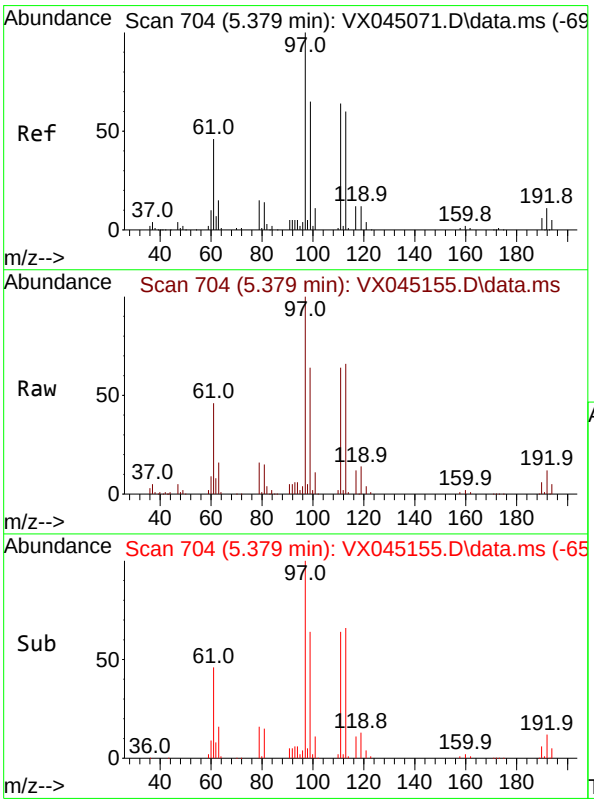
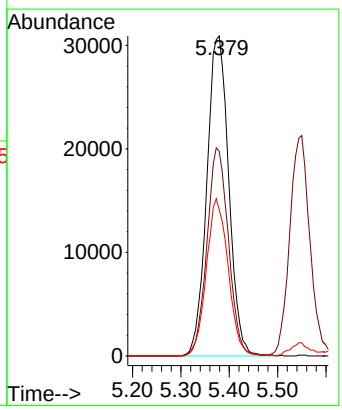


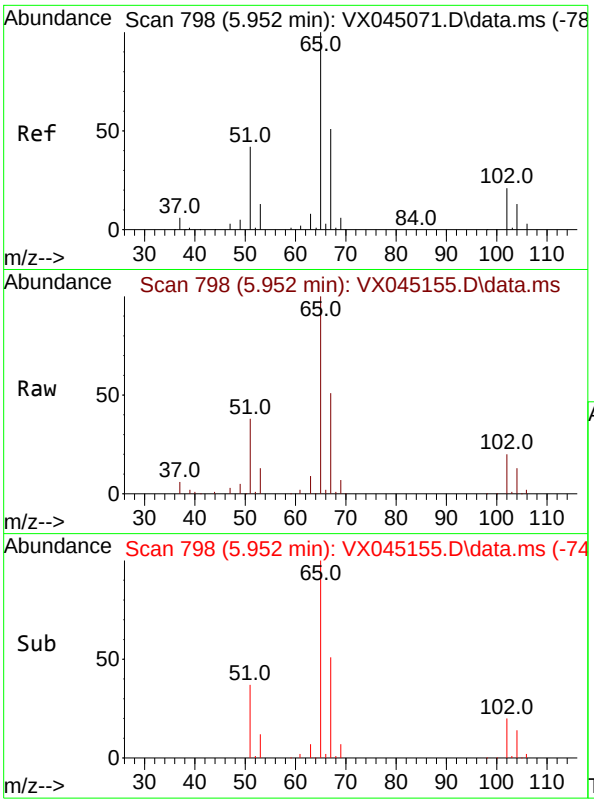


#32
1,1,1-Trichloroethane
Concen: 48.875 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion: 97 Resp: 97325

Ion	Ratio	Lower	Upper
97	100		
99	63.6	51.6	77.4
61	49.0	38.4	57.6





#33
1,2-Dichloroethane-d4
Concen: 49.233 ug/l
RT: 5.952 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion: 65 Resp: 7794

Ion	Ratio	Lower	Upper
65	100		
67	52.3	0.0	106.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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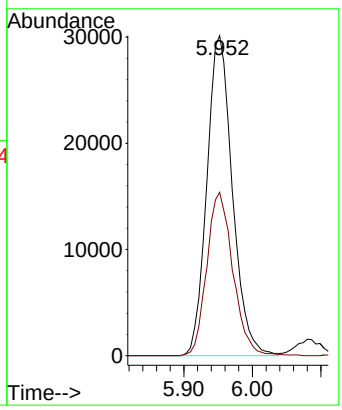
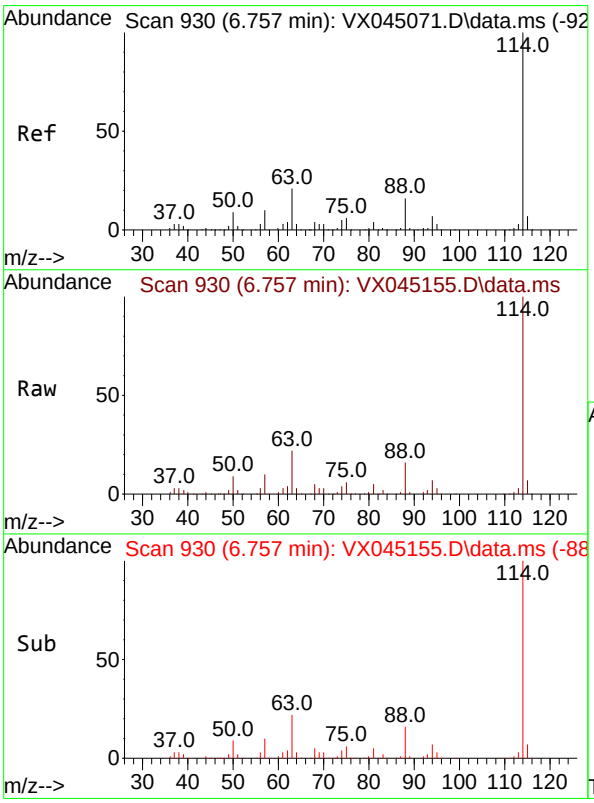
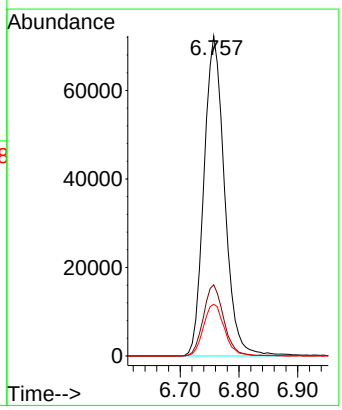


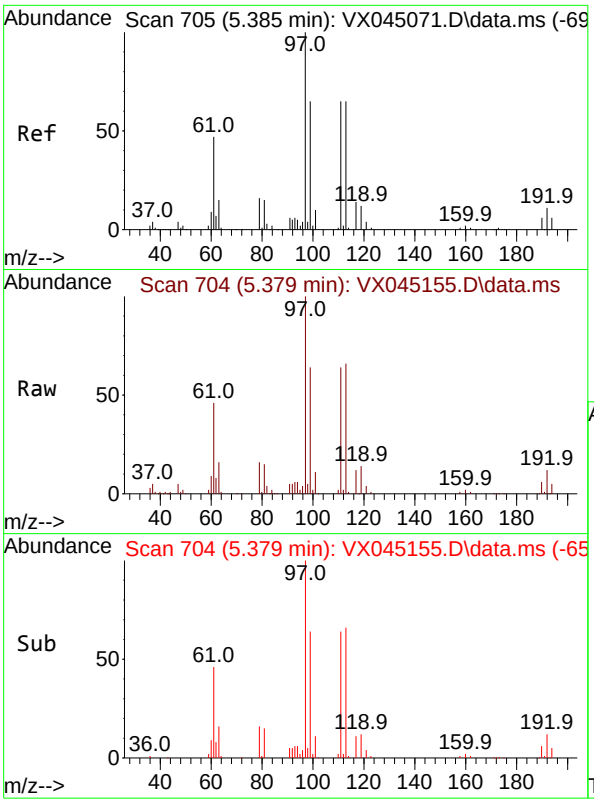


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion:114 Resp: 175834

Ion	Ratio	Lower	Upper
114	100		
63	22.2	0.0	41.8
88	16.2	0.0	32.8





#35
Dibromofluoromethane
Concen: 50.978 ug/l
RT: 5.379 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion:113 Resp: 5993

Ion	Ratio	Lower	Upper
113	100		
111	101.6	81.8	122.6
192	17.3	14.3	21.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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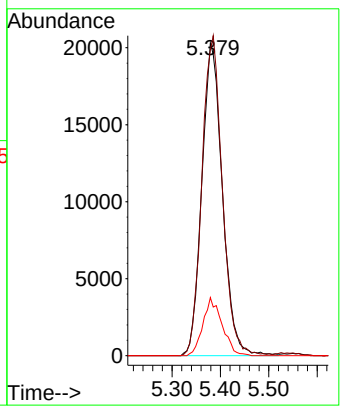
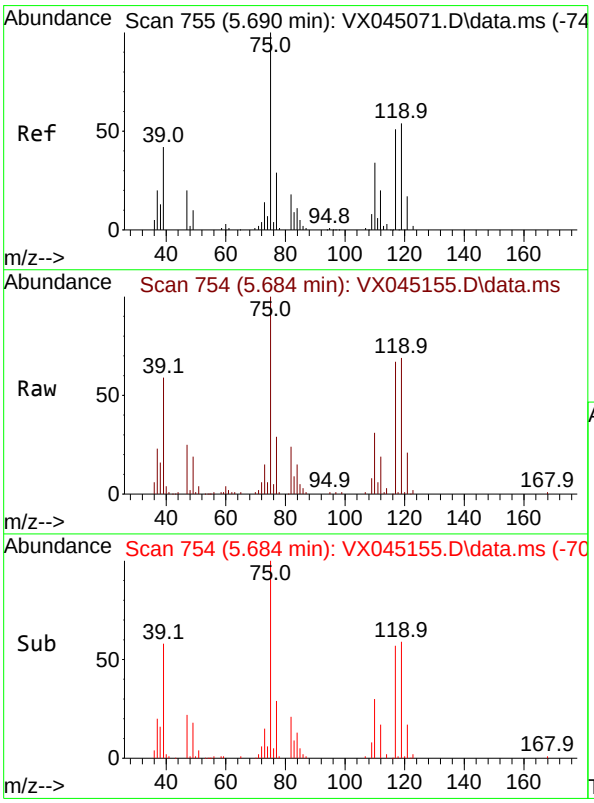
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

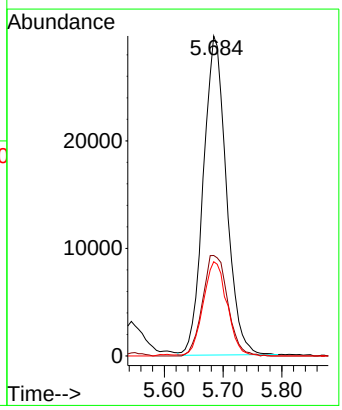


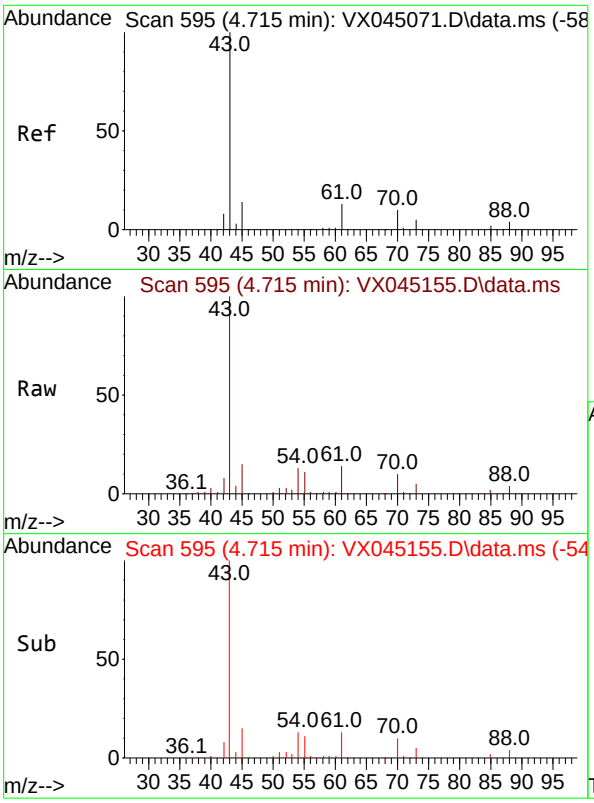


#36
1,1-Dichloropropene
Concen: 49.941 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion: 75 Resp: 80527

Ion	Ratio	Lower	Upper
75	100		
110	34.4	16.9	50.6
77	30.7	24.5	36.7





#37
Ethyl Acetate
Concen: 50.173 ug/l
RT: 4.715 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion: 43 Resp: 10424

Ion	Ratio	Lower	Upper
43	100		
61	13.2	10.8	16.2
70	9.5	7.7	11.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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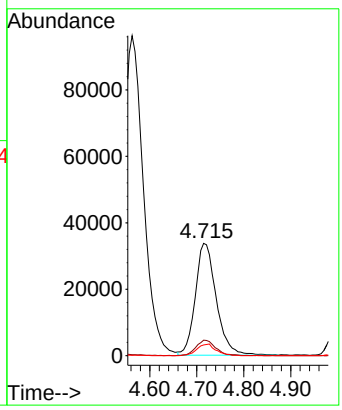
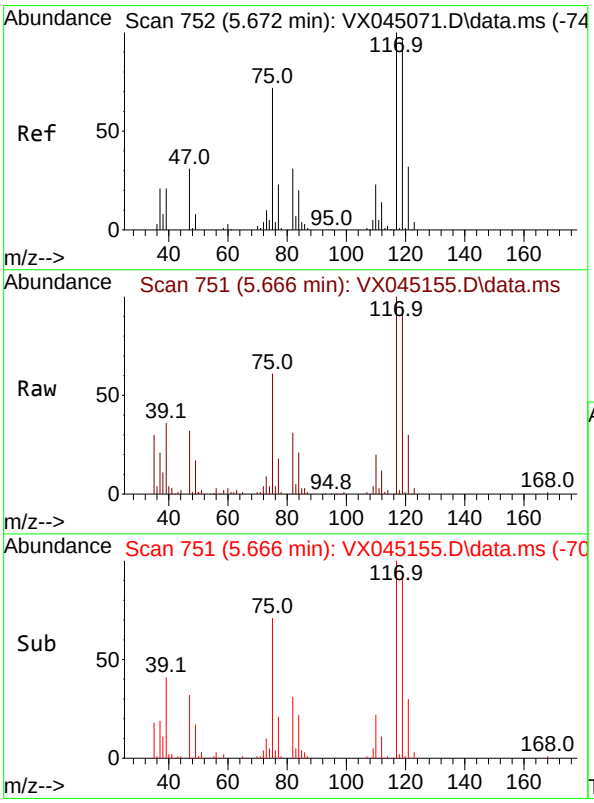
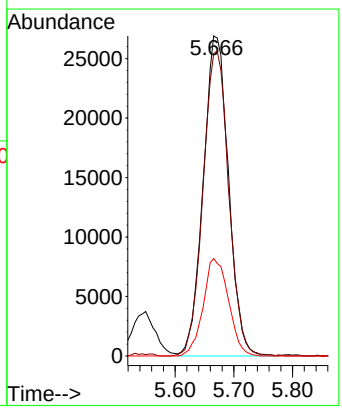


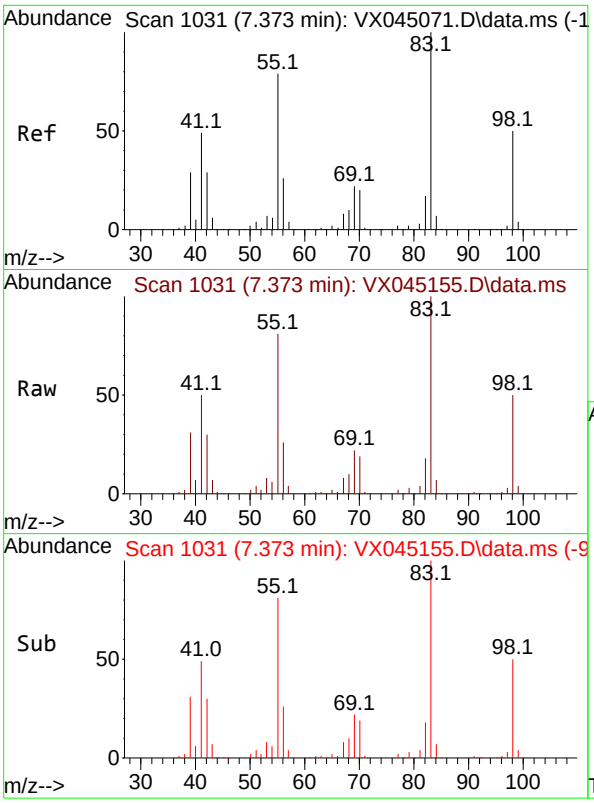


#38
Carbon Tetrachloride
Concen: 49.163 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion:117 Resp: 80480

Ion	Ratio	Lower	Upper
117	100		
119	94.2	76.7	115.1
121	30.4	25.5	38.3





#39
Methylcyclohexane
Concen: 54.417 ug/l
RT: 7.373 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion: 83 Resp: 10513

Ion	Ratio	Lower	Upper
83	100		
55	80.5	63.0	94.4
98	50.2	39.7	59.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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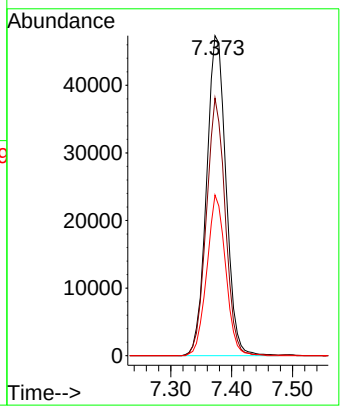
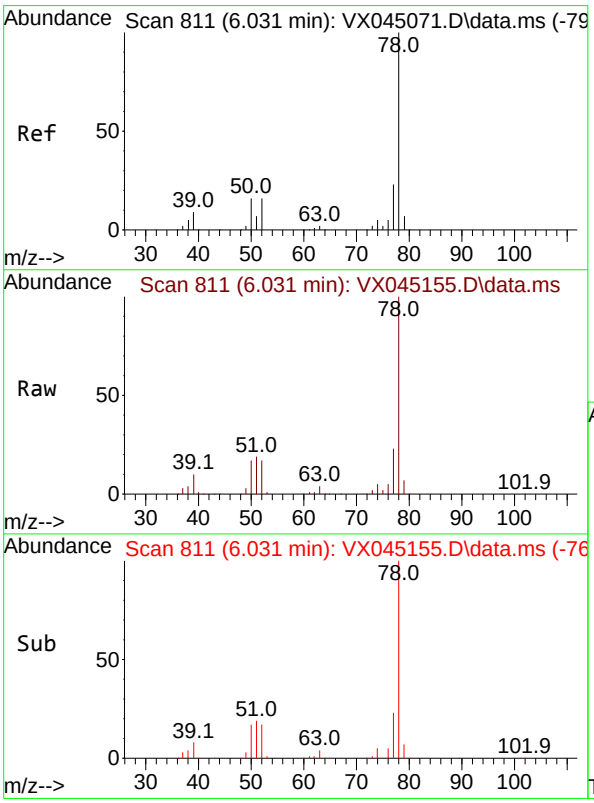
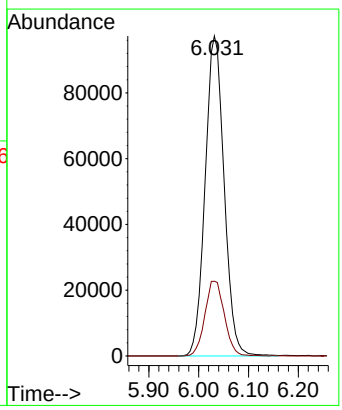


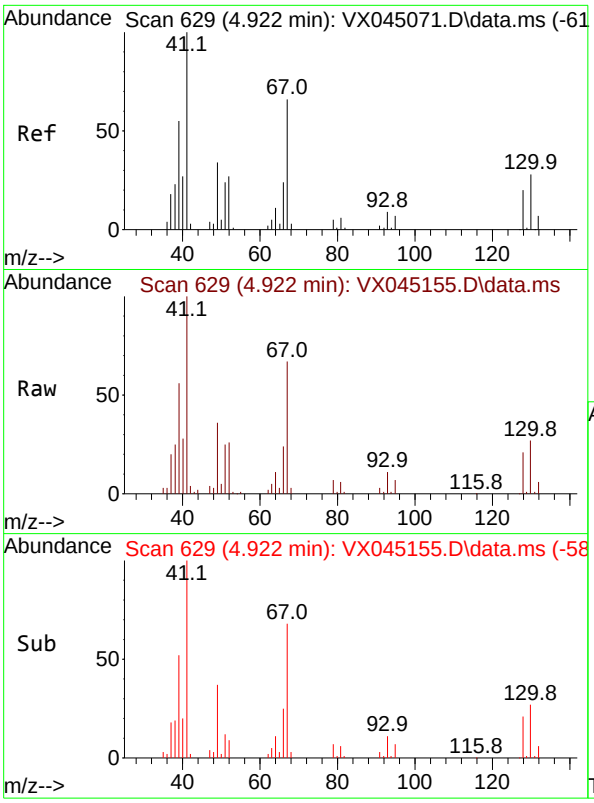


#40
Benzene
Concen: 50.564 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion: 78 Resp: 257458

Ion	Ratio	Lower	Upper
78	100		
77	23.3	18.8	28.2





#41
Methacrylonitrile
Concen: 51.935 ug/l
RT: 4.922 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion: 41 Resp: 5834

Ion	Ratio	Lower	Upper
41	100		
39	55.9	44.6	67.0
67	70.7	53.9	80.9
52	30.6	23.3	34.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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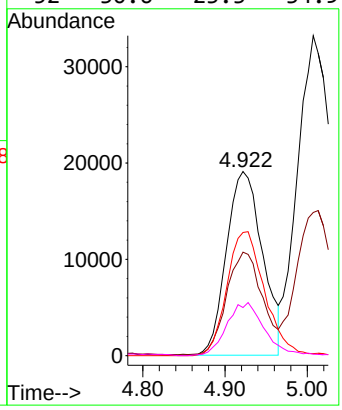
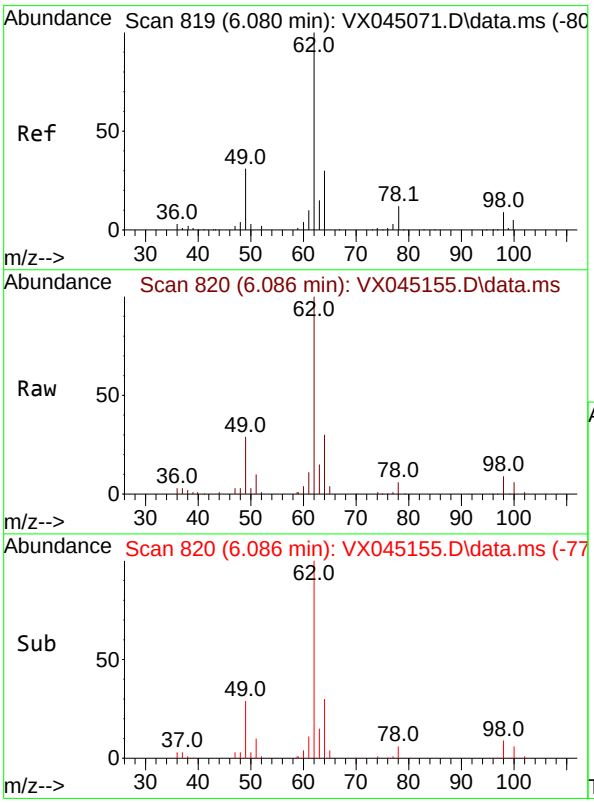
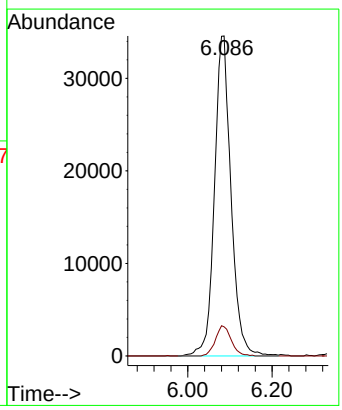


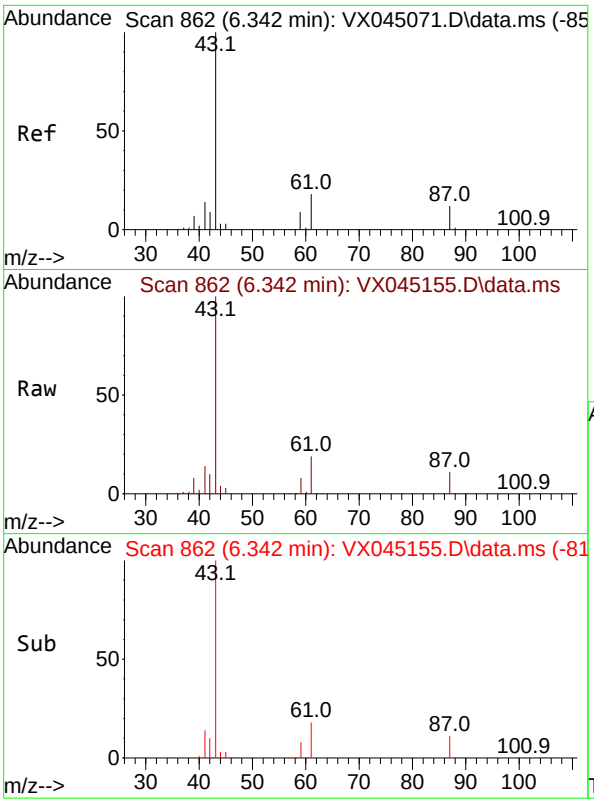


#42
1,2-Dichloroethane
Concen: 51.224 ug/l
RT: 6.086 min Scan# 820
Delta R.T. 0.006 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion: 62 Resp: 93921

Ion	Ratio	Lower	Upper
62	100		
98	9.0	0.0	18.2





#43
Isopropyl Acetate
Concen: 51.671 ug/l
RT: 6.342 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion: 43 Resp: 15875

Ion	Ratio	Lower	Upper
43	100		
61	18.2	14.9	22.3
87	11.9	9.4	14.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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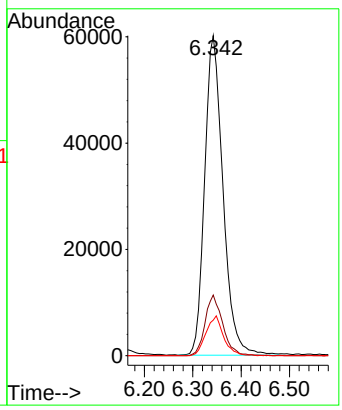
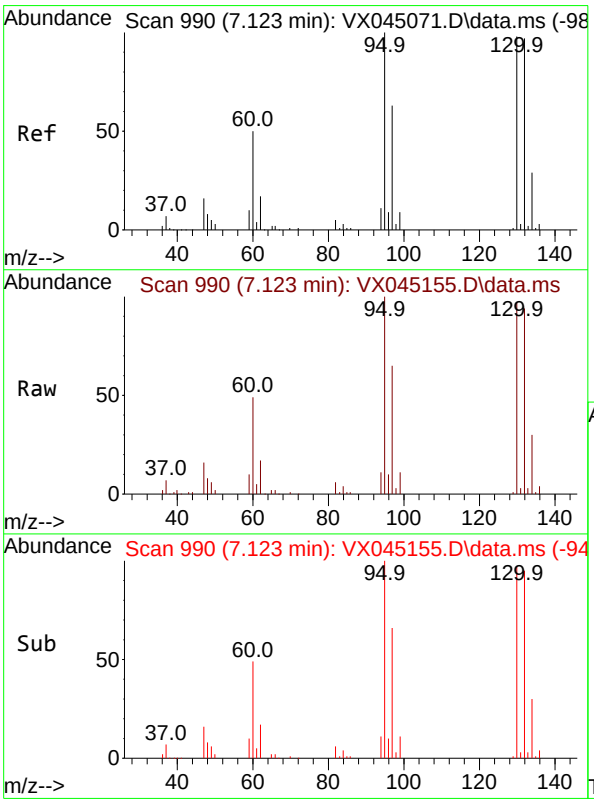
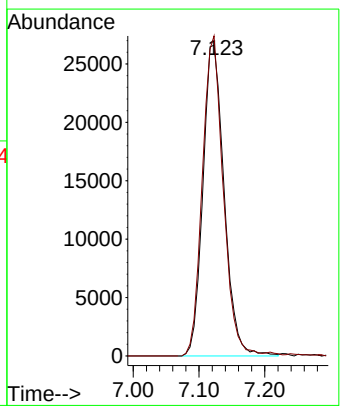


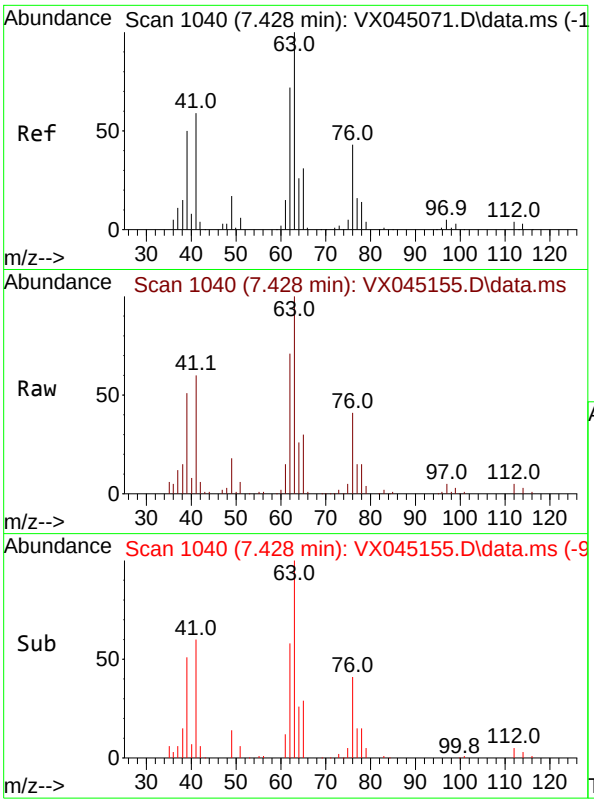


#44
Trichloroethene
Concen: 50.205 ug/l
RT: 7.123 min Scan# 990
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion:130 Resp: 60024

Ion	Ratio	Lower	Upper
130	100		
95	103.0	0.0	205.0





#45
1,2-Dichloropropane
Concen: 50.625 ug/l
RT: 7.428 min Scan# 1(
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion: 63 Resp: 6627!

Ion	Ratio	Lower	Upper
63	100		
65	30.3	24.7	37.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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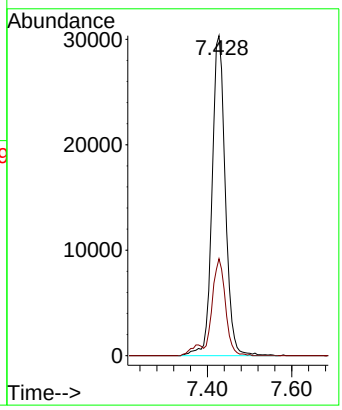
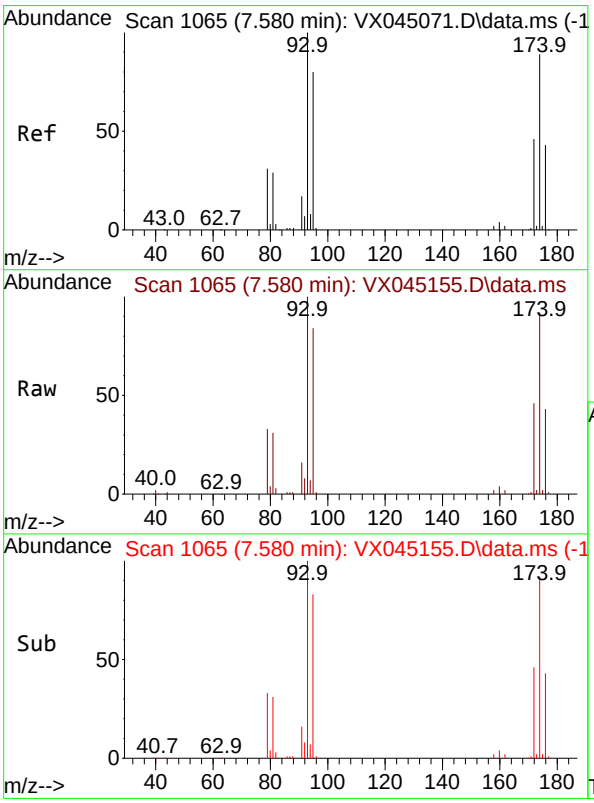
Supervised By :Mahesh Dadoda 03/10/2025

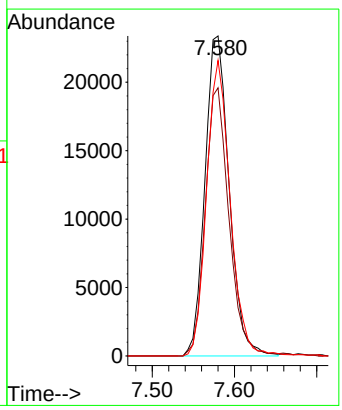


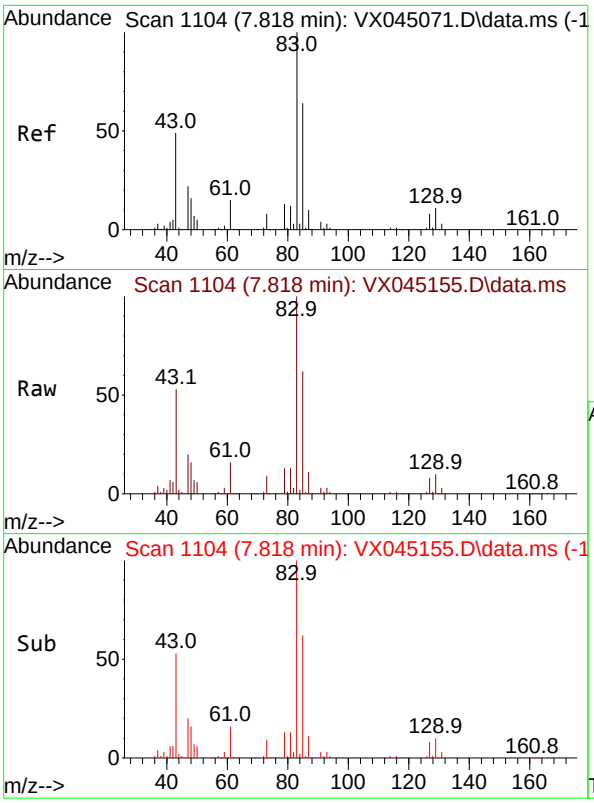


#46
Dibromomethane
Concen: 51.739 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion: 93 Resp: 47874

Ion	Ratio	Lower	Upper
93	100		
95	82.5	65.8	98.8
174	90.1	72.2	108.2





#47
Bromodichloromethane
Concen: 50.685 ug/l
RT: 7.818 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion: 83 Resp: 9199

Ion	Ratio	Lower	Upper
83	100		
85	61.8	51.1	76.7
127	8.3	6.4	9.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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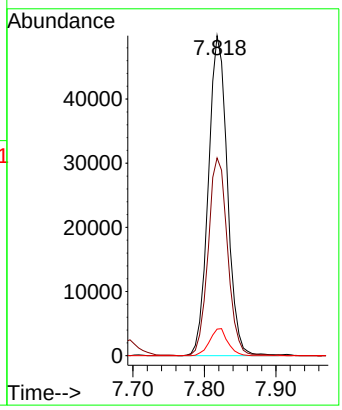
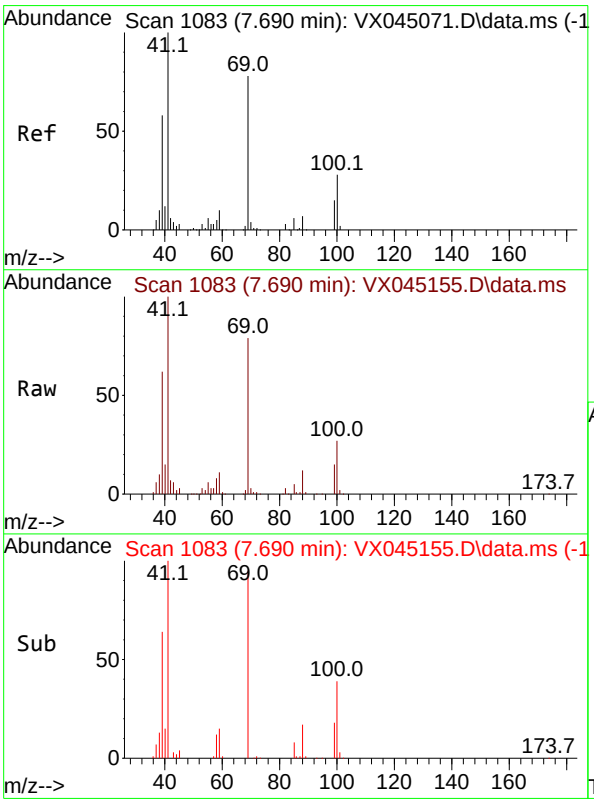
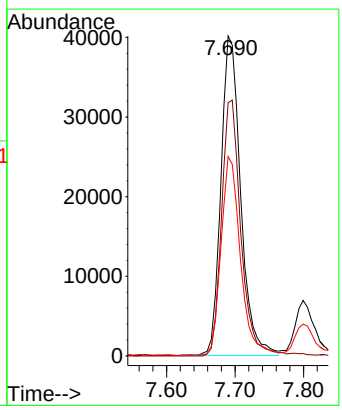


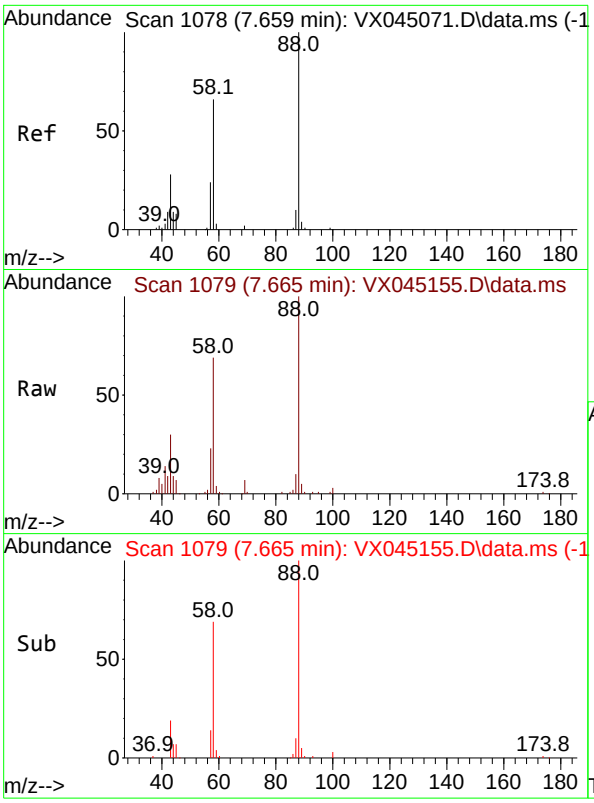


#48
Methyl methacrylate
Concen: 51.991 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion: 41 Resp: 80137

Ion	Ratio	Lower	Upper
41	100		
69	78.3	63.0	94.6
39	61.0	47.5	71.3





#49
1,4-Dioxane
Concen: 1004.564 ug/l
RT: 7.665 min Scan# 1(
Delta R.T. 0.006 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion: 88 Resp: 3266

Ion	Ratio	Lower	Upper
88	100		
43	35.7	28.7	43.1
58	70.0	55.8	83.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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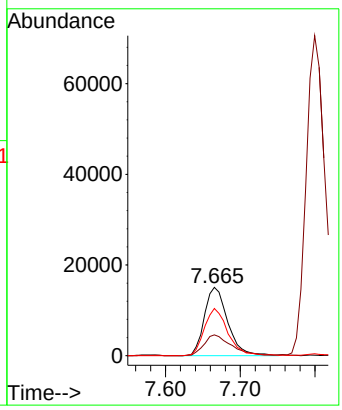
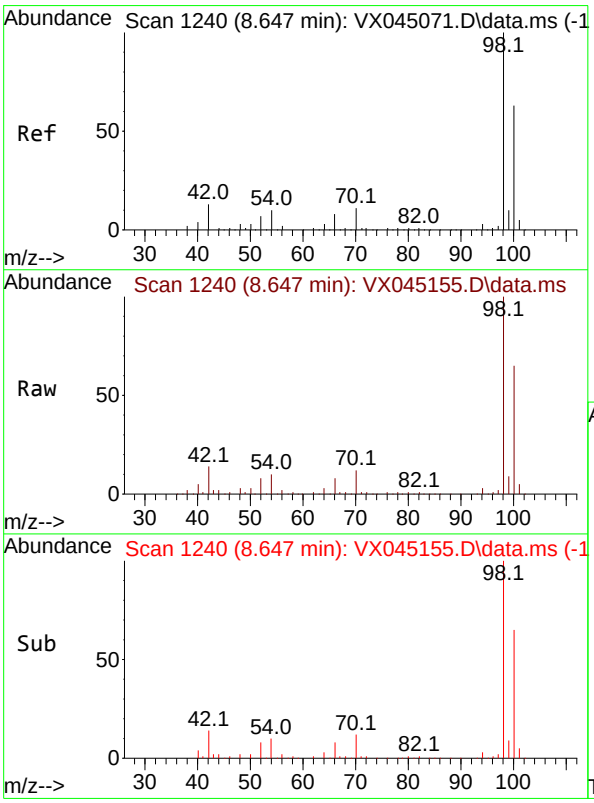
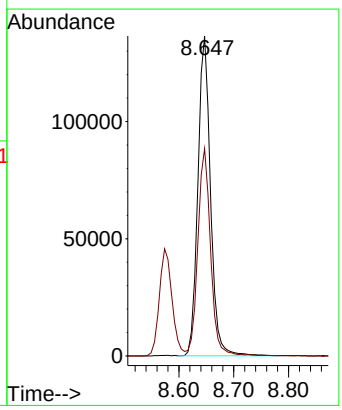


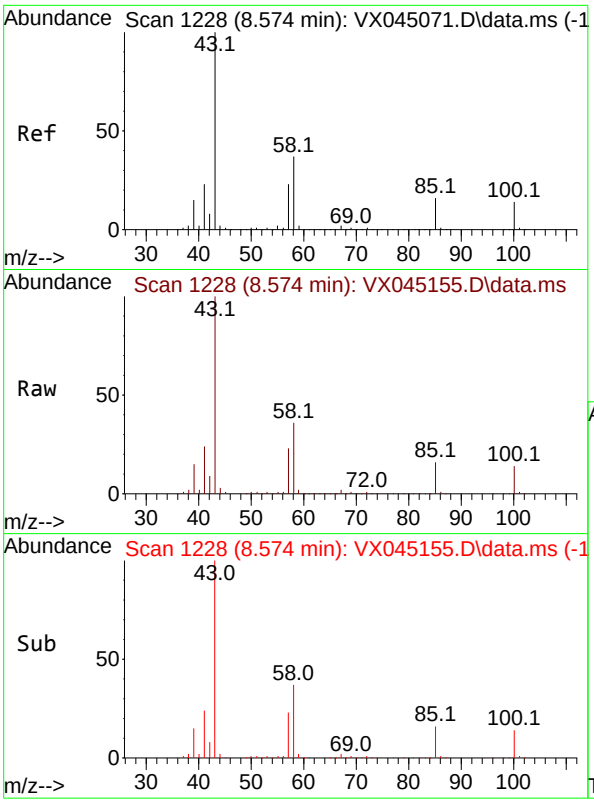


#50
Toluene-d8
Concen: 51.298 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion: 98 Resp: 218659

Ion	Ratio	Lower	Upper
98	100		
100	65.6	52.0	78.0





#51
4-Methyl-2-Pentanone
Concen: 262.414 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion: 43 Resp: 54133

Ion	Ratio	Lower	Upper
43	100		
58	37.2	29.2	43.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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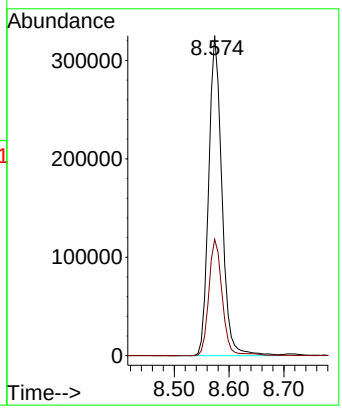
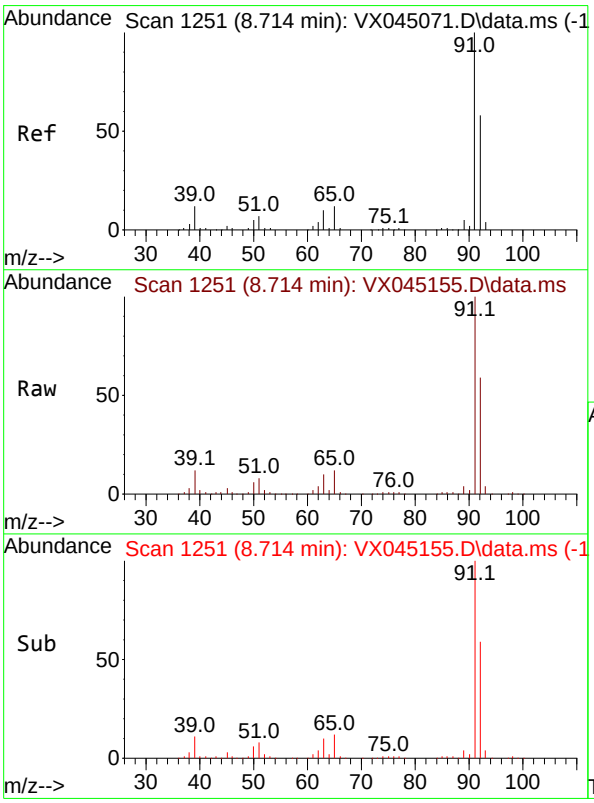
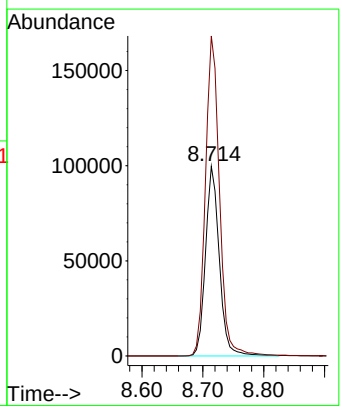


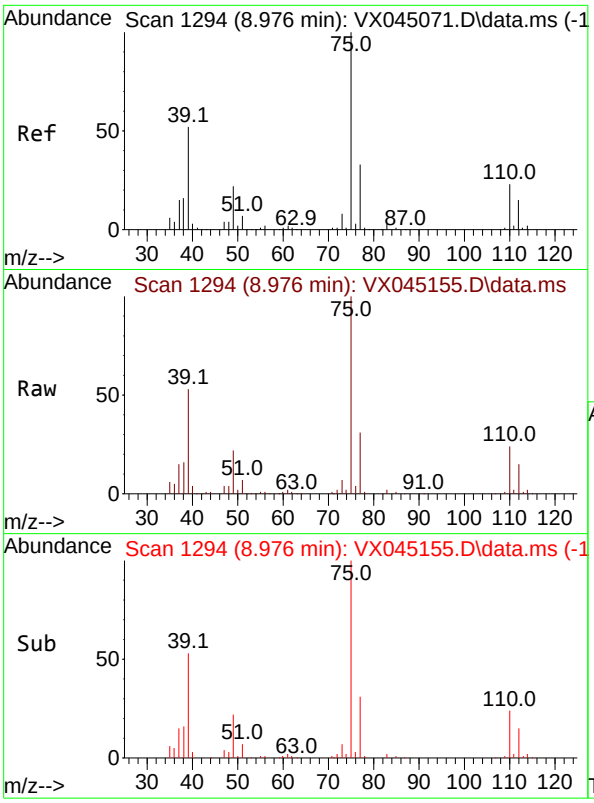


#52
Toluene
Concen: 52.538 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion: 92 Resp: 156953

Ion	Ratio	Lower	Upper
92	100		
91	172.1	138.9	208.3





#53
t-1,3-Dichloropropene
Concen: 54.074 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion: 75 Resp: 8204

Ion	Ratio	Lower	Upper
75	100		
77	31.4	26.5	39.7

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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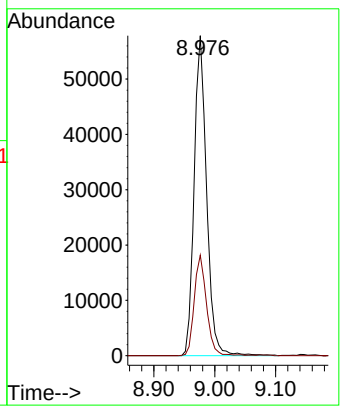
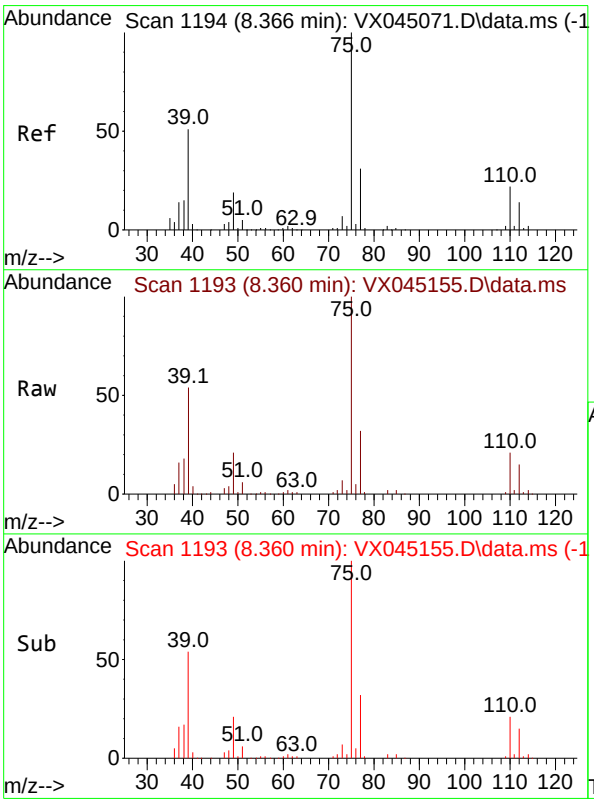
Supervised By :Mahesh Dadoda 03/10/2025

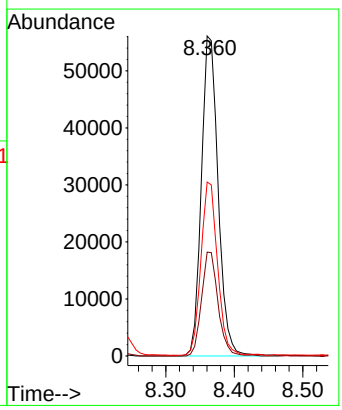


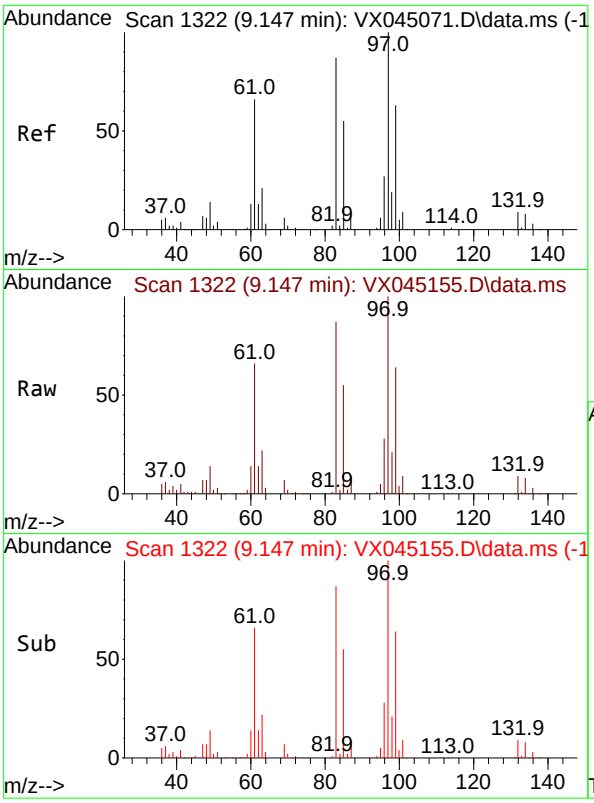


#54
cis-1,3-Dichloropropene
Concen: 54.055 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. -0.006 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion: 75 Resp: 95642

Ion	Ratio	Lower	Upper
75	100		
77	32.4	24.7	37.1
39	54.2	40.7	61.1

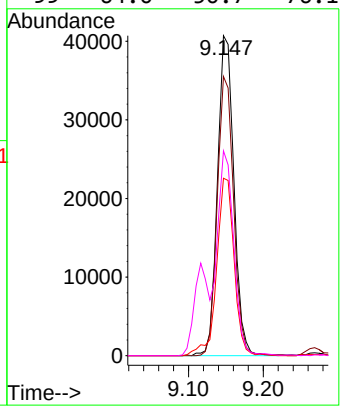




#55
1,1,2-Trichloroethane
Concen: 50.685 ug/l
RT: 9.147 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion: 97 Resp: 6233

Ion	Ratio	Lower	Upper
97	100		
83	87.3	69.4	104.2
85	55.5	44.1	66.1
99	64.0	50.7	76.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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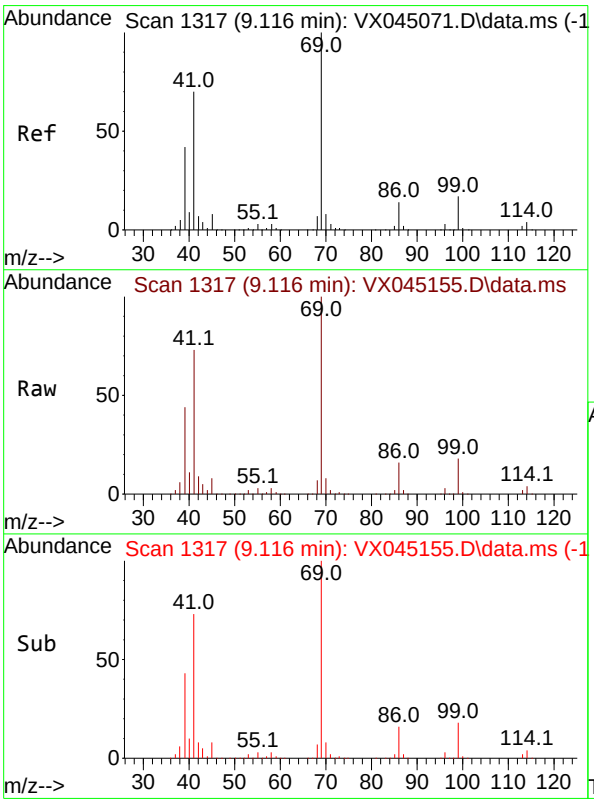
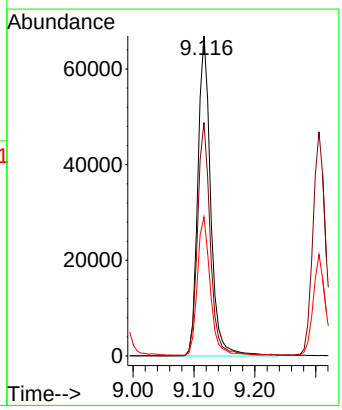
Supervised By :Mahesh Dadoda 03/10/2025

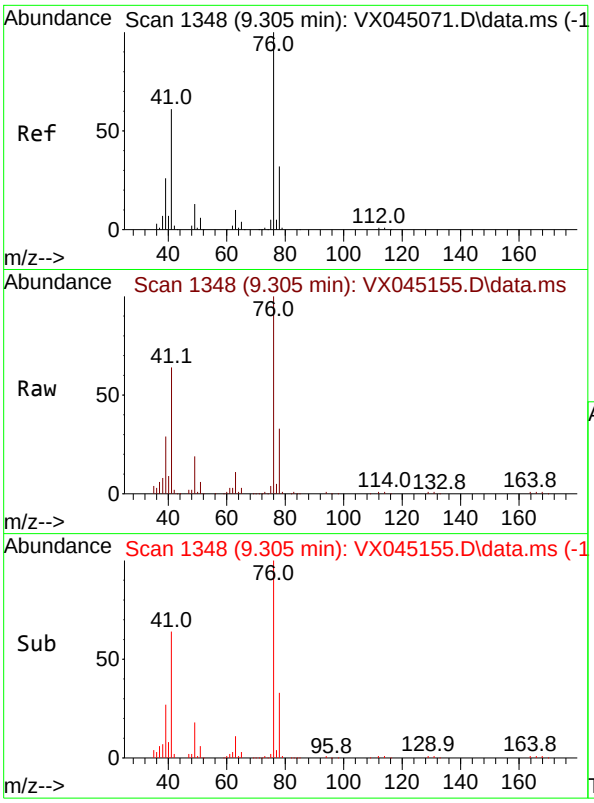


#56
Ethyl methacrylate
Concen: 52.367 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion: 69 Resp: 97896

Ion	Ratio	Lower	Upper
69	100		
41	72.4	57.0	85.4
39	43.4	34.2	51.4





#57
1,3-Dichloropropane
Concen: 50.592 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion: 76 Resp: 10767

Ion	Ratio	Lower	Upper
76	100		
78	32.4	25.5	38.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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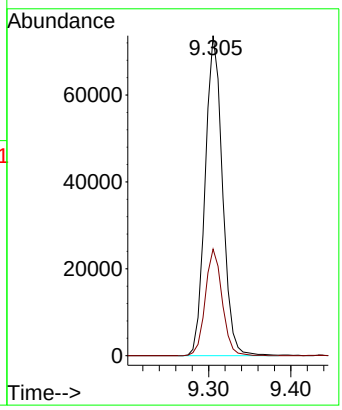
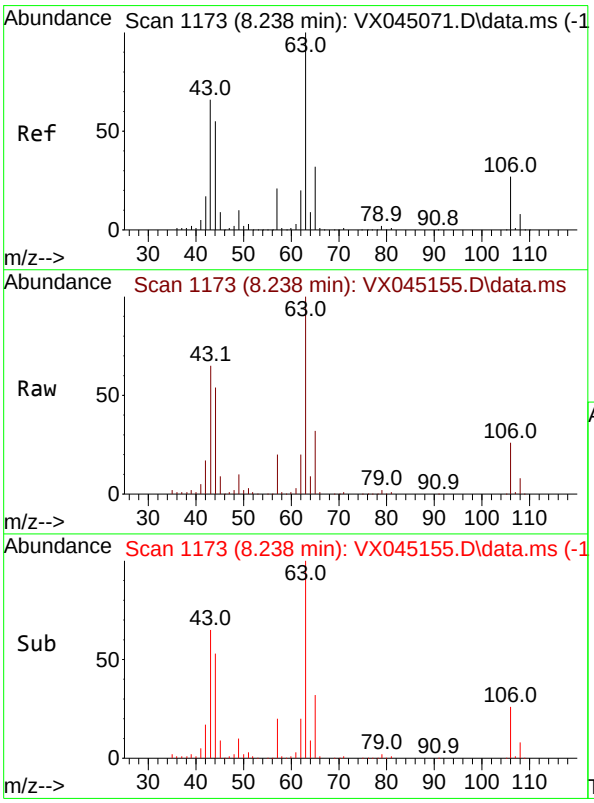
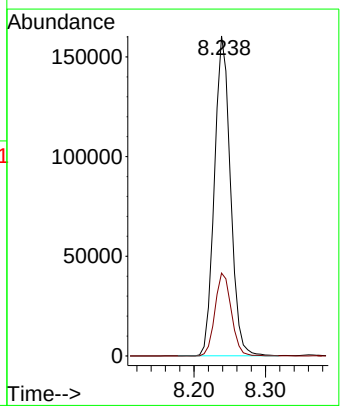


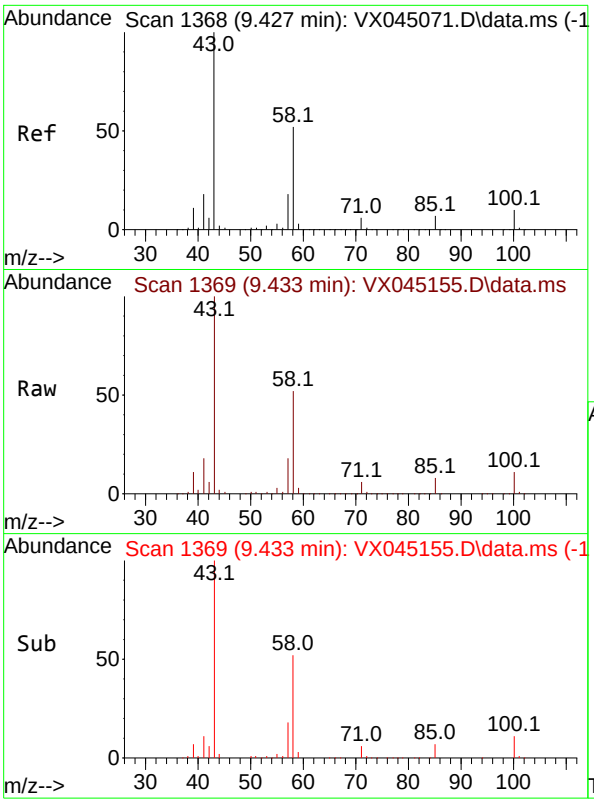


#58
2-Chloroethyl Vinyl ether
Concen: 274.113 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion: 63 Resp: 249971

Ion	Ratio	Lower	Upper
63	100		
106	26.4	21.5	32.3





#59
2-Hexanone
Concen: 264.998 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion: 43 Resp: 39608

Ion	Ratio	Lower	Upper
43	100		
58	51.8	25.9	77.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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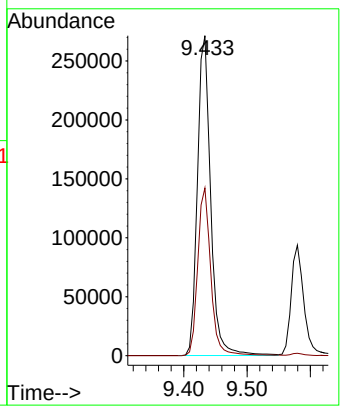
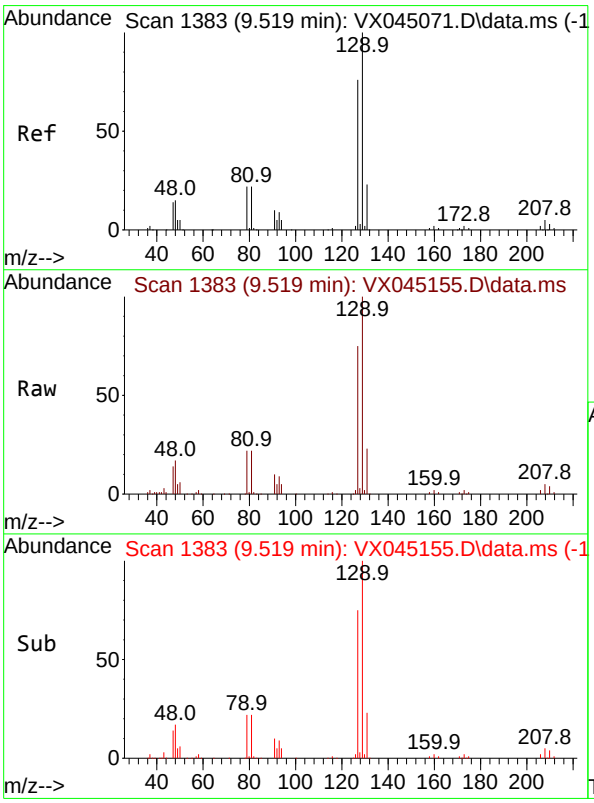
Supervised By :Mahesh Dadoda 03/10/2025

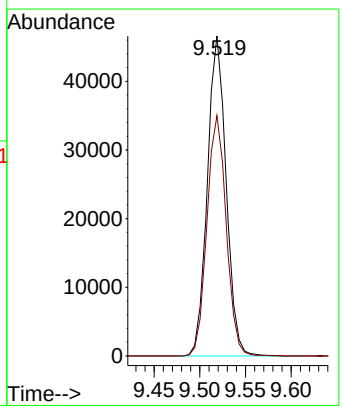


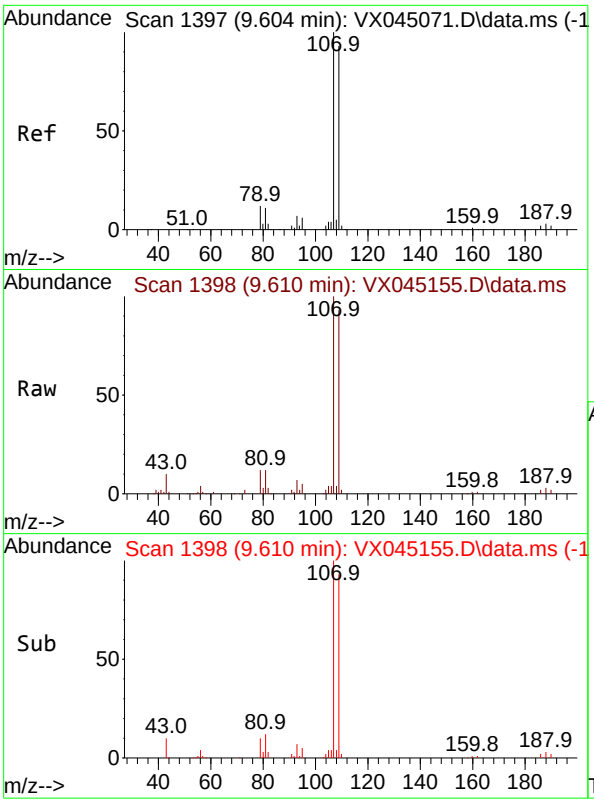


#60
Dibromochloromethane
Concen: 51.634 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion:129 Resp: 66396

Ion	Ratio	Lower	Upper
129	100		
127	77.1	38.5	115.5





#61
1,2-Dibromoethane
Concen: 50.561 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion:107 Resp: 6207

Ion	Ratio	Lower	Upper
107	100		
109	95.4	76.1	114.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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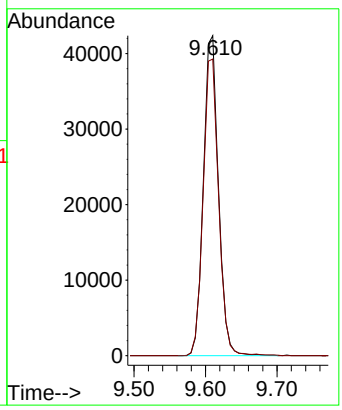
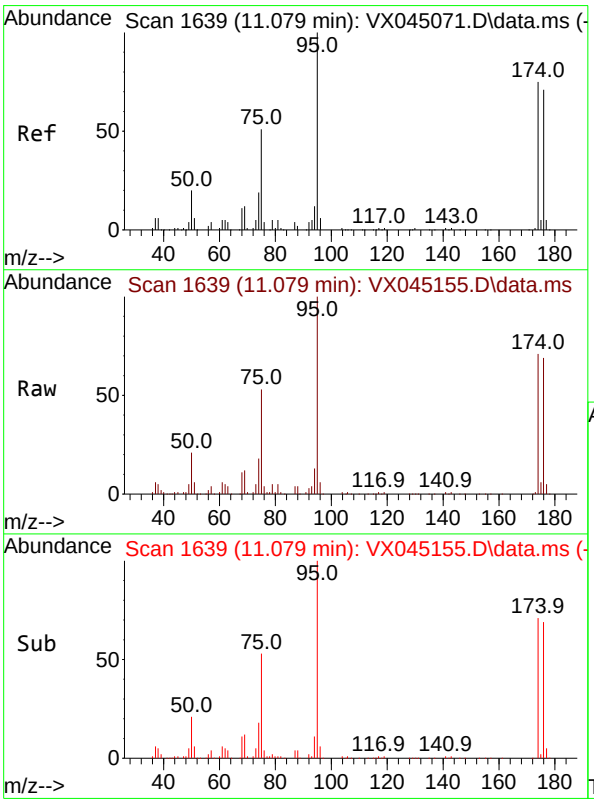
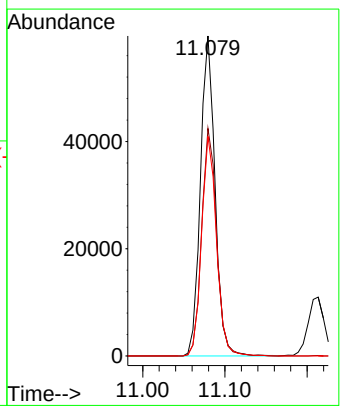


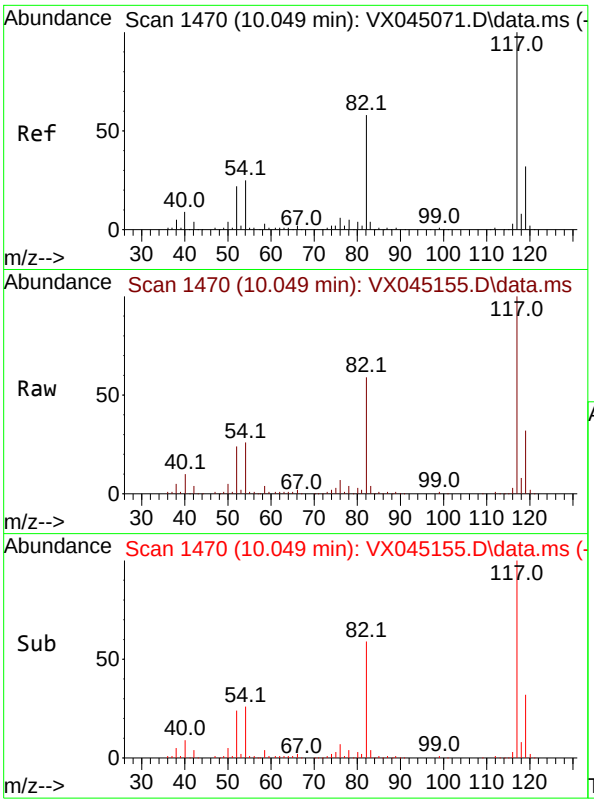


#62
4-Bromofluorobenzene
Concen: 52.170 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion: 95 Resp: 73689

Ion	Ratio	Lower	Upper
95	100		
174	72.7	0.0	148.2
176	70.0	0.0	141.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion:117 Resp: 15374

Ion	Ratio	Lower	Upper
117	100		
82	59.4	46.3	69.5
119	31.6	25.7	38.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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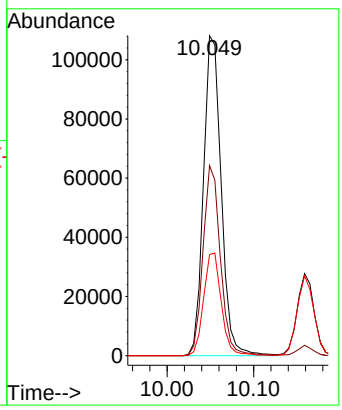
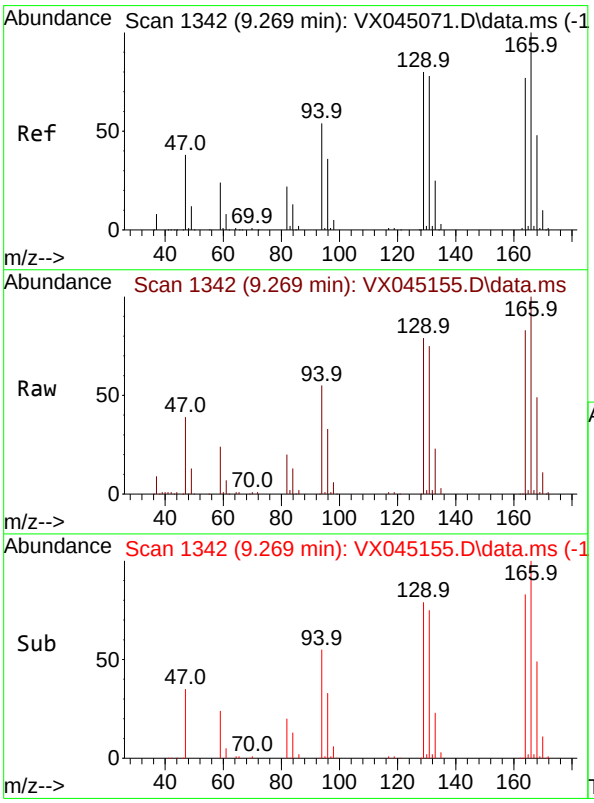
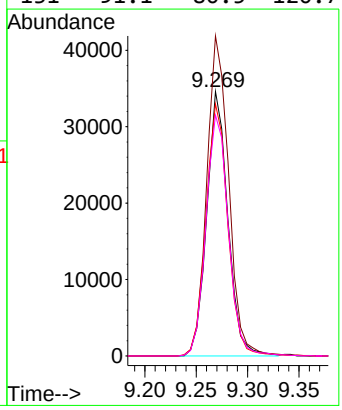


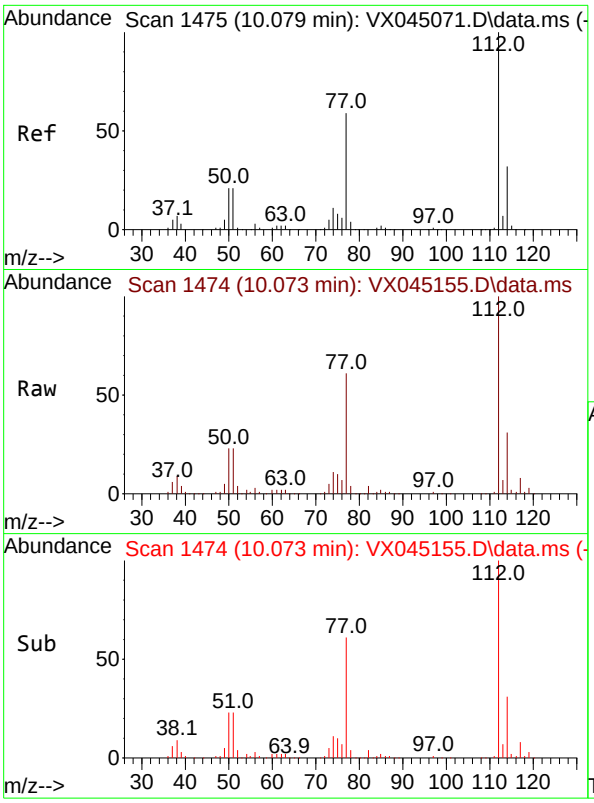


#64
Tetrachloroethene
Concen: 50.303 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion:164 Resp: 49532

Ion	Ratio	Lower	Upper
164	100		
166	121.0	103.6	155.4
129	95.3	82.7	124.1
131	91.1	80.5	120.7





#65
Chlorobenzene
Concen: 50.951 ug/l
RT: 10.073 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion:112 Resp: 16575

Ion	Ratio	Lower	Upper
112	100		
114	30.8	26.0	39.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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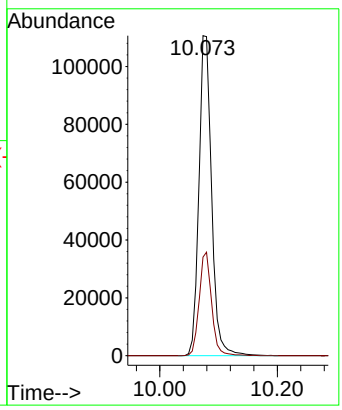
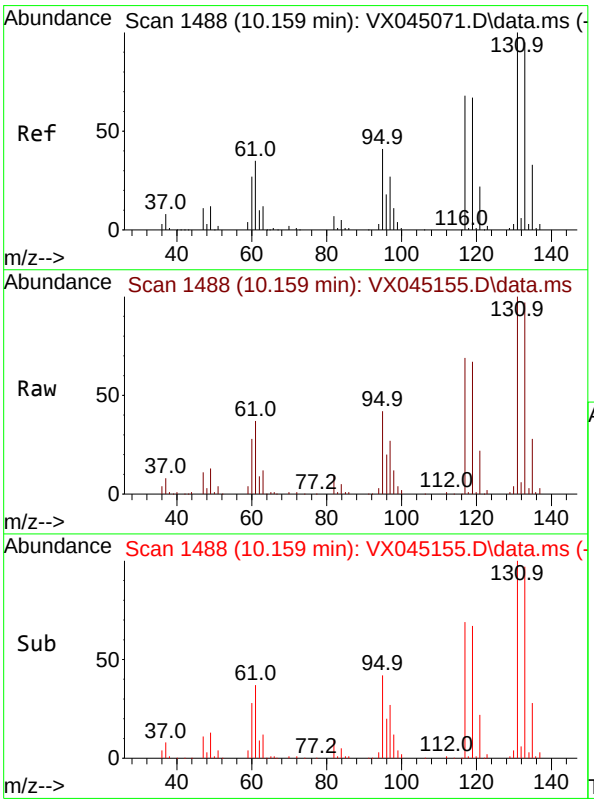
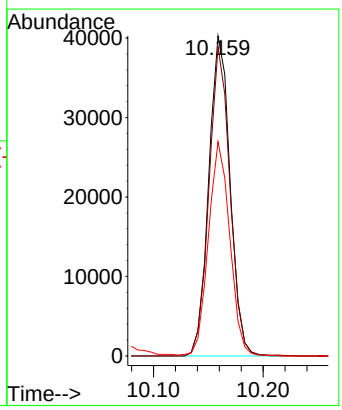


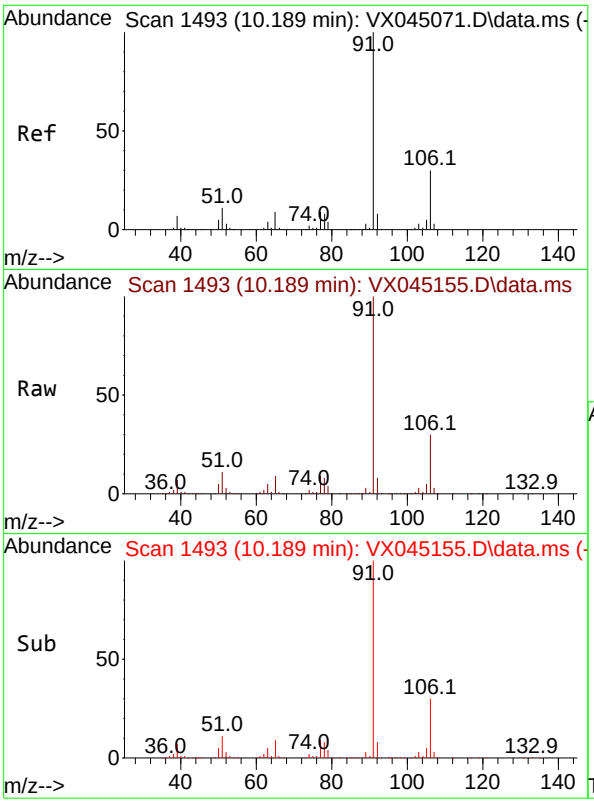


#66
1,1,1,2-Tetrachloroethane
Concen: 50.032 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion:131 Resp: 54204

Ion	Ratio	Lower	Upper
131	100		
133	95.4	48.6	145.9
119	67.4	33.9	101.7





#67
Ethyl Benzene
Concen: 52.376 ug/l
RT: 10.189 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion: 91 Resp: 29689

Ion	Ratio	Lower	Upper
91	100		
106	29.9	23.9	35.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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Reviewed By :John Carlone 03/10/2025
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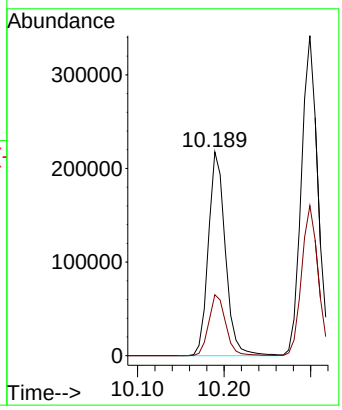
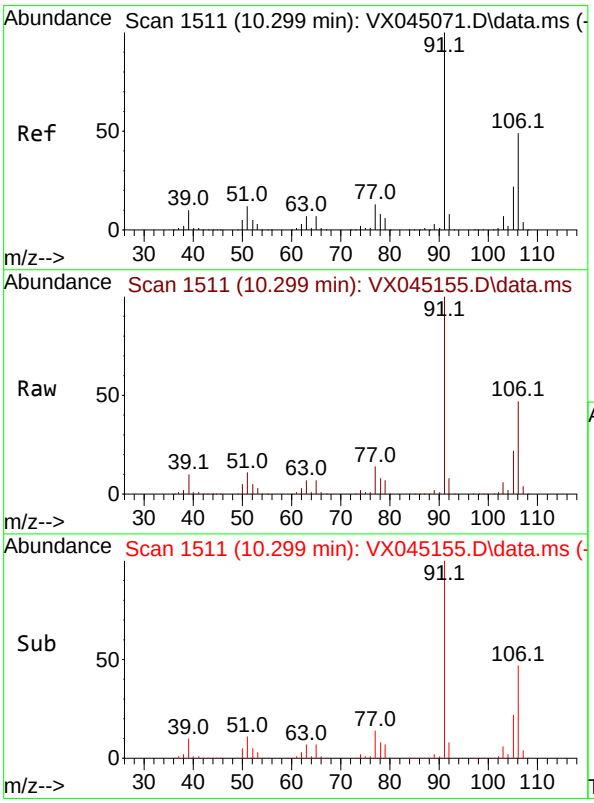
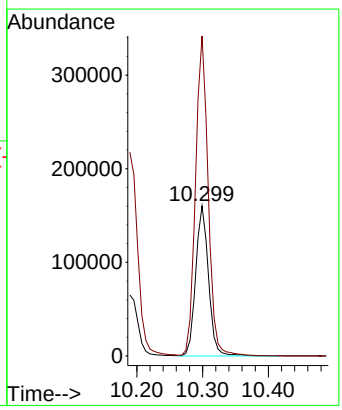


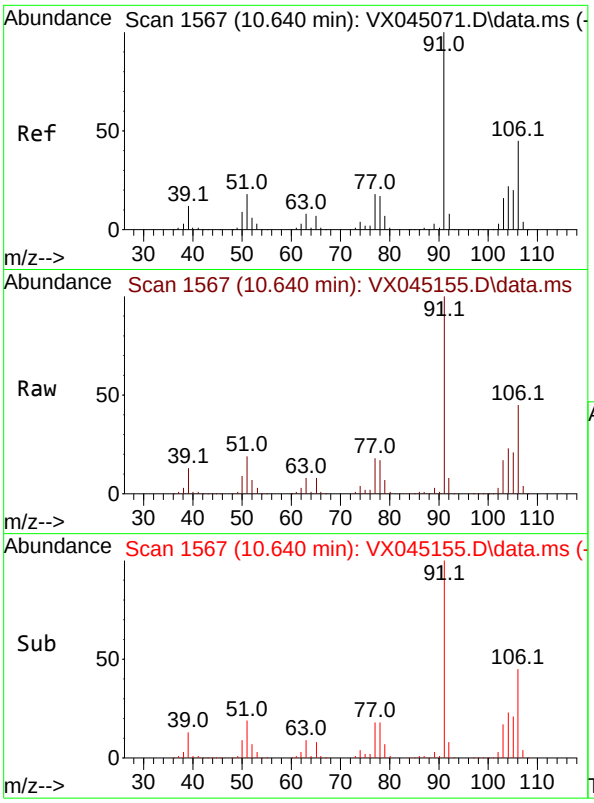


#68
m/p-Xylenes
Concen: 104.329 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion:106 Resp: 216494

Ion	Ratio	Lower	Upper
106	100		
91	210.8	165.4	248.0





#69
o-Xylene
Concen: 51.019 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion:106 Resp: 10677

Ion	Ratio	Lower	Upper
106	100		
91	219.8	109.9	329.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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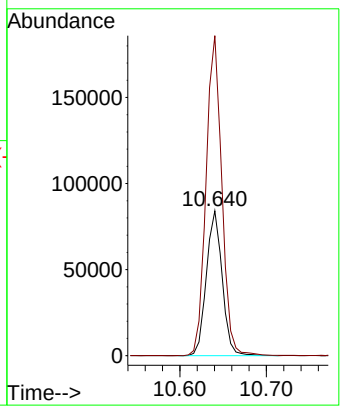
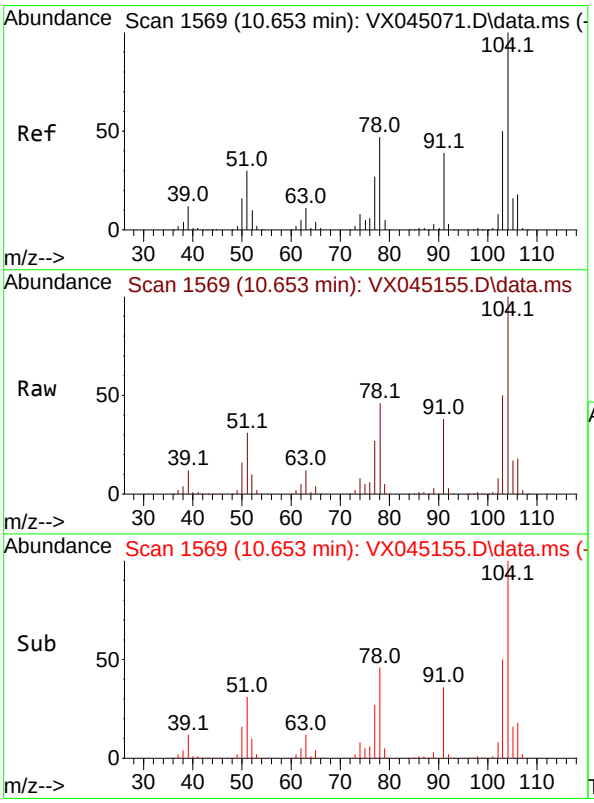
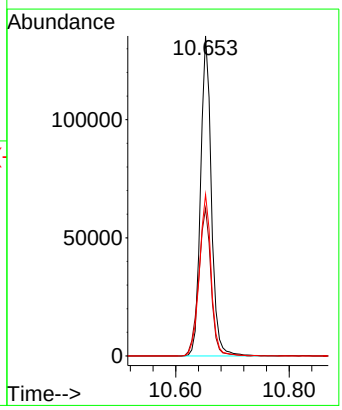


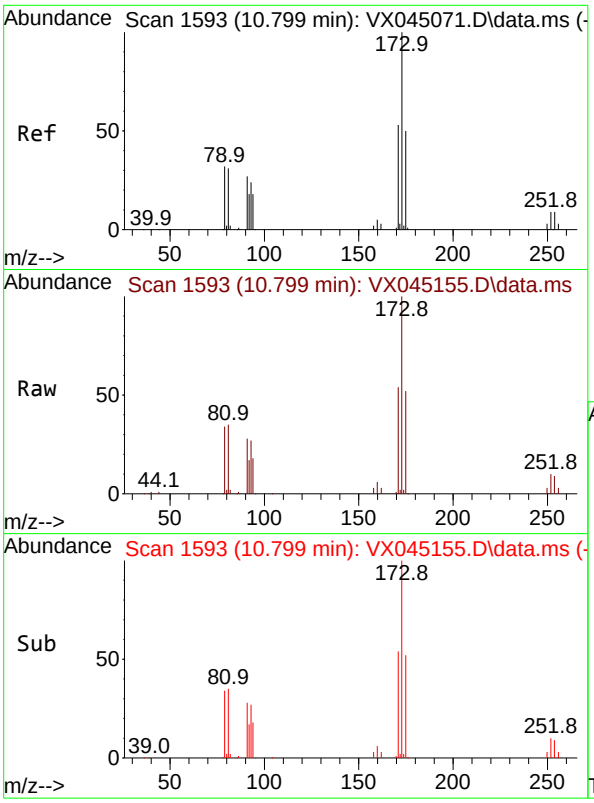


#70
Styrene
Concen: 52.810 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion:104 Resp: 178838

Ion	Ratio	Lower	Upper
104	100		
78	52.7	42.2	63.4
103	55.2	43.8	65.8





#71
Bromoform
Concen: 49.970 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion:173 Resp: 4082

Ion	Ratio	Lower	Upper
173	100		
175	49.6	24.6	73.6
254	0.0	0.0	0.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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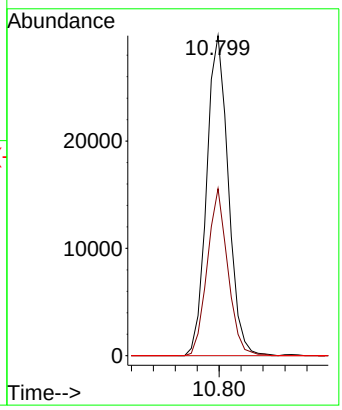
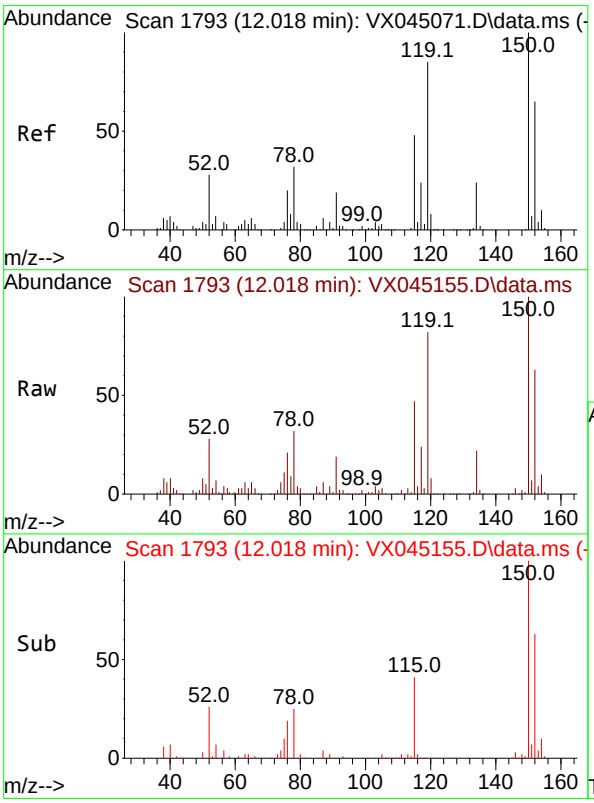
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

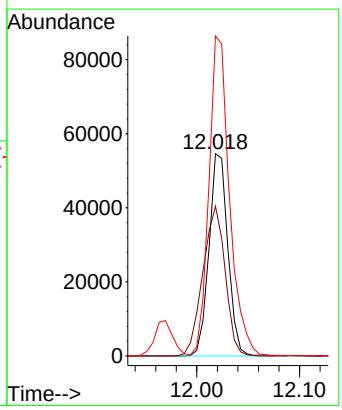


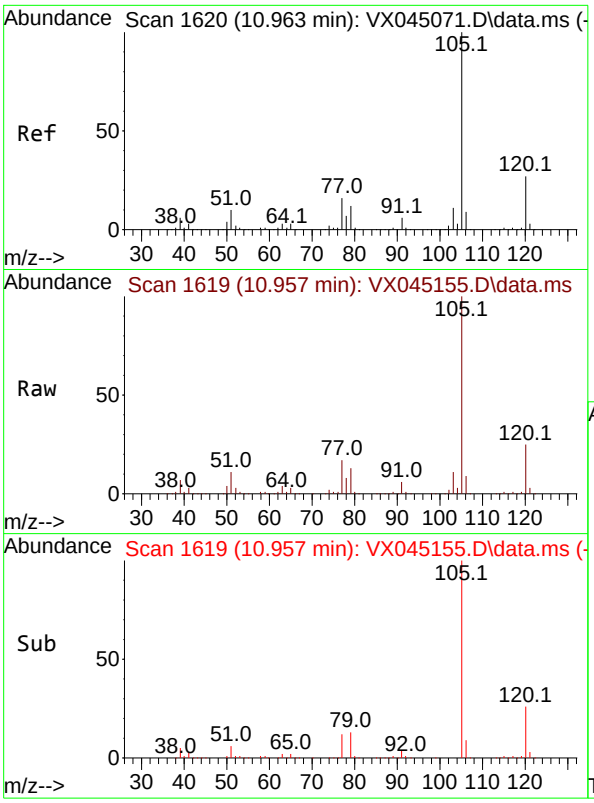


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion:152 Resp: 69403

Ion	Ratio	Lower	Upper
152	100		
115	87.7	44.2	132.6
150	173.0	0.0	349.0





#73
Isopropylbenzene
Concen: 50.984 ug/l
RT: 10.957 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

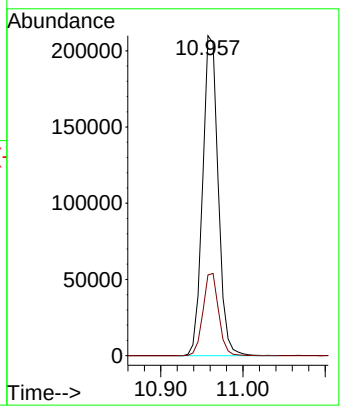
Tgt Ion:105 Resp: 27618

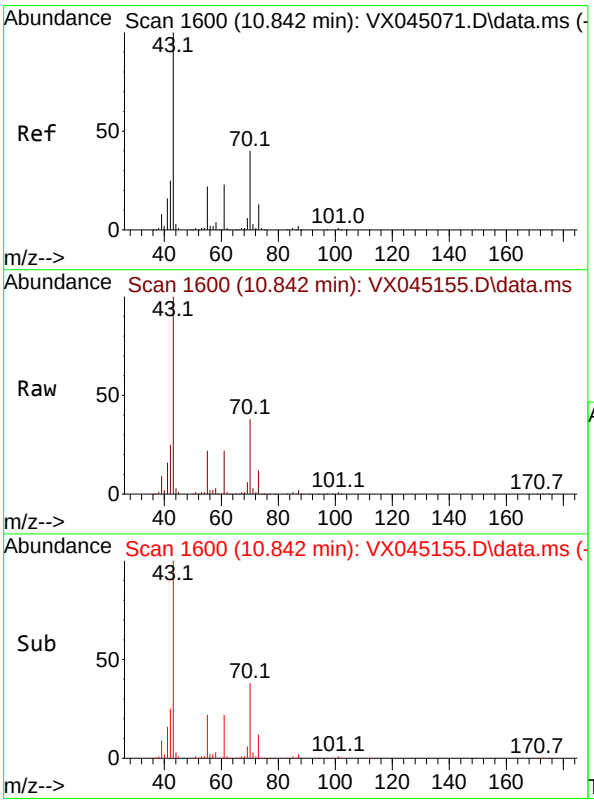
Ion	Ratio	Lower	Upper
105	100		
120	25.8	13.2	39.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

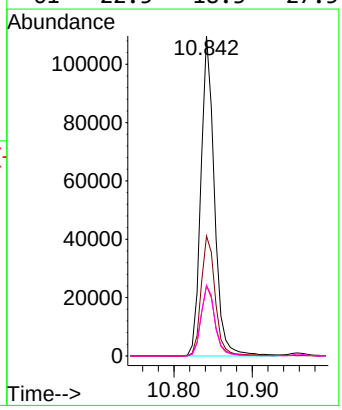


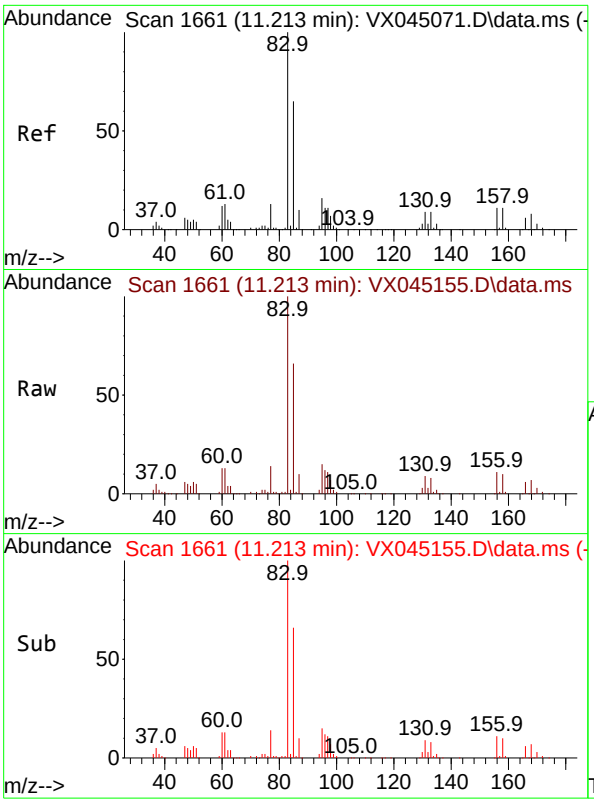


#74
N-amyl acetate
Concen: 51.811 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion: 43 Resp: 131698

Ion	Ratio	Lower	Upper
43	100		
70	39.0	31.8	47.6
55	22.9	18.3	27.5
61	22.5	18.3	27.5





#75
1,1,2,2-Tetrachloroethane
Concen: 49.376 ug/l
RT: 11.213 min Scan# 1(
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion: 83 Resp: 9815

Ion	Ratio	Lower	Upper
83	100		
131	8.8	4.5	13.4
85	63.9	31.7	95.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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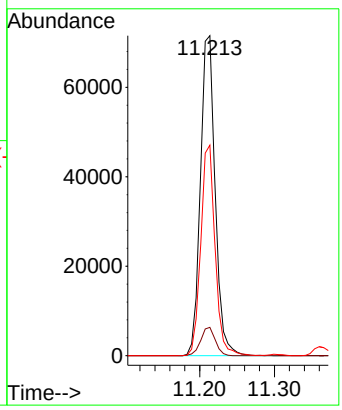
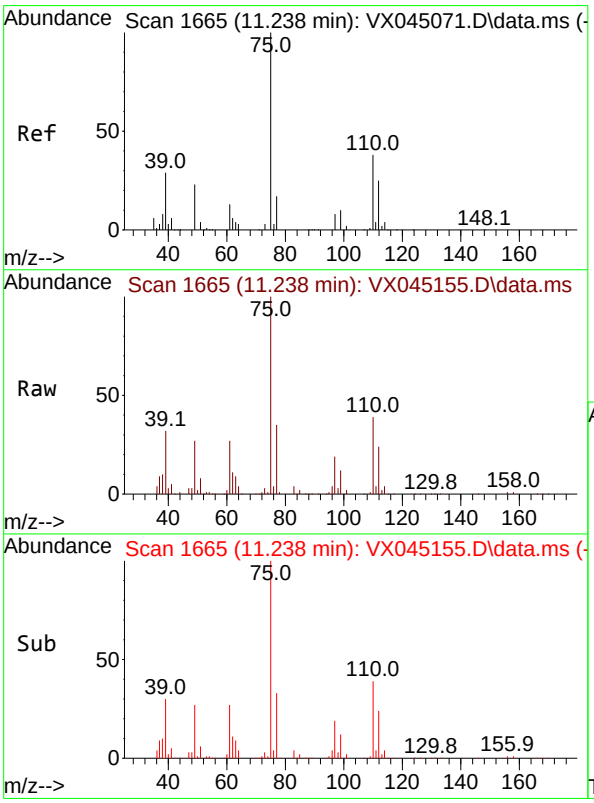
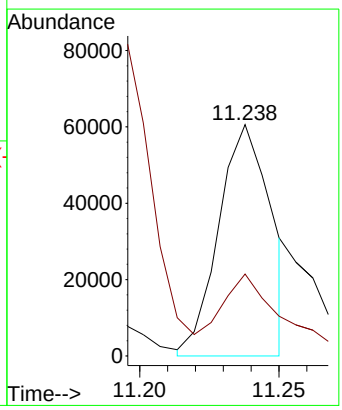


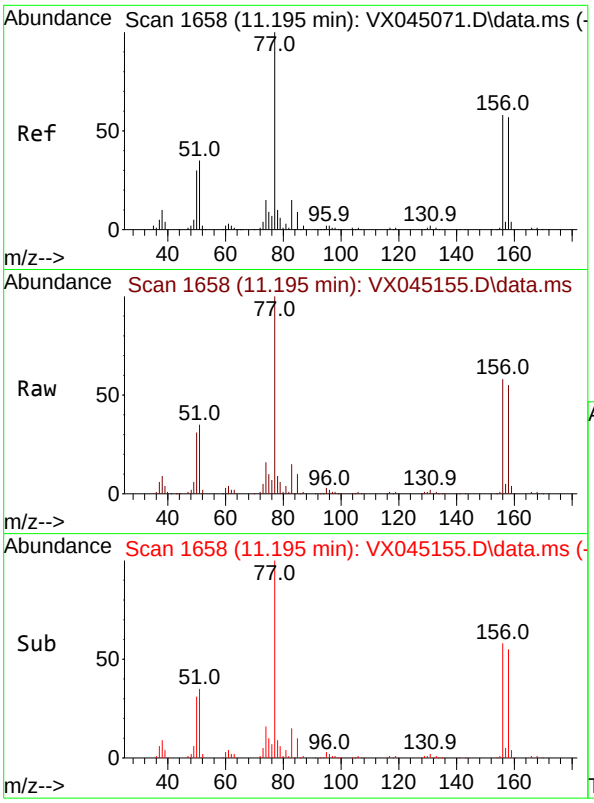


#76
1,2,3-Trichloropropane
Concen: 49.083 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion: 75 Resp: 79287

Ion	Ratio	Lower	Upper
75	100		
77	42.3	20.7	62.1





#77
Bromobenzene
Concen: 50.213 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion:156 Resp: 6417

Ion	Ratio	Lower	Upper
156	100		
77	169.2	85.8	257.4
158	95.3	48.4	145.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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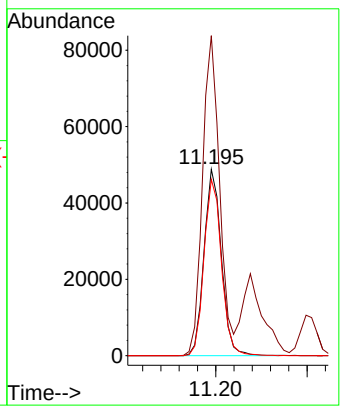
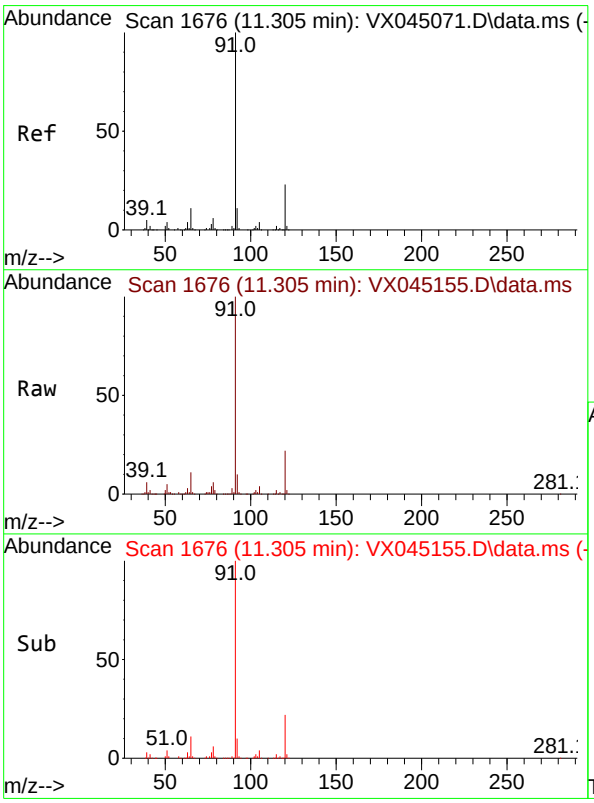
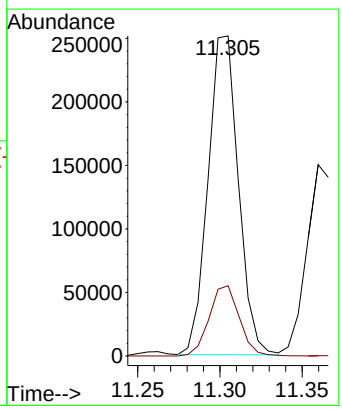


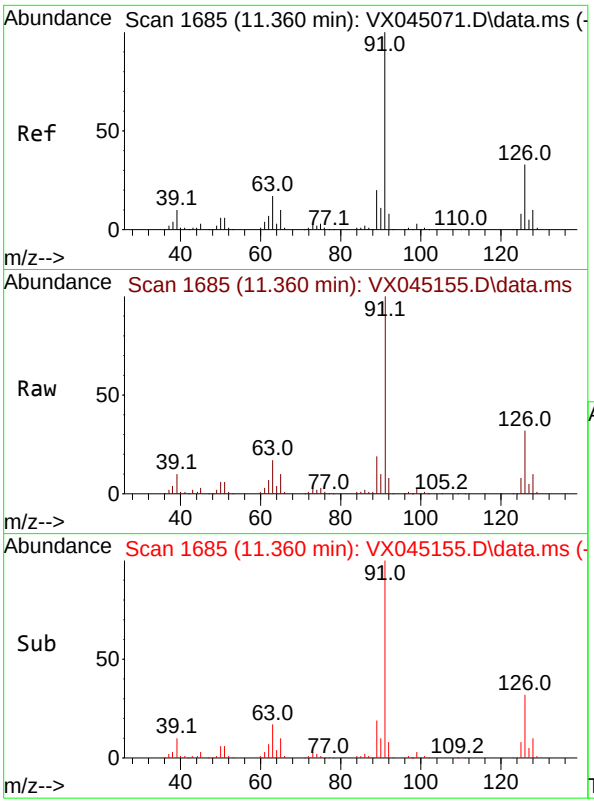


#78
n-propylbenzene
Concen: 52.781 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion: 91 Resp: 322984

Ion	Ratio	Lower	Upper
91	100		
120	21.9	11.2	33.6





#79
2-Chlorotoluene
Concen: 49.740 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion: 91 Resp: 19384

Ion	Ratio	Lower	Upper
91	100		
126	33.0	16.4	49.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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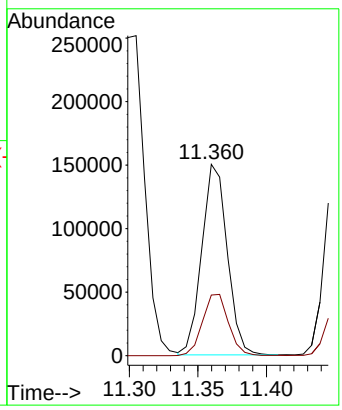
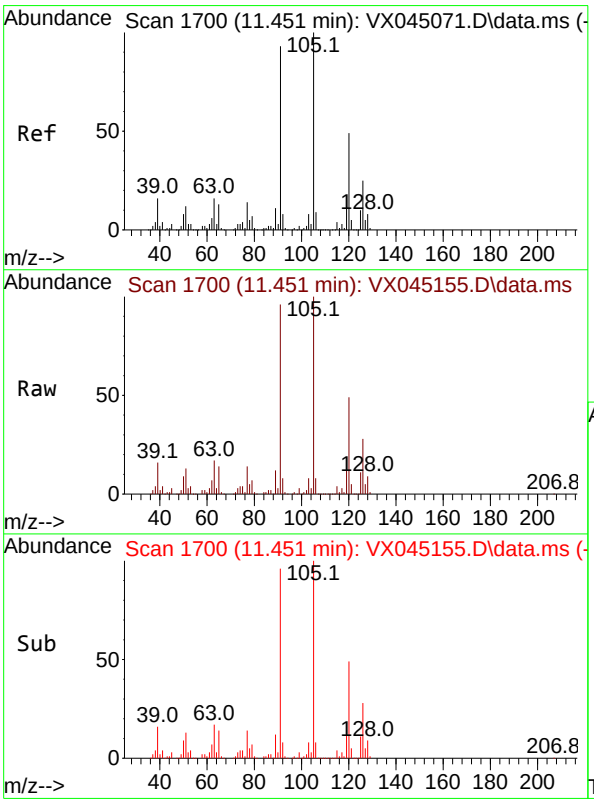
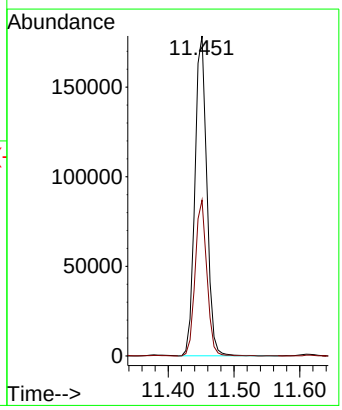


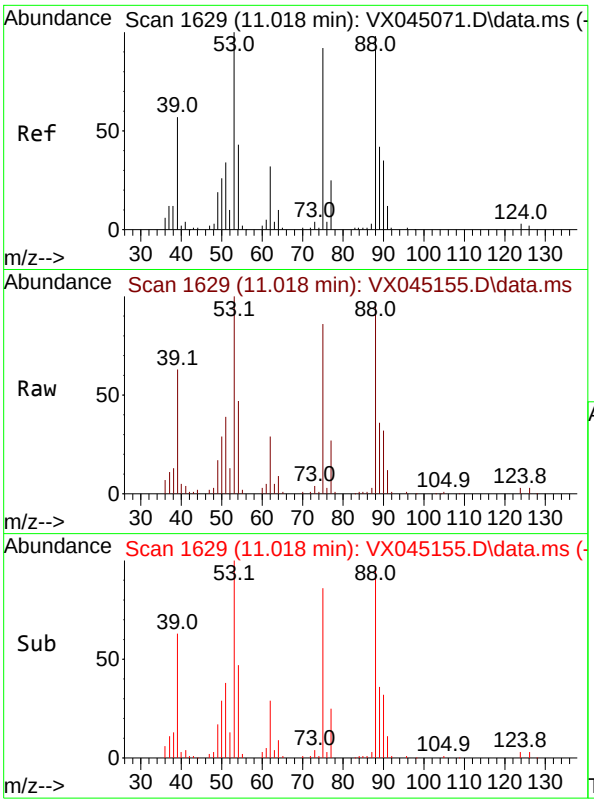


#80
1,3,5-Trimethylbenzene
Concen: 51.365 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion:105 Resp: 224986

Ion	Ratio	Lower	Upper
105	100		
120	47.9	24.1	72.2





#81
trans-1,4-Dichloro-2-butene
Concen: 51.737 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion: 75 Resp: 2442

Ion	Ratio	Lower	Upper
75	100		
53	118.4	88.5	132.7
89	44.2	36.2	54.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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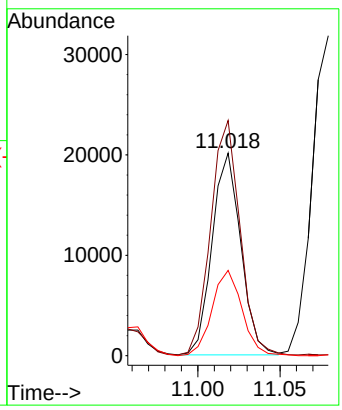
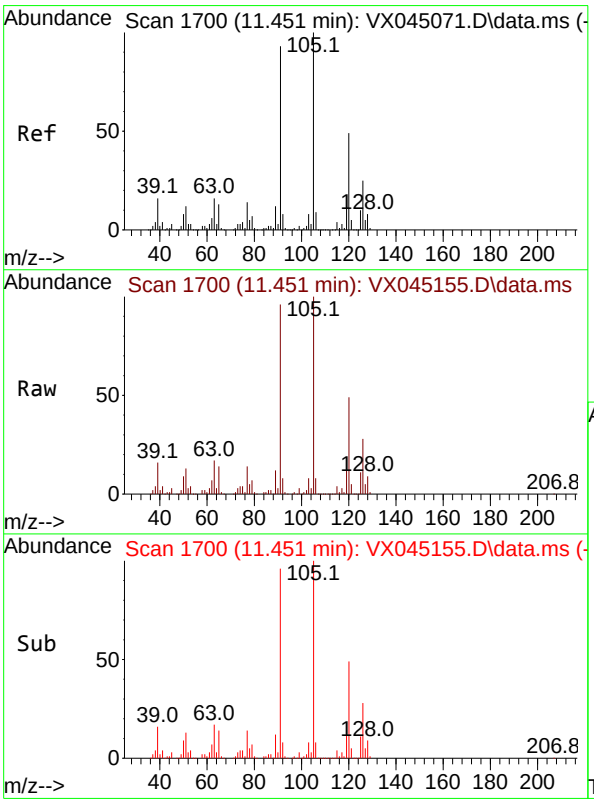
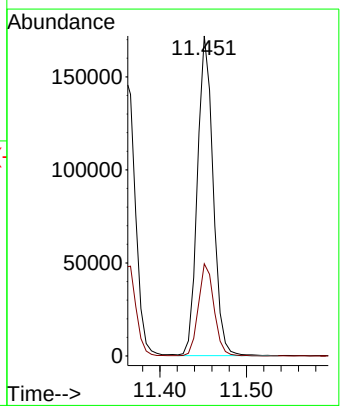


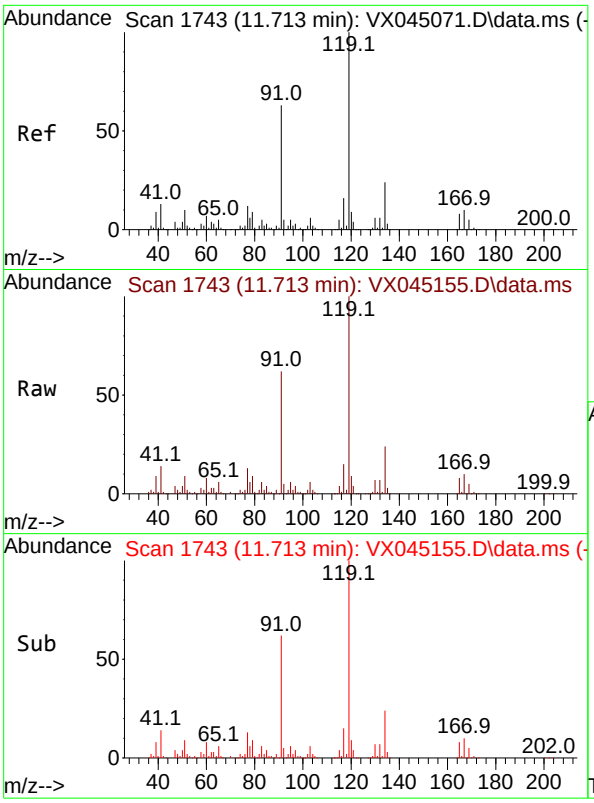


#82
4-Chlorotoluene
Concen: 50.836 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion: 91 Resp: 215920

Ion	Ratio	Lower	Upper
91	100		
126	28.8	14.1	42.4





#83
tert-Butylbenzene
Concen: 50.423 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion:119 Resp: 22693

Ion	Ratio	Lower	Upper
119	100		
91	61.6	30.7	92.1
134	23.3	11.7	35.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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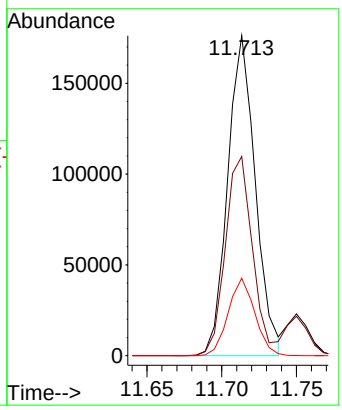
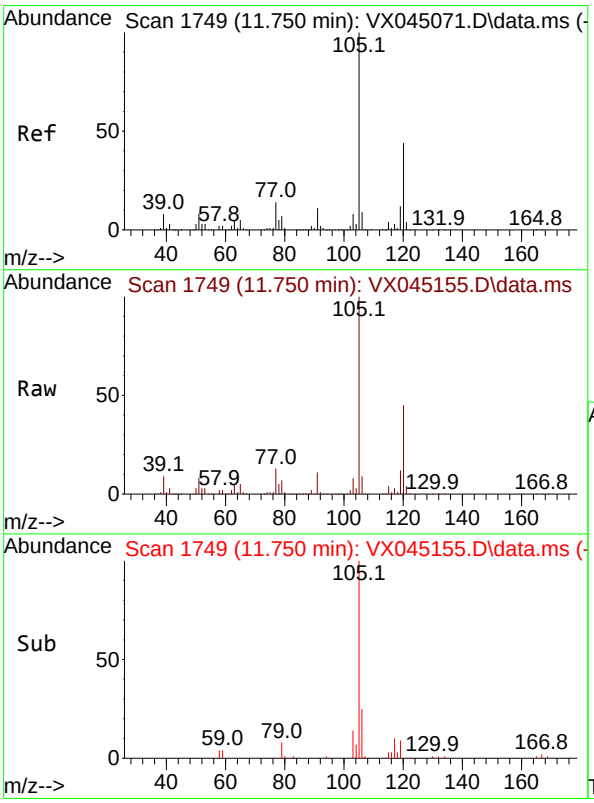
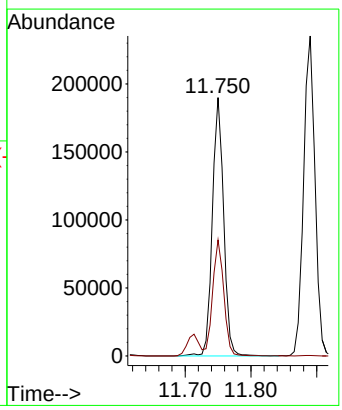


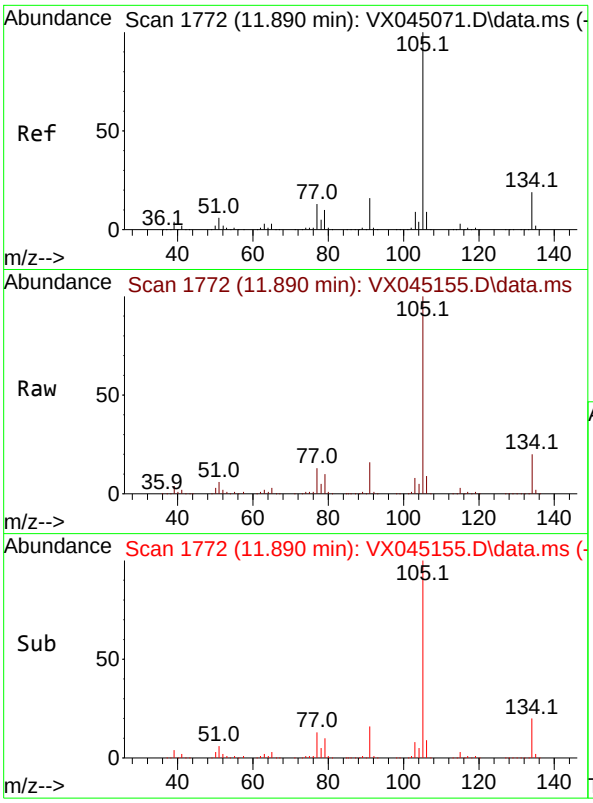


#84
1,2,4-Trimethylbenzene
Concen: 51.566 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion:105 Resp: 227267

Ion	Ratio	Lower	Upper
105	100		
120	44.3	22.1	66.1





#85
sec-Butylbenzene
Concen: 52.696 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion:105 Resp: 28408

Ion	Ratio	Lower	Upper
105	100		
134	19.3	9.8	29.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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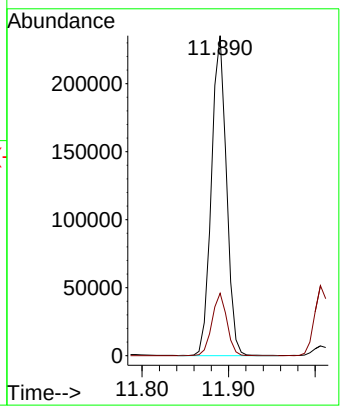
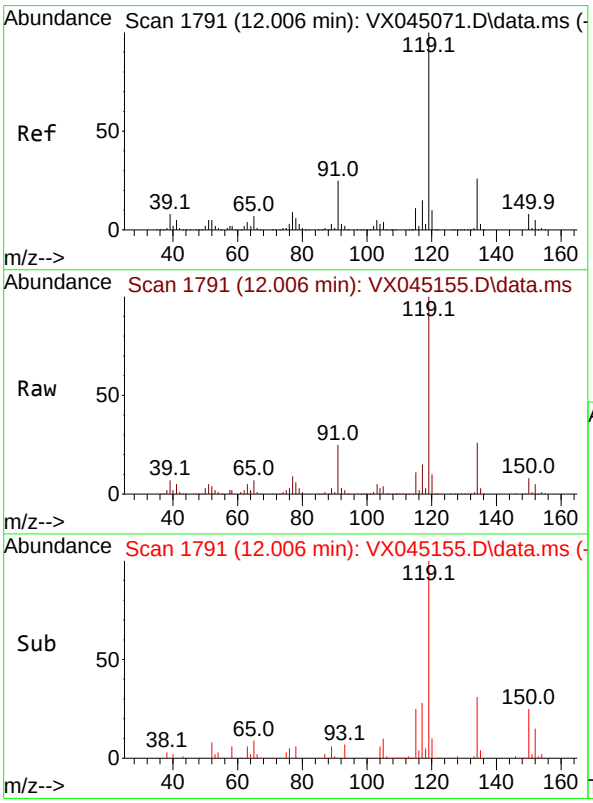
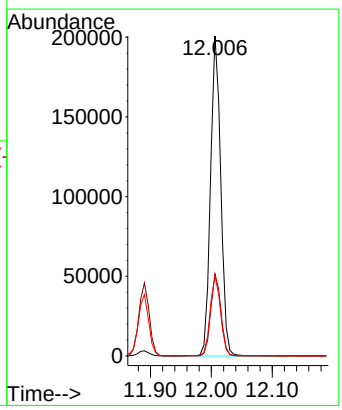


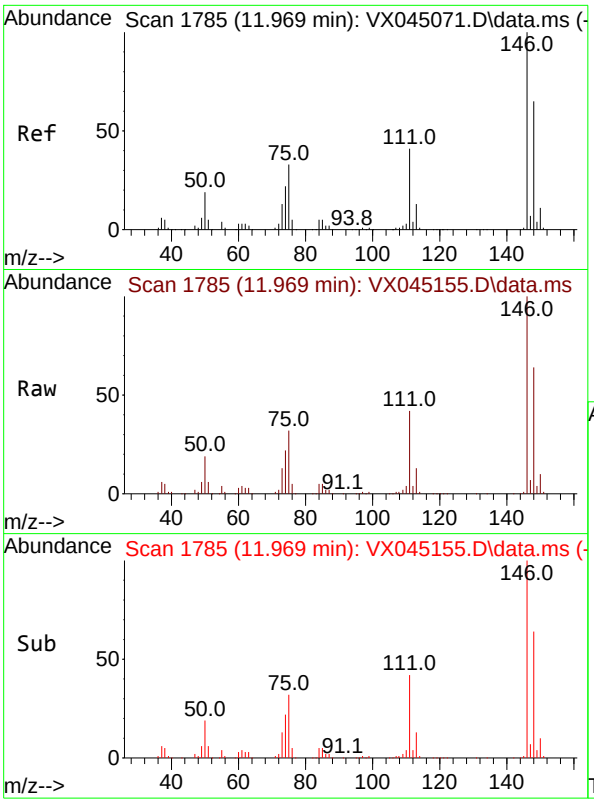


#86
p-Isopropyltoluene
Concen: 53.707 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion:119 Resp: 233986

Ion	Ratio	Lower	Upper
119	100		
134	25.5	12.9	38.6
91	25.3	12.7	38.0





#87
1,3-Dichlorobenzene
Concen: 49.852 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion:146 Resp: 11366

Ion	Ratio	Lower	Upper
146	100		
111	43.1	21.1	63.4
148	64.6	31.9	95.7

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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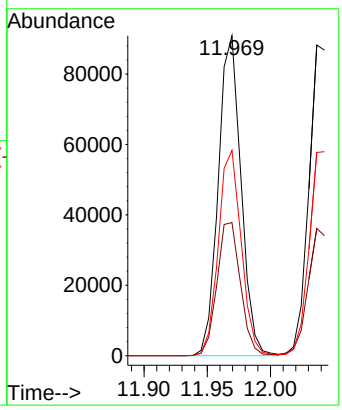
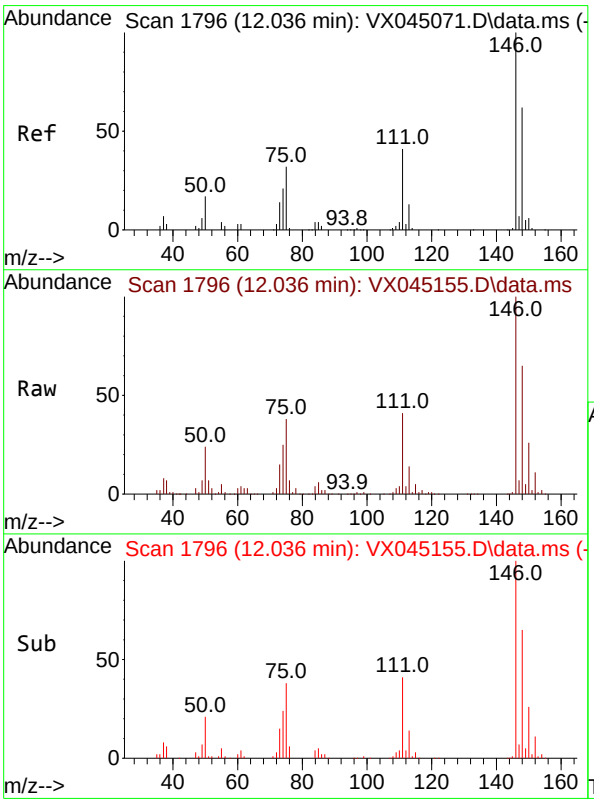
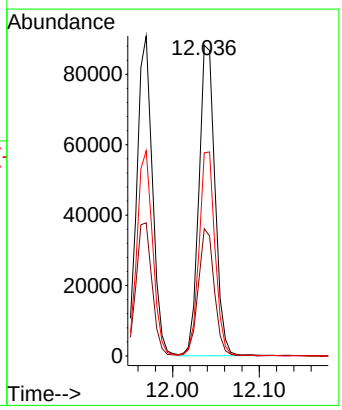


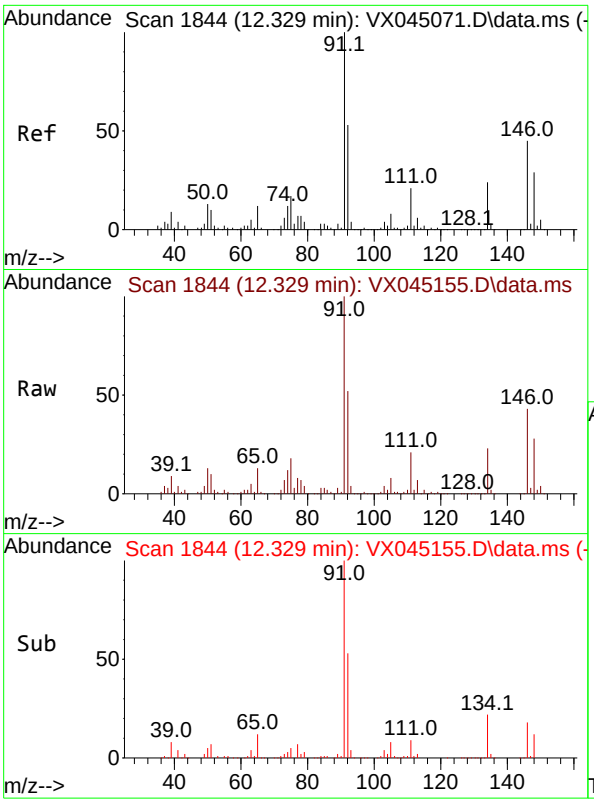


#88
1,4-Dichlorobenzene
Concen: 49.469 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion:146 Resp: 114115

Ion	Ratio	Lower	Upper
146	100		
111	40.9	20.2	60.5
148	65.5	31.9	95.9





#89
n-Butylbenzene
Concen: 55.868 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion: 91 Resp: 20963

Ion	Ratio	Lower	Upper
91	100		
92	52.6	26.7	80.0
134	24.0	12.2	36.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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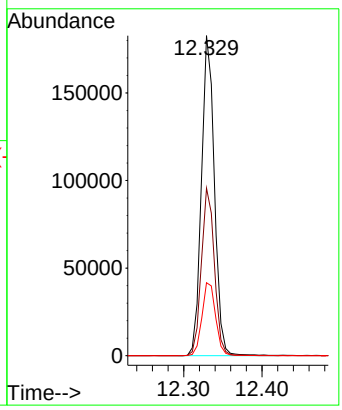
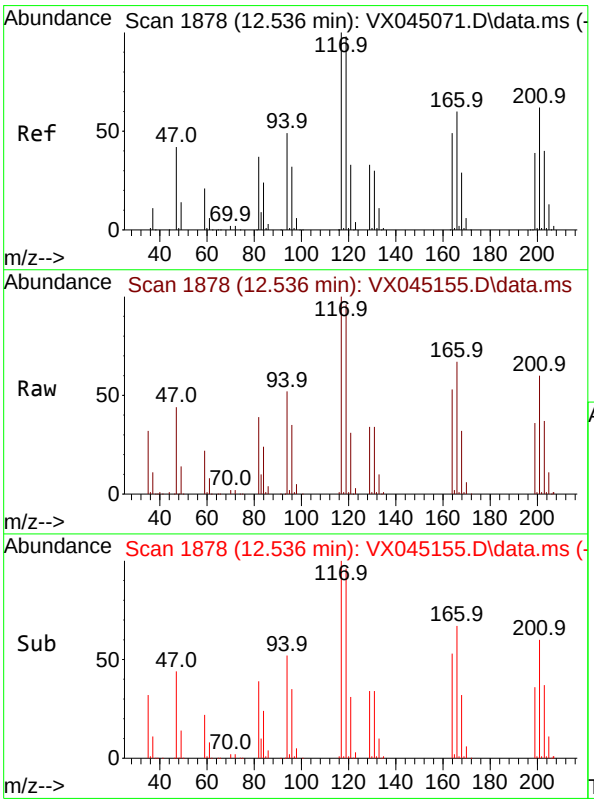
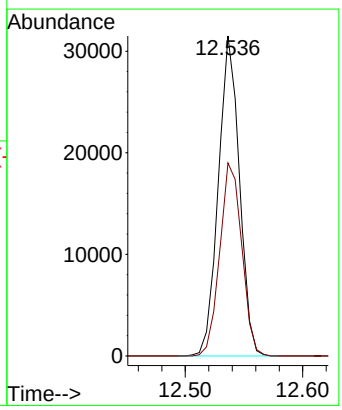


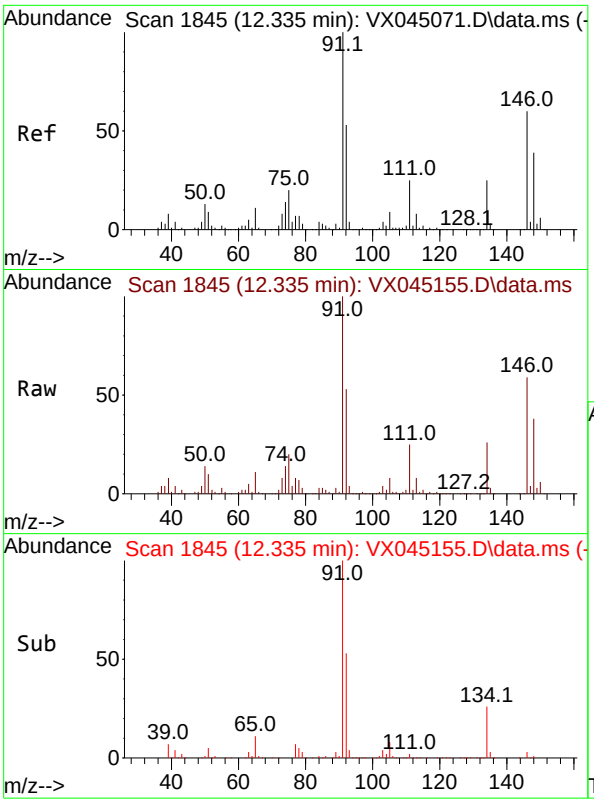


#90
Hexachloroethane
Concen: 49.718 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion:117 Resp: 39179

Ion	Ratio	Lower	Upper
117	100		
201	63.1	31.9	95.9





#91
1,2-Dichlorobenzene
Concen: 51.199 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion:146 Resp: 11710

Ion	Ratio	Lower	Upper
146	100		
111	43.4	21.6	65.0
148	63.6	31.9	95.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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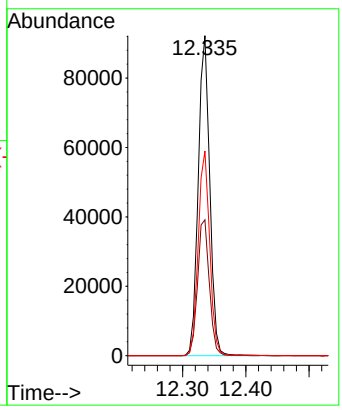
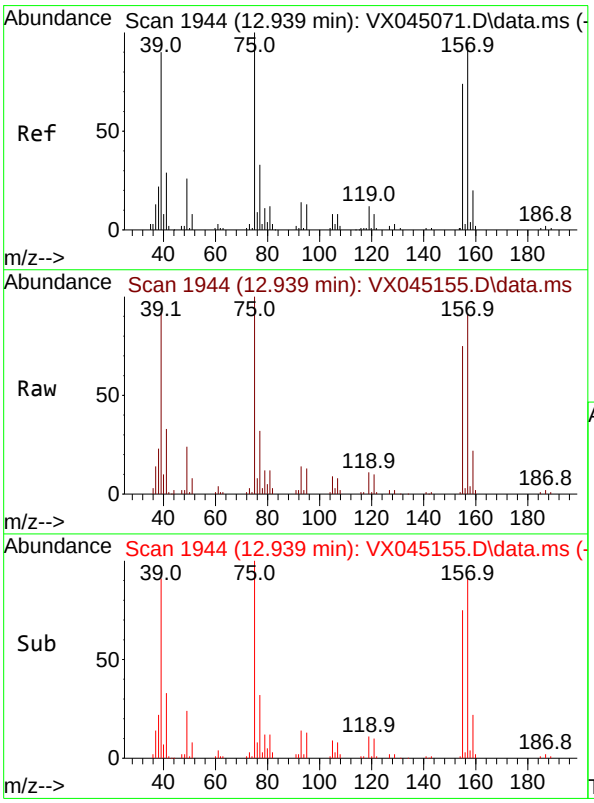
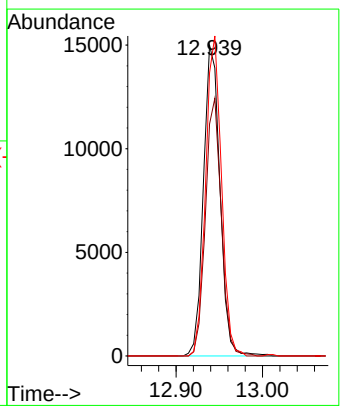


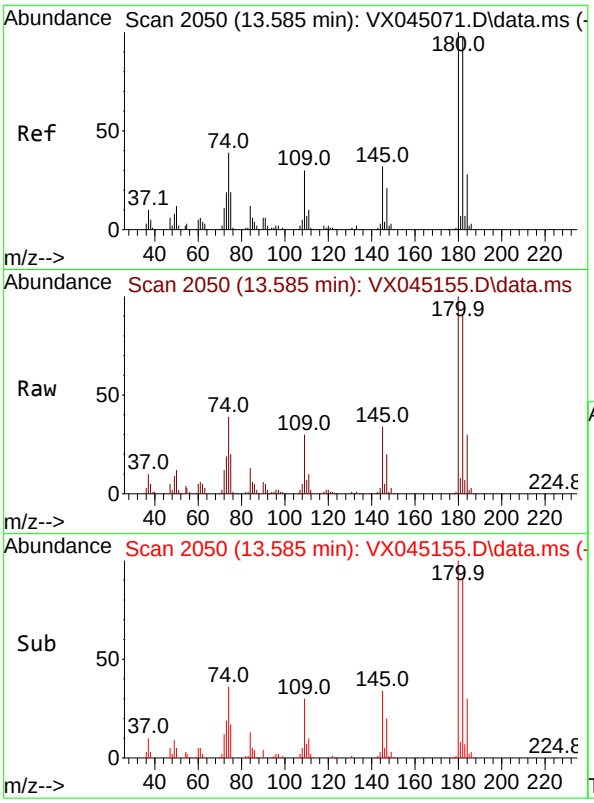


#92
1,2-Dibromo-3-Chloropropane
Concen: 51.248 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion: 75 Resp: 19847

Ion	Ratio	Lower	Upper
75	100		
155	80.0	39.6	118.7
157	98.8	51.1	153.4





#93
1,2,4-Trichlorobenzene
Concen: 53.845 ug/l
RT: 13.585 min Scan# 2(
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

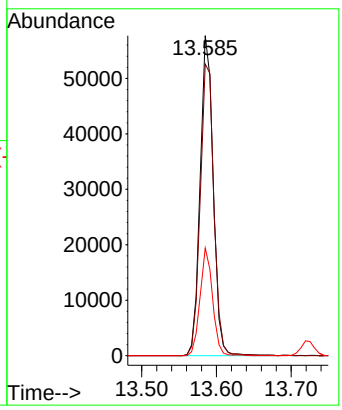
Tgt Ion:180 Resp: 7012

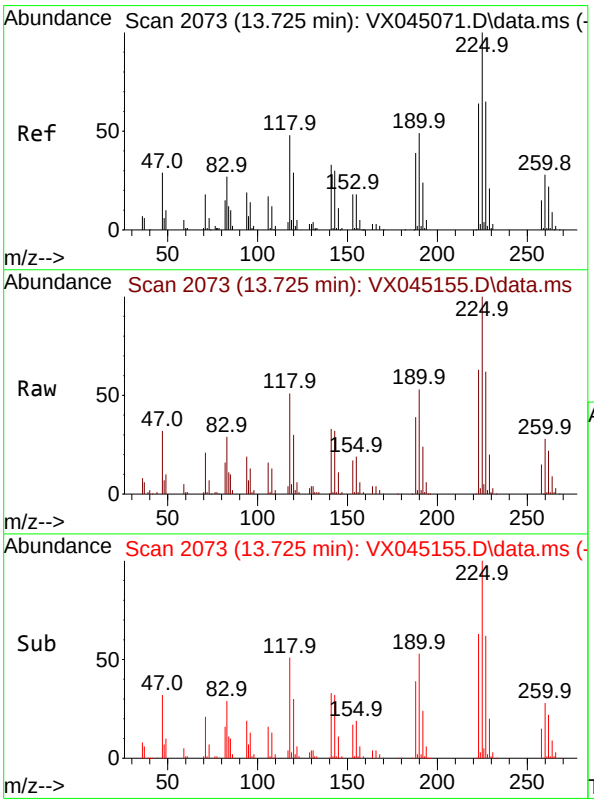
Ion	Ratio	Lower	Upper
180	100		
182	95.0	47.3	141.9
145	32.1	16.3	48.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

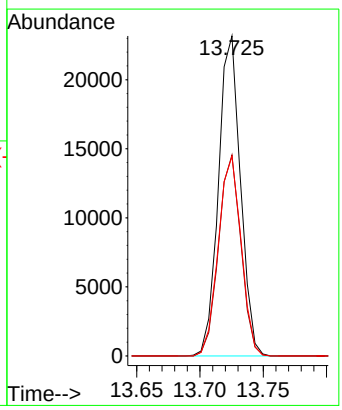


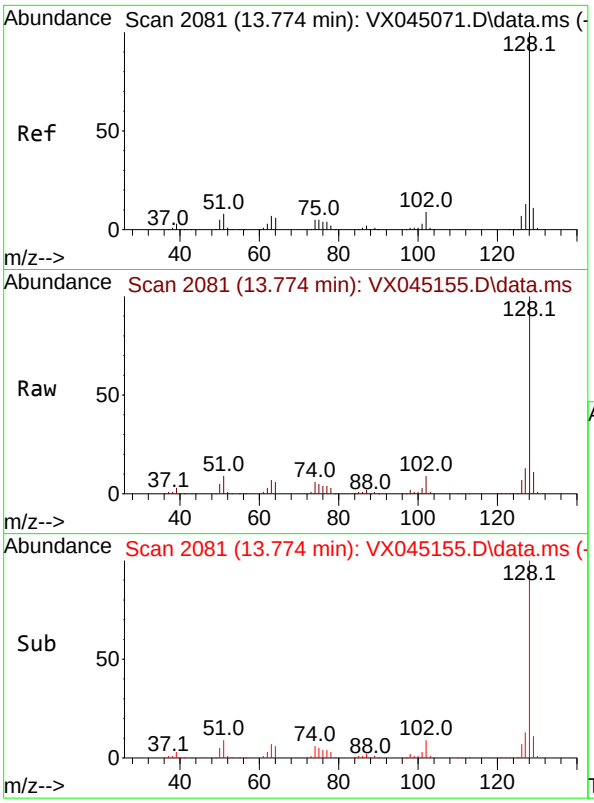


#94
Hexachlorobutadiene
Concen: 52.418 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion:225 Resp: 27989

Ion	Ratio	Lower	Upper
225	100		
223	63.6	31.9	95.7
227	64.8	31.4	94.0





#95
Naphthalene
Concen: 53.234 ug/l
RT: 13.774 min Scan# 2(
Delta R.T. 0.000 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

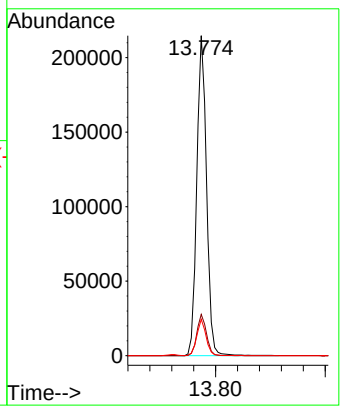
Tgt Ion:128 Resp: 26637(

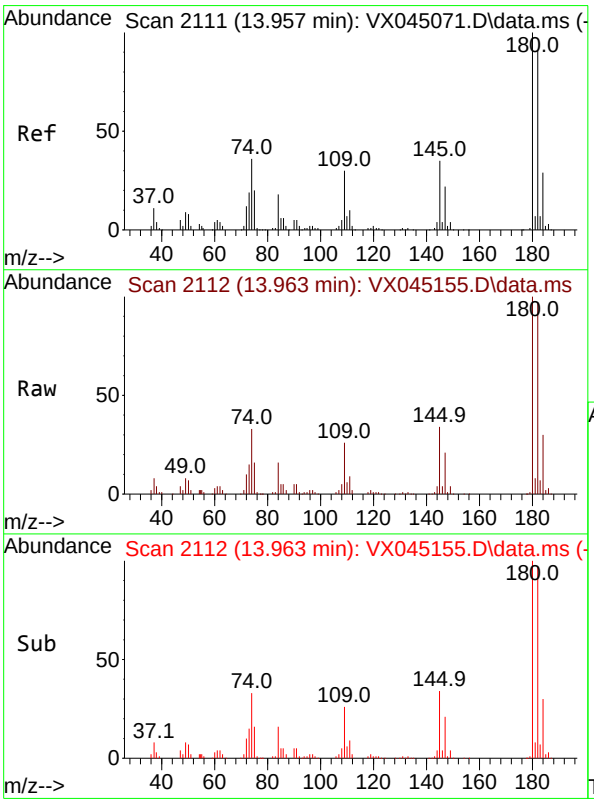
Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.3	15.5
129	10.9	8.7	13.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

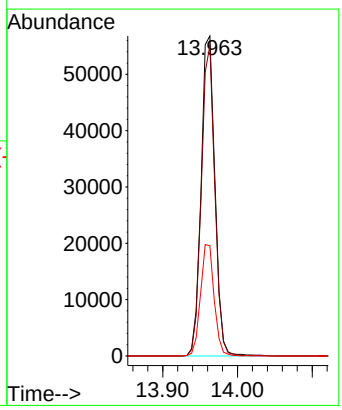




#96
1,2,3-Trichlorobenzene
Concen: 53.222 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. 0.006 min
Lab File: VX045155.D
Acq: 06 Mar 2025 09:56

Tgt Ion:180 Resp: 73124

Ion	Ratio	Lower	Upper
180	100		
182	93.9	47.5	142.6
145	34.3	17.0	50.9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
Data File : VX045155.D
Acq On : 06 Mar 2025 09:56
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Mar 07 00:36:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	96	0.00
2	T	Dichlorodifluoromethane	0.629	0.631	-0.3	97	0.00
3	P	Chloromethane	0.770	0.723	6.1	93	0.00
4	C	Vinyl Chloride	0.764	0.725	5.1#	92	0.00
5	T	Bromomethane	0.300	0.280	6.7	92	0.00
6	T	Chloroethane	0.352	0.298	15.3	77	0.00
7	T	Trichlorofluoromethane	1.011	0.973	3.8	89	0.00
8	T	Diethyl Ether	0.396	0.363	8.3	90	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.581	0.616	-6.0	100	0.00
10	T	Methyl Iodide	0.726	0.750	-3.3	94	0.00
11	T	Tert butyl alcohol	0.151	0.118	21.9	85	0.02
12	CM	1,1-Dichloroethene	0.614	0.600	2.3#	93	0.00
13	T	Acrolein	0.174	0.149	14.4	83	0.00
14	T	Allyl chloride	1.094	1.096	-0.2	95	0.00
15	T	Acrylonitrile	0.404	0.398	1.5	94	0.00
16	T	Acetone	0.369	0.345	6.5	95	0.00
17	T	Carbon Disulfide	1.636	1.462	10.6	85	0.00
18	T	Methyl Acetate	0.888	0.957	-7.8	106	0.00
19	T	Methyl tert-butyl Ether	2.061	2.015	2.2	93	0.00
20	T	Methylene Chloride	0.731	0.704	3.7	97	0.00
21	T	trans-1,2-Dichloroethene	0.607	0.610	-0.5	93	0.00
22	T	Diisopropyl ether	2.224	2.259	-1.6	95	0.00
23	T	Vinyl Acetate	1.856	1.909	-2.9	93	0.00
24	P	1,1-Dichloroethane	1.247	1.215	2.6	94	0.00
25	T	2-Butanone	0.555	0.564	-1.6	94	0.00
26	T	2,2-Dichloropropane	0.585	0.797	-36.2#	129	0.00
27	T	cis-1,2-Dichloroethene	0.749	0.750	-0.1	95	0.00
28	T	Bromochloromethane	0.594	0.551	7.2	88	0.00
29	T	Tetrahydrofuran	0.373	0.365	2.1	94	0.00
30	C	Chloroform	1.239	1.209	2.4#	94	0.00
31	T	Cyclohexane	1.082	1.086	-0.4	95	0.00
32	T	1,1,1-Trichloroethane	1.000	0.978	2.2	92	0.00
33	S	1,2-Dichloroethane-d4	0.795	0.783	1.5	100	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	94	0.00
35	S	Dibromofluoromethane	0.334	0.341	-2.1	98	0.00
36	T	1,1-Dichloropropene	0.459	0.458	0.2	92	0.00
37	T	Ethyl Acetate	0.591	0.593	-0.3	92	0.00
38	T	Carbon Tetrachloride	0.465	0.458	1.5	92	0.00
39	T	Methylcyclohexane	0.549	0.598	-8.9	96	0.00
40	TM	Benzene	1.448	1.464	-1.1	92	0.00
41	T	Methacrylonitrile	0.319	0.332	-4.1	92	0.00
42	TM	1,2-Dichloroethane	0.521	0.534	-2.5	96	0.00
43	T	Isopropyl Acetate	0.874	0.903	-3.3	92	0.00
44	TM	Trichloroethene	0.340	0.341	-0.3	95	0.00
45	C	1,2-Dichloropropane	0.372	0.377	-1.3#	96	0.00
46	T	Dibromomethane	0.263	0.272	-3.4	95	0.00
47	T	Bromodichloromethane	0.516	0.523	-1.4	94	0.00
48	T	Methyl methacrylate	0.438	0.456	-4.1	93	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
Data File : VX045155.D
Acq On : 06 Mar 2025 09:56
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Mar 07 00:36:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	0.009	0.009	0.0	93	0.00
50	S	Toluene-d8	1.212	1.244	-2.6	97	0.00
51	T	4-Methyl-2-Pentanone	0.587	0.616	-4.9	95	0.00
52	CM	Toluene	0.849	0.893	-5.2#	94	0.00
53	T	t-1,3-Dichloropropene	0.431	0.467	-8.4	94	0.00
54	T	cis-1,3-Dichloropropene	0.503	0.544	-8.2	96	0.00
55	T	1,1,2-Trichloroethane	0.350	0.355	-1.4	94	0.00
56	T	Ethyl methacrylate	0.532	0.557	-4.7	92	0.00
57	T	1,3-Dichloropropane	0.605	0.612	-1.2	93	0.00
58	T	2-Chloroethyl Vinyl ether	0.259	0.284	-9.7	94	0.00
59	T	2-Hexanone	0.425	0.451	-6.1	95	0.00
60	T	Dibromochloromethane	0.366	0.378	-3.3	93	0.00
61	T	1,2-Dibromoethane	0.349	0.353	-1.1	94	0.00
62	S	4-Bromofluorobenzene	0.402	0.419	-4.2	98	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	95	0.00
64	T	Tetrachloroethene	0.320	0.322	-0.6	94	0.00
65	PM	Chlorobenzene	1.058	1.078	-1.9	94	0.00
66	T	1,1,1,2-Tetrachloroethane	0.352	0.353	-0.3	94	0.00
67	C	Ethyl Benzene	1.843	1.931	-4.8#	94	0.00
68	T	m/p-Xylenes	0.675	0.704	-4.3	92	0.00
69	T	o-Xylene	0.681	0.694	-1.9	93	0.00
70	T	Styrene	1.101	1.163	-5.6	93	0.00
71	P	Bromoform	0.266	0.266	0.0	91	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	97	0.00
73	T	Isopropylbenzene	3.903	3.979	-1.9	94	0.00
74	T	N-amyl acetate	1.831	1.898	-3.7	93	0.00
75	P	1,1,2,2-Tetrachloroethane	1.432	1.414	1.3	97	0.00
76	T	1,2,3-Trichloropropane	1.164	1.142	1.9	97	0.00
77	T	Bromobenzene	0.921	0.925	-0.4	96	0.00
78	T	n-propylbenzene	4.409	4.654	-5.6	94	0.00
79	T	2-Chlorotoluene	2.808	2.793	0.5	95	0.00
80	T	1,3,5-Trimethylbenzene	3.156	3.242	-2.7	93	0.00
81	T	trans-1,4-Dichloro-2-butene	0.340	0.352	-3.5	101	0.00
82	T	4-Chlorotoluene	3.060	3.111	-1.7	94	0.00
83	T	tert-Butylbenzene	3.242	3.270	-0.9	94	0.00
84	T	1,2,4-Trimethylbenzene	3.175	3.275	-3.1	94	0.00
85	T	sec-Butylbenzene	3.884	4.093	-5.4	95	0.00
86	T	p-Isopropyltoluene	3.139	3.371	-7.4	96	0.00
87	T	1,3-Dichlorobenzene	1.643	1.638	0.3	96	0.00
88	T	1,4-Dichlorobenzene	1.662	1.644	1.1	95	0.00
89	T	n-Butylbenzene	2.703	3.021	-11.8	98	0.00
90	T	Hexachloroethane	0.568	0.565	0.5	91	0.00
91	T	1,2-Dichlorobenzene	1.648	1.687	-2.4	98	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.279	0.286	-2.5	96	0.00
93	T	1,2,4-Trichlorobenzene	0.938	1.010	-7.7	98	0.00
94	T	Hexachlorobutadiene	0.385	0.403	-4.7	100	0.00
95	T	Naphthalene	3.605	3.838	-6.5	96	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
Data File : VX045155.D
Acq On : 06 Mar 2025 09:56
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Mar 07 00:36:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.990	1.054	-6.5	97	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
Data File : VX045155.D
Acq On : 06 Mar 2025 09:56
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Mar 07 00:36:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	96	0.00
2	T	Dichlorodifluoromethane	50.000	50.150	-0.3	97	0.00
3	P	Chloromethane	50.000	46.958	6.1	93	0.00
4	C	Vinyl Chloride	50.000	47.434	5.1#	92	0.00
5	T	Bromomethane	50.000	46.654	6.7	92	0.00
6	T	Chloroethane	50.000	42.341	15.3	77	0.00
7	T	Trichlorofluoromethane	50.000	48.081	3.8	89	0.00
8	T	Diethyl Ether	50.000	45.821	8.4	90	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	52.999	-6.0	100	0.00
10	T	Methyl Iodide	50.000	51.610	-3.2	94	0.00
11	T	Tert butyl alcohol	250.000	195.202	21.9	85	0.02
12	CM	1,1-Dichloroethene	50.000	48.789	2.4#	93	0.00
13	T	Acrolein	250.000	213.430	14.6	83	0.00
14	T	Allyl chloride	50.000	50.112	-0.2	95	0.00
15	T	Acrylonitrile	250.000	246.689	1.3	94	0.00
16	T	Acetone	250.000	233.847	6.5	95	0.00
17	T	Carbon Disulfide	50.000	44.684	10.6	85	0.00
18	T	Methyl Acetate	50.000	53.893	-7.8	106	0.00
19	T	Methyl tert-butyl Ether	50.000	48.872	2.3	93	0.00
20	T	Methylene Chloride	50.000	48.172	3.7	97	0.00
21	T	trans-1,2-Dichloroethene	50.000	50.255	-0.5	93	0.00
22	T	Diisopropyl ether	50.000	50.793	-1.6	95	0.00
23	T	Vinyl Acetate	250.000	257.151	-2.9	93	0.00
24	P	1,1-Dichloroethane	50.000	48.731	2.5	94	0.00
25	T	2-Butanone	250.000	253.939	-1.6	94	0.00
26	T	2,2-Dichloropropane	50.000	68.182	-36.4#	129	0.00
27	T	cis-1,2-Dichloroethene	50.000	50.079	-0.2	95	0.00
28	T	Bromochloromethane	50.000	46.329	7.3	88	0.00
29	T	Tetrahydrofuran	250.000	244.426	2.2	94	0.00
30	C	Chloroform	50.000	48.804	2.4#	94	0.00
31	T	Cyclohexane	50.000	50.191	-0.4	95	0.00
32	T	1,1,1-Trichloroethane	50.000	48.875	2.3	92	0.00
33	S	1,2-Dichloroethane-d4	50.000	49.233	1.5	100	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	94	0.00
35	S	Dibromofluoromethane	50.000	50.978	-2.0	98	0.00
36	T	1,1-Dichloropropene	50.000	49.941	0.1	92	0.00
37	T	Ethyl Acetate	50.000	50.173	-0.3	92	0.00
38	T	Carbon Tetrachloride	50.000	49.163	1.7	92	0.00
39	T	Methylcyclohexane	50.000	54.417	-8.8	96	0.00
40	TM	Benzene	50.000	50.564	-1.1	92	0.00
41	T	Methacrylonitrile	50.000	51.935	-3.9	92	0.00
42	TM	1,2-Dichloroethane	50.000	51.224	-2.4	96	0.00
43	T	Isopropyl Acetate	50.000	51.671	-3.3	92	0.00
44	TM	Trichloroethene	50.000	50.205	-0.4	95	0.00
45	C	1,2-Dichloropropane	50.000	50.625	-1.3#	96	0.00
46	T	Dibromomethane	50.000	51.739	-3.5	95	0.00
47	T	Bromodichloromethane	50.000	50.685	-1.4	94	0.00
48	T	Methyl methacrylate	50.000	51.991	-4.0	93	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
Data File : VX045155.D
Acq On : 06 Mar 2025 09:56
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Mar 07 00:36:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	1,4-Dioxane	1000.000	1004.564	-0.5	93	0.00
50	S	Toluene-d8	50.000	51.298	-2.6	97	0.00
51	T	4-Methyl-2-Pentanone	250.000	262.414	-5.0	95	0.00
52	CM	Toluene	50.000	52.538	-5.1#	94	0.00
53	T	t-1,3-Dichloropropene	50.000	54.074	-8.1	94	0.00
54	T	cis-1,3-Dichloropropene	50.000	54.055	-8.1	96	0.00
55	T	1,1,2-Trichloroethane	50.000	50.685	-1.4	94	0.00
56	T	Ethyl methacrylate	50.000	52.367	-4.7	92	0.00
57	T	1,3-Dichloropropane	50.000	50.592	-1.2	93	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	274.113	-9.6	94	0.00
59	T	2-Hexanone	250.000	264.998	-6.0	95	0.00
60	T	Dibromochloromethane	50.000	51.634	-3.3	93	0.00
61	T	1,2-Dibromoethane	50.000	50.561	-1.1	94	0.00
62	S	4-Bromofluorobenzene	50.000	52.170	-4.3	98	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	95	0.00
64	T	Tetrachloroethene	50.000	50.303	-0.6	94	0.00
65	PM	Chlorobenzene	50.000	50.951	-1.9	94	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	50.032	-0.1	94	0.00
67	C	Ethyl Benzene	50.000	52.376	-4.8#	94	0.00
68	T	m/p-Xylenes	100.000	104.329	-4.3	92	0.00
69	T	o-Xylene	50.000	51.019	-2.0	93	0.00
70	T	Styrene	50.000	52.810	-5.6	93	0.00
71	P	Bromoform	50.000	49.970	0.1	91	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	97	0.00
73	T	Isopropylbenzene	50.000	50.984	-2.0	94	0.00
74	T	N-amyl acetate	50.000	51.811	-3.6	93	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	49.376	1.2	97	0.00
76	T	1,2,3-Trichloropropane	50.000	49.083	1.8	97	0.00
77	T	Bromobenzene	50.000	50.213	-0.4	96	0.00
78	T	n-propylbenzene	50.000	52.781	-5.6	94	0.00
79	T	2-Chlorotoluene	50.000	49.740	0.5	95	0.00
80	T	1,3,5-Trimethylbenzene	50.000	51.365	-2.7	93	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	51.737	-3.5	101	0.00
82	T	4-Chlorotoluene	50.000	50.836	-1.7	94	0.00
83	T	tert-Butylbenzene	50.000	50.423	-0.8	94	0.00
84	T	1,2,4-Trimethylbenzene	50.000	51.566	-3.1	94	0.00
85	T	sec-Butylbenzene	50.000	52.696	-5.4	95	0.00
86	T	p-Isopropyltoluene	50.000	53.707	-7.4	96	0.00
87	T	1,3-Dichlorobenzene	50.000	49.852	0.3	96	0.00
88	T	1,4-Dichlorobenzene	50.000	49.469	1.1	95	0.00
89	T	n-Butylbenzene	50.000	55.868	-11.7	98	0.00
90	T	Hexachloroethane	50.000	49.718	0.6	91	0.00
91	T	1,2-Dichlorobenzene	50.000	51.199	-2.4	98	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	51.248	-2.5	96	0.00
93	T	1,2,4-Trichlorobenzene	50.000	53.845	-7.7	98	0.00
94	T	Hexachlorobutadiene	50.000	52.418	-4.8	100	0.00
95	T	Naphthalene	50.000	53.234	-6.5	96	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
Data File : VX045155.D
Acq On : 06 Mar 2025 09:56
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Mar 07 00:36:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	53.222	-6.4	97	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

QC SAMPLE DATA

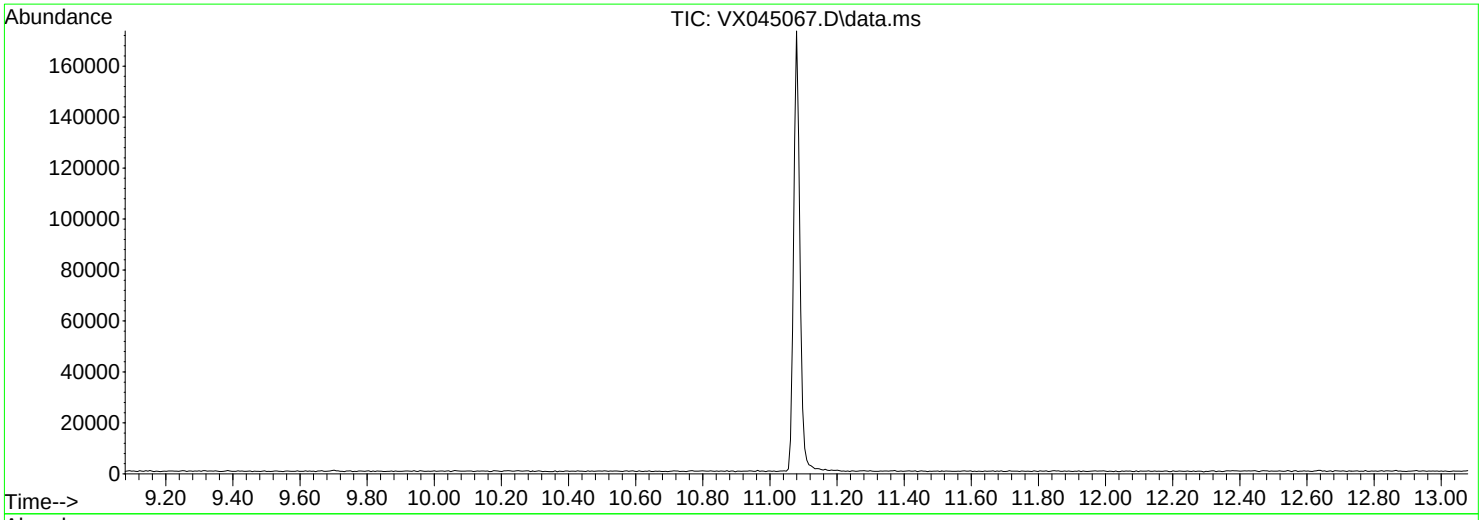
Sample Results: **VX045067.D**

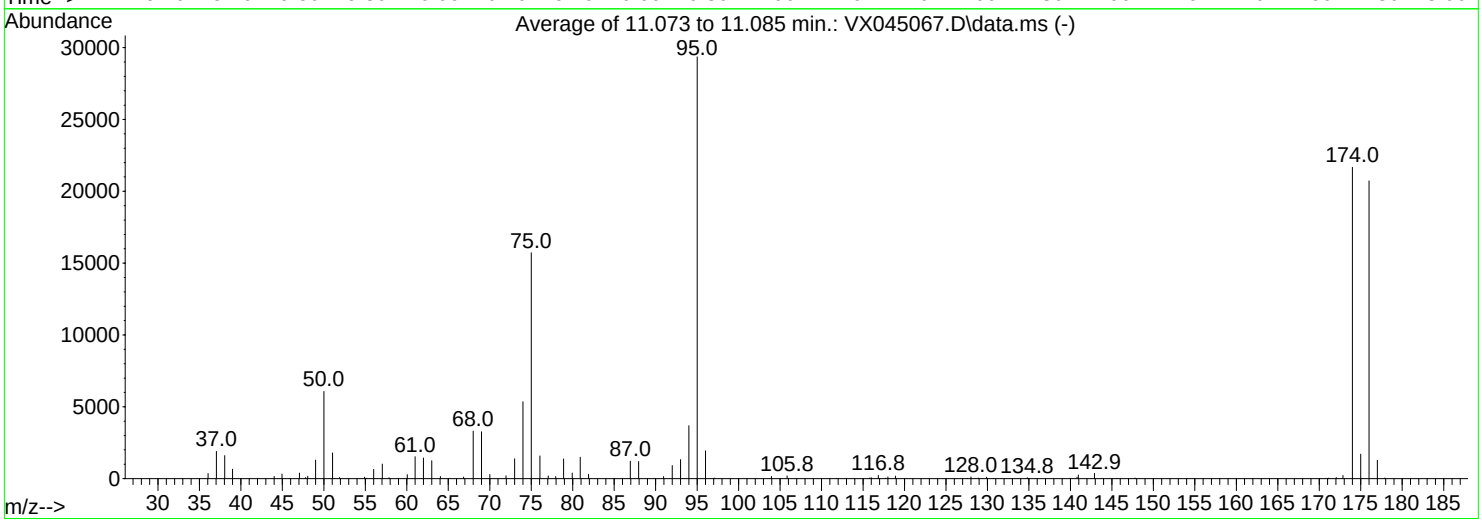
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022825\
Data File : VX045067.D
Acq On : 28 Feb 2025 01:03
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Title : SW846 8260
Last Update : Fri Feb 28 06:45:16 2025





AutoFind: Scans 1638, 1639, 1640; Background Corrected with Scan 1632

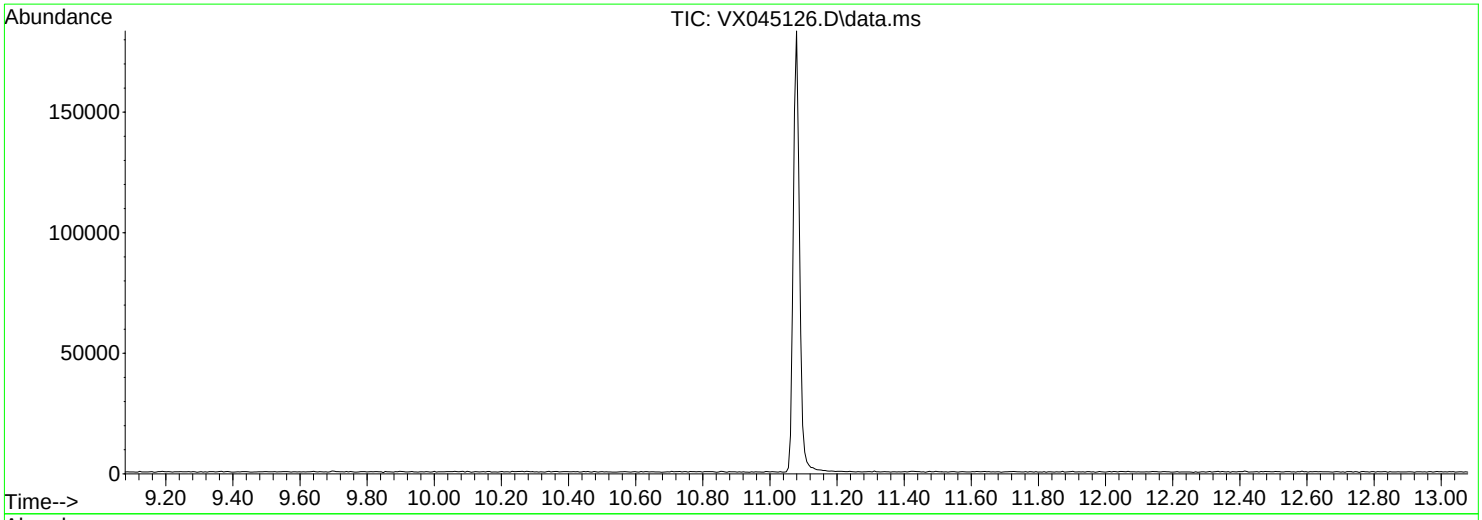
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.7	6072	PASS
75	95	30	60	53.6	15726	PASS
95	95	100	100	100.0	29360	PASS
96	95	5	9	6.6	1942	PASS
173	174	0.00	2	1.0	219	PASS
174	95	50	100	73.8	21677	PASS
175	174	5	9	7.9	1702	PASS
176	174	95	101	95.6	20723	PASS
177	176	5	9	6.2	1277	PASS

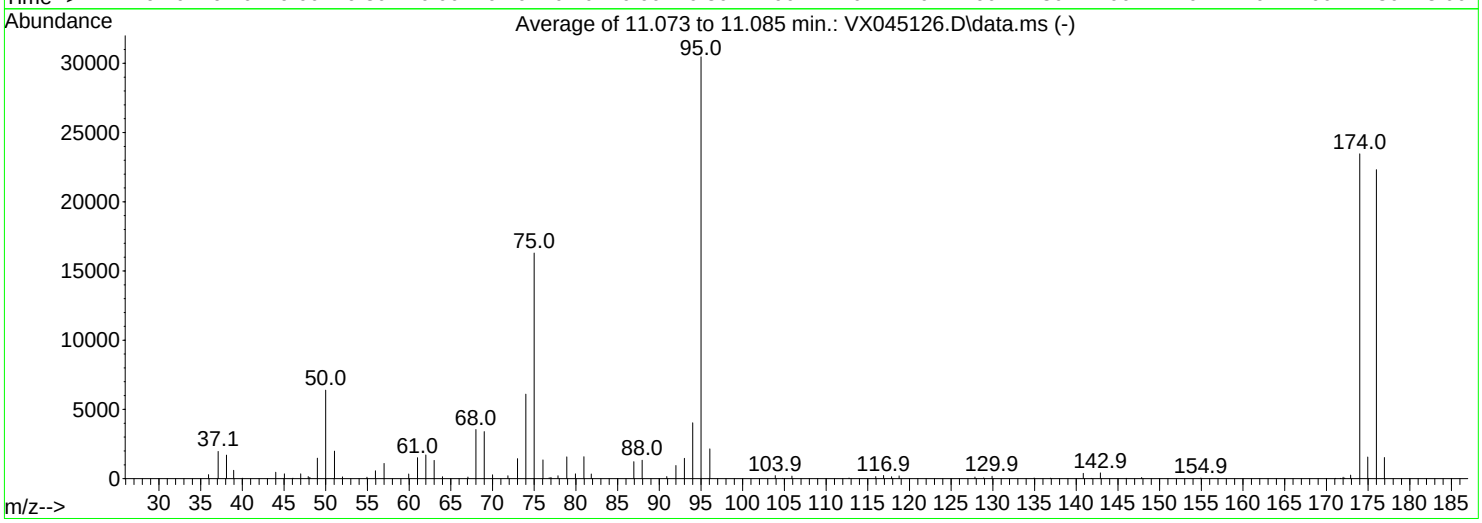
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030525\
Data File : VX045126.D
Acq On : 05 Mar 2025 08:40
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Title : SW846 8260
Last Update : Fri Feb 28 06:45:16 2025





AutoFind: Scans 1638, 1639, 1640; 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	21.0	6391	PASS
75	95	30	60	53.5	16301	PASS
95	95	100	100	100.0	30469	PASS
96	95	5	9	7.1	2150	PASS
173	174	0.00	2	1.1	256	PASS
174	95	50	100	77.0	23464	PASS
175	174	5	9	6.7	1563	PASS
176	174	95	101	95.1	22320	PASS
177	176	5	9	6.9	1531	PASS

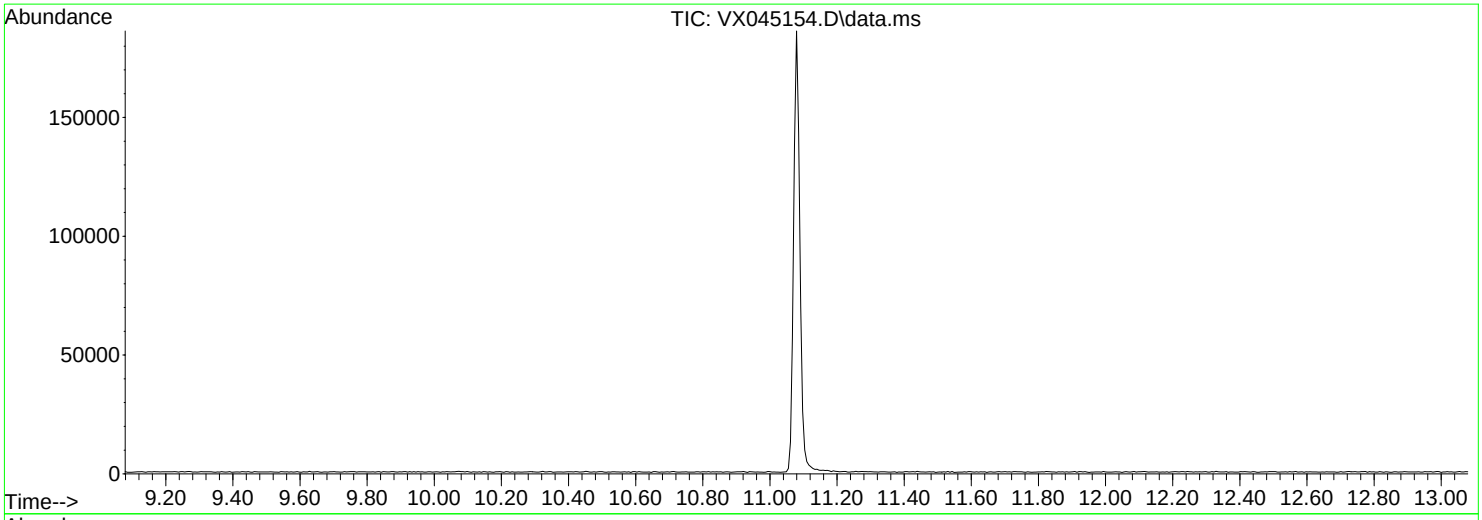
Sample Results: **VX045154.D**

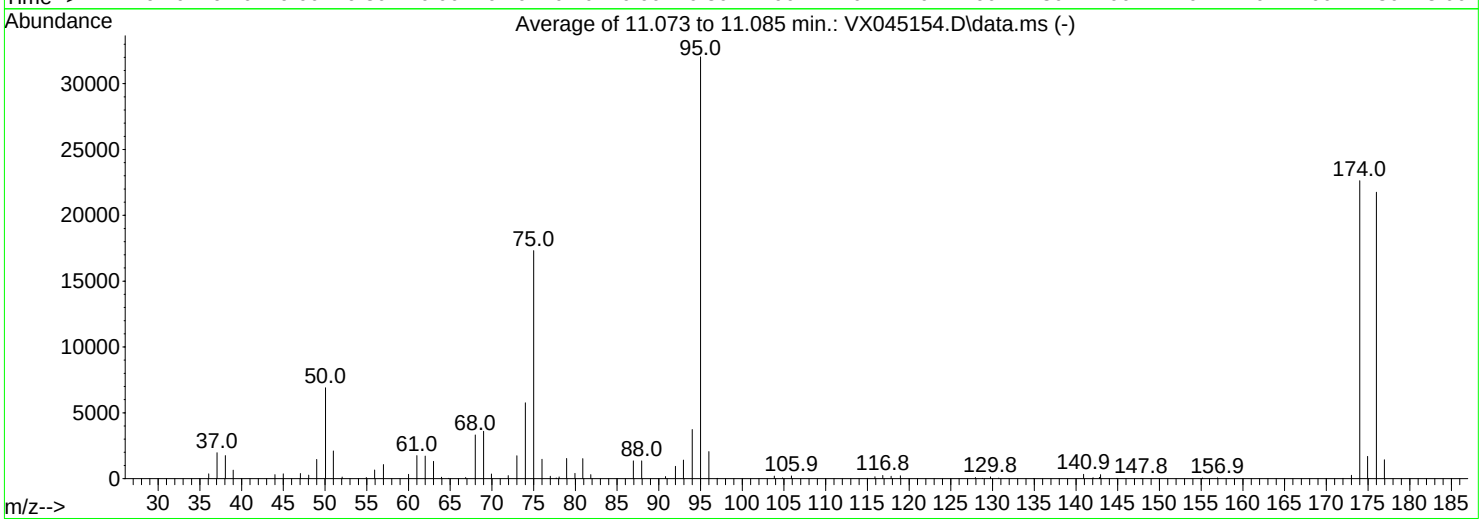
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
Data File : VX045154.D
Acq On : 06 Mar 2025 09:09
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Title : SW846 8260
Last Update : Fri Feb 28 06:45:16 2025





AutoFind: Scans 1638, 1639, 1640; 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	21.5	6899	PASS
75	95	30	60	54.0	17313	PASS
95	95	100	100	100.0	32037	PASS
96	95	5	9	6.4	2059	PASS
173	174	0.00	2	1.1	256	PASS
174	95	50	100	70.6	22629	PASS
175	174	5	9	7.5	1688	PASS
176	174	95	101	96.1	21751	PASS
177	176	5	9	6.6	1434	PASS

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger STC PTC Site # D3868221	Date Received:	
Client Sample ID:	VX0305WBL01	SDG No.:	Q1501
Lab Sample ID:	VX0305WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045129.D	1		03/05/25 10:03	VX030525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	1.00	ug/L
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	1.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.7		70 (74) - 130 (125)	105%	SPK: 50
1868-53-7	Dibromofluoromethane	51.0		70 (75) - 130 (124)	102%	SPK: 50
2037-26-5	Toluene-d8	51.0		70 (86) - 130 (113)	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.5		70 (77) - 130 (121)	103%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	68100	5.544			
540-36-3	1,4-Difluorobenzene	137000	6.757			
3114-55-4	Chlorobenzene-d5	125000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	51000	12.018			

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\VX030525\
Data File : VX045129.D
Acq On : 05 Mar 2025 10:03
Operator : JC/MD
Sample : VX0305WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0305WBL01

Quant Time: Mar 06 00:59:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	68143	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	136785	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	125445	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	50961	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	57117	52.695	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 105.400%			
35) Dibromofluoromethane	5.385	113	46625	50.976	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.960%			
50) Toluene-d8	8.647	98	169234	51.037	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.080%			
62) 4-Bromofluorobenzene	11.079	95	56568	51.482	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 102.960%			

Target Compounds Qvalue

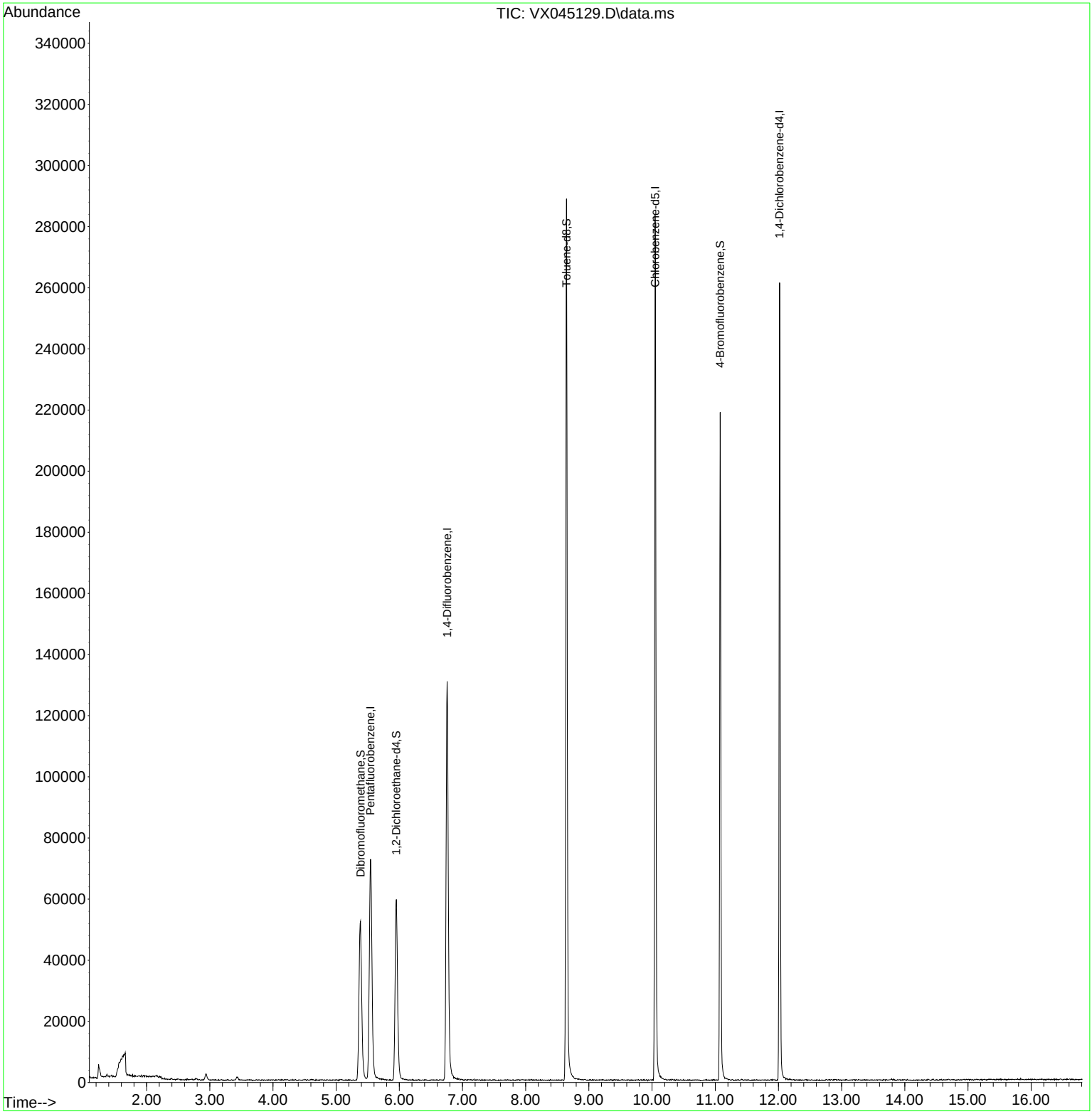
(#) = qualifier out of range (m) = manual integration (+) = signals summed

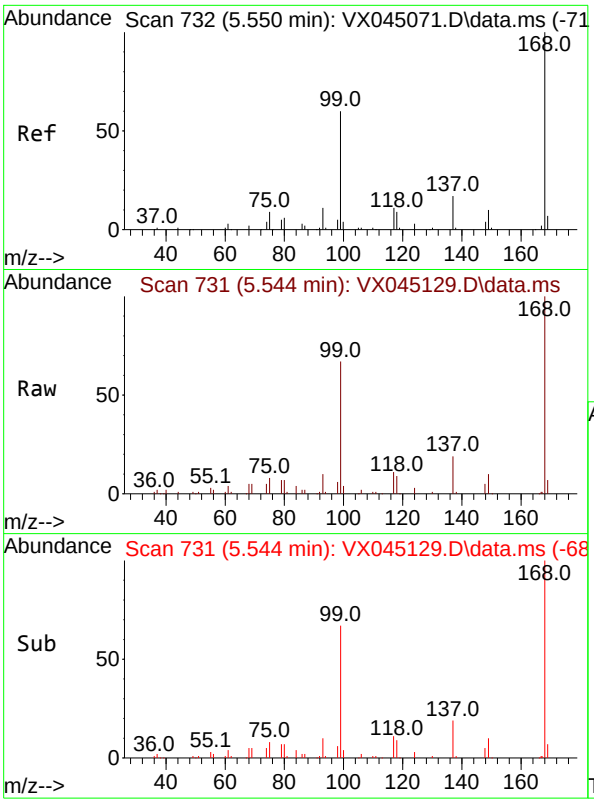
Sample Results: **VX045129.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030525\
Data File : VX045129.D
Acq On : 05 Mar 2025 10:03
Operator : JC/MD
Sample : VX0305WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0305WBL01

Quant Time: Mar 06 00:59:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration



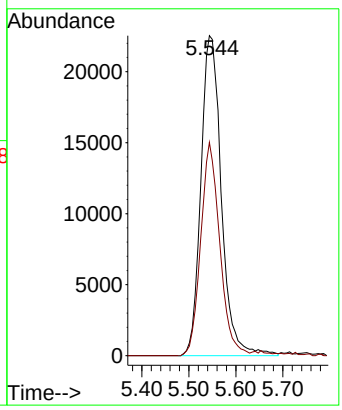


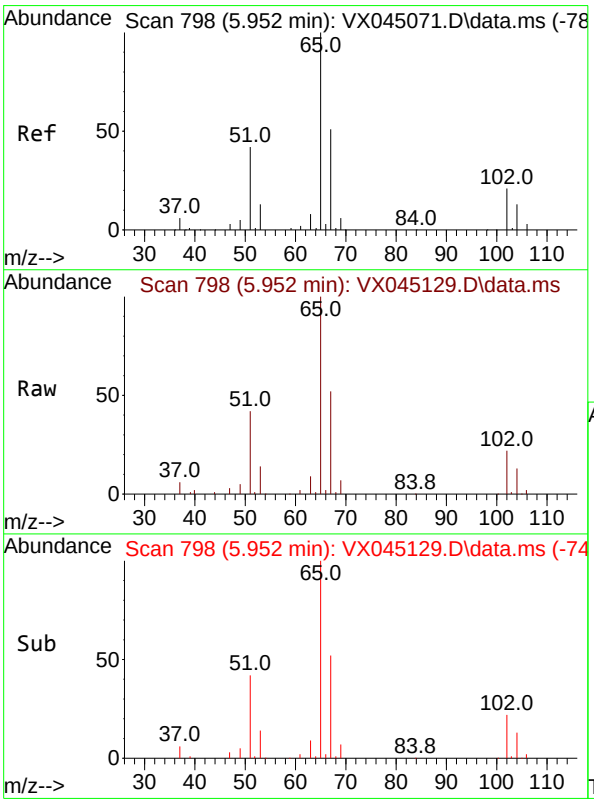
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045129.D
Acq: 05 Mar 2025 10:03

Instrument :
MSVOA_X
ClientSampleId :
VX0305WBL01

Tgt Ion:168 Resp: 68143

Ion	Ratio	Lower	Upper
168	100		
99	66.6	48.2	72.4

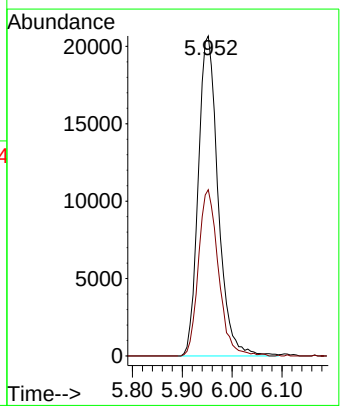


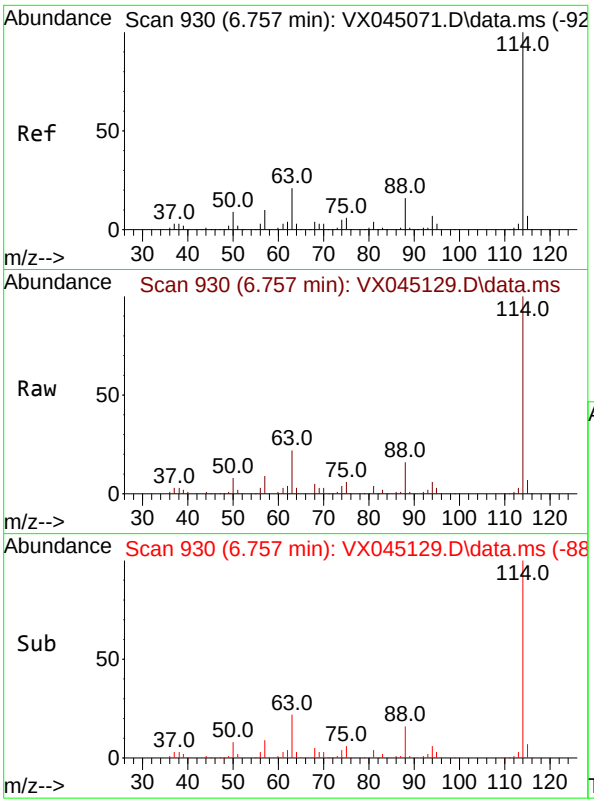


#33
1,2-Dichloroethane-d4
Concen: 52.695 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.000 min
Lab File: VX045129.D
Acq: 05 Mar 2025 10:03

Tgt Ion: 65 Resp: 57117

Ion	Ratio	Lower	Upper
65	100		
67	52.4	0.0	106.2



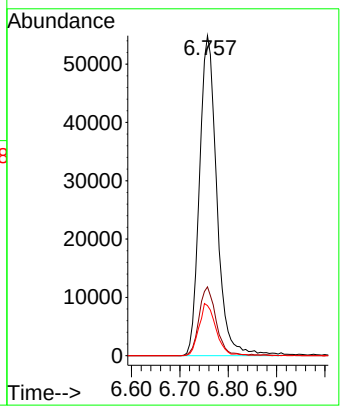


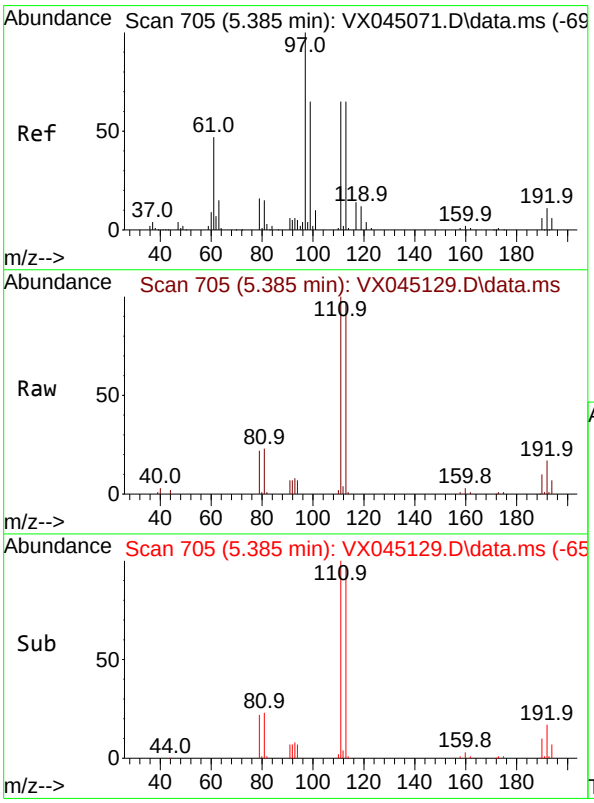
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX045129.D
Acq: 05 Mar 2025 10:03

Instrument :
MSVOA_X
ClientSampleId :
VX0305WBL01

Tgt Ion:114 Resp: 136785

Ion	Ratio	Lower	Upper
114	100		
63	21.5	0.0	41.8
88	15.7	0.0	32.8

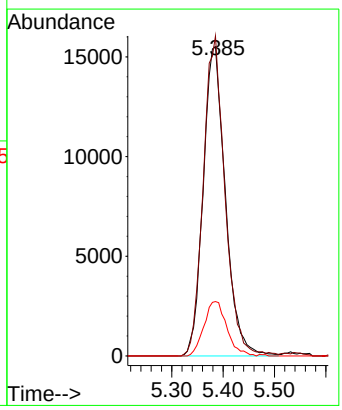


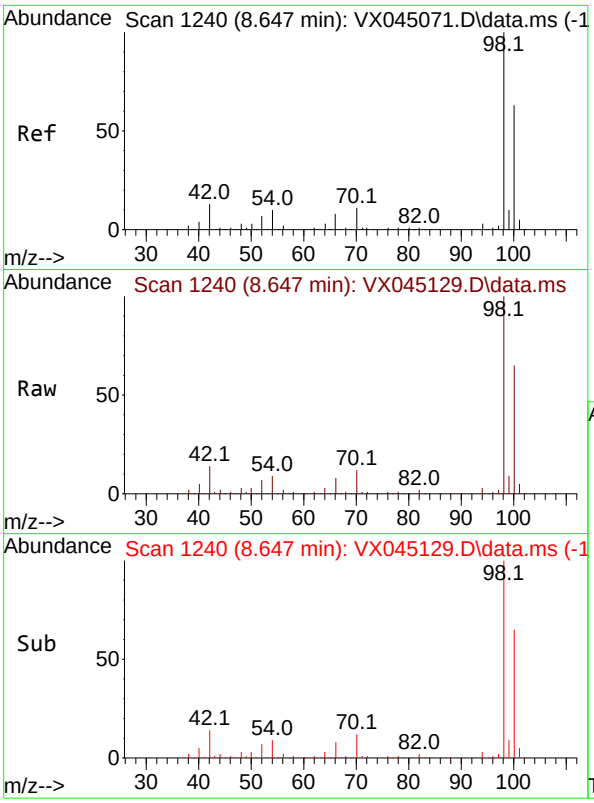


#35
Dibromofluoromethane
Concen: 50.976 ug/l
RT: 5.385 min Scan# 705
Delta R.T. -0.000 min
Lab File: VX045129.D
Acq: 05 Mar 2025 10:03

Tgt Ion:113 Resp: 46625

Ion	Ratio	Lower	Upper
113	100		
111	100.8	81.8	122.6
192	18.1	14.3	21.5



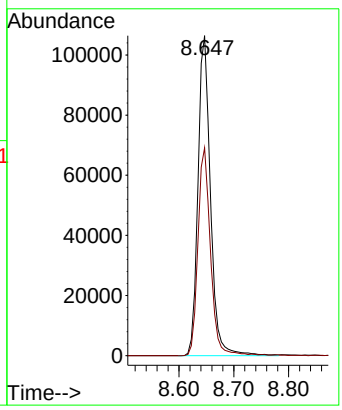


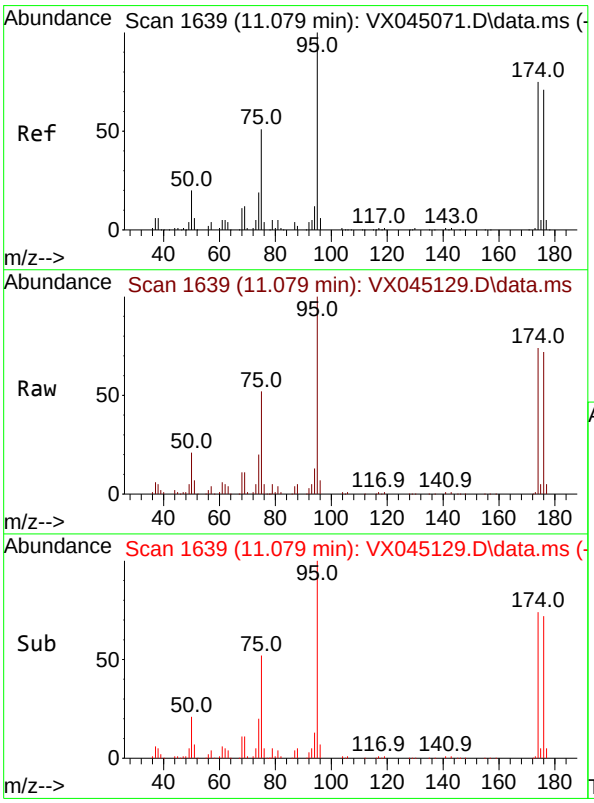
#50
Toluene-d8
Concen: 51.037 ug/l
RT: 8.647 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045129.D
Acq: 05 Mar 2025 10:03

Instrument :
MSVOA_X
ClientSampleId :
VX0305WBL01

Tgt Ion: 98 Resp: 169234

Ion	Ratio	Lower	Upper
98	100		
100	65.2	52.0	78.0

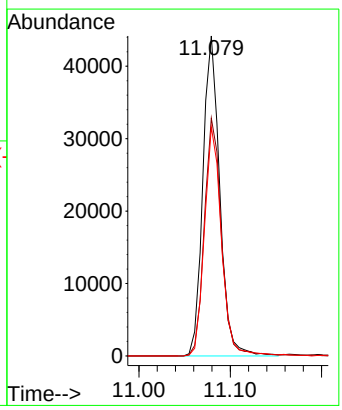


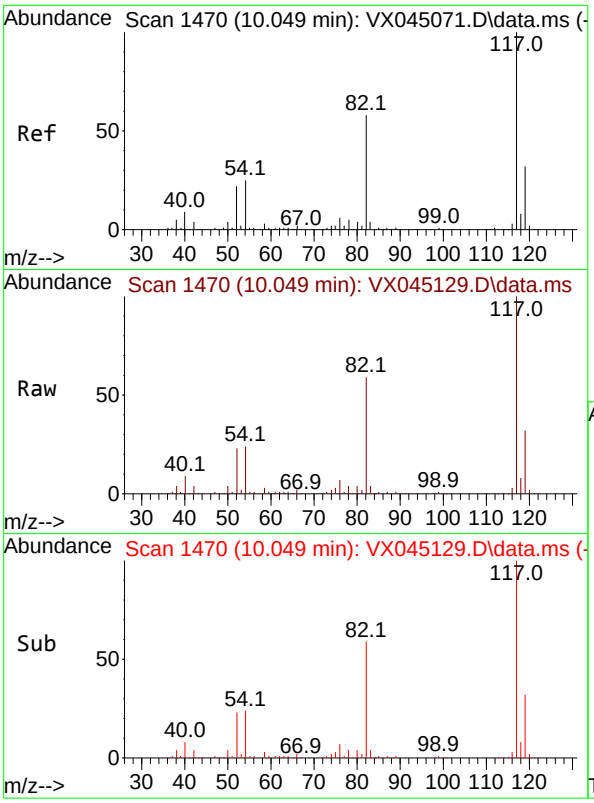


#62
4-Bromofluorobenzene
Concen: 51.482 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX045129.D
Acq: 05 Mar 2025 10:03

Tgt Ion: 95 Resp: 56568

Ion	Ratio	Lower	Upper
95	100		
174	75.6	0.0	148.2
176	72.4	0.0	141.4



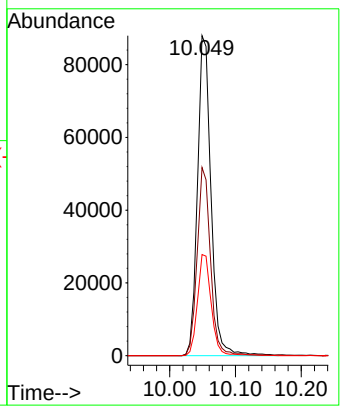


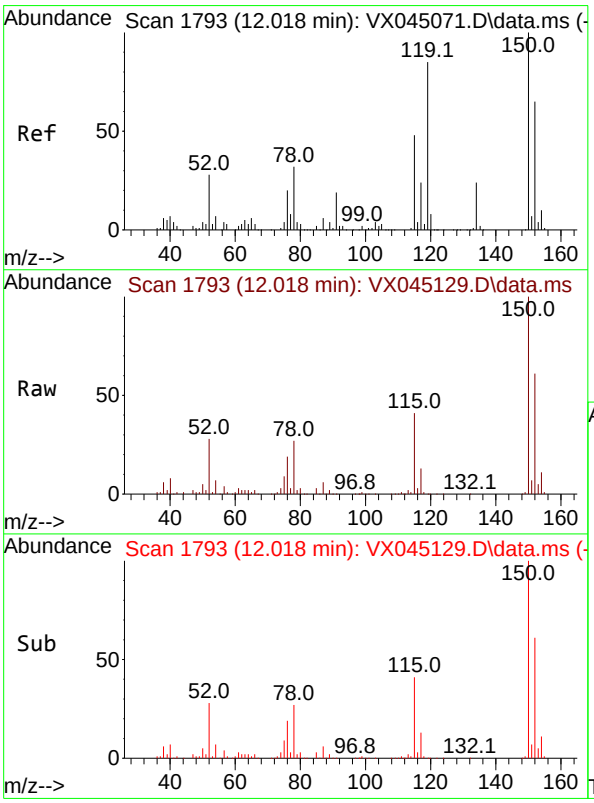
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045129.D
Acq: 05 Mar 2025 10:03

Instrument :
MSVOA_X
ClientSampleId :
VX0305WBL01

Tgt Ion:117 Resp: 125445

Ion	Ratio	Lower	Upper
117	100		
82	58.8	46.3	69.5
119	31.6	25.7	38.5

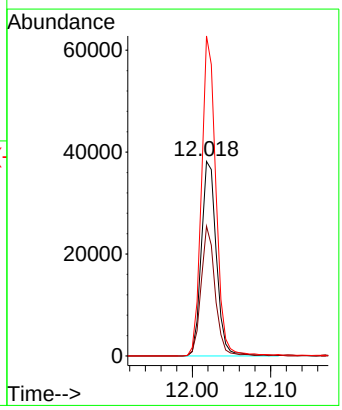




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX045129.D
Acq: 05 Mar 2025 10:03

Tgt Ion:152 Resp: 50961

Ion	Ratio	Lower	Upper
152	100		
115	62.2	44.2	132.6
150	158.0	0.0	349.0



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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger STC PTC Site # D3868221	Date Received:	
Client Sample ID:	VX0306WBL01	SDG No.:	Q1501
Lab Sample ID:	VX0306WBL01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045157.D	1		03/06/25 10:46	VX030625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	1.00	ug/L
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	1.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.9		70 (74) - 130 (125)	108%	SPK: 50
1868-53-7	Dibromofluoromethane	52.4		70 (75) - 130 (124)	105%	SPK: 50
2037-26-5	Toluene-d8	52.3		70 (86) - 130 (113)	105%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.8		70 (77) - 130 (121)	104%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	71200	5.544			
540-36-3	1,4-Difluorobenzene	140000	6.757			
3114-55-4	Chlorobenzene-d5	129000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	53700	12.024			

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\VX030625\
Data File : VX045157.D
Acq On : 06 Mar 2025 10:46
Operator : JC/MD
Sample : VX0306WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBL01

Quant Time: Mar 07 00:37:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene	5.544	168	71177	50.000 ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	139793	50.000 ug/l	0.00
63) Chlorobenzene-d5	10.049	117	129041	50.000 ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	53719	50.000 ug/l	0.00
System Monitoring Compounds					
33) 1,2-Dichloroethane-d4	5.952	65	61044	53.917 ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 107.840%		
35) Dibromofluoromethane	5.379	113	48946	52.362 ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.720%		
50) Toluene-d8	8.647	98	177288	52.315 ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 104.640%		
62) 4-Bromofluorobenzene	11.079	95	58160	51.792 ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 103.580%		

Target Compounds Qvalue

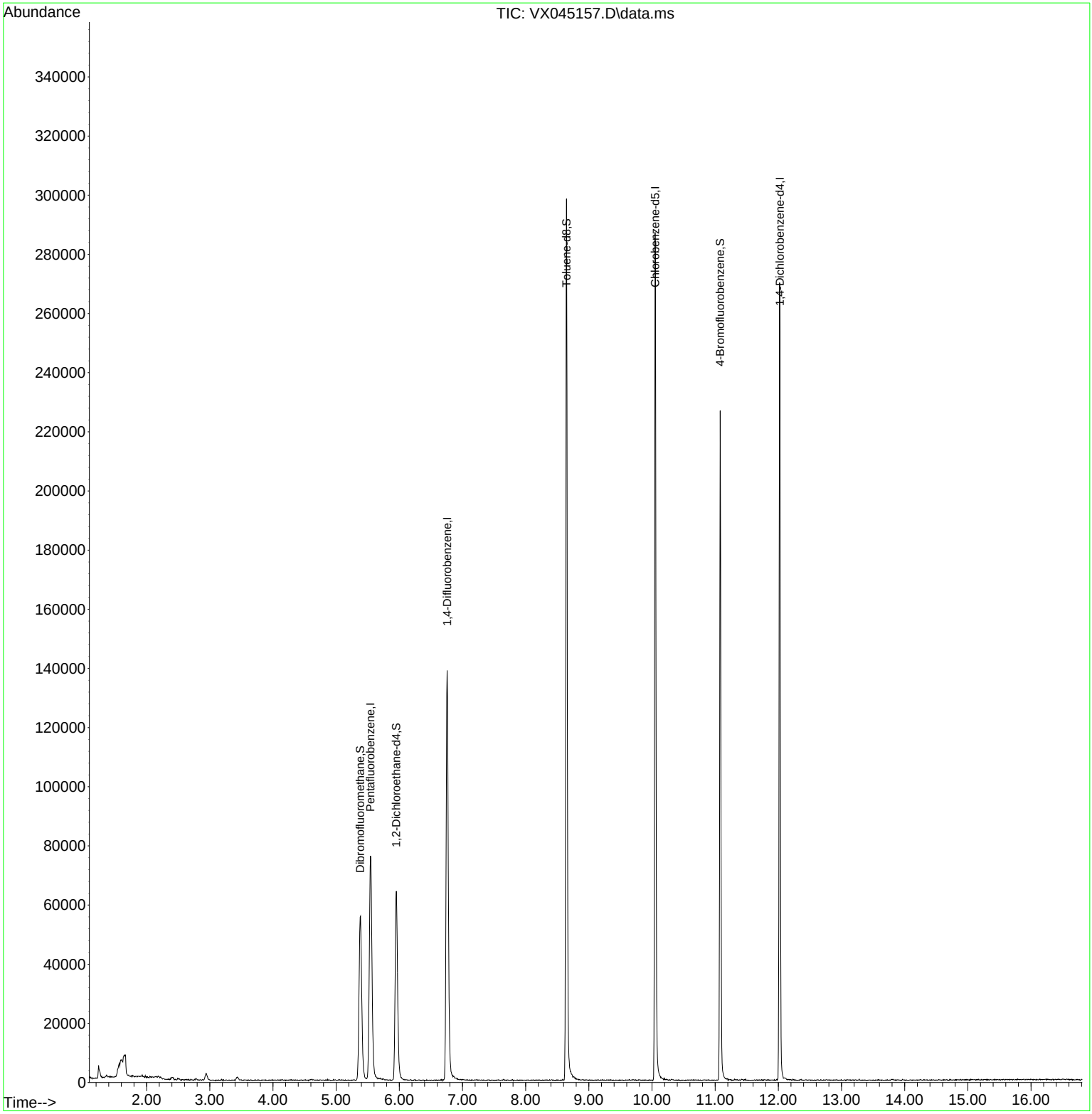
(#) = qualifier out of range (m) = manual integration (+) = signals summed

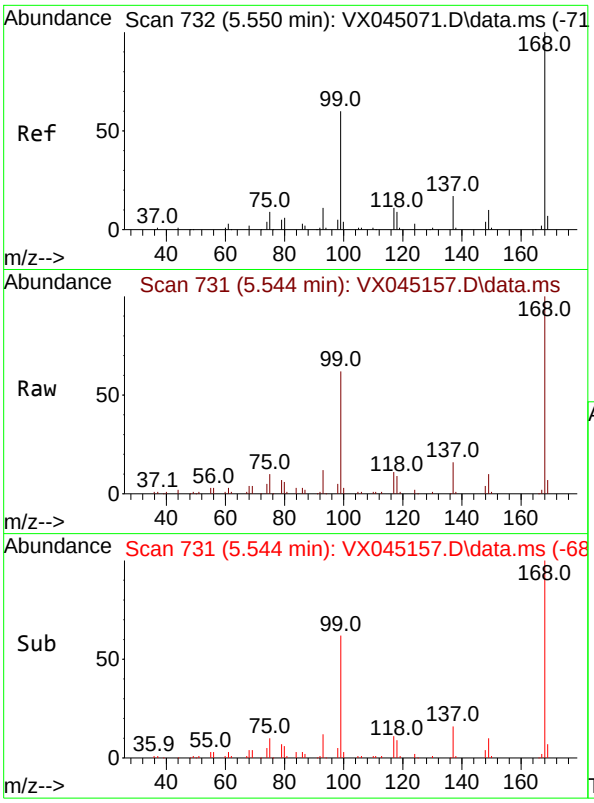
Sample Results: **VX045157.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
Data File : VX045157.D
Acq On : 06 Mar 2025 10:46
Operator : JC/MD
Sample : VX0306WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBL01

Quant Time: Mar 07 00:37:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration



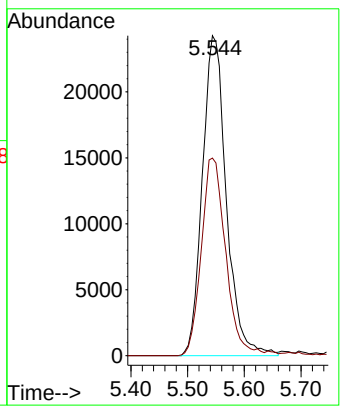


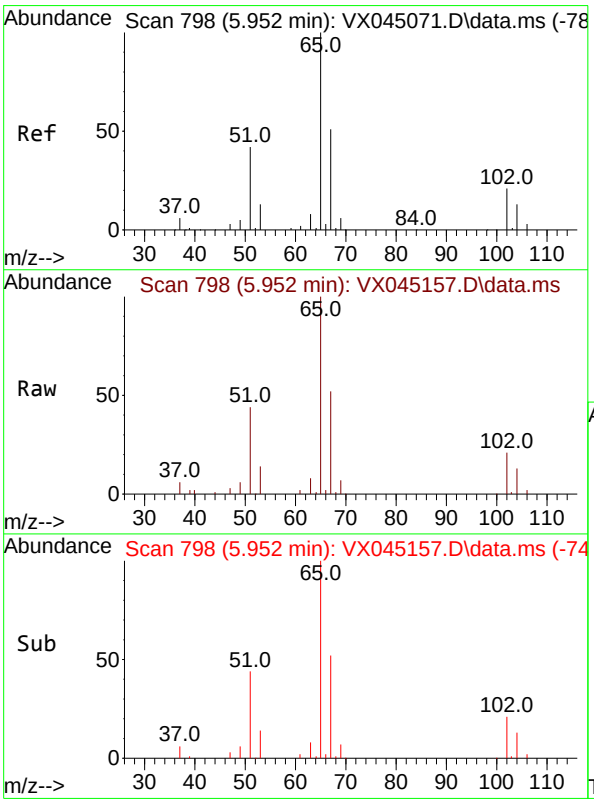
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045157.D
Acq: 06 Mar 2025 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBL01

Tgt Ion:168 Resp: 71177

Ion	Ratio	Lower	Upper
168	100		
99	61.8	48.2	72.4

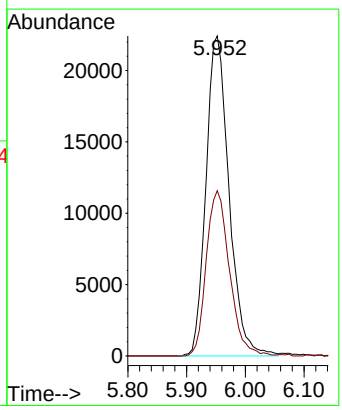


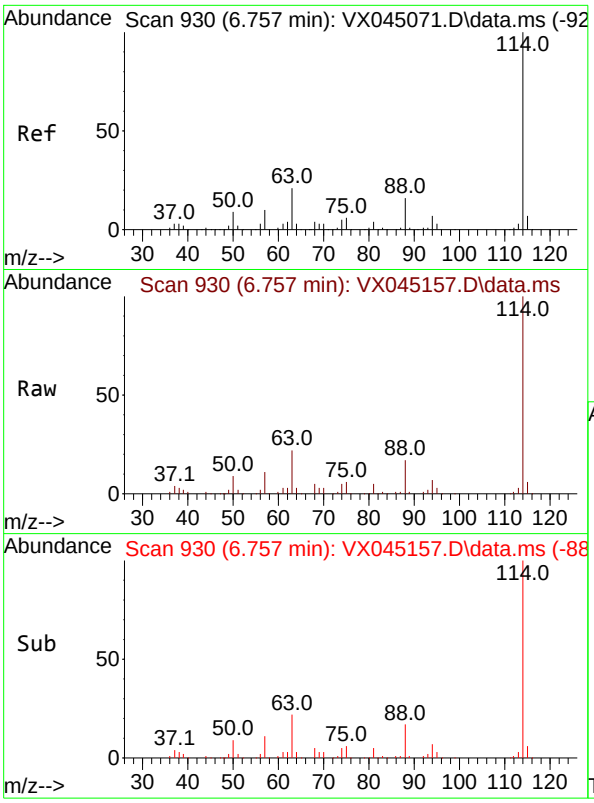


#33
1,2-Dichloroethane-d4
Concen: 53.917 ug/l
RT: 5.952 min Scan# 798
Delta R.T. 0.000 min
Lab File: VX045157.D
Acq: 06 Mar 2025 10:46

Tgt Ion: 65 Resp: 61044

Ion	Ratio	Lower	Upper
65	100		
67	52.1	0.0	106.2



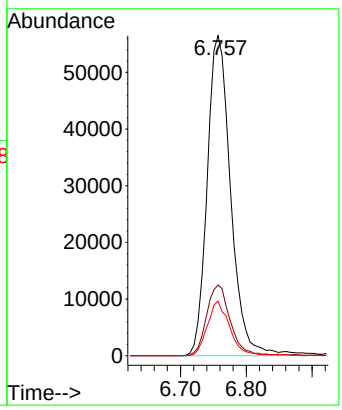


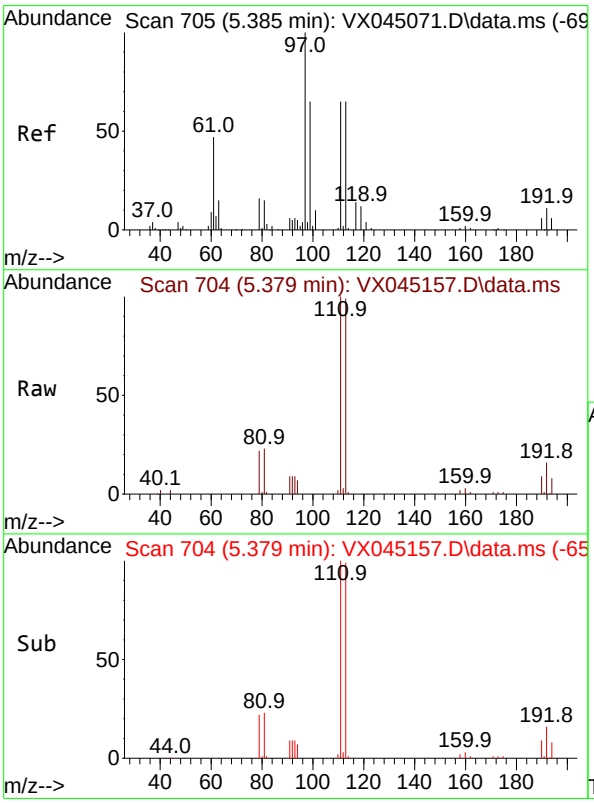
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 9
Delta R.T. 0.000 min
Lab File: VX045157.D
Acq: 06 Mar 2025 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBL01

Tgt Ion:114 Resp: 139793

Ion	Ratio	Lower	Upper
114	100		
63	22.1	0.0	41.8
88	17.1	0.0	32.8

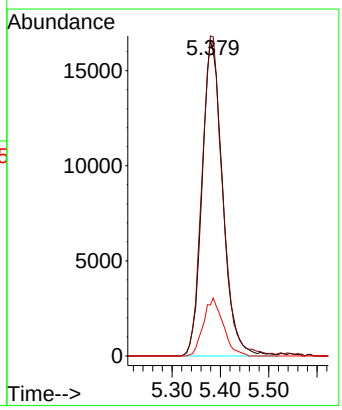


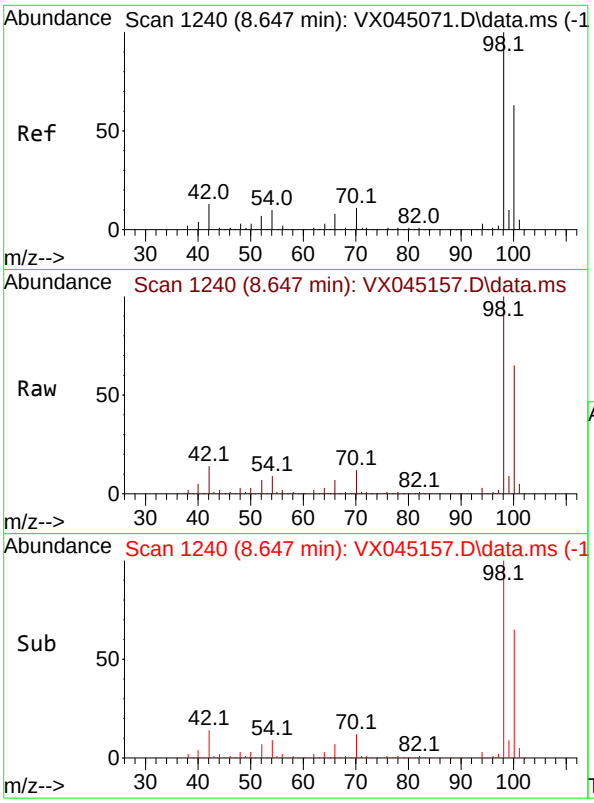


#35
Dibromofluoromethane
Concen: 52.362 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.006 min
Lab File: VX045157.D
Acq: 06 Mar 2025 10:46

Tgt Ion:113 Resp: 48946

Ion	Ratio	Lower	Upper
113	100		
111	101.8	81.8	122.6
192	17.7	14.3	21.5



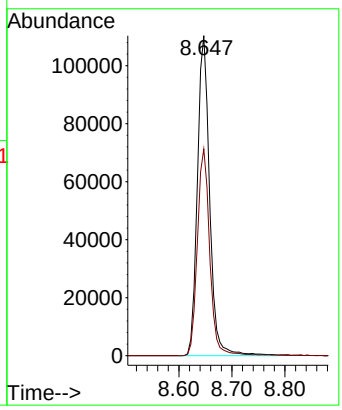


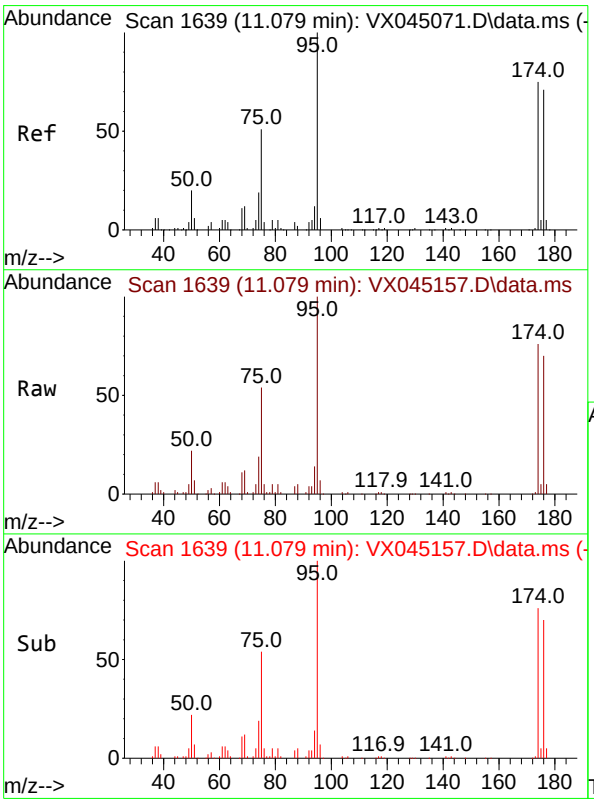
#50
Toluene-d8
Concen: 52.315 ug/l
RT: 8.647 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045157.D
Acq: 06 Mar 2025 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBL01

Tgt Ion: 98 Resp: 177288

Ion	Ratio	Lower	Upper
98	100		
100	65.5	52.0	78.0

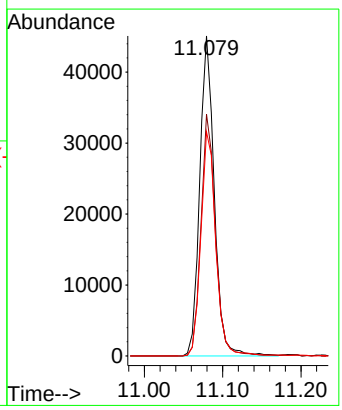


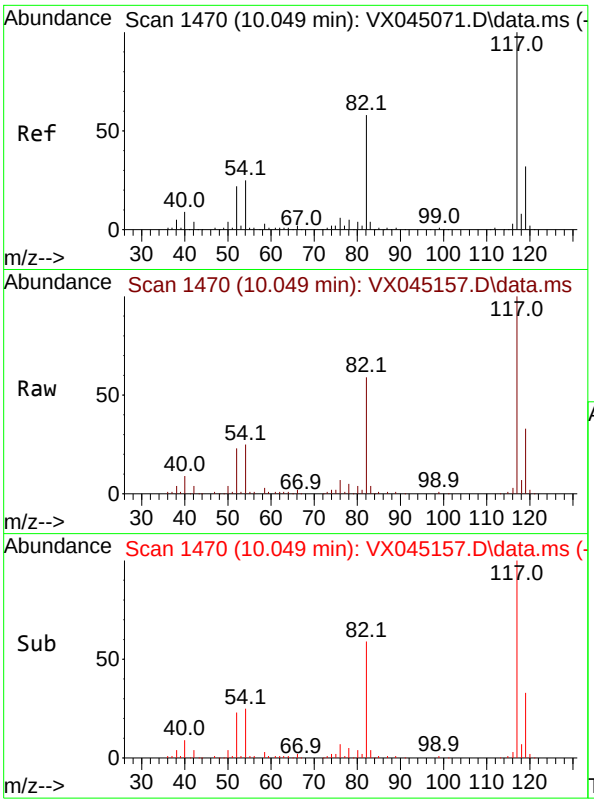


#62
4-Bromofluorobenzene
Concen: 51.792 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX045157.D
Acq: 06 Mar 2025 10:46

Tgt Ion: 95 Resp: 58160

Ion	Ratio	Lower	Upper
95	100		
174	75.2	0.0	148.2
176	71.7	0.0	141.4



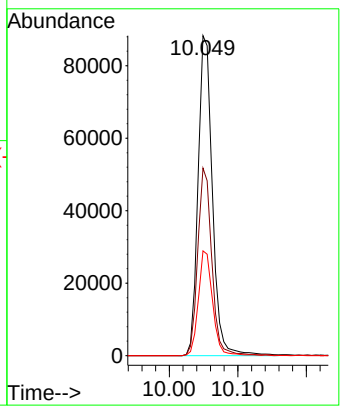


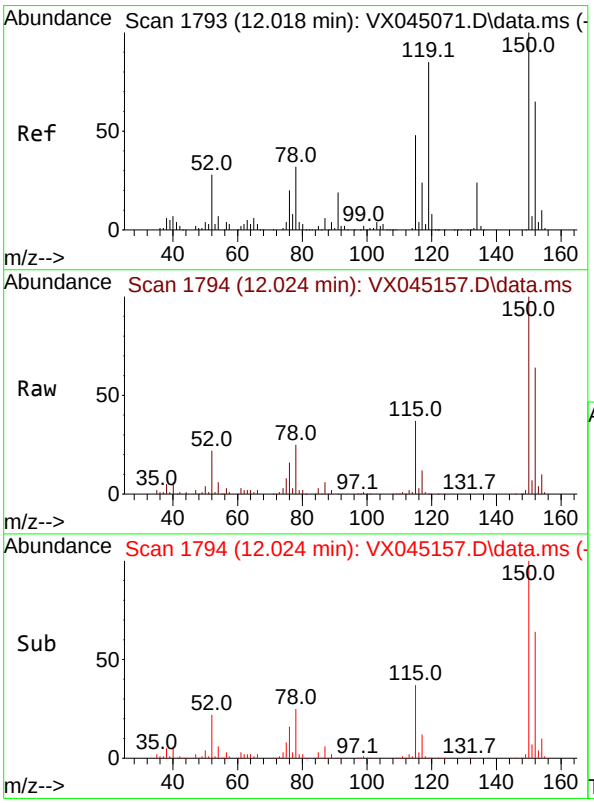
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045157.D
Acq: 06 Mar 2025 10:46

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBL01

Tgt Ion:117 Resp: 129041

Ion	Ratio	Lower	Upper
117	100		
82	58.6	46.3	69.5
119	32.8	25.7	38.5

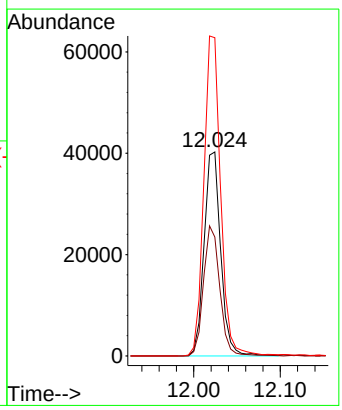




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.006 min
Lab File: VX045157.D
Acq: 06 Mar 2025 10:46

Tgt Ion:152 Resp: 53719

Ion	Ratio	Lower	Upper
152	100		
115	62.5	44.2	132.6
150	159.1	0.0	349.0



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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger STC PTC Site # D3868221	Date Received:	
Client Sample ID:	VX0305WBS01	SDG No.:	Q1501
Lab Sample ID:	VX0305WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045130.D	1		03/05/25 10:26	VX030525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	16.6		0.34	1.00	ug/L
75-35-4	1,1-Dichloroethene	17.5		0.26	1.00	ug/L
75-34-3	1,1-Dichloroethane	17.5		0.23	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	17.7		0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	17.8		0.19	1.00	ug/L
71-43-2	Benzene	18.2		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	17.8		0.24	1.00	ug/L
79-01-6	Trichloroethene	17.5		0.32	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	17.8		0.21	1.00	ug/L
127-18-4	Tetrachloroethene	18.5		0.25	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.4		70 (74) - 130 (125)	97%	SPK: 50
1868-53-7	Dibromofluoromethane	49.3		70 (75) - 130 (124)	99%	SPK: 50
2037-26-5	Toluene-d8	50.0		70 (86) - 130 (113)	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.5		70 (77) - 130 (121)	99%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	98800	5.544			
540-36-3	1,4-Difluorobenzene	178000	6.757			
3114-55-4	Chlorobenzene-d5	153000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	68700	12.018			

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\VX030525\
Data File : VX045130.D
Acq On : 05 Mar 2025 10:26
Operator : JC/MD
Sample : VX0305WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 06 01:00:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0305WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene	5.544	168	98769	50.000 ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	177910	50.000 ug/l	0.00
63) Chlorobenzene-d5	10.055	117	153160	50.000 ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	68669	50.000 ug/l	0.00
System Monitoring Compounds					
33) 1,2-Dichloroethane-d4	5.952	65	75979	48.361 ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 96.720%		
35) Dibromofluoromethane	5.379	113	58696	49.339 ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.680%		
50) Toluene-d8	8.647	98	215565	49.982 ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.960%		
62) 4-Bromofluorobenzene	11.079	95	70764	49.515 ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 99.020%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.166	85	21481	17.278 ug/l	96
3) Chloromethane	1.307	50	26225	17.236 ug/l	99
4) Vinyl Chloride	1.374	62	25102	16.631 ug/l	94
5) Bromomethane	1.593	94	10069	16.970 ug/l	99
6) Chloroethane	1.660	64	10788	15.496 ug/l	100
7) Trichlorofluoromethane	1.867	101	36124	18.079 ug/l	97
8) Diethyl Ether	2.136	74	12688	16.235 ug/l	95
9) 1,1,2-Trichlorotrifluo...	2.312	101	21877	19.058 ug/l	98
10) Methyl Iodide	2.441	142	25051	17.462 ug/l	99
11) Tert butyl alcohol	2.995	59	20837	70.020 ug/l	97
12) 1,1-Dichloroethene	2.306	96	21299	17.549 ug/l	98
13) Acrolein	2.239	56	32376	94.116 ug/l	99
14) Allyl chloride	2.654	41	38481	17.812 ug/l	97
15) Acrylonitrile	3.068	53	69973	87.734 ug/l	100
16) Acetone	2.386	43	60954	83.622 ug/l	97
17) Carbon Disulfide	2.495	76	51693	15.991 ug/l	98
18) Methyl Acetate	2.709	43	32206	18.366 ug/l	100
19) Methyl tert-butyl Ether	3.117	73	69964	17.182 ug/l	97
20) Methylene Chloride	2.782	84	24882	17.232 ug/l	93
21) trans-1,2-Dichloroethene	3.081	96	21772	18.158 ug/l	93
22) Diisopropyl ether	3.763	45	78201	17.799 ug/l	95
23) Vinyl Acetate	3.721	43	321815	87.770 ug/l	99
24) 1,1-Dichloroethane	3.605	63	43208	17.547 ug/l	98
25) 2-Butanone	4.562	43	97011	88.416 ug/l	95
26) 2,2-Dichloropropane	4.471	77	29281	25.352 ug/l	98
27) cis-1,2-Dichloroethene	4.489	96	26173	17.683 ug/l	97
28) Bromochloromethane	4.891	49	24801	21.131 ug/l	98
29) Tetrahydrofuran	5.007	42	63896	86.717 ug/l	100
30) Chloroform	5.086	83	43030	17.587 ug/l	99
31) Cyclohexane	5.458	56	39502	18.481 ug/l	96
32) 1,1,1-Trichloroethane	5.373	97	35212	17.819 ug/l	99
36) 1,1-Dichloropropene	5.684	75	28601	17.531 ug/l	98
37) Ethyl Acetate	4.721	43	35651	16.958 ug/l	99
38) Carbon Tetrachloride	5.672	117	29823	18.005 ug/l	94
39) Methylcyclohexane	7.379	83	37321	19.091 ug/l	97
40) Benzene	6.031	78	93693	18.186 ug/l	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030525\
Data File : VX045130.D
Acq On : 05 Mar 2025 10:26
Operator : JC/MD
Sample : VX0305WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 06 01:00:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0305WBS01

Manual Integrations
APPROVED
Reviewed By :John Carlone 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	4.922	41	19884	17.492 ug/l	99
42) 1,2-Dichloroethane	6.080	62	33034	17.806 ug/l	100
43) Isopropyl Acetate	6.342	43	53751	17.291 ug/l	99
44) Trichloroethene	7.123	130	21228	17.548 ug/l	98
45) 1,2-Dichloropropane	7.427	63	23229	17.537 ug/l	100
46) Dibromomethane	7.580	93	16830	17.976 ug/l	100
47) Bromodichloromethane	7.818	83	32751	17.834 ug/l	100
48) Methyl methacrylate	7.696	41	27005	17.316 ug/l	100
49) 1,4-Dioxane	7.671	88	11794	358.508 ug/l	99
51) 4-Methyl-2-Pentanone	8.574	43	186745	89.468 ug/l	99
52) Toluene	8.714	92	55728	18.437 ug/l	98
53) t-1,3-Dichloropropene	8.976	75	27299	17.782 ug/l	98
54) cis-1,3-Dichloropropene	8.366	75	32740	18.288 ug/l	98
55) 1,1,2-Trichloroethane	9.153	97	22188	17.831 ug/l	99
56) Ethyl methacrylate	9.116	69	31725	16.772 ug/l	97
57) 1,3-Dichloropropane	9.305	76	38444	17.852 ug/l	99
58) 2-Chloroethyl Vinyl ether	8.238	63	91212	98.854 ug/l	99
59) 2-Hexanone	9.433	43	134690	89.062 ug/l	100
60) Dibromochloromethane	9.519	129	22271	17.117 ug/l	98
61) 1,2-Dibromoethane	9.610	107	22232	17.897 ug/l	98
64) Tetrachloroethene	9.269	164	18169	18.522 ug/l	94
65) Chlorobenzene	10.079	112	60057	18.531 ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.159	131	18881	17.494 ug/l	98
67) Ethyl Benzene	10.195	91	104623	18.527 ug/l	98
68) m/p-Xylenes	10.299	106	79227	38.326 ug/l	98
69) o-Xylene	10.640	106	38603	18.515 ug/l	98
70) Styrene	10.652	104	62119	18.414 ug/l	100
71) Bromoform	10.799	173	14223	17.476 ug/l #	99
73) Isopropylbenzene	10.963	105	99357	18.537 ug/l	99
74) N-amyl acetate	10.841	43	43022	17.106 ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.213	83	34410	17.495 ug/l	97
76) 1,2,3-Trichloropropane	11.238	75	31073m	19.442 ug/l	
77) Bromobenzene	11.201	156	22526	17.813 ug/l	98
78) n-propylbenzene	11.305	91	111961	18.492 ug/l	99
79) 2-Chlorotoluene	11.366	91	67983	17.631 ug/l	98
80) 1,3,5-Trimethylbenzene	11.451	105	81071	18.707 ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	7585	16.241 ug/l	87
82) 4-Chlorotoluene	11.451	91	75650	18.001 ug/l	99
83) tert-Butylbenzene	11.713	119	80170	18.004 ug/l	99
84) 1,2,4-Trimethylbenzene	11.750	105	80507	18.462 ug/l	98
85) sec-Butylbenzene	11.890	105	100051	18.757 ug/l	100
86) p-Isopropyltoluene	12.006	119	81717	18.957 ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	41421	18.360 ug/l	99
88) 1,4-Dichlorobenzene	12.042	146	41624	18.237 ug/l	98
89) n-Butylbenzene	12.329	91	68722	18.510 ug/l	99
90) Hexachloroethane	12.536	117	13358	17.133 ug/l	97
91) 1,2-Dichlorobenzene	12.335	146	41178	18.196 ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.939	75	6446	16.822 ug/l	96
93) 1,2,4-Trichlorobenzene	13.585	180	23221	18.020 ug/l	100
94) Hexachlorobutadiene	13.725	225	9699	18.359 ug/l	98
95) Naphthalene	13.774	128	89255	18.028 ug/l	100
96) 1,2,3-Trichlorobenzene	13.963	180	25405	18.688 ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030525\
Data File : VX045130.D
Acq On : 05 Mar 2025 10:26
Operator : JC/MD
Sample : VX0305WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 06 01:00:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0305WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025

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

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

Sample Results: **VX045130.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030525\
Data File : VX045130.D
Acq On : 05 Mar 2025 10:26
Operator : JC/MD
Sample : VX0305WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 06 01:00:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0305WBS01

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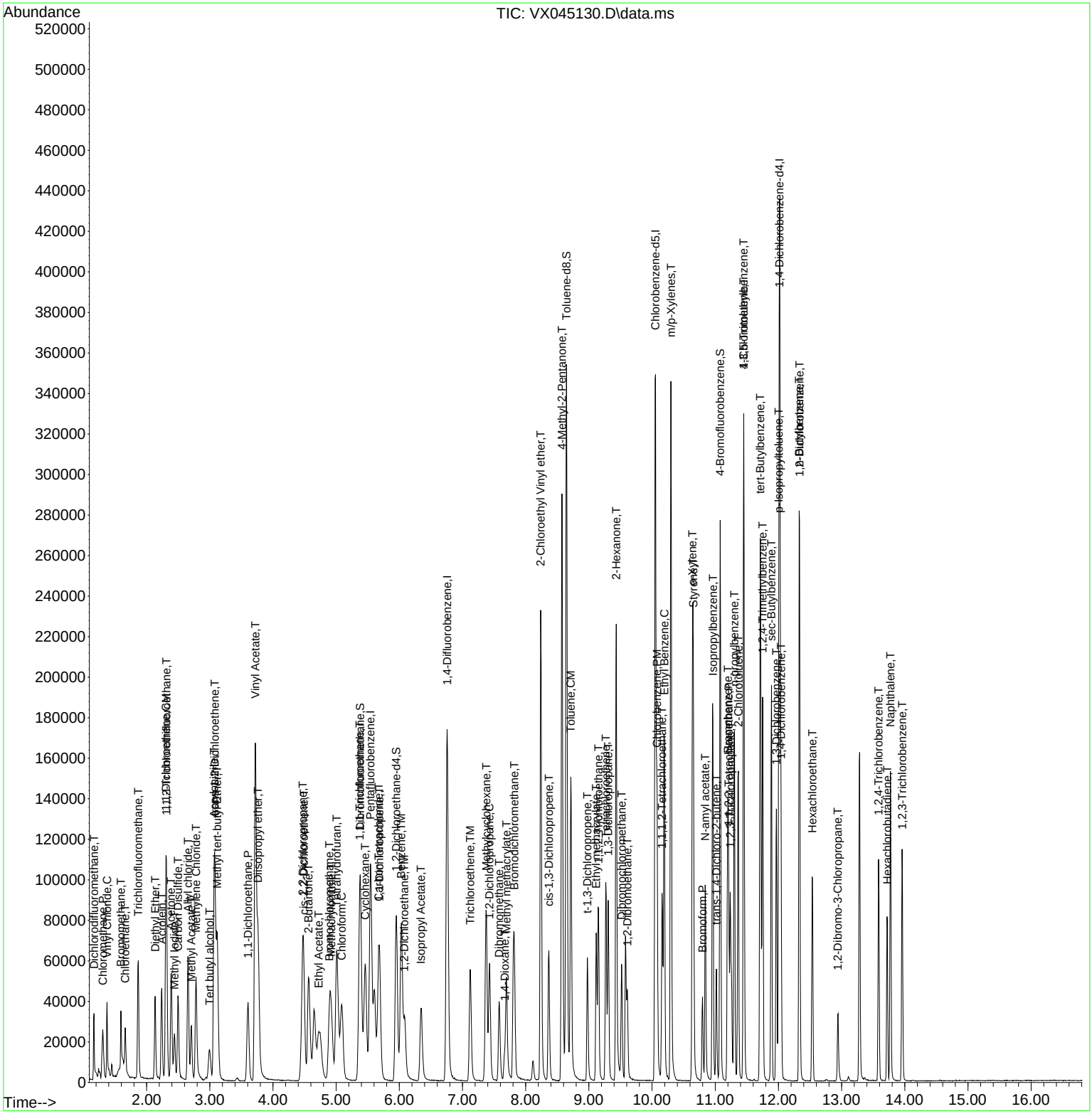

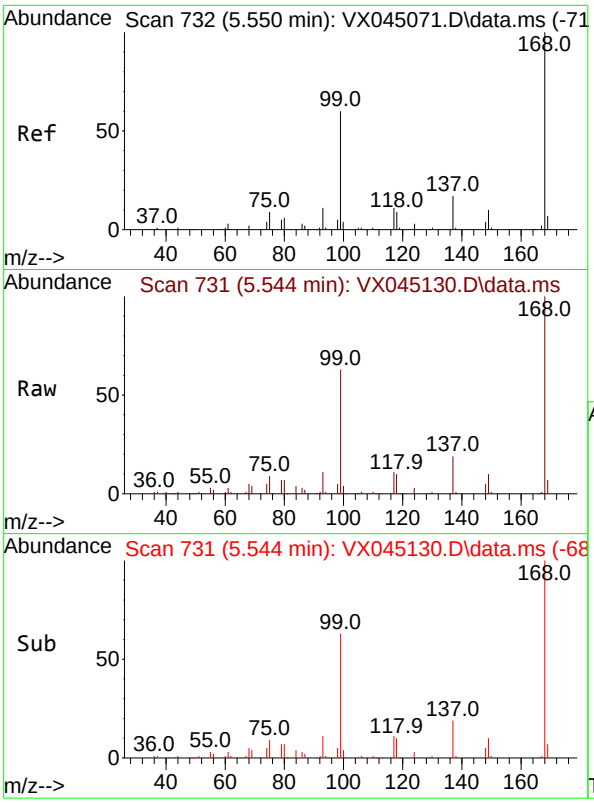

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion:168 Resp: 9876

Ion	Ratio	Lower	Upper
168	100		
99	63.2	48.2	72.4

Instrument :
MSVOA_X
ClientSampleId :
VX0305WBS01

Manual Integrations
APPROVED

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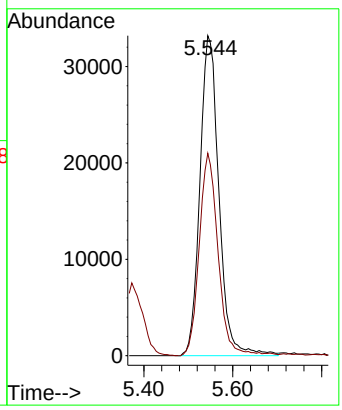
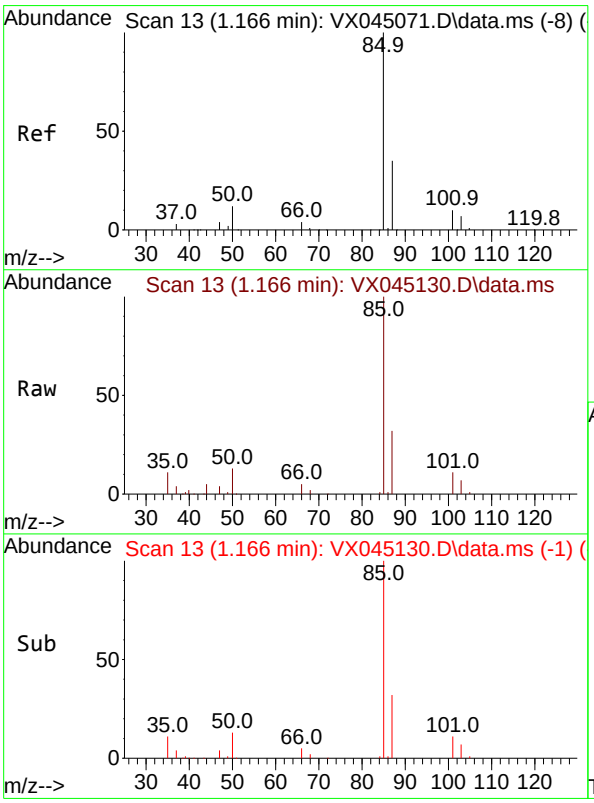
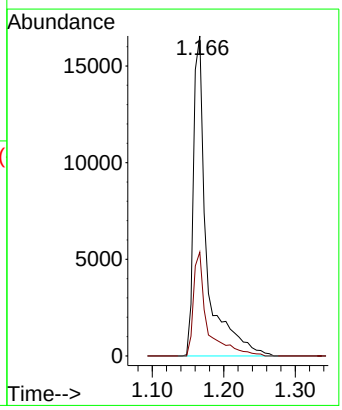


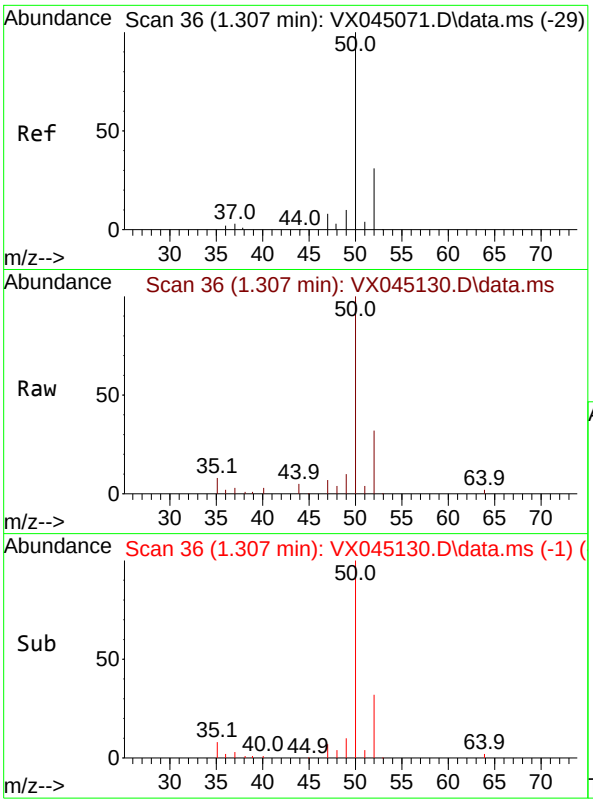


#2
Dichlorodifluoromethane
Concen: 17.278 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion: 85 Resp: 21481

Ion	Ratio	Lower	Upper
85	100		
87	32.5	17.4	52.3





#3
Chloromethane
Concen: 17.236 ug/l
RT: 1.307 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion: 50 Resp: 2622

Ion	Ratio	Lower	Upper
50	100		
52	31.8	25.0	37.4

Instrument :
MSVOA_X
ClientSampleId :
VX0305WBS01

Manual Integrations
APPROVED

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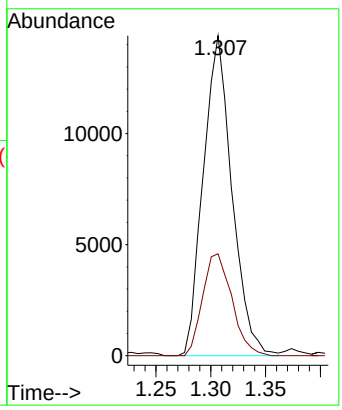
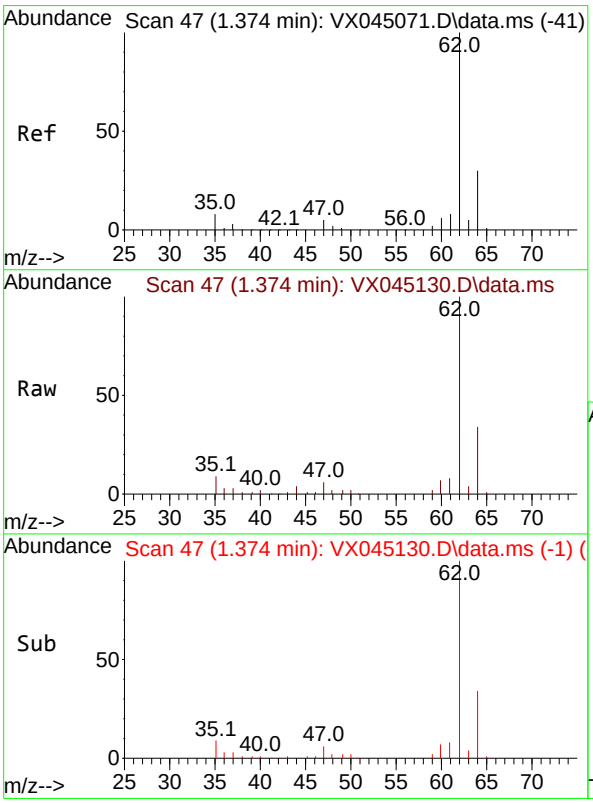
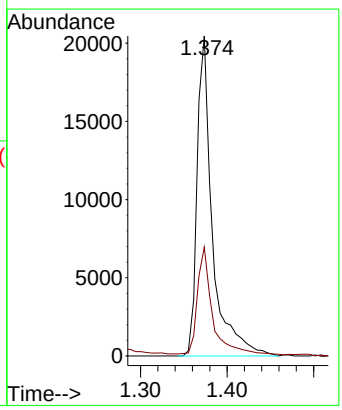


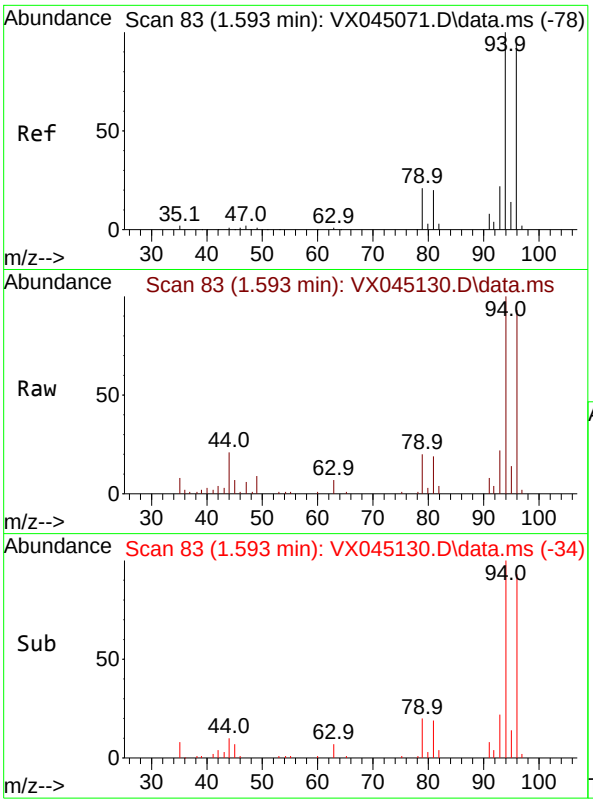


#4
Vinyl Chloride
Concen: 16.631 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion: 62 Resp: 25102

Ion	Ratio	Lower	Upper
62	100		
64	33.5	24.3	36.5





#5
Bromomethane
Concen: 16.970 ug/l
RT: 1.593 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion: 94 Resp: 1006

Ion	Ratio	Lower	Upper
94	100		
96	92.6	75.0	112.4

Instrument :
MSVOA_X
ClientSampleId :
VX0305WBS01

Manual Integrations
APPROVED

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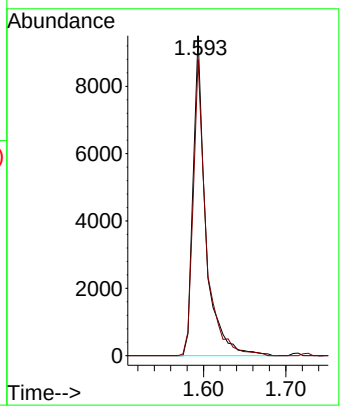
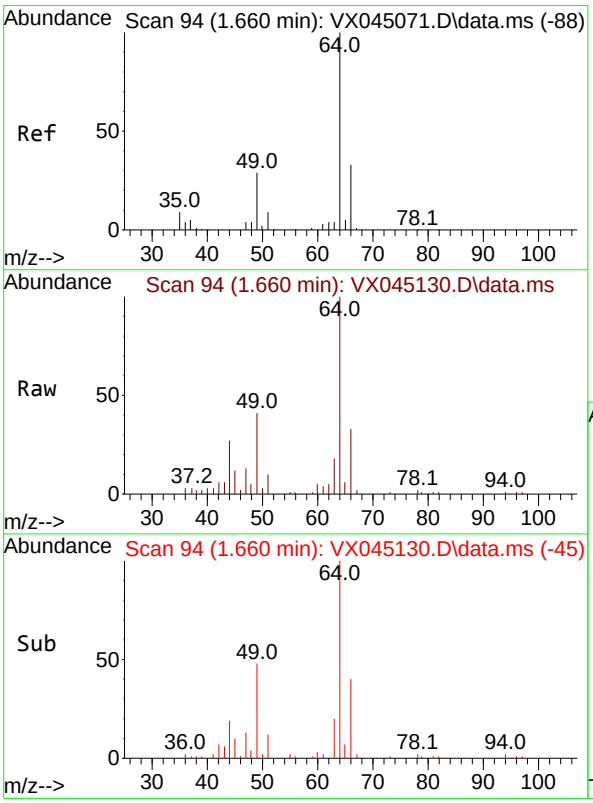
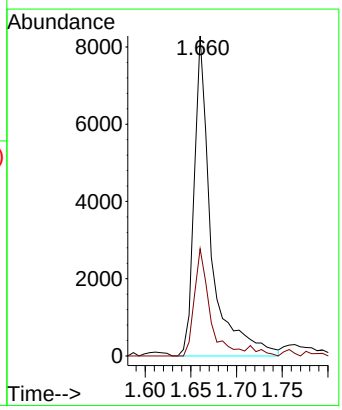


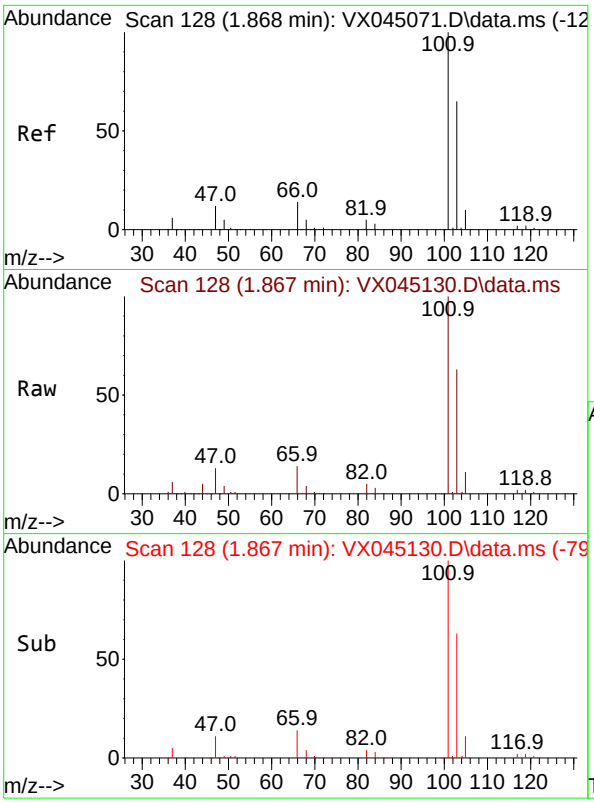


#6
Chloroethane
Concen: 15.496 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.000 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion: 64 Resp: 10788

Ion	Ratio	Lower	Upper
64	100		
66	33.5	26.7	40.1





#7
Trichlorofluoromethane
Concen: 18.079 ug/l
RT: 1.867 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion:101 Resp: 3612

Ion	Ratio	Lower	Upper
101	100		
103	62.7	52.1	78.1

Instrument :
MSVOA_X
ClientSampleId :
VX0305WBS01

Manual Integrations
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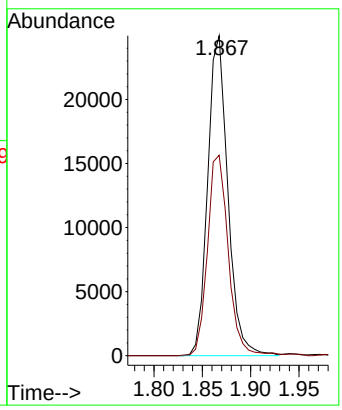
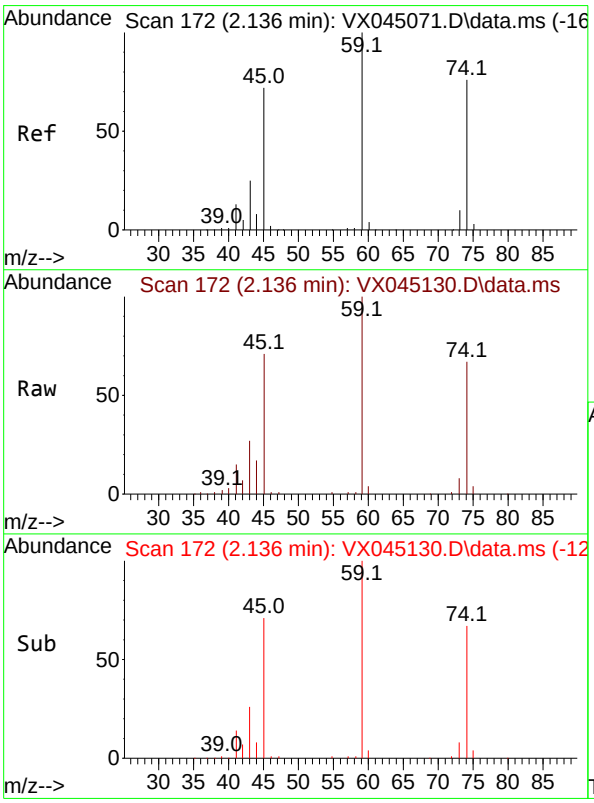
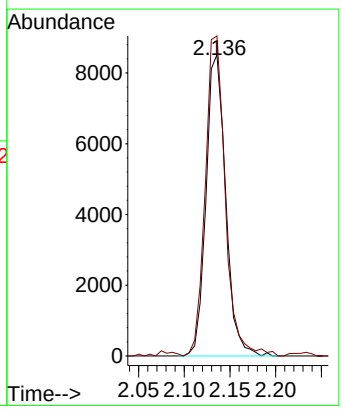


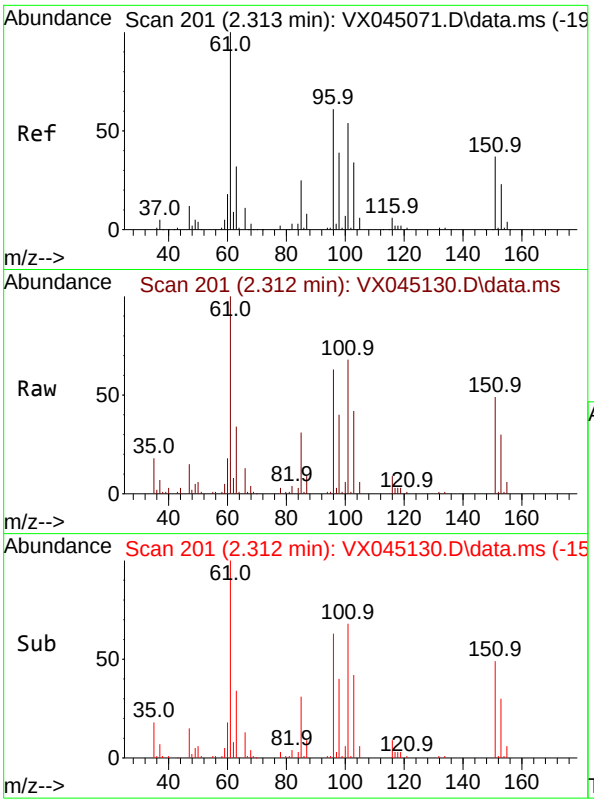


#8
Diethyl Ether
Concen: 16.235 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion: 74 Resp: 12688

Ion	Ratio	Lower	Upper
74	100		
45	108.3	51.5	154.5





#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.058 ug/l
RT: 2.312 min Scan# 2(
Delta R.T. -0.000 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Instrument :
MSVOA_X
ClientSampleId :
VX0305WBS01

Tgt Ion:101 Resp: 2187

Ion	Ratio	Lower	Upper
101	100		
85	46.0	36.2	54.4
151	72.6	56.4	84.6

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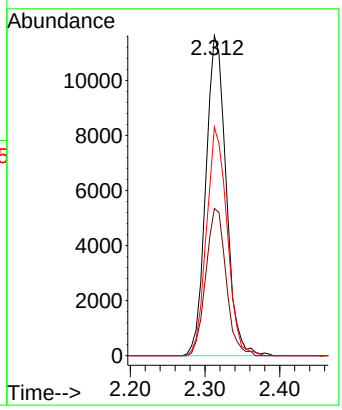
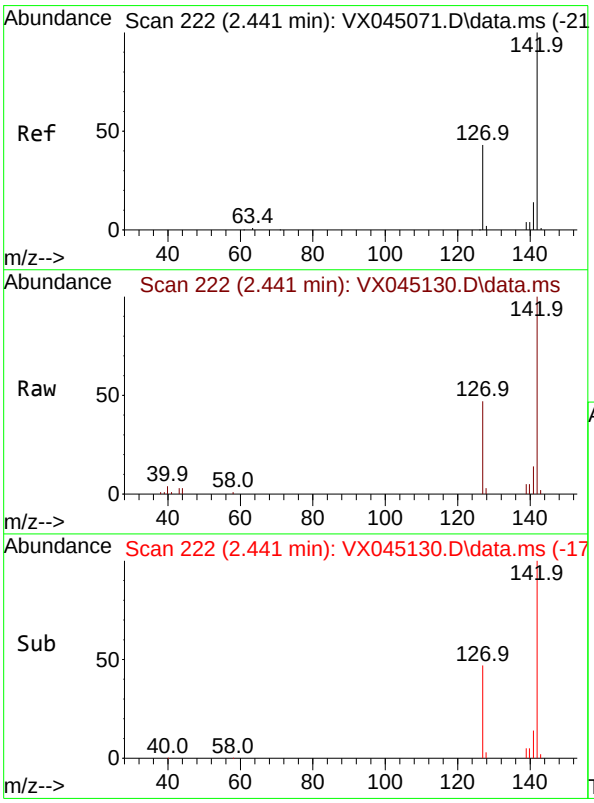
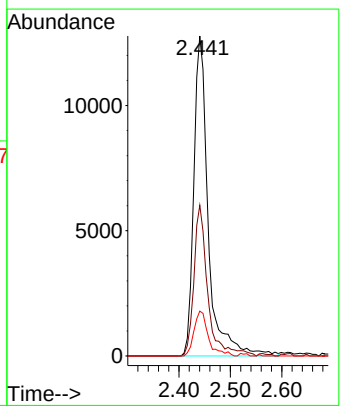


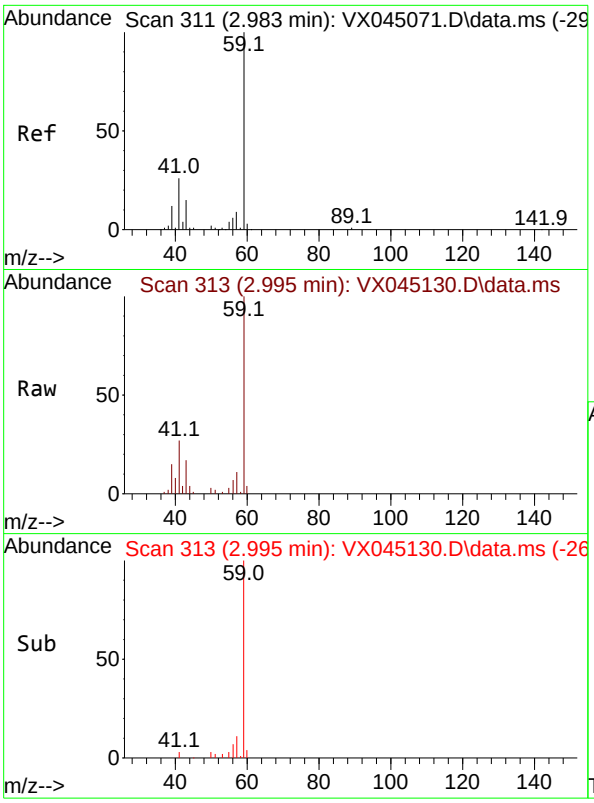


#10
Methyl Iodide
Concen: 17.462 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.000 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion:142 Resp: 25051

Ion	Ratio	Lower	Upper
142	100		
127	44.8	35.4	53.2
141	13.8	11.6	17.4





#11
Tert butyl alcohol
Concen: 70.020 ug/l
RT: 2.995 min Scan# 3
Delta R.T. 0.012 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion: 59 Resp: 2083

Ion	Ratio	Lower	Upper
59	100		
57	11.0	7.8	11.8

Instrument :
MSVOA_X
ClientSampleId :
VX0305WBS01

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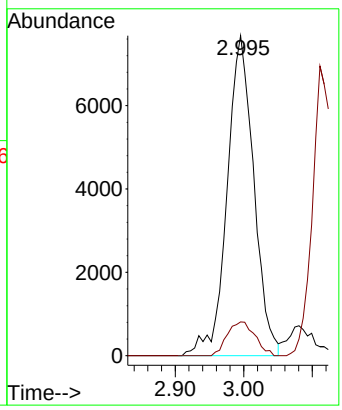
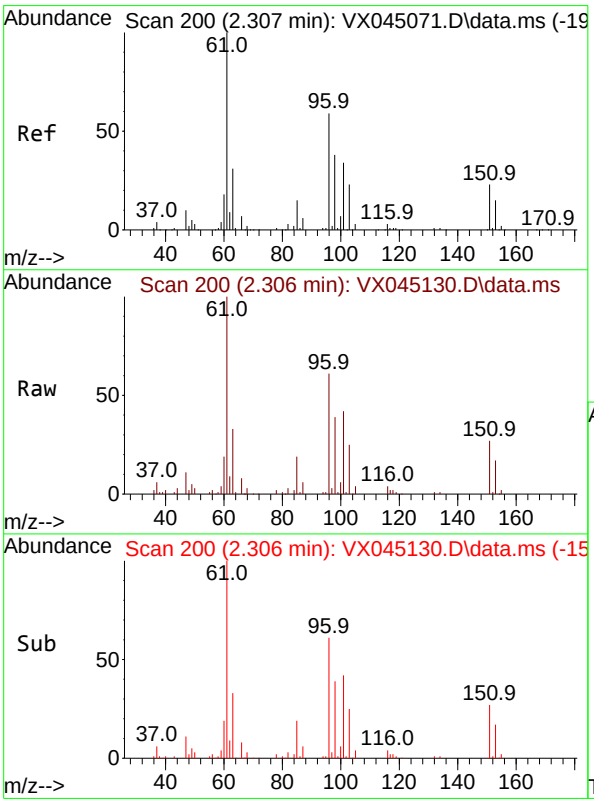
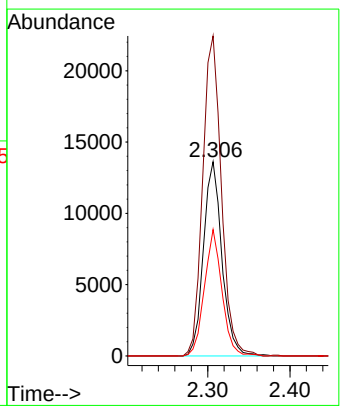


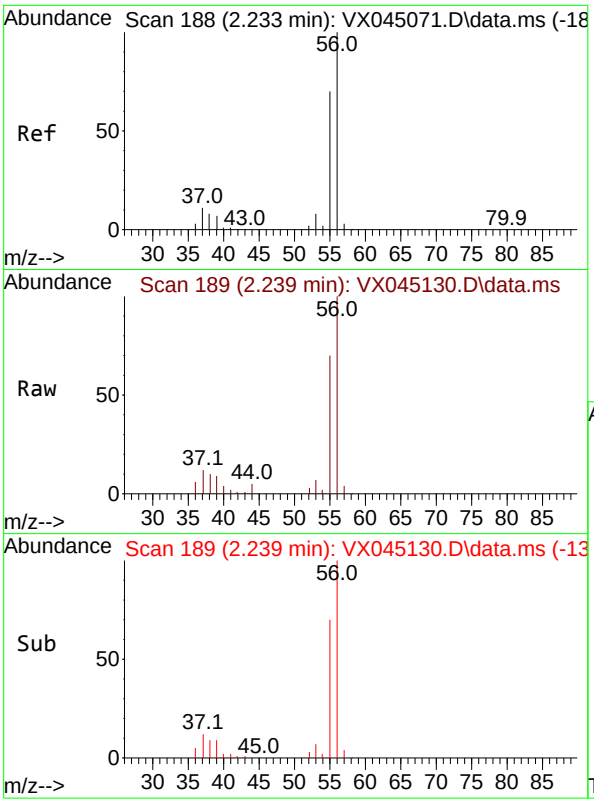


#12
1,1-Dichloroethene
Concen: 17.549 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.000 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion: 96 Resp: 21299

Ion	Ratio	Lower	Upper
96	100		
61	164.7	134.6	202.0
98	65.0	51.0	76.6





#13
Acrolein
Concen: 94.116 ug/l
RT: 2.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion: 56 Resp: 3237

Ion	Ratio	Lower	Upper
56	100		
55	71.2	56.2	84.4

Instrument :
MSVOA_X
ClientSampleId :
VX0305WBS01

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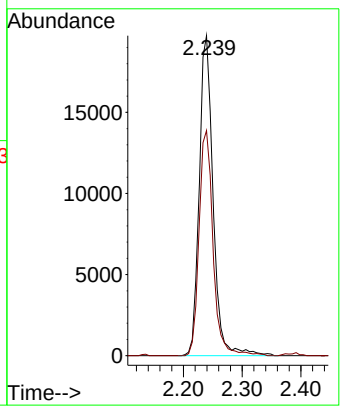
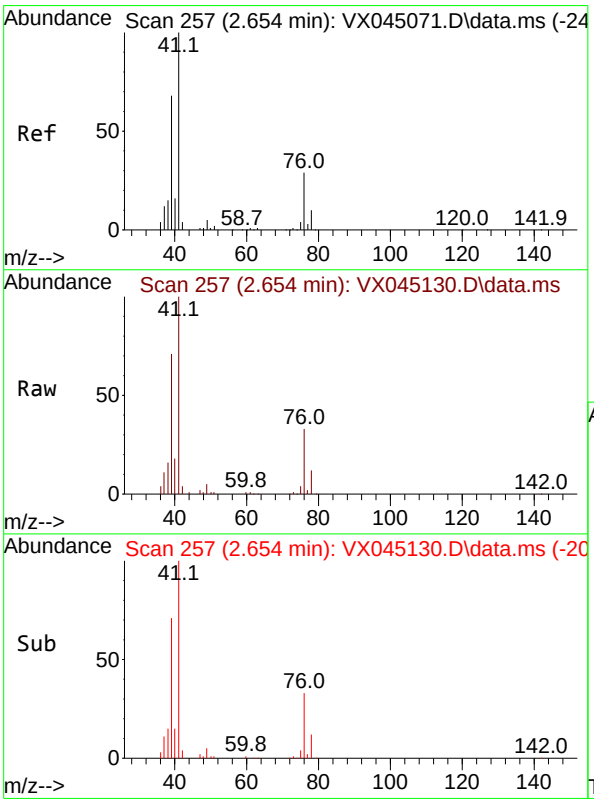
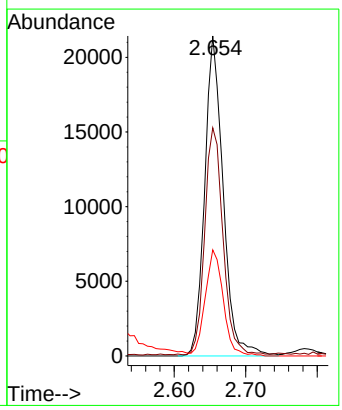


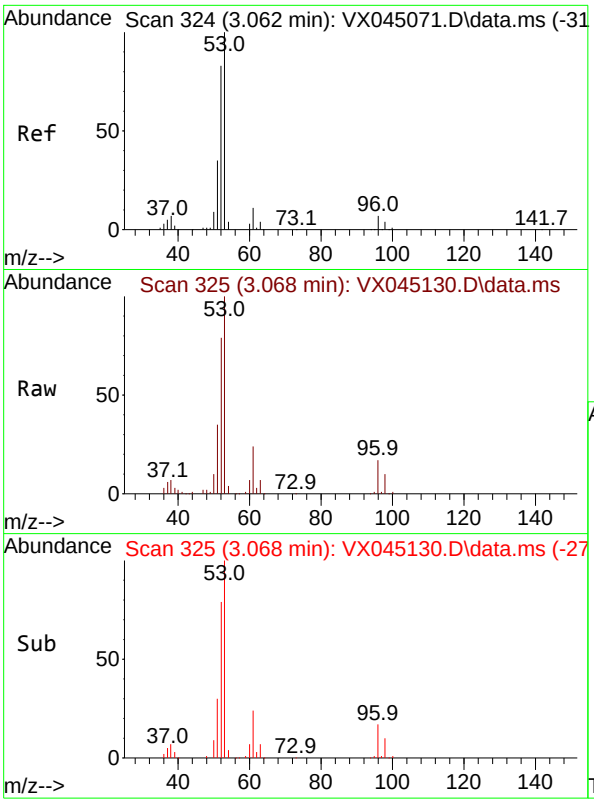


#14
Allyl chloride
Concen: 17.812 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion: 41 Resp: 38481

Ion	Ratio	Lower	Upper
41	100		
39	69.7	53.8	80.8
76	32.4	25.2	37.8





#15
Acrylonitrile
Concen: 87.734 ug/l
RT: 3.068 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

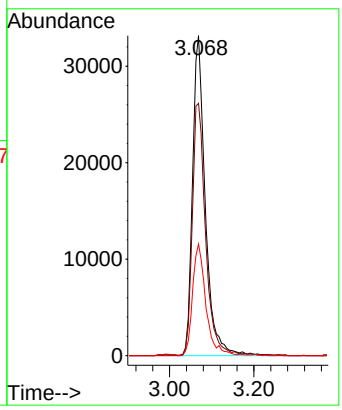
Tgt Ion: 53 Resp: 6997

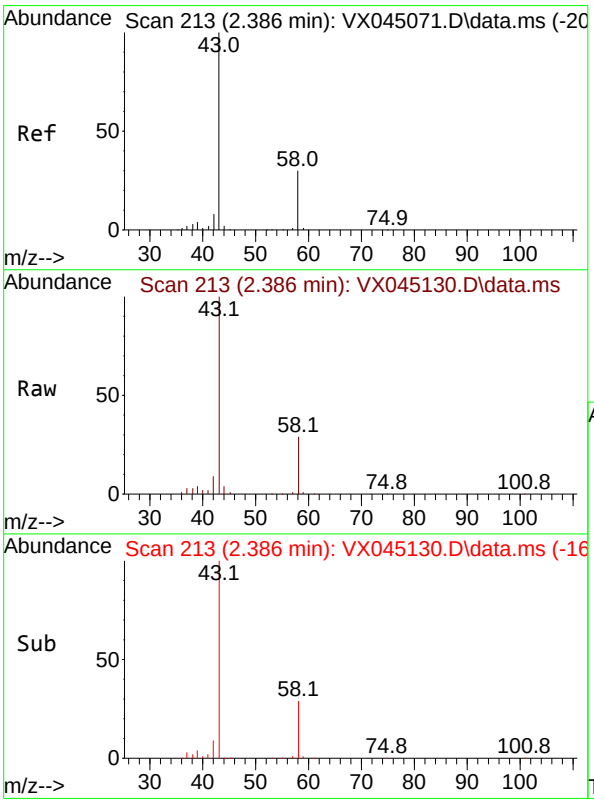
Ion	Ratio	Lower	Upper
53	100		
52	82.3	66.2	99.2
51	36.2	29.0	43.4

Instrument :
MSVOA_X
ClientSampleId :
VX0305WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025

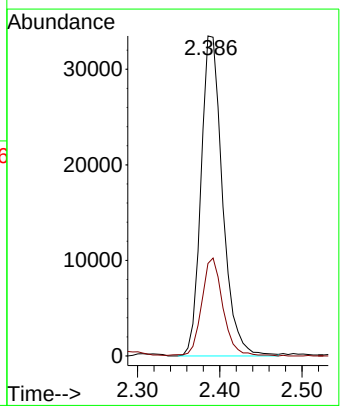


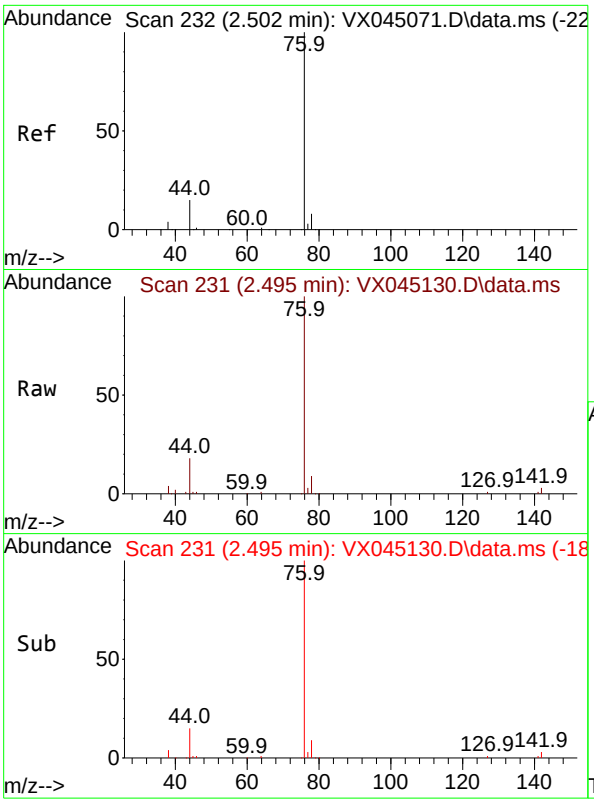


#16
Acetone
Concen: 83.622 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.000 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion: 43 Resp: 60954

Ion	Ratio	Lower	Upper
43	100		
58	28.9	24.2	36.4





#17
Carbon Disulfide
Concen: 15.991 ug/l
RT: 2.495 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion: 76 Resp: 5169

Ion	Ratio	Lower	Upper
76	100		
78	8.9	6.6	9.8

Instrument :
MSVOA_X
ClientSampleId :
VX0305WBS01

Manual Integrations
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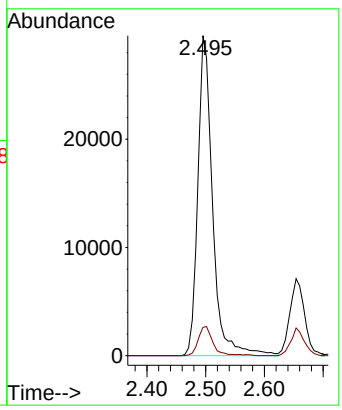
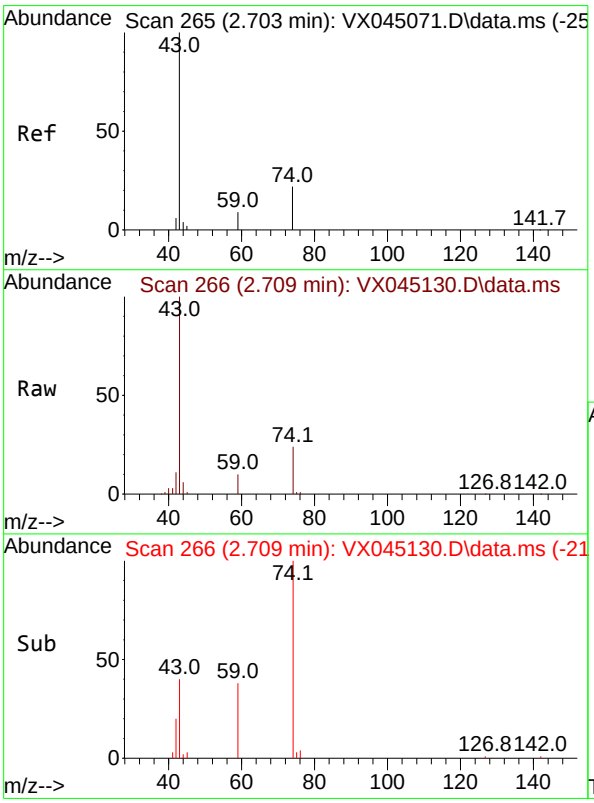
Supervised By :Mahesh Dadoda 03/06/2025

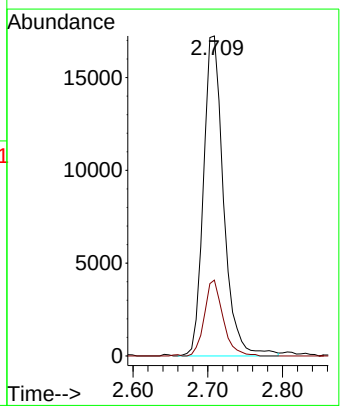


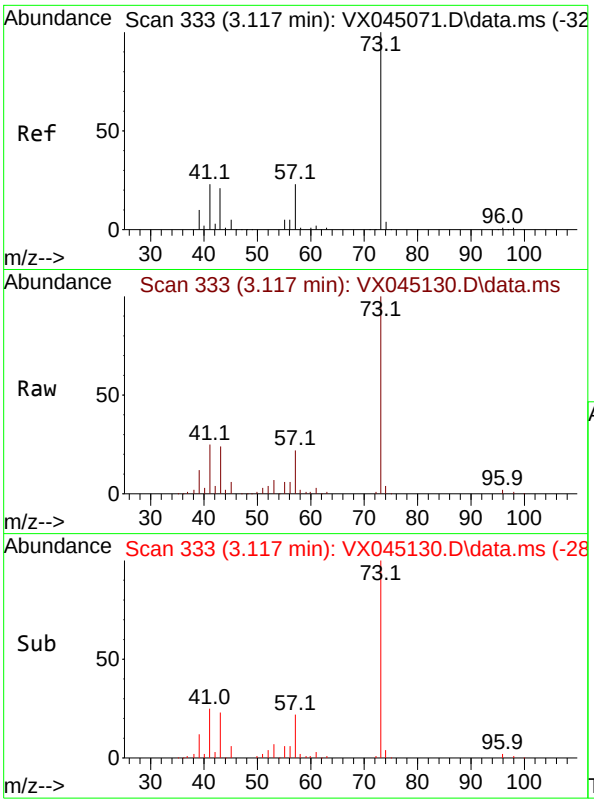


#18
Methyl Acetate
Concen: 18.366 ug/l
RT: 2.709 min Scan# 266
Delta R.T. 0.006 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion: 43 Resp: 32206

Ion	Ratio	Lower	Upper
43	100		
74	22.0	17.4	26.2





#19
Methyl tert-butyl Ether
Concen: 17.182 ug/l
RT: 3.117 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion: 73 Resp: 6996

Ion	Ratio	Lower	Upper
73	100		
57	21.6	18.5	27.7

Instrument :
MSVOA_X
ClientSampleId :
VX0305WBS01

Manual Integrations
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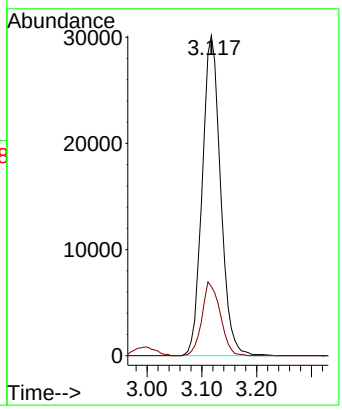
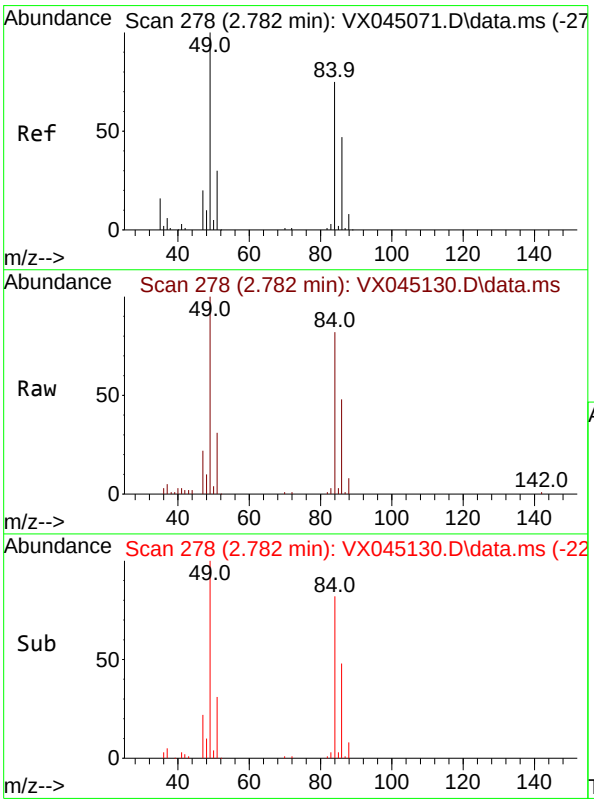
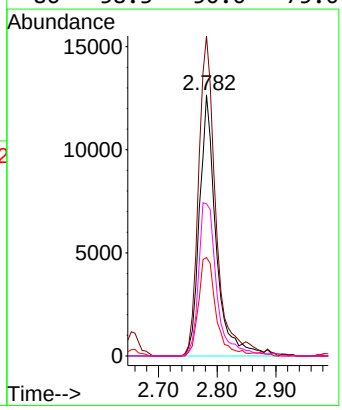


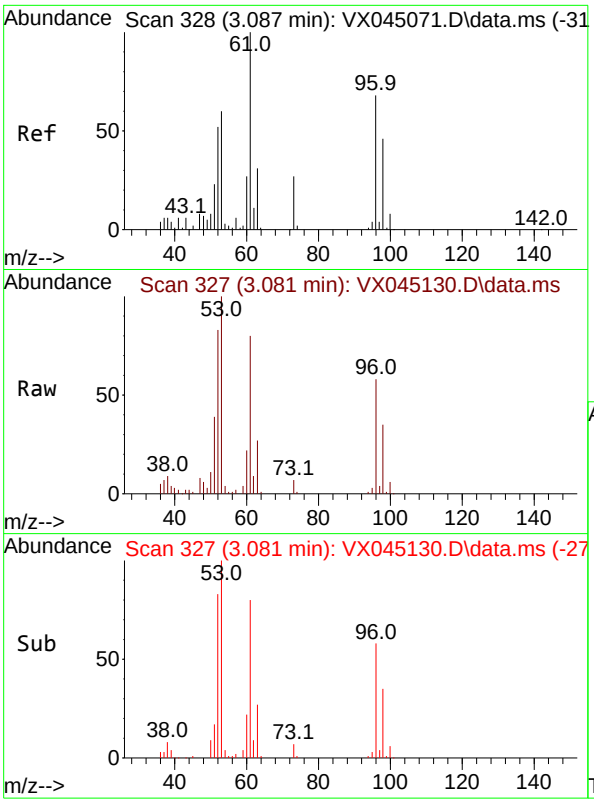


#20
Methylene Chloride
Concen: 17.232 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion: 84 Resp: 24882

Ion	Ratio	Lower	Upper
84	100		
49	122.6	106.5	159.7
51	37.7	32.1	48.1
86	58.3	50.0	75.0





#21
trans-1,2-Dichloroethene
Concen: 18.158 ug/l
RT: 3.081 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion: 96 Resp: 2177

Ion	Ratio	Lower	Upper
96	100		
61	137.9	117.0	175.4
98	60.5	53.4	80.2

Instrument :
MSVOA_X
ClientSampleId :
VX0305WBS01

Manual Integrations
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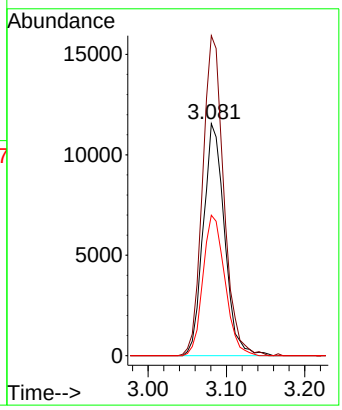
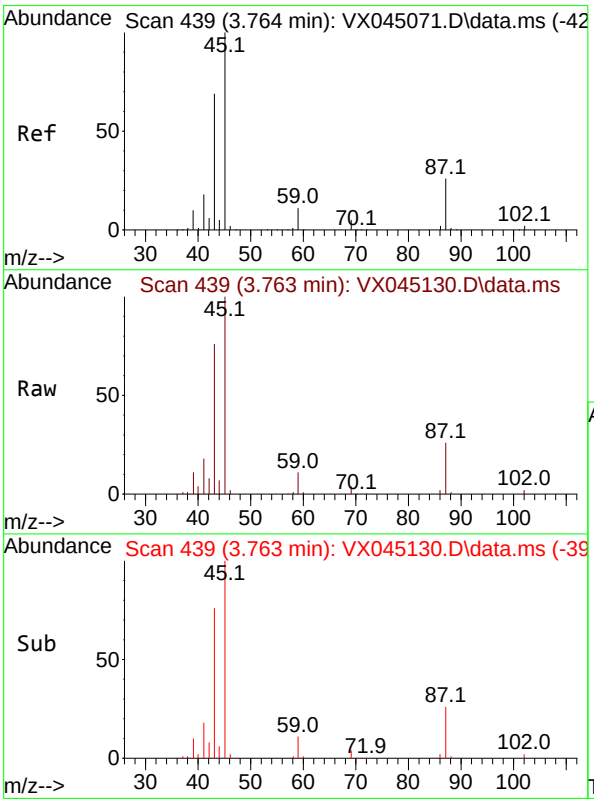
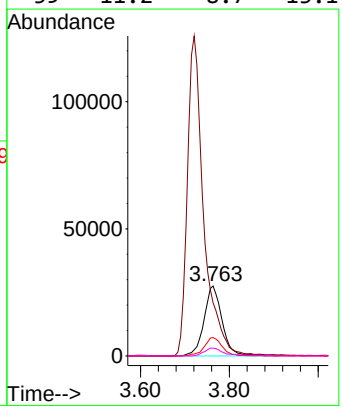


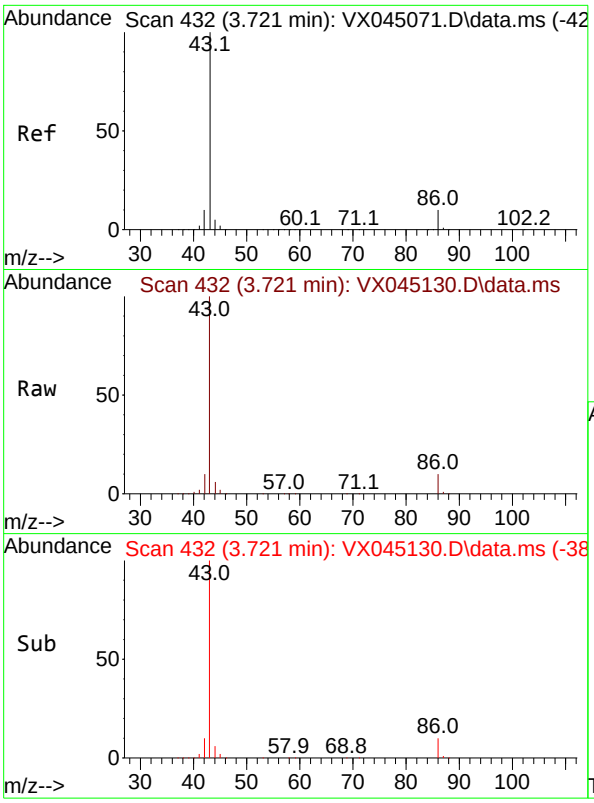


#22
Diisopropyl ether
Concen: 17.799 ug/l
RT: 3.763 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion: 45 Resp: 78201

Ion	Ratio	Lower	Upper
45	100		
43	74.5	54.9	82.3
87	26.3	21.0	31.4
59	11.2	8.7	13.1





#23
Vinyl Acetate
Concen: 87.770 ug/l
RT: 3.721 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion: 43 Resp: 32181

Ion	Ratio	Lower	Upper
43	100		
86	10.5	8.1	12.1

Instrument :
MSVOA_X
ClientSampleId :
VX0305WBS01

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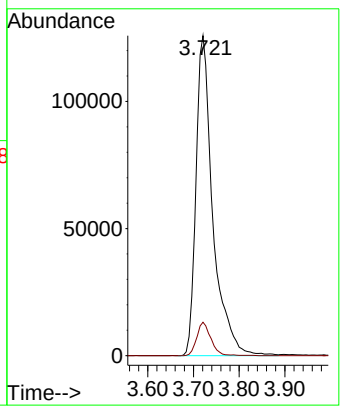
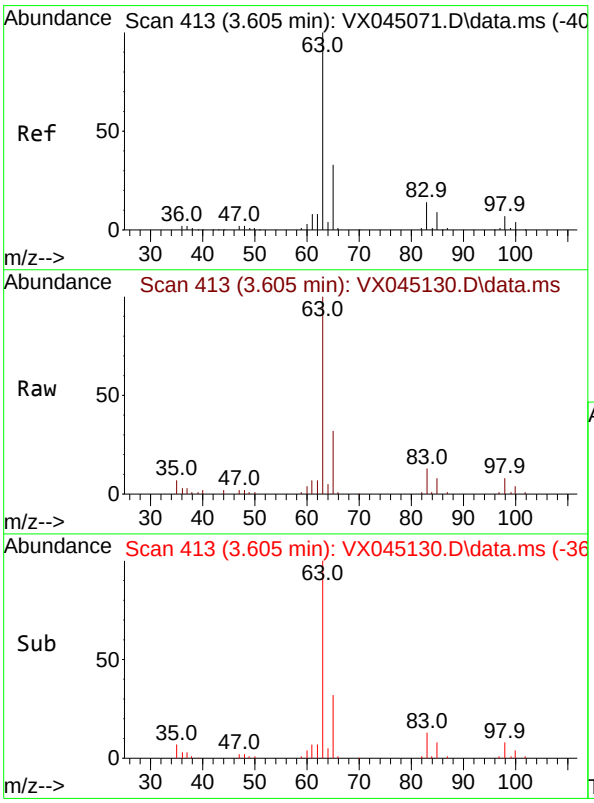
Reviewed By :John Carlone 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025

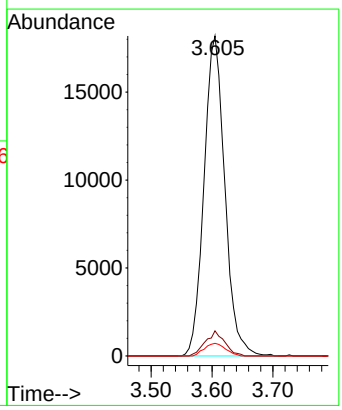


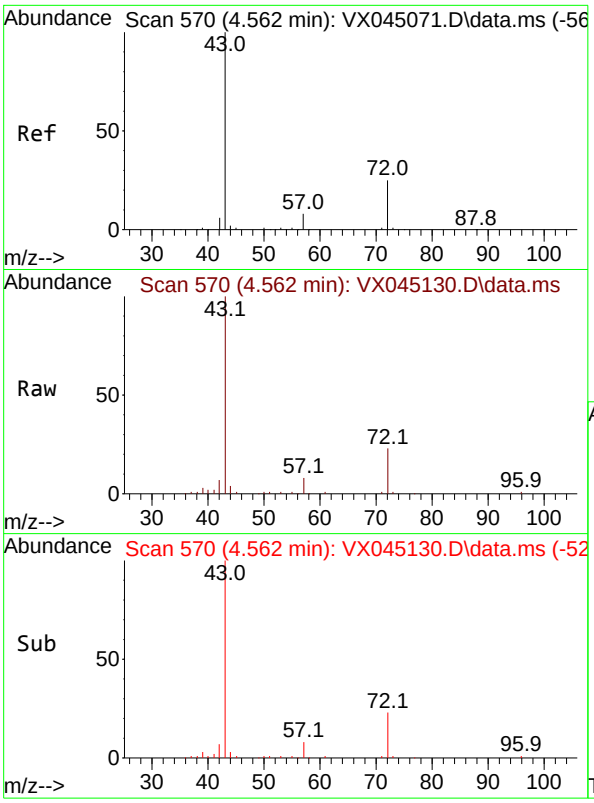


#24
1,1-Dichloroethane
Concen: 17.547 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion: 63 Resp: 43208

Ion	Ratio	Lower	Upper
63	100		
98	7.8	3.4	10.2
100	4.0	2.1	6.5





#25
2-Butanone
Concen: 88.416 ug/l
RT: 4.562 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion: 43 Resp: 9701

Ion	Ratio	Lower	Upper
43	100		
72	22.6	20.0	30.0

Instrument :
MSVOA_X
ClientSampleId :
VX0305WBS01

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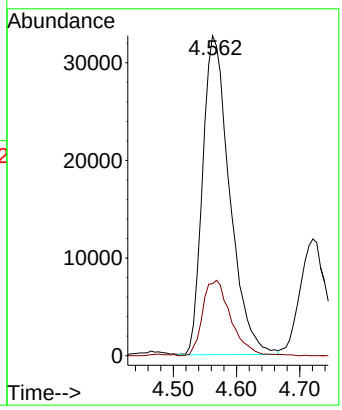
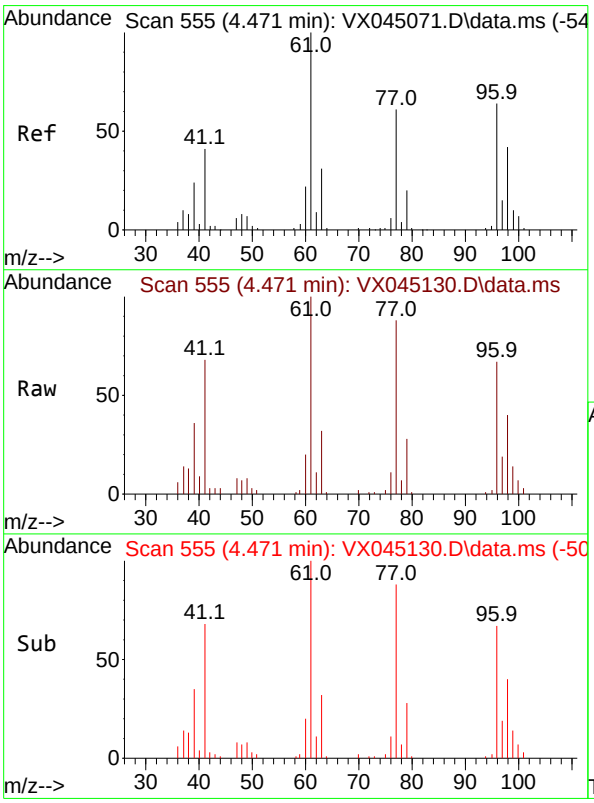
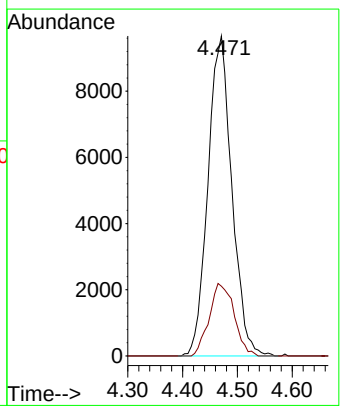


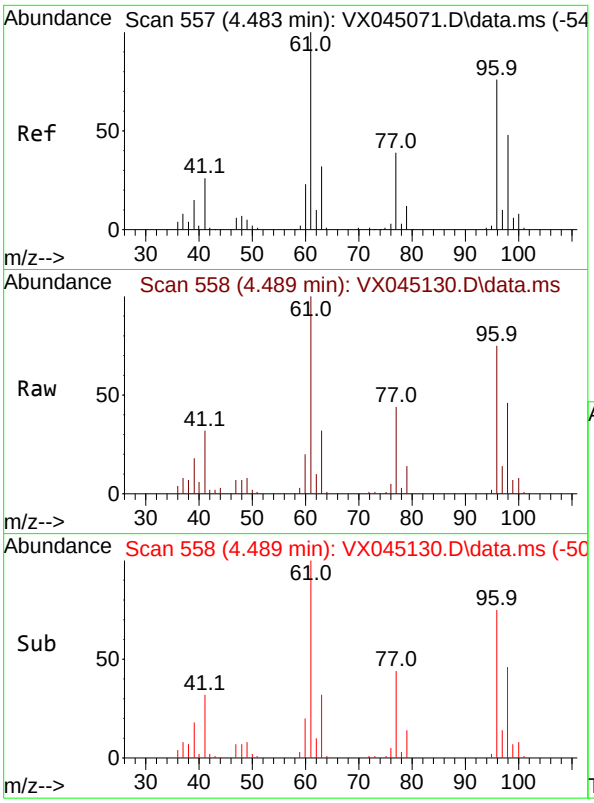


#26
2,2-Dichloropropane
Concen: 25.352 ug/l
RT: 4.471 min Scan# 555
Delta R.T. -0.000 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion: 77 Resp: 29281

Ion	Ratio	Lower	Upper
77	100		
97	23.6	12.4	37.0





#27
cis-1,2-Dichloroethene
Concen: 17.683 ug/l
RT: 4.489 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion: 96 Resp: 2617

Ion	Ratio	Lower	Upper
96	100		
61	147.5	0.0	283.2
98	63.8	0.0	128.0

Instrument :
MSVOA_X
ClientSampleId :
VX0305WBS01

Manual Integrations
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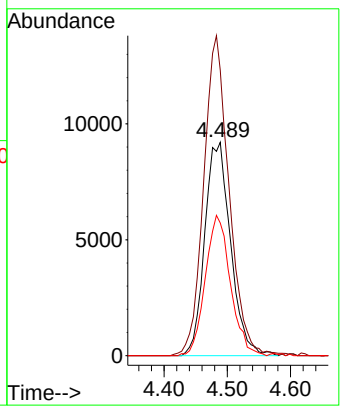
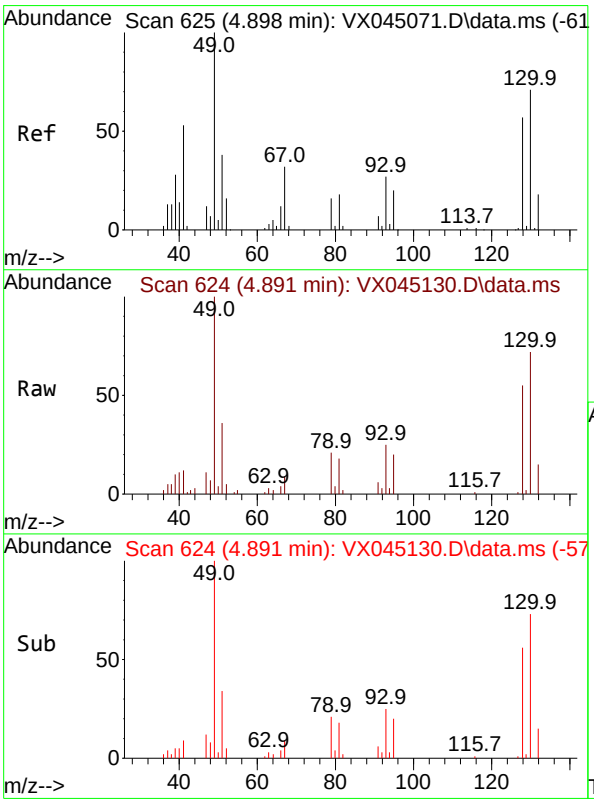
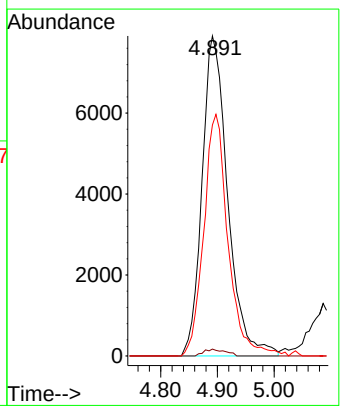


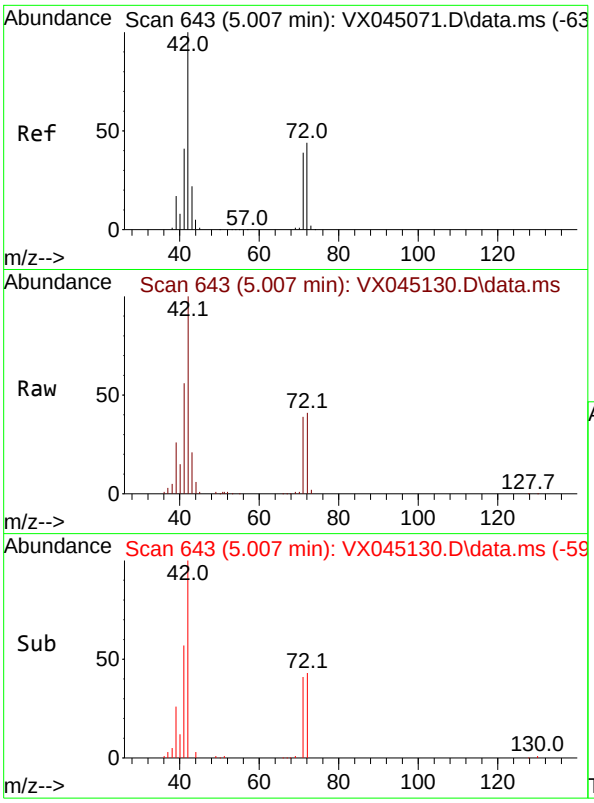


#28
Bromochloromethane
Concen: 21.131 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion: 49 Resp: 24801

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	3.4
130	71.6	56.1	84.1





#29
Tetrahydrofuran
Concen: 86.717 ug/l
RT: 5.007 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion: 42 Resp: 6389

Ion	Ratio	Lower	Upper
42	100		
72	42.8	34.1	51.1
71	39.5	31.4	47.0

Instrument :
MSVOA_X
ClientSampleId :
VX0305WBS01

Manual Integrations
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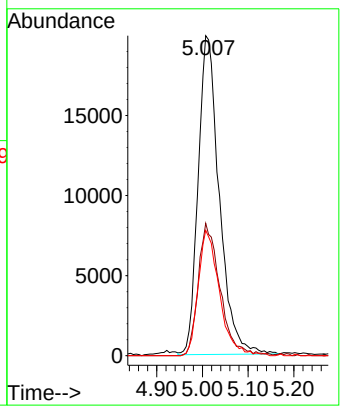
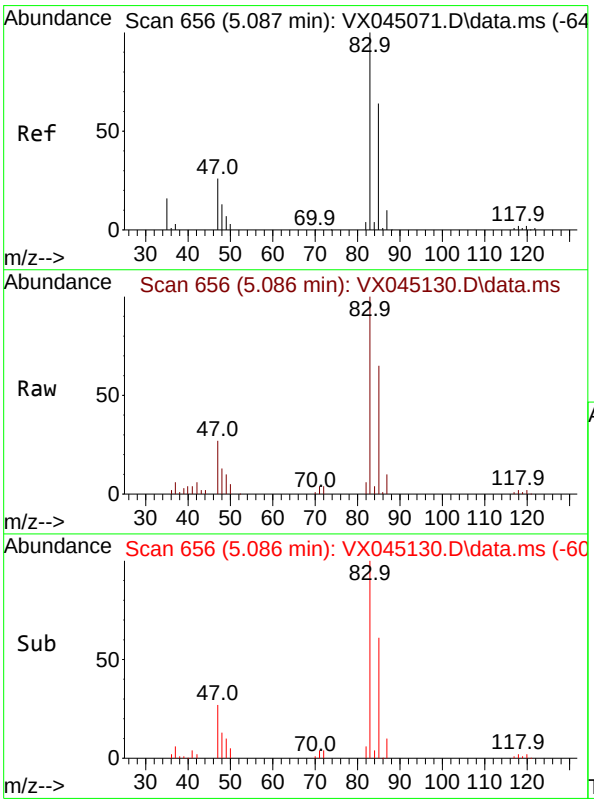
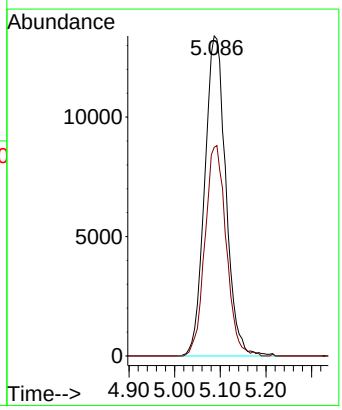


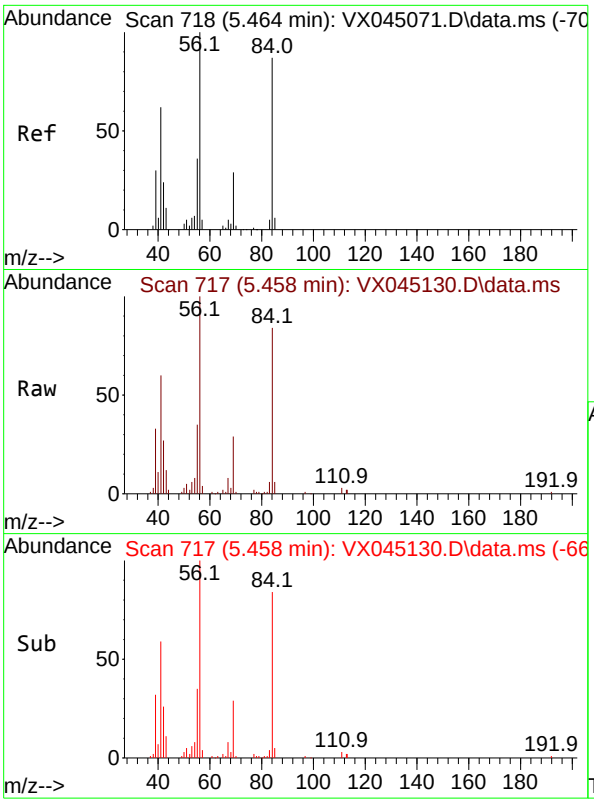


#30
Chloroform
Concen: 17.587 ug/l
RT: 5.086 min Scan# 656
Delta R.T. -0.000 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion: 83 Resp: 43030

Ion	Ratio	Lower	Upper
83	100		
85	65.2	51.4	77.2





#31
Cyclohexane
Concen: 18.481 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion: 56 Resp: 3950

Ion	Ratio	Lower	Upper
56	100		
69	28.9	23.4	35.2
84	81.7	69.4	104.2

Instrument :
MSVOA_X
ClientSampleId :
VX0305WBS01

Manual Integrations
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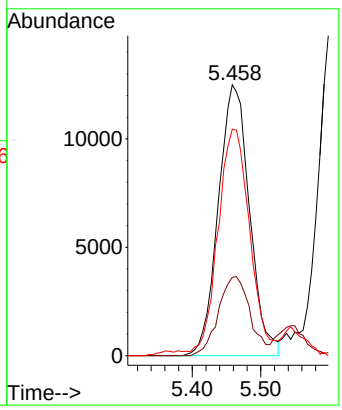
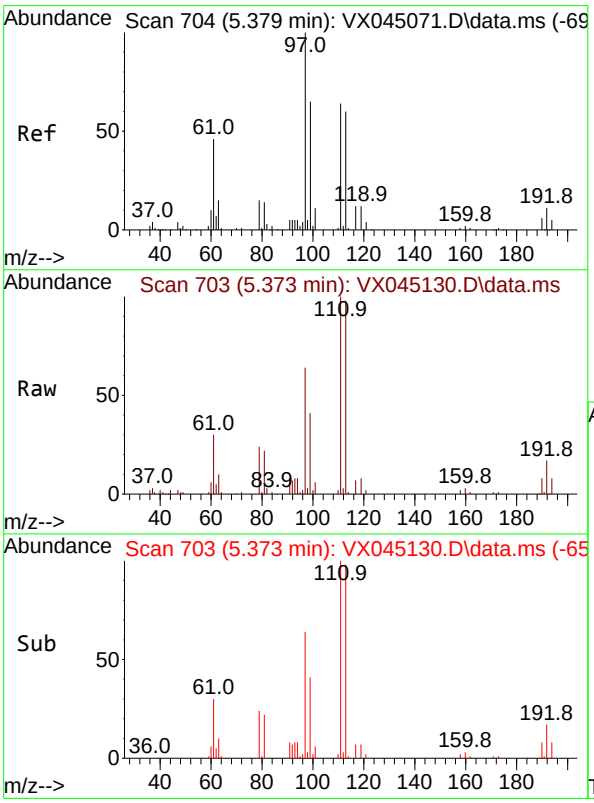
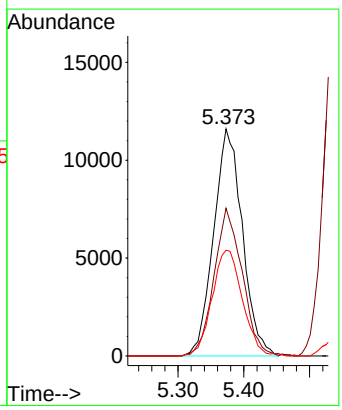


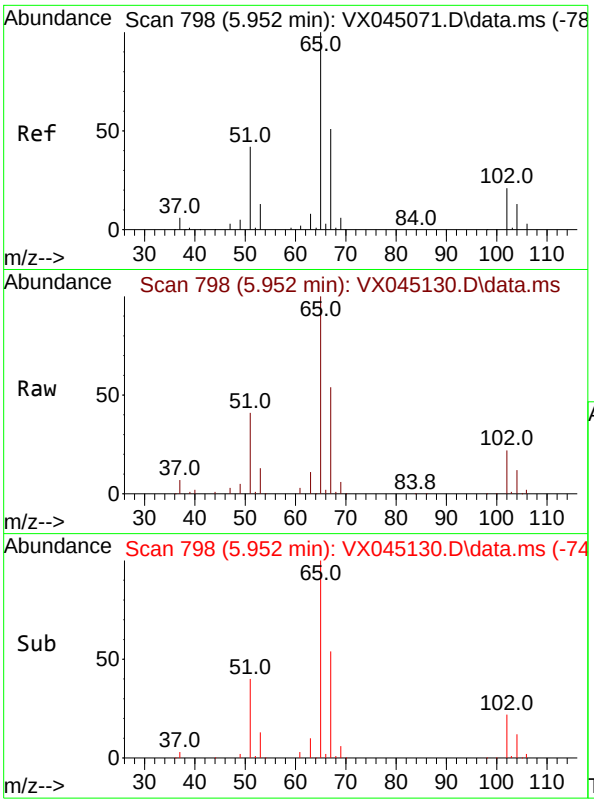


#32
1,1,1-Trichloroethane
Concen: 17.819 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.006 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion: 97 Resp: 35212

Ion	Ratio	Lower	Upper
97	100		
99	63.8	51.6	77.4
61	49.2	38.4	57.6





#33
1,2-Dichloroethane-d4
Concen: 48.361 ug/l
RT: 5.952 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion: 65 Resp: 7597

Ion	Ratio	Lower	Upper
65	100		
67	53.8	0.0	106.2

Instrument :
MSVOA_X
ClientSampleId :
VX0305WBS01

Manual Integrations
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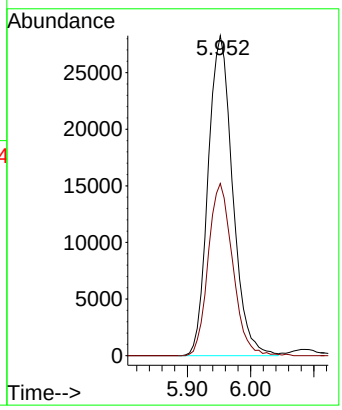
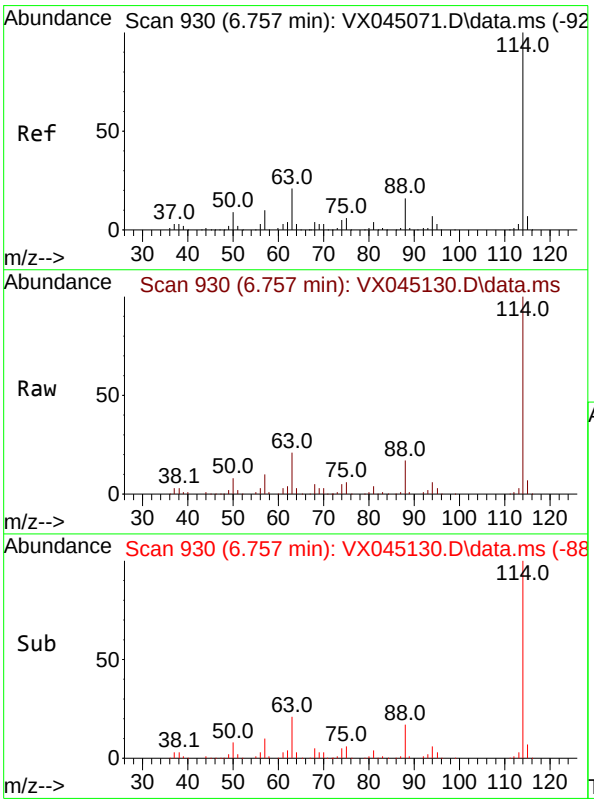
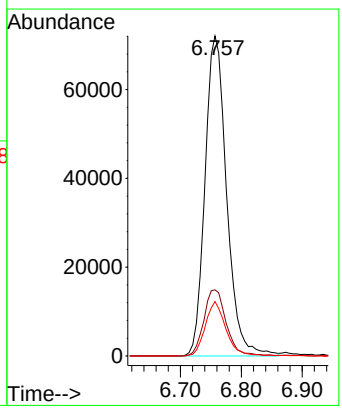


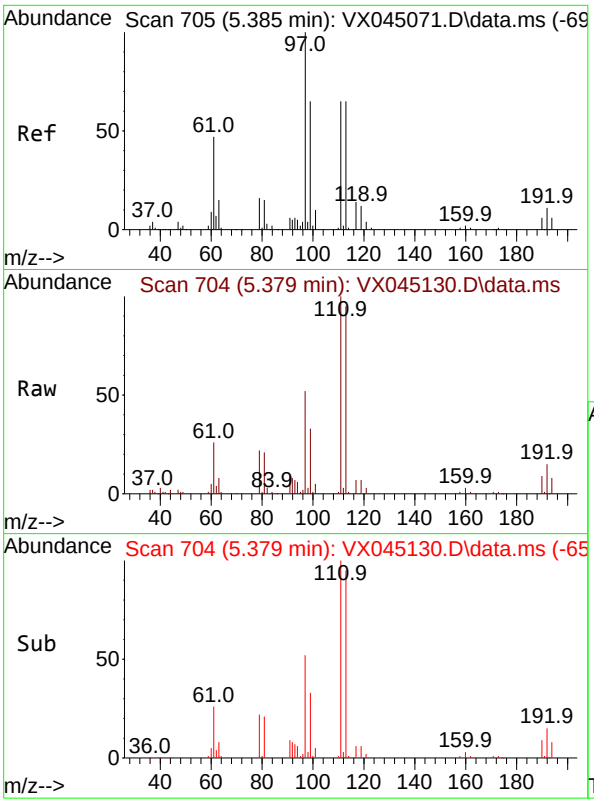


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion:114 Resp: 177910

Ion	Ratio	Lower	Upper
114	100		
63	20.7	0.0	41.8
88	17.0	0.0	32.8





#35
Dibromofluoromethane
Concen: 49.339 ug/l
RT: 5.379 min Scan# 7(
Delta R.T. -0.006 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion:113 Resp: 5869(

Ion	Ratio	Lower	Upper
113	100		
111	103.1	81.8	122.6
192	17.3	14.3	21.5

Instrument :
MSVOA_X
ClientSampleId :
VX0305WBS01

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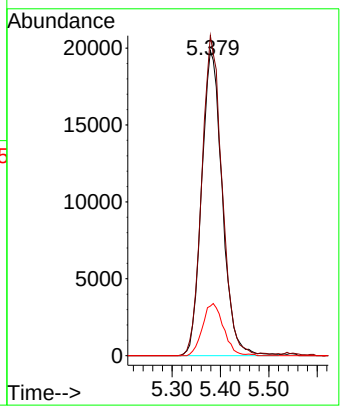
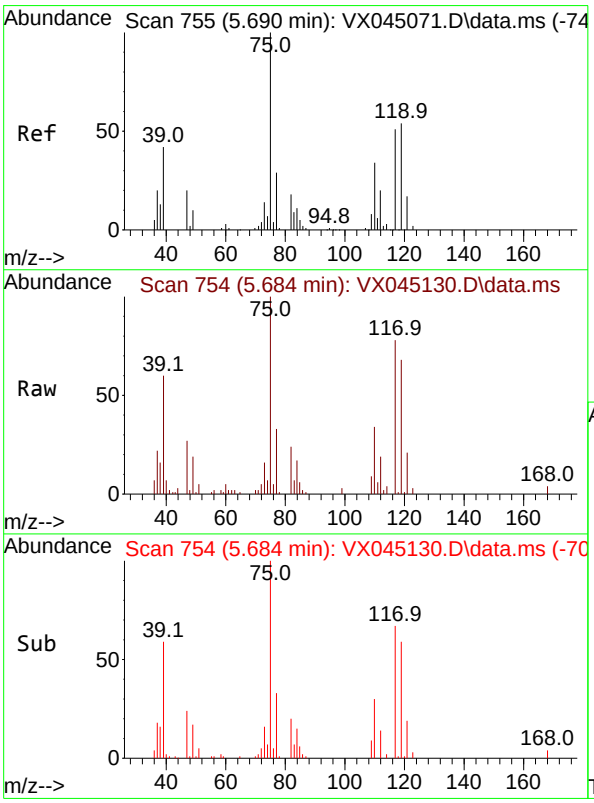
Reviewed By :John Carlone 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025

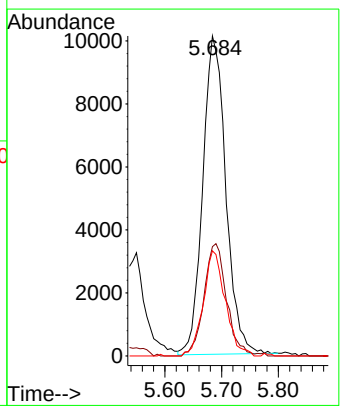


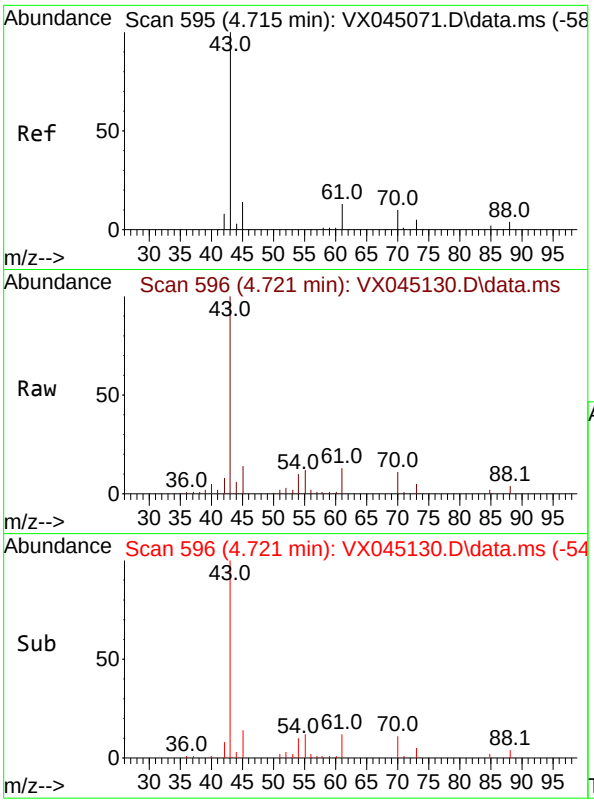


#36
1,1-Dichloropropene
Concen: 17.531 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion: 75 Resp: 28601

Ion	Ratio	Lower	Upper
75	100		
110	34.7	16.9	50.6
77	31.4	24.5	36.7





#37
Ethyl Acetate
Concen: 16.958 ug/l
RT: 4.721 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion: 43 Resp: 3565

Ion	Ratio	Lower	Upper
43	100		
61	13.2	10.8	16.2
70	10.3	7.7	11.5

Instrument :
MSVOA_X
ClientSampleId :
VX0305WBS01

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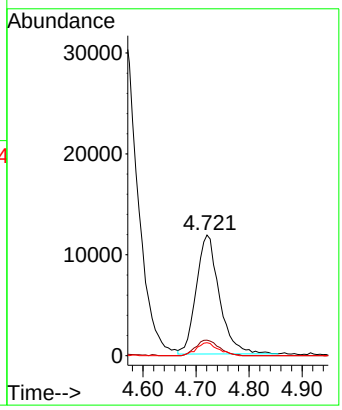
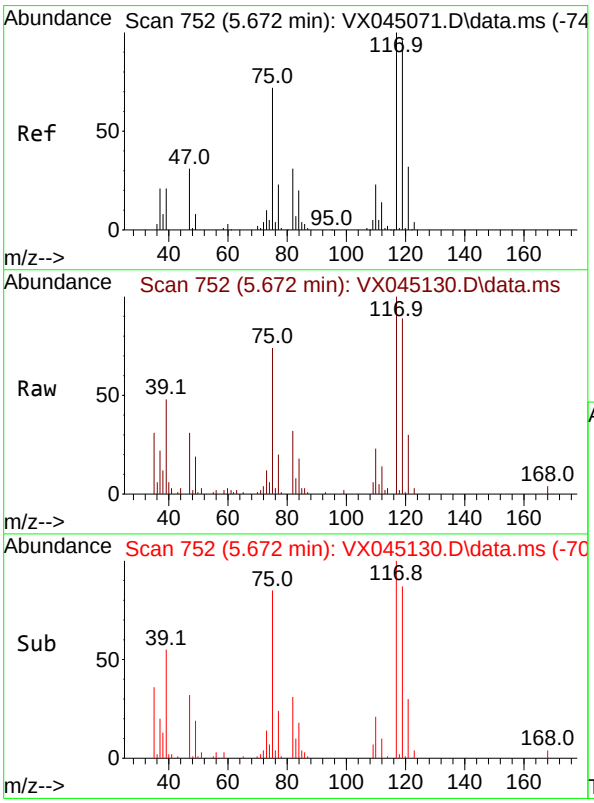
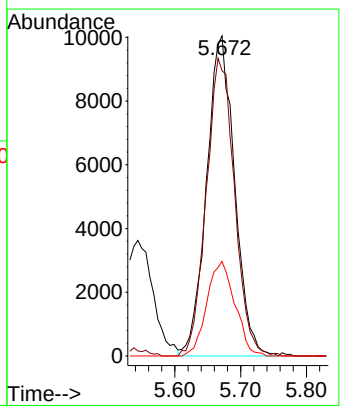


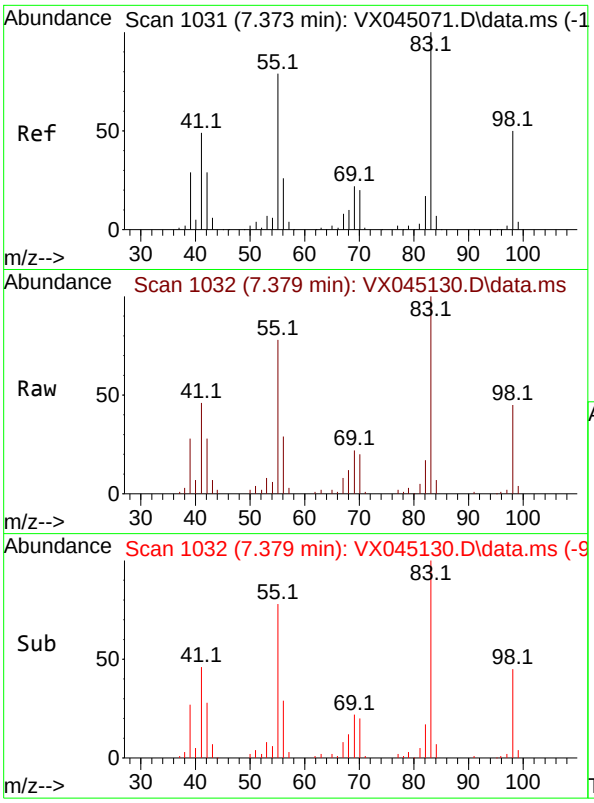


#38
Carbon Tetrachloride
Concen: 18.005 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.000 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion:117 Resp: 29823

Ion	Ratio	Lower	Upper
117	100		
119	89.2	76.7	115.1
121	29.6	25.5	38.3





#39
Methylcyclohexane
Concen: 19.091 ug/l
RT: 7.379 min Scan# 1(
Delta R.T. 0.006 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion: 83 Resp: 3732

Ion	Ratio	Lower	Upper
83	100		
55	78.0	63.0	94.4
98	45.3	39.7	59.5

Instrument :
MSVOA_X
ClientSampleId :
VX0305WBS01

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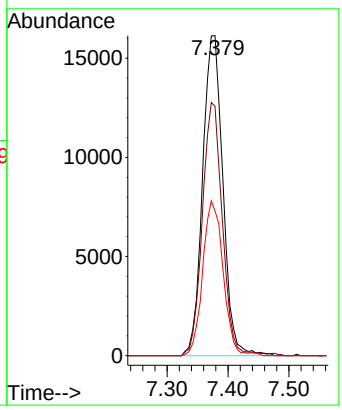
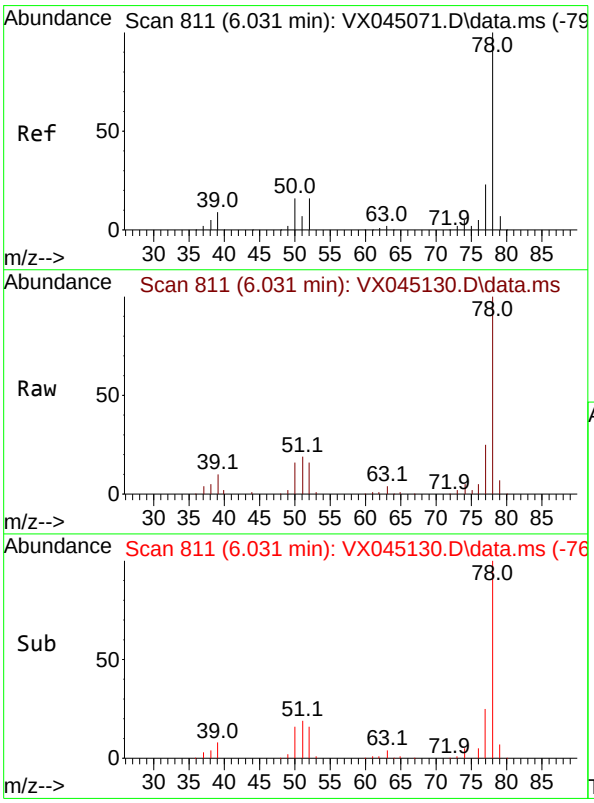
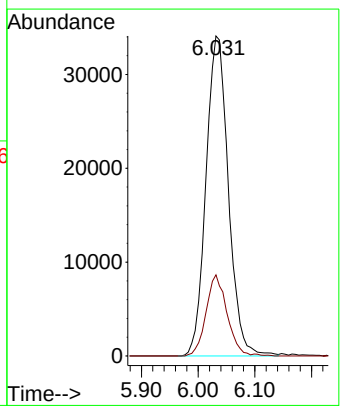


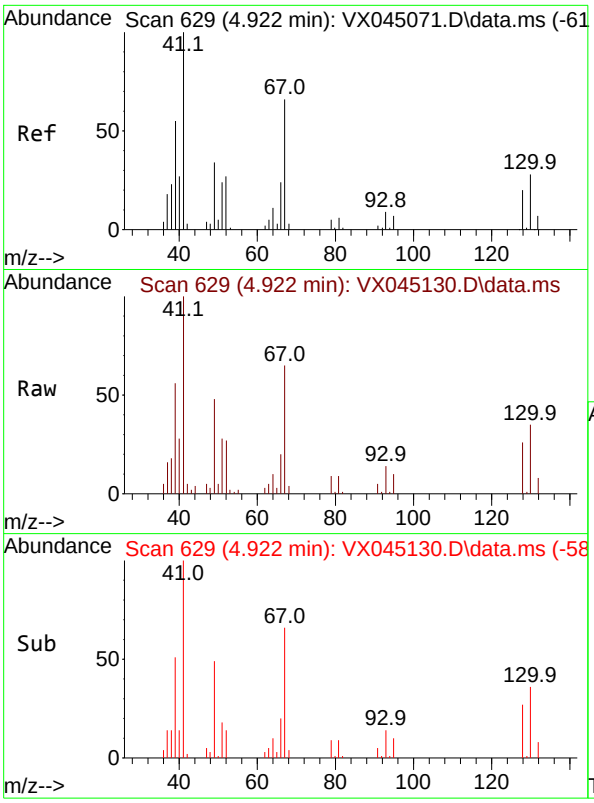


#40
Benzene
Concen: 18.186 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion: 78 Resp: 93693

Ion	Ratio	Lower	Upper
78	100		
77	25.4	18.8	28.2

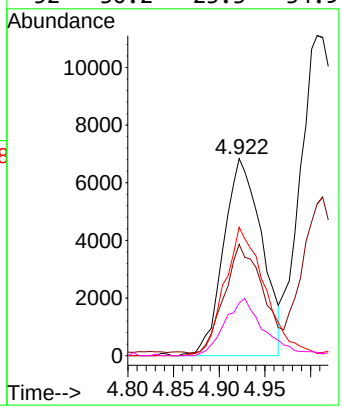




#41
Methacrylonitrile
Concen: 17.492 ug/l
RT: 4.922 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion: 41 Resp: 1988

Ion	Ratio	Lower	Upper
41	100		
39	55.5	44.6	67.0
67	68.8	53.9	80.9
52	30.2	23.3	34.9



Instrument :
MSVOA_X
ClientSampleId :
VX0305WBS01

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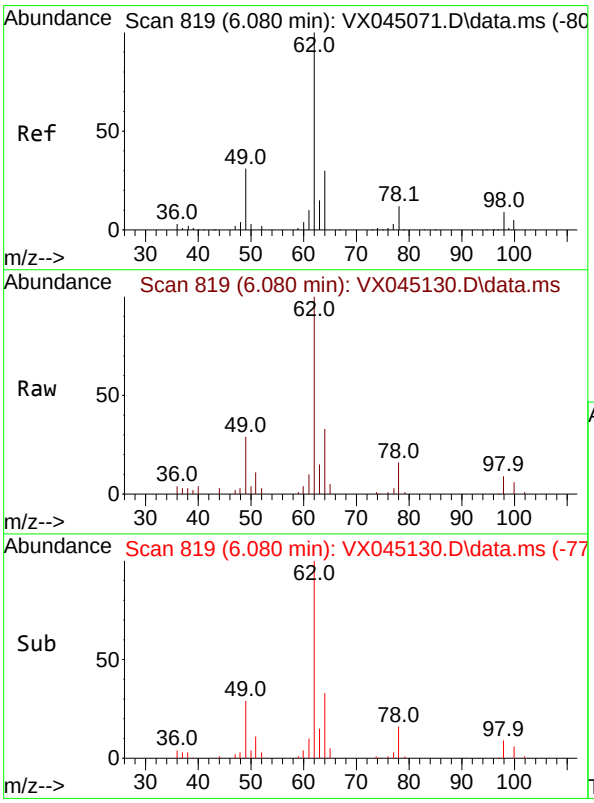
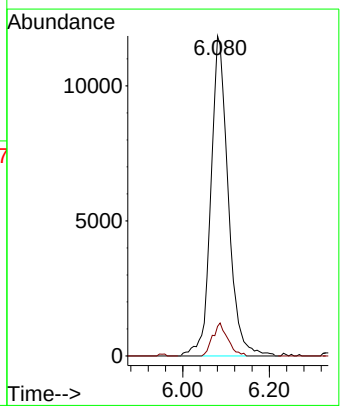
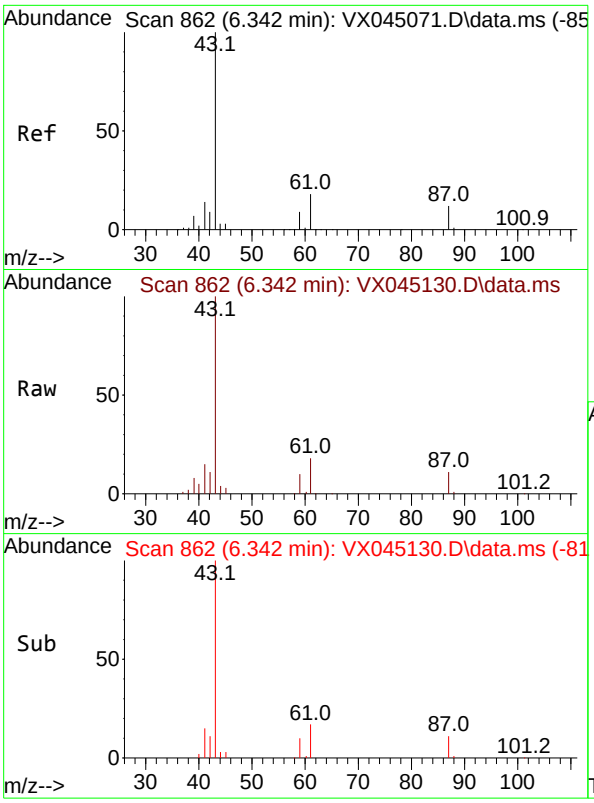


#42
1,2-Dichloroethane
Concen: 17.806 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.000 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion: 62 Resp: 33034

Ion	Ratio	Lower	Upper
62	100		
98	9.0	0.0	18.2





#43
Isopropyl Acetate
Concen: 17.291 ug/l
RT: 6.342 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion: 43 Resp: 5375

Ion	Ratio	Lower	Upper
43	100		
61	18.9	14.9	22.3
87	12.1	9.4	14.2

Instrument :
MSVOA_X
ClientSampleId :
VX0305WBS01

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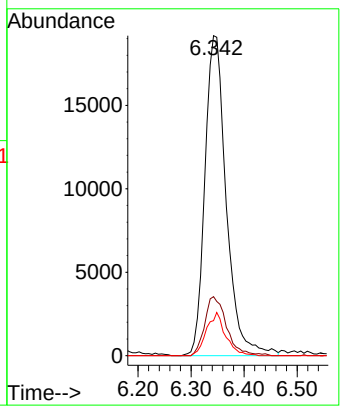
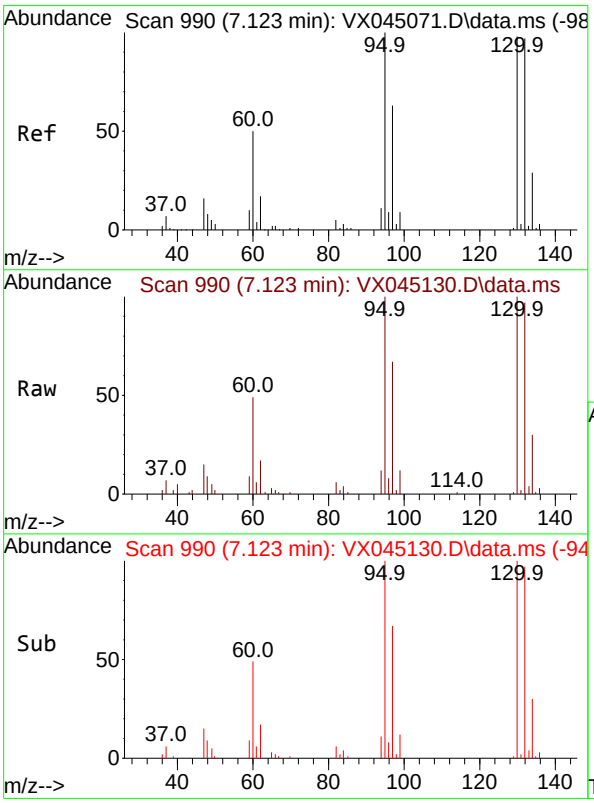
Supervised By :Mahesh Dadoda 03/06/2025

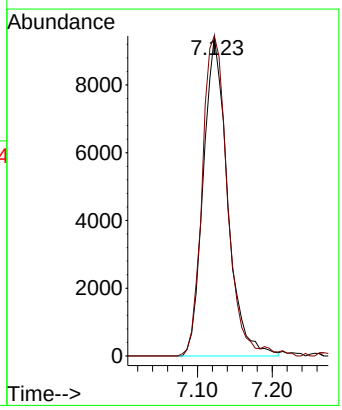


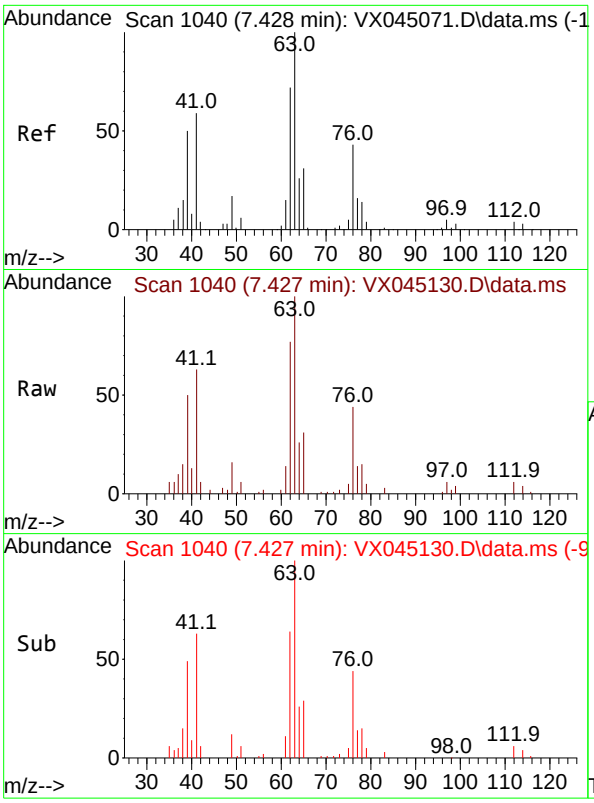


#44
Trichloroethene
Concen: 17.548 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion:130 Resp: 21228

Ion	Ratio	Lower	Upper
130	100		
95	100.1	0.0	205.0





#45
1,2-Dichloropropane
Concen: 17.537 ug/l
RT: 7.427 min Scan# 1(
Delta R.T. -0.000 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion: 63 Resp: 2322

Ion	Ratio	Lower	Upper
63	100		
65	31.0	24.7	37.1

Instrument :
MSVOA_X
ClientSampleId :
VX0305WBS01

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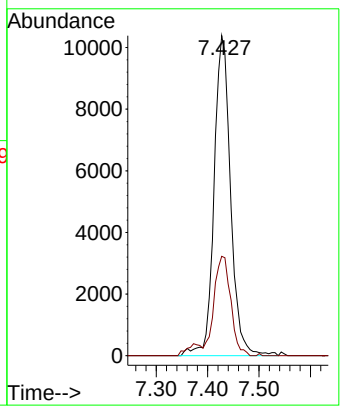
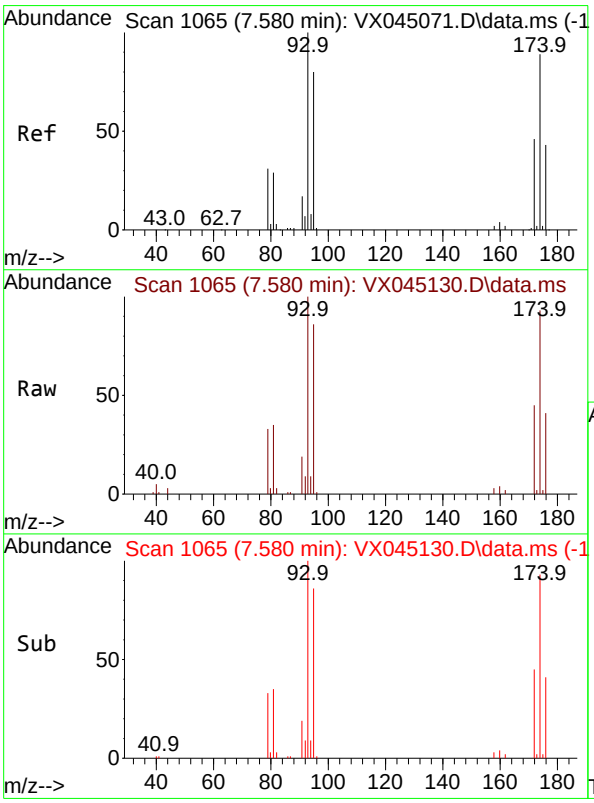
Supervised By :Mahesh Dadoda 03/06/2025

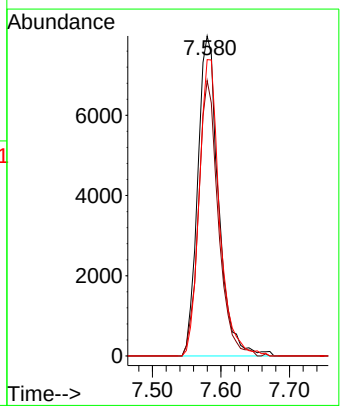


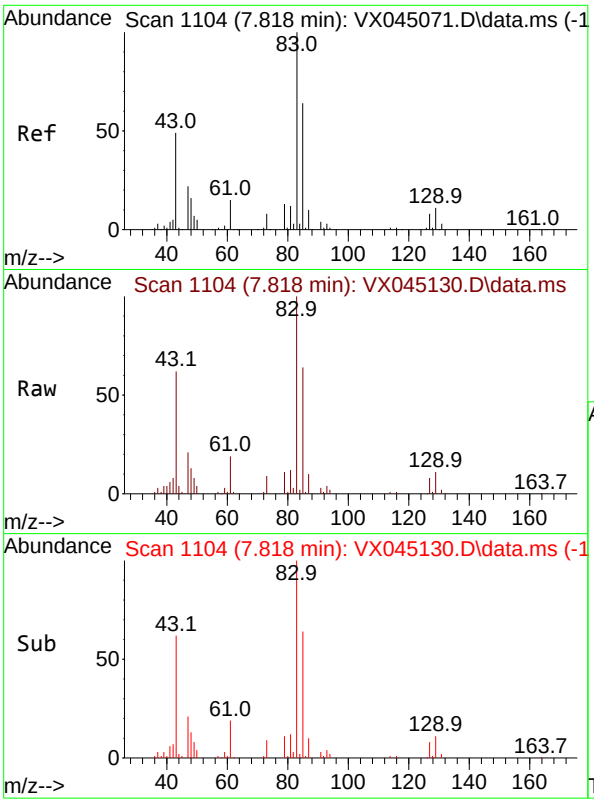


#46
Dibromomethane
Concen: 17.976 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion: 93 Resp: 16830

Ion	Ratio	Lower	Upper
93	100		
95	81.9	65.8	98.8
174	90.5	72.2	108.2





#47
Bromodichloromethane
Concen: 17.834 ug/l
RT: 7.818 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion: 83 Resp: 3275

Ion	Ratio	Lower	Upper
83	100		
85	63.6	51.1	76.7
127	7.7	6.4	9.6

Instrument :
MSVOA_X
ClientSampleId :
VX0305WBS01

Manual Integrations
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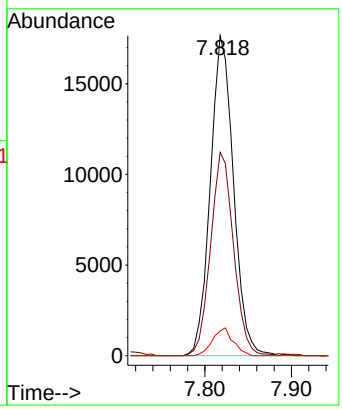
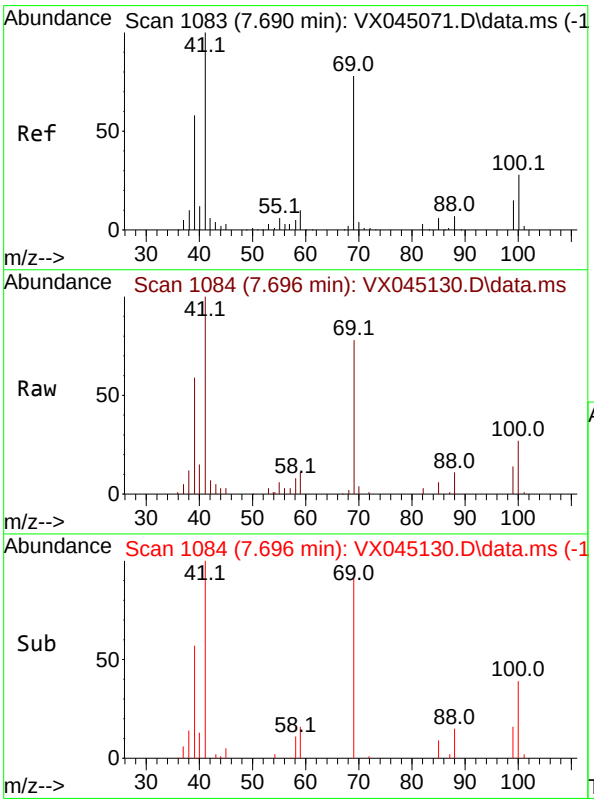
Supervised By :Mahesh Dadoda 03/06/2025

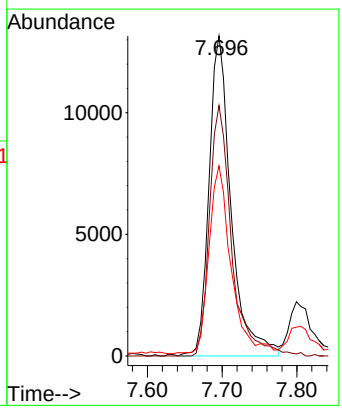


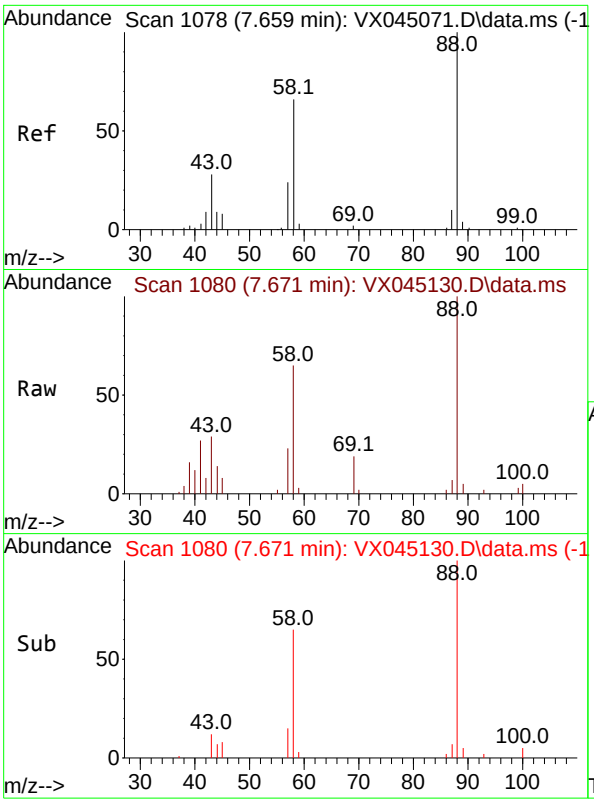


#48
Methyl methacrylate
Concen: 17.316 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. 0.006 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion: 41 Resp: 27005

Ion	Ratio	Lower	Upper
41	100		
69	78.7	63.0	94.6
39	58.7	47.5	71.3





#49
1,4-Dioxane
Concen: 358.508 ug/l
RT: 7.671 min Scan# 1(
Delta R.T. 0.012 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion: 88 Resp: 1179

Ion	Ratio	Lower	Upper
88	100		
43	34.7	28.7	43.1
58	69.3	55.8	83.8

Instrument :
MSVOA_X
ClientSampleId :
VX0305WBS01

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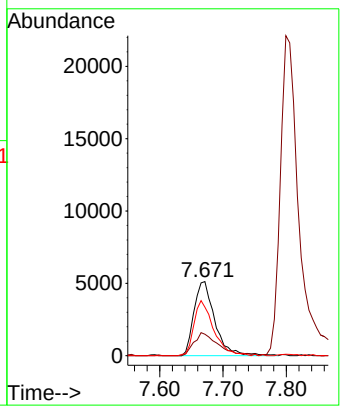
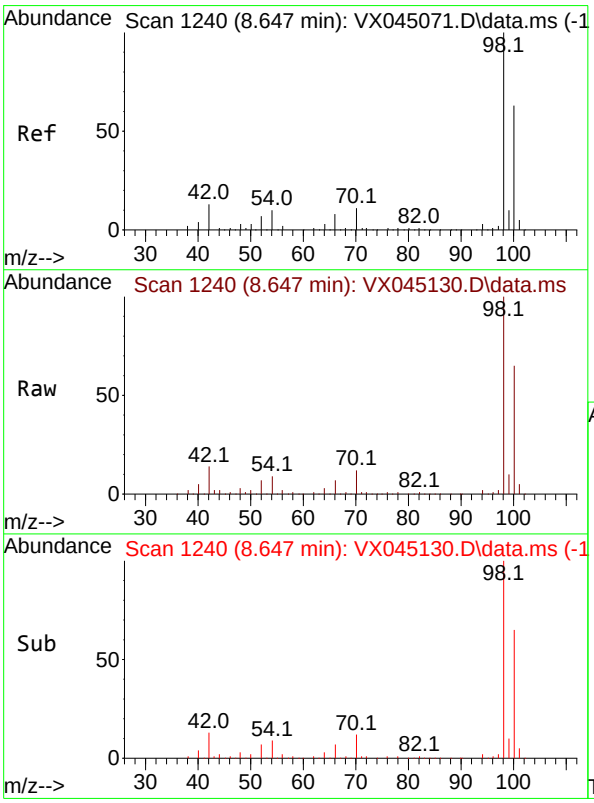
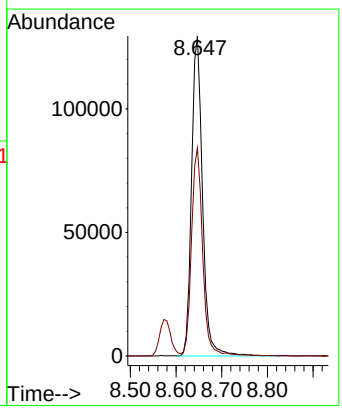


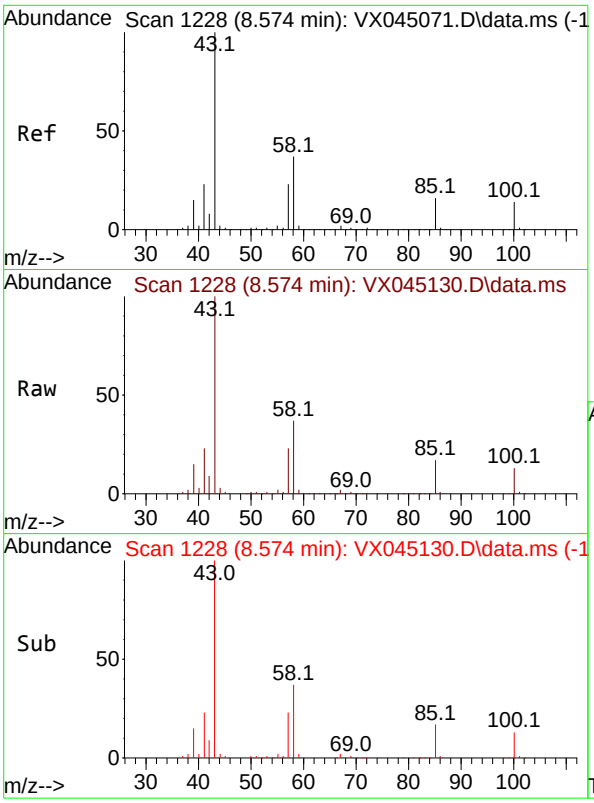


#50
Toluene-d8
Concen: 49.982 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion: 98 Resp: 215565

Ion	Ratio	Lower	Upper
98	100		
100	65.9	52.0	78.0





#51
4-Methyl-2-Pentanone
Concen: 89.468 ug/l
RT: 8.574 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion: 43 Resp: 18674

Ion	Ratio	Lower	Upper
43	100		
58	36.1	29.2	43.8

Instrument :
MSVOA_X
ClientSampleId :
VX0305WBS01

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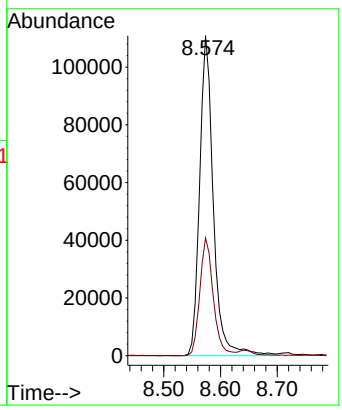
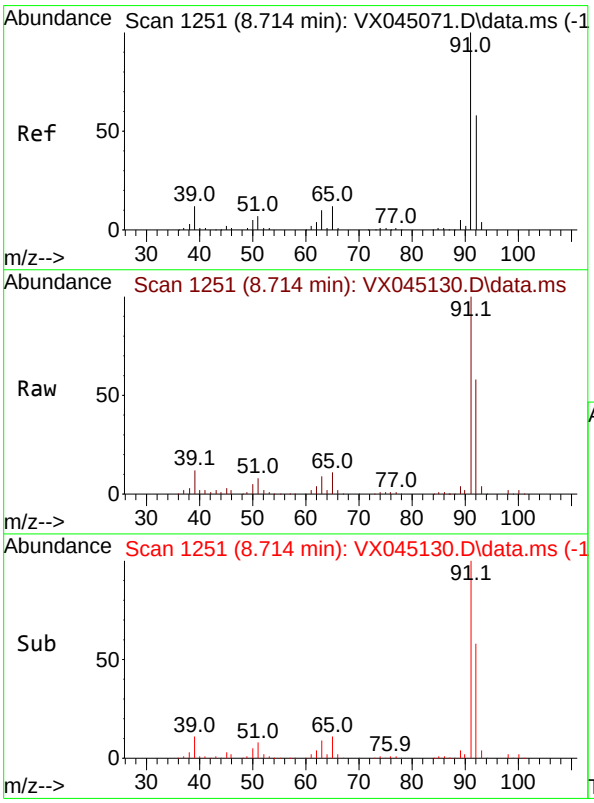
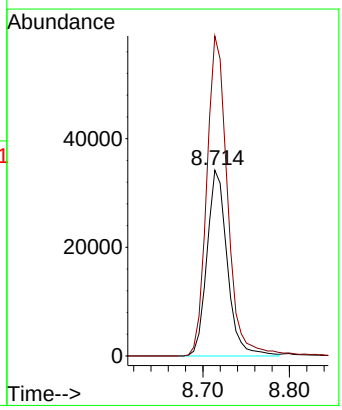


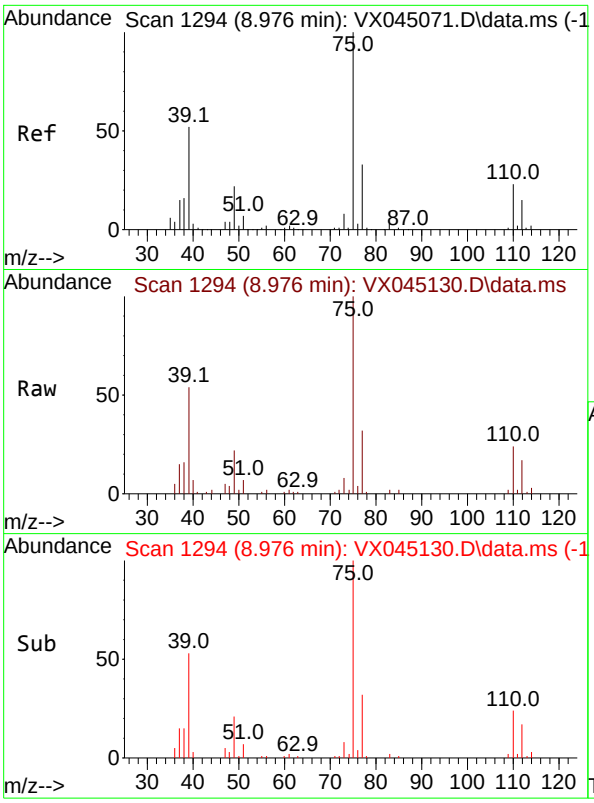


#52
Toluene
Concen: 18.437 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion: 92 Resp: 55728

Ion	Ratio	Lower	Upper
92	100		
91	177.0	138.9	208.3





#53
t-1,3-Dichloropropene
Concen: 17.782 ug/l
RT: 8.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion: 75 Resp: 2729

Ion	Ratio	Lower	Upper
75	100		
77	31.9	26.5	39.7

Instrument :
MSVOA_X
ClientSampleId :
VX0305WBS01

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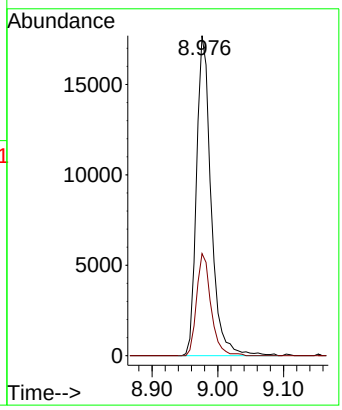
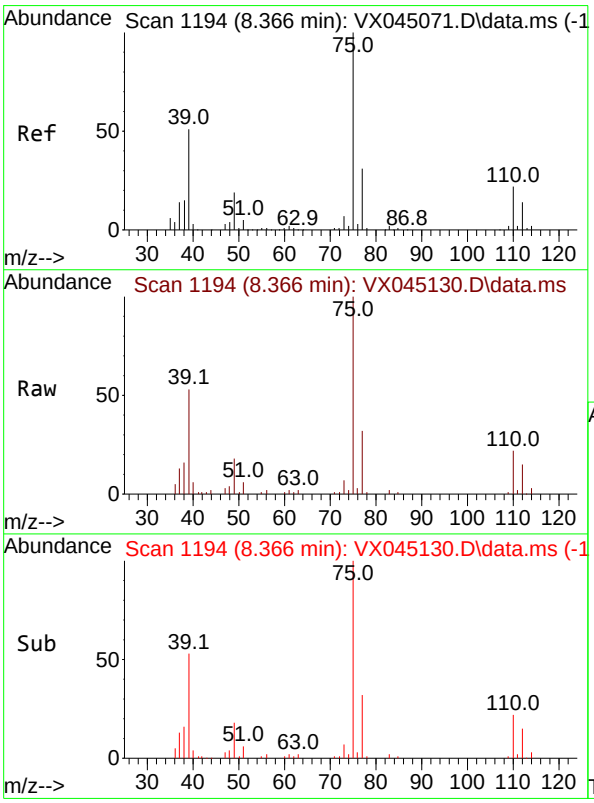
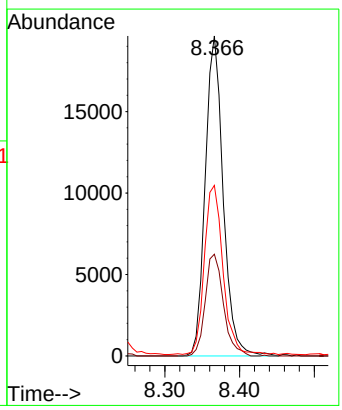


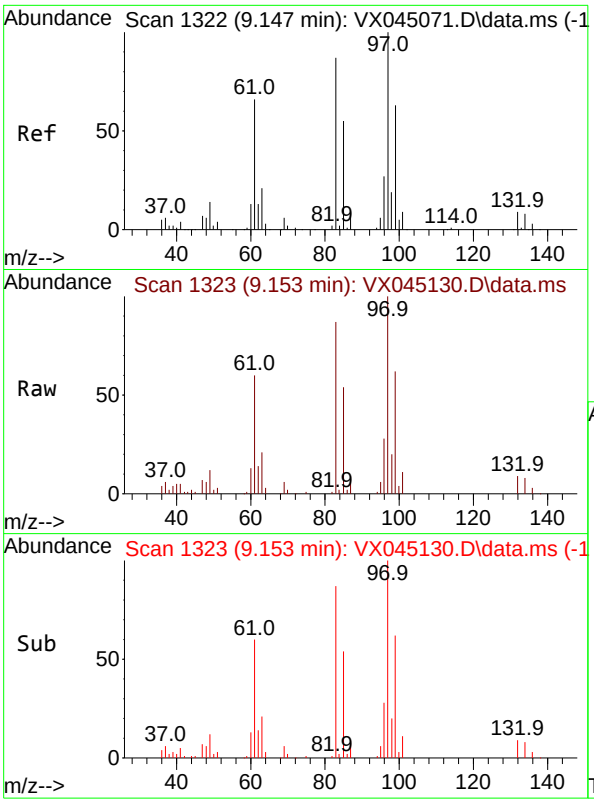


#54
cis-1,3-Dichloropropene
Concen: 18.288 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion: 75 Resp: 32740

Ion	Ratio	Lower	Upper
75	100		
77	31.8	24.7	37.1
39	52.8	40.7	61.1





#55
1,1,2-Trichloroethane
Concen: 17.831 ug/l
RT: 9.153 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion: 97 Resp: 2218

Ion	Ratio	Lower	Upper
97	100		
83	86.5	69.4	104.2
85	54.5	44.1	66.1
99	61.9	50.7	76.1

Instrument :
MSVOA_X
ClientSampleId :
VX0305WBS01

Manual Integrations
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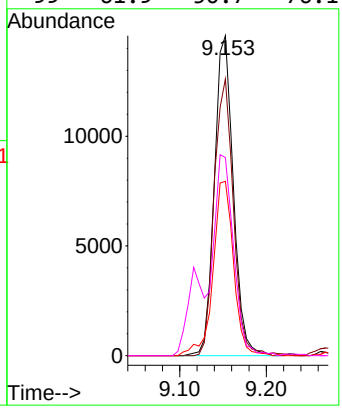
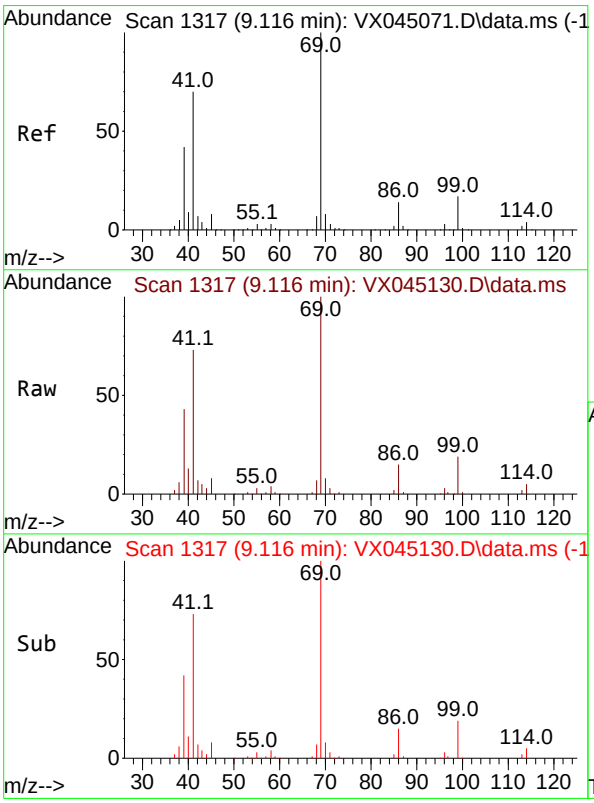
Reviewed By :John Carlone 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025

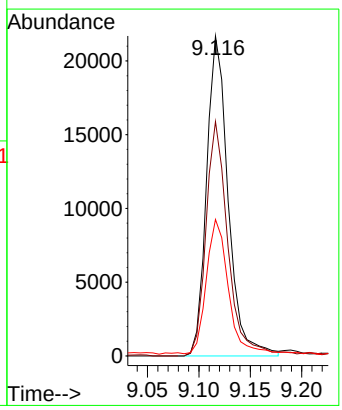


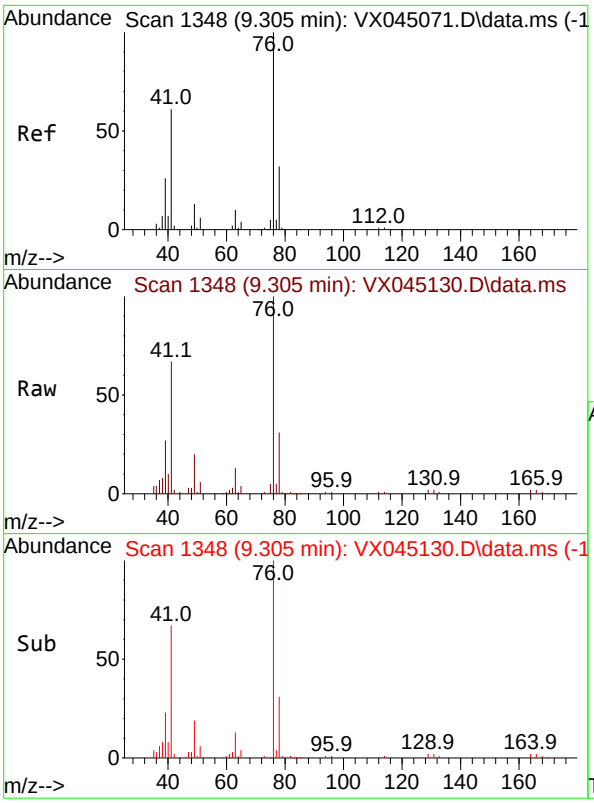


#56
Ethyl methacrylate
Concen: 16.772 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion: 69 Resp: 31725

Ion	Ratio	Lower	Upper
69	100		
41	74.5	57.0	85.4
39	43.9	34.2	51.4





#57
1,3-Dichloropropane
Concen: 17.852 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion: 76 Resp: 3844

Ion	Ratio	Lower	Upper
76	100		
78	31.5	25.5	38.3

Instrument :
MSVOA_X
ClientSampleId :
VX0305WBS01

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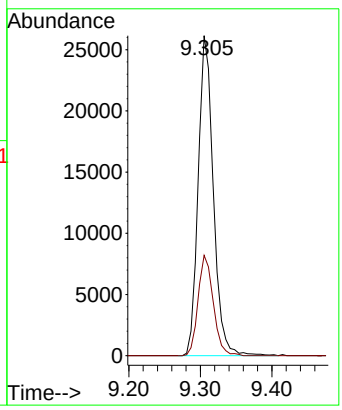
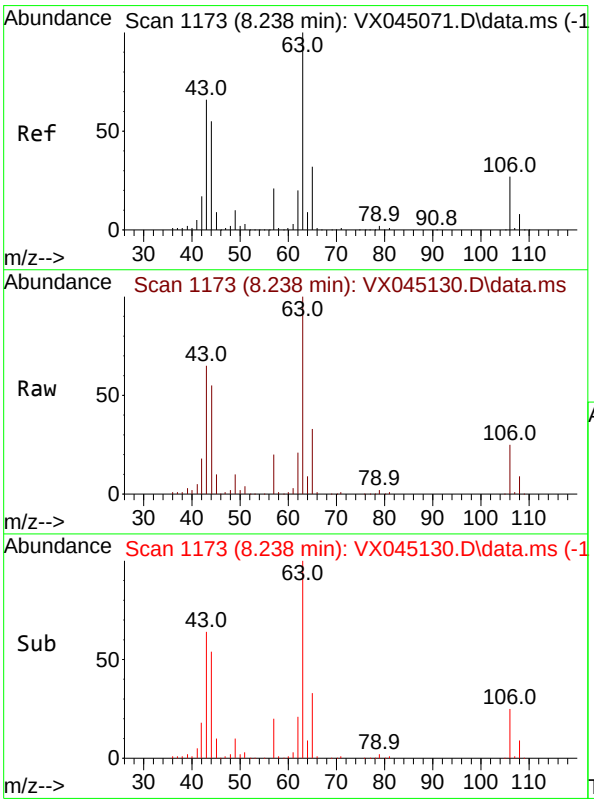
Reviewed By :John Carlone 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025

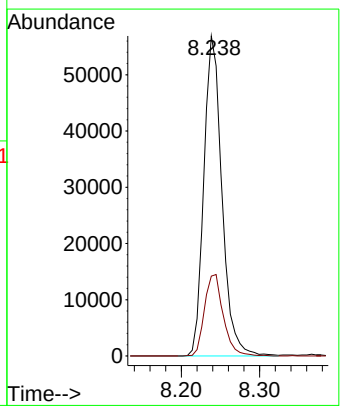


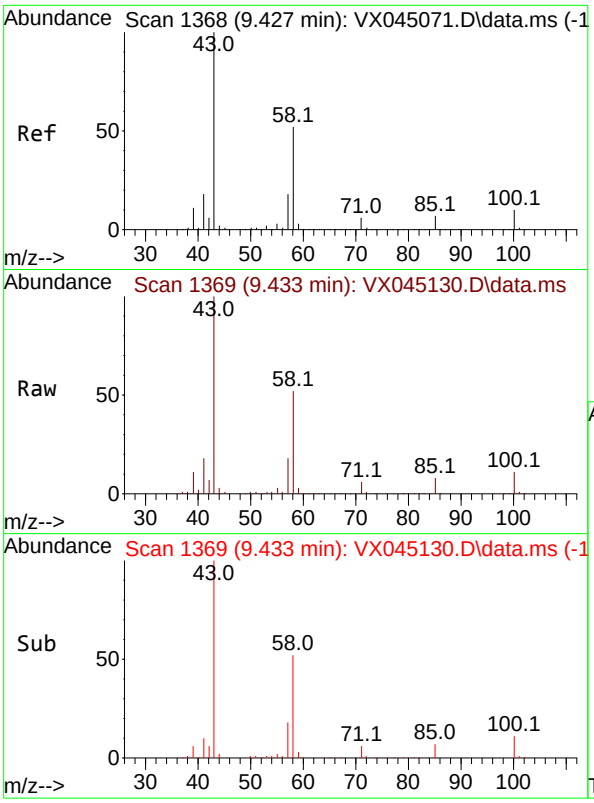


#58
2-Chloroethyl Vinyl ether
Concen: 98.854 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion: 63 Resp: 91212

Ion	Ratio	Lower	Upper
63	100		
106	26.4	21.5	32.3





#59
2-Hexanone
Concen: 89.062 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion: 43 Resp: 13469

Ion	Ratio	Lower	Upper
43	100		
58	51.6	25.9	77.6

Instrument :
MSVOA_X
ClientSampleId :
VX0305WBS01

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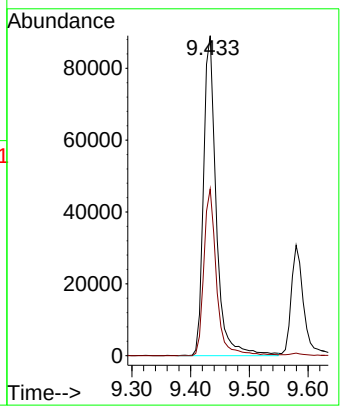
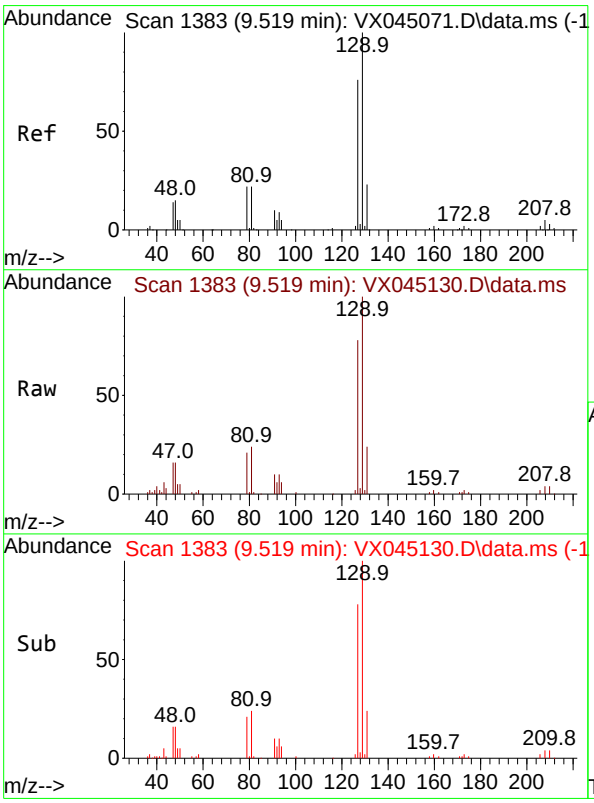
Reviewed By :John Carlone 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025

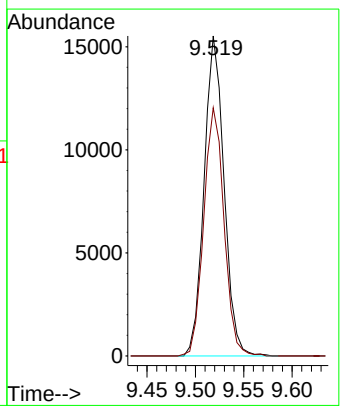


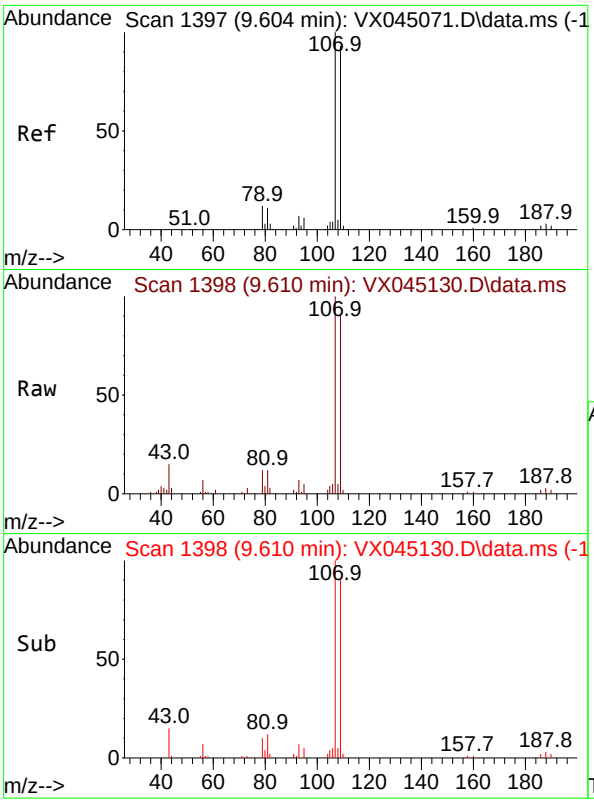


#60
Dibromochloromethane
Concen: 17.117 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion:129 Resp: 22271

Ion	Ratio	Lower	Upper
129	100		
127	79.0	38.5	115.5





#61
1,2-Dibromoethane
Concen: 17.897 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion:107 Resp: 2223

Ion	Ratio	Lower	Upper
107	100		
109	92.8	76.1	114.1

Instrument :
MSVOA_X
ClientSampleId :
VX0305WBS01

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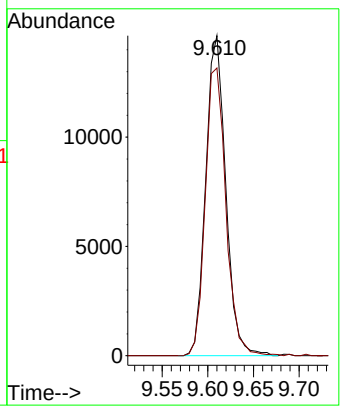
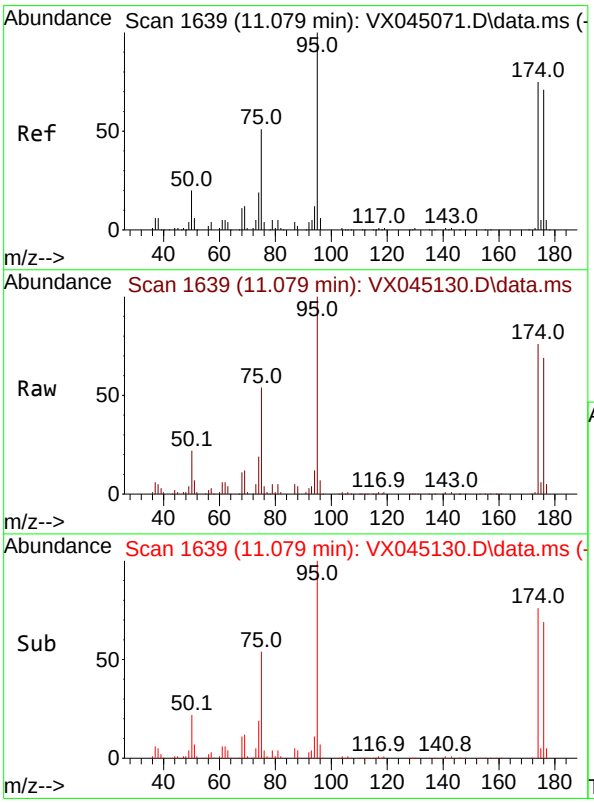
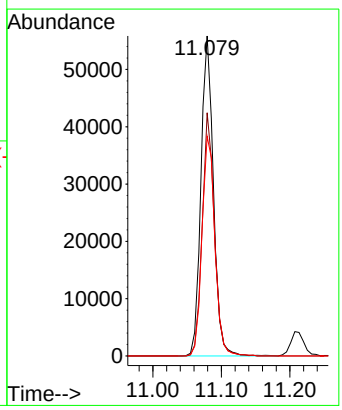


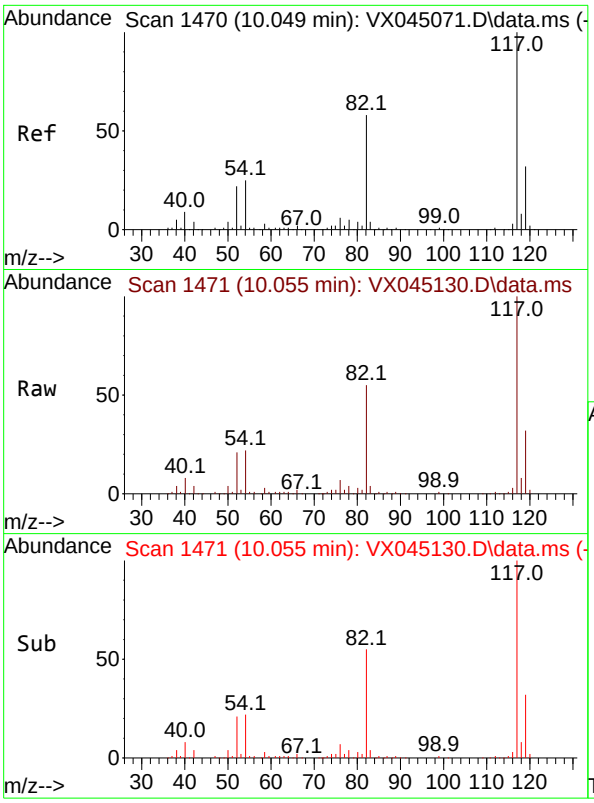


#62
4-Bromofluorobenzene
Concen: 49.515 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion: 95 Resp: 70764

Ion	Ratio	Lower	Upper
95	100		
174	74.2	0.0	148.2
176	71.1	0.0	141.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion:117 Resp: 15316

Ion	Ratio	Lower	Upper
117	100		
82	55.0	46.3	69.5
119	32.4	25.7	38.5

Instrument :
MSVOA_X
ClientSampleId :
VX0305WBS01

Manual Integrations
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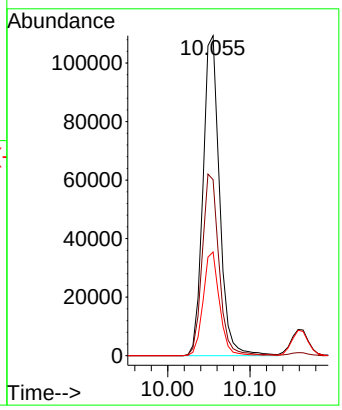
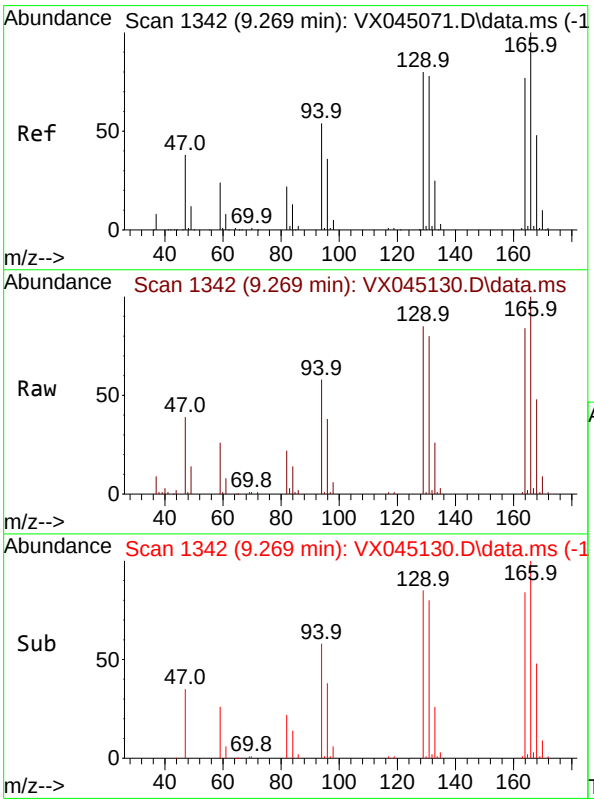
Supervised By :Mahesh Dadoda 03/06/2025

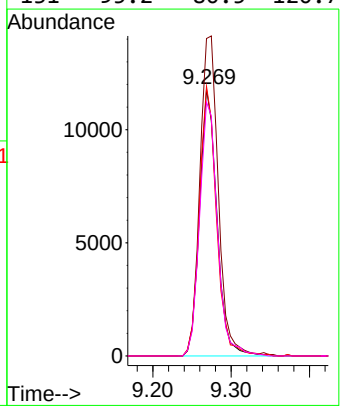


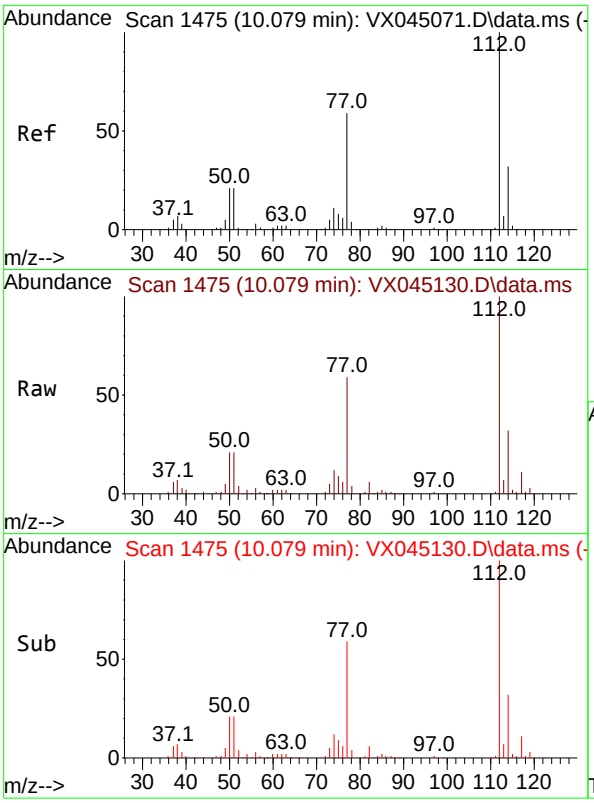


#64
Tetrachloroethene
Concen: 18.522 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion:164 Resp: 18169

Ion	Ratio	Lower	Upper
164	100		
166	119.1	103.6	155.4
129	101.1	82.7	124.1
131	95.2	80.5	120.7





#65
Chlorobenzene
Concen: 18.531 ug/l
RT: 10.079 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion:112 Resp: 6005

Ion	Ratio	Lower	Upper
112	100		
114	31.6	26.0	39.0

Instrument :
MSVOA_X
ClientSampleId :
VX0305WBS01

Manual Integrations
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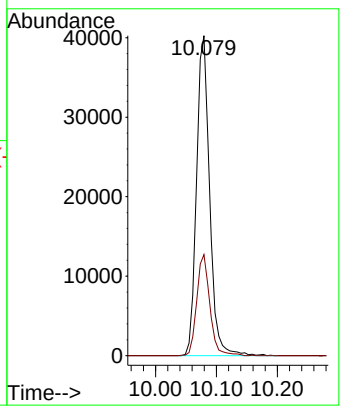
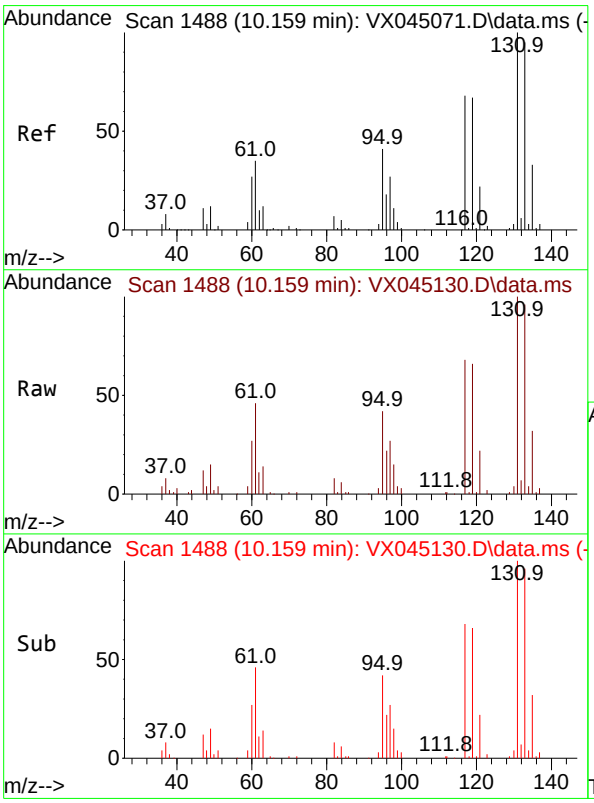
Reviewed By :John Carlone 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025

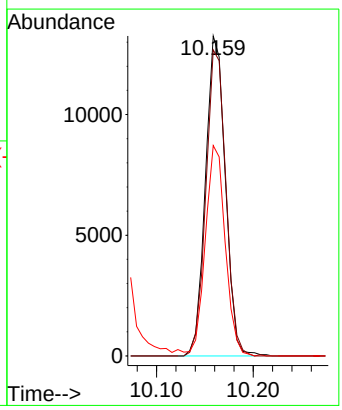


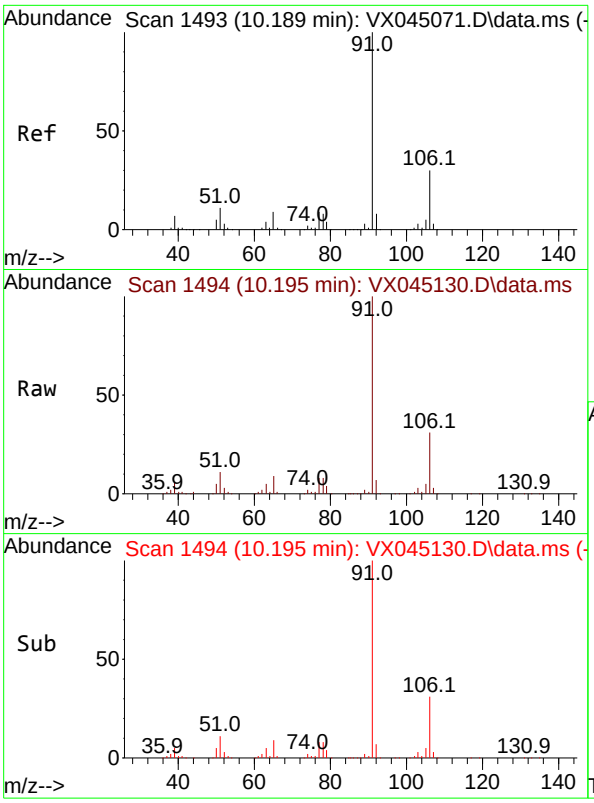


#66
1,1,1,2-Tetrachloroethane
Concen: 17.494 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion:131 Resp: 18881

Ion	Ratio	Lower	Upper
131	100		
133	96.3	48.6	145.9
119	66.0	33.9	101.7





#67
Ethyl Benzene
Concen: 18.527 ug/l
RT: 10.195 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion: 91 Resp: 10462

Ion	Ratio	Lower	Upper
91	100		
106	30.8	23.9	35.9

Instrument :
MSVOA_X
ClientSampleId :
VX0305WBS01

Manual Integrations
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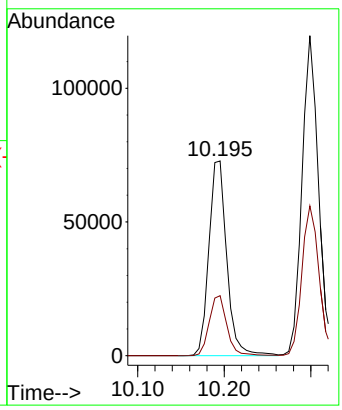
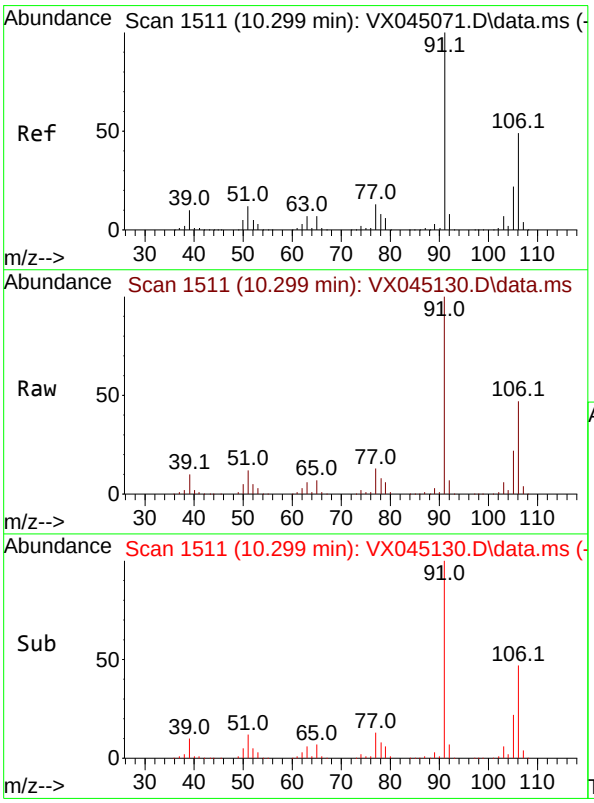
Reviewed By :John Carlone 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025

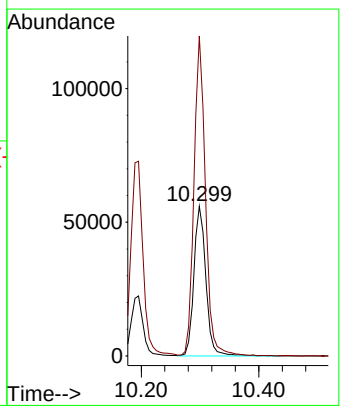


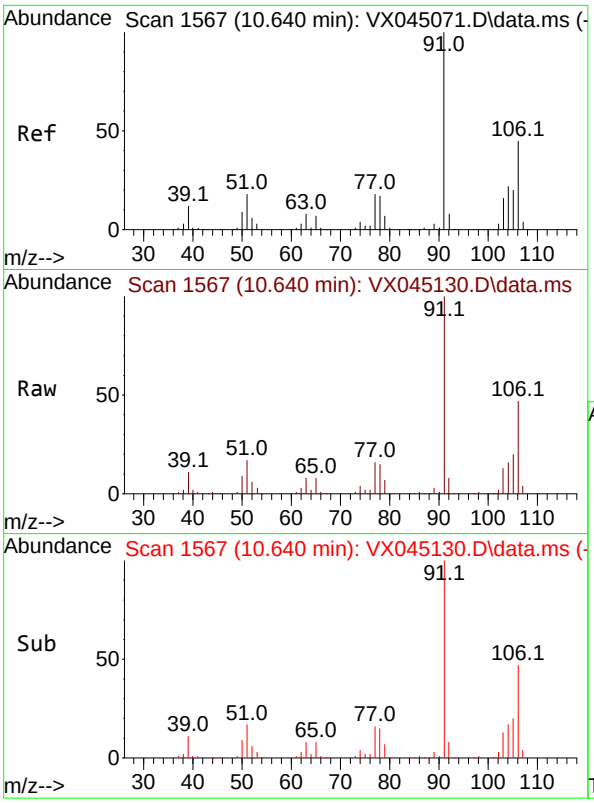


#68
m/p-Xylenes
Concen: 38.326 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion:106 Resp: 79227

Ion	Ratio	Lower	Upper
106	100		
91	203.5	165.4	248.0





#69
o-Xylene
Concen: 18.515 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion:106 Resp: 3860

Ion	Ratio	Lower	Upper
106	100		
91	216.5	109.9	329.6

Instrument :
MSVOA_X
ClientSampleId :
VX0305WBS01

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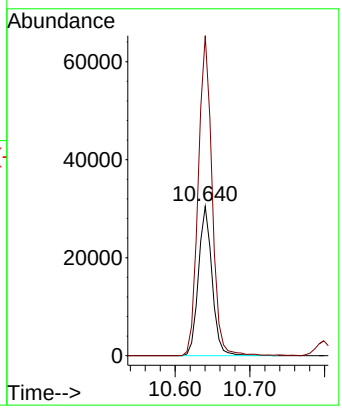
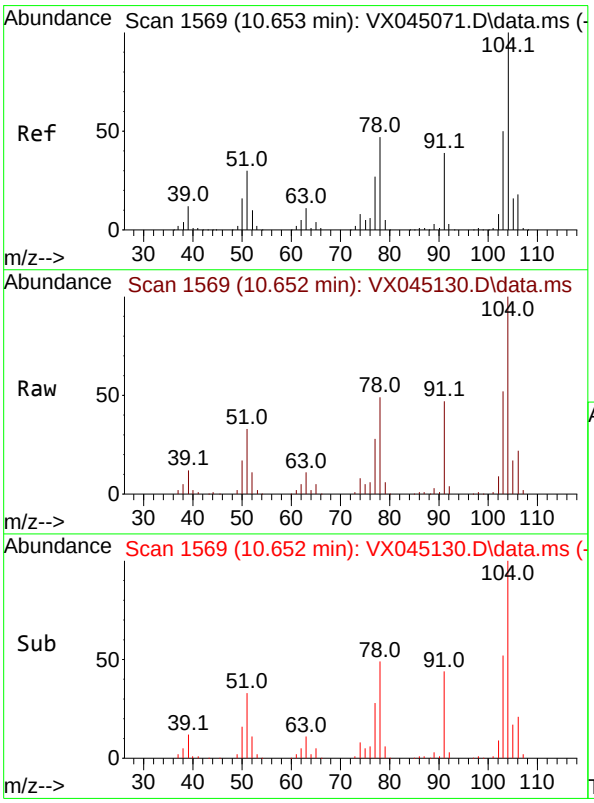
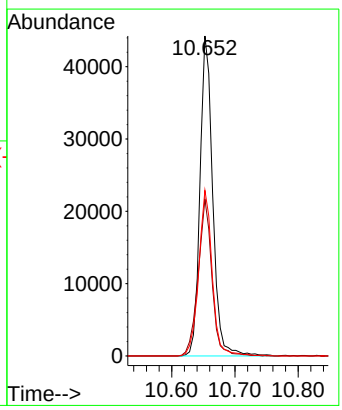


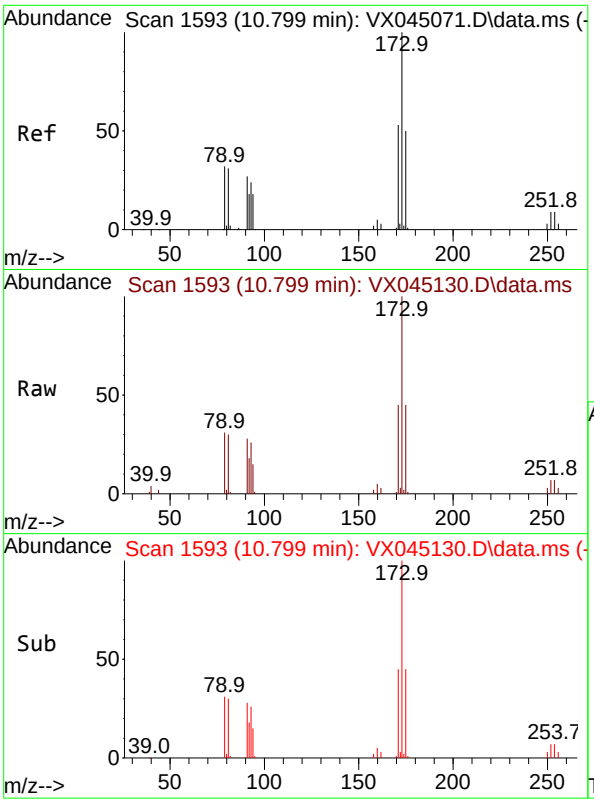


#70
Styrene
Concen: 18.414 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion:104 Resp: 62119

Ion	Ratio	Lower	Upper
104	100		
78	52.9	42.2	63.4
103	55.1	43.8	65.8





#71
Bromoform
Concen: 17.476 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion:173 Resp: 1422

Ion	Ratio	Lower	Upper
173	100		
175	48.2	24.6	73.6
254	0.0	0.0	0.0

Instrument :
MSVOA_X
ClientSampleId :
VX0305WBS01

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Reviewed By :John Carlone 03/06/2025
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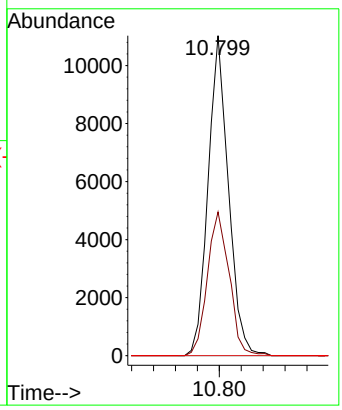
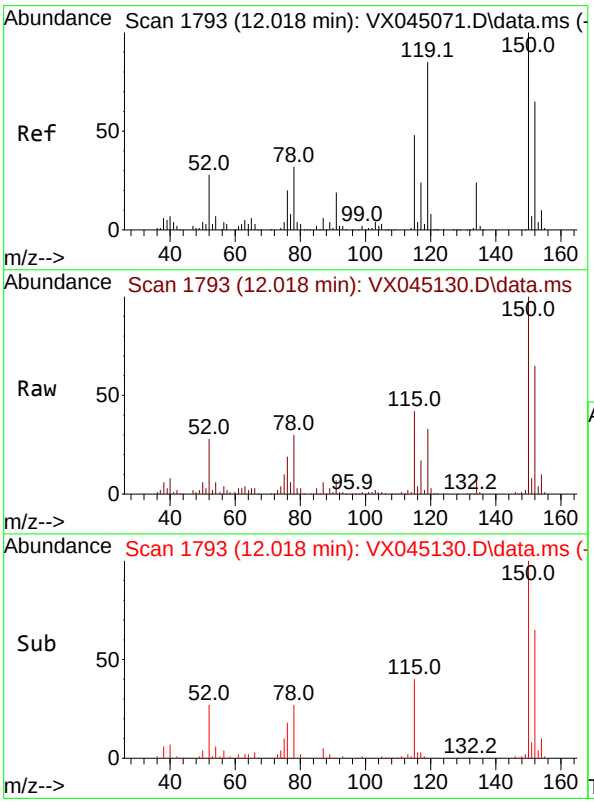
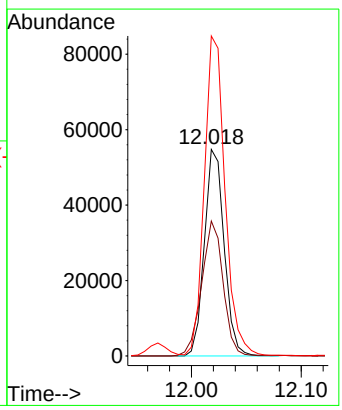


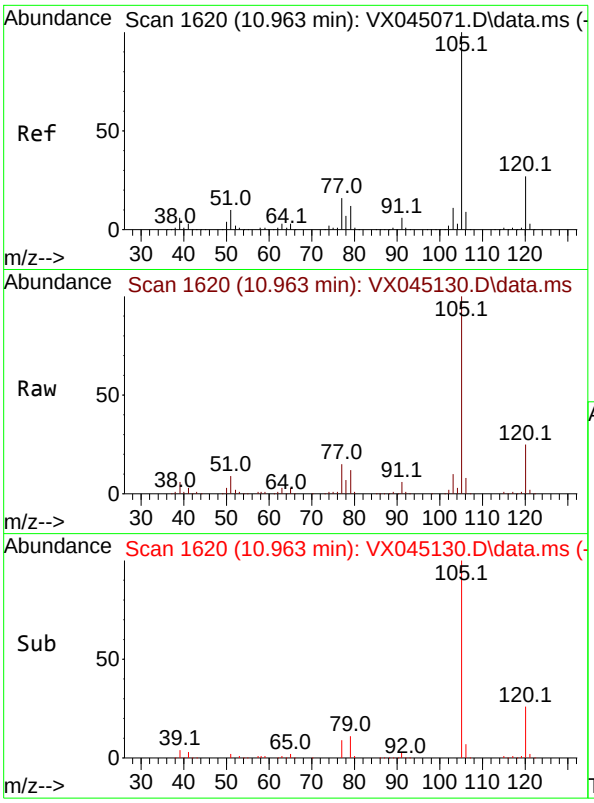


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion:152 Resp: 68669

Ion	Ratio	Lower	Upper
152	100		
115	70.5	44.2	132.6
150	162.2	0.0	349.0





#73
Isopropylbenzene
Concen: 18.537 ug/l
RT: 10.963 min Scan# 1(
Delta R.T. -0.000 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion:105 Resp: 9935

Ion	Ratio	Lower	Upper
105	100		
120	26.0	13.2	39.5

Instrument :
MSVOA_X
ClientSampleId :
VX0305WBS01

Manual Integrations
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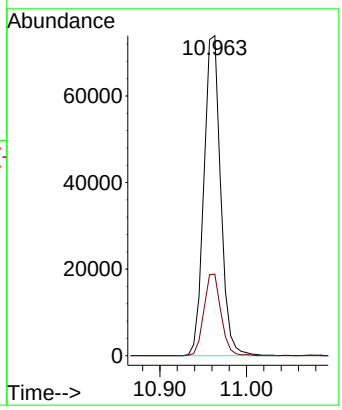
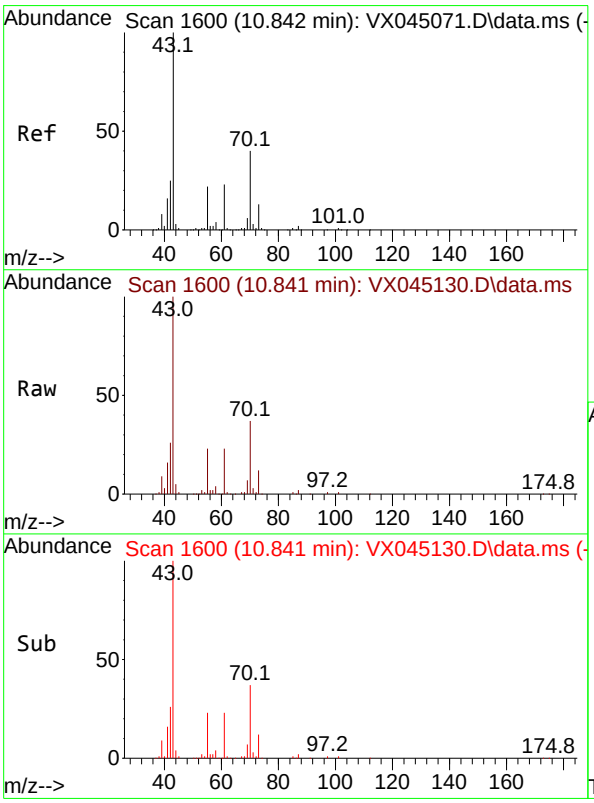
Supervised By :Mahesh Dadoda 03/06/2025

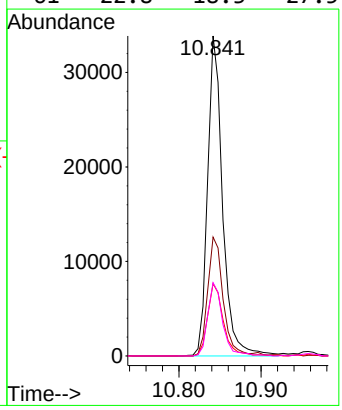


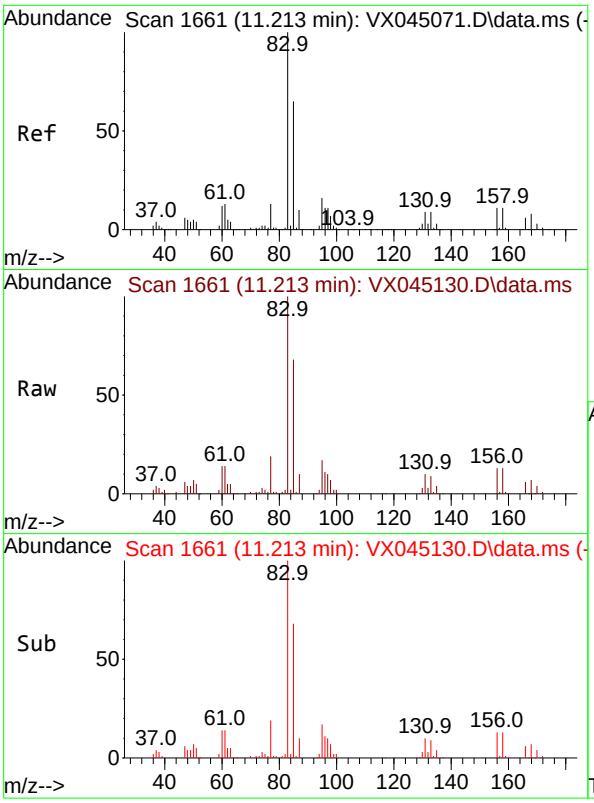


#74
N-amyl acetate
Concen: 17.106 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion: 43 Resp: 43022

Ion	Ratio	Lower	Upper
43	100		
70	38.9	31.8	47.6
55	23.9	18.3	27.5
61	22.8	18.3	27.5





#75
1,1,2,2-Tetrachloroethane
Concen: 17.495 ug/l
RT: 11.213 min Scan# 1(
Delta R.T. -0.000 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion: 83 Resp: 3441(

Ion	Ratio	Lower	Upper
83	100		
131	9.7	4.5	13.4
85	65.6	31.7	95.1

Instrument :
MSVOA_X
ClientSampleId :
VX0305WBS01

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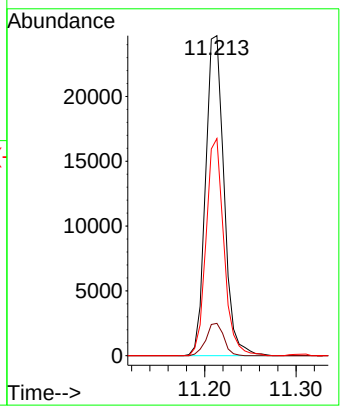
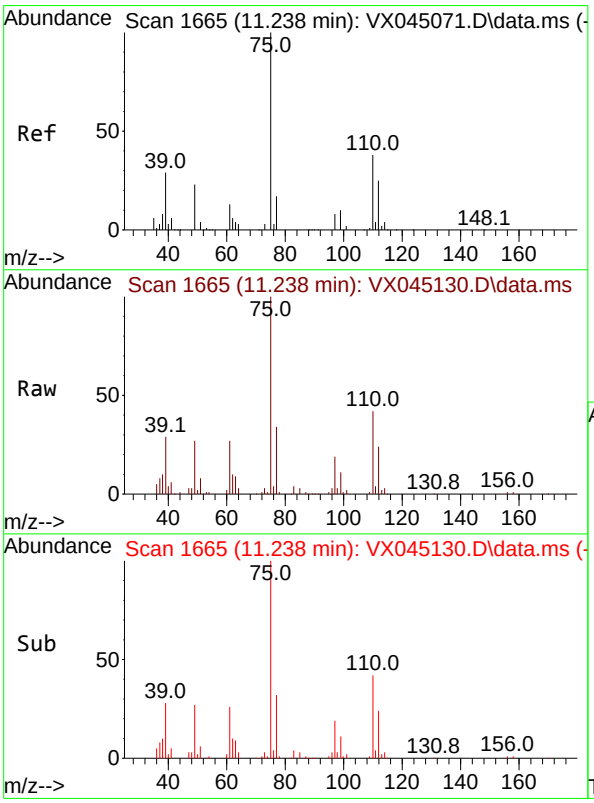
Reviewed By :John Carlone 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025

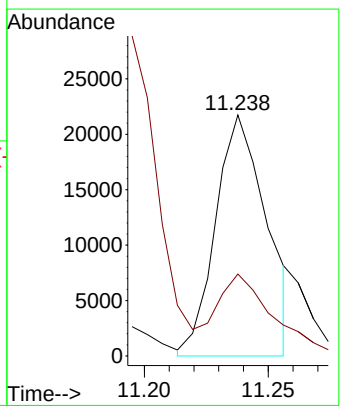


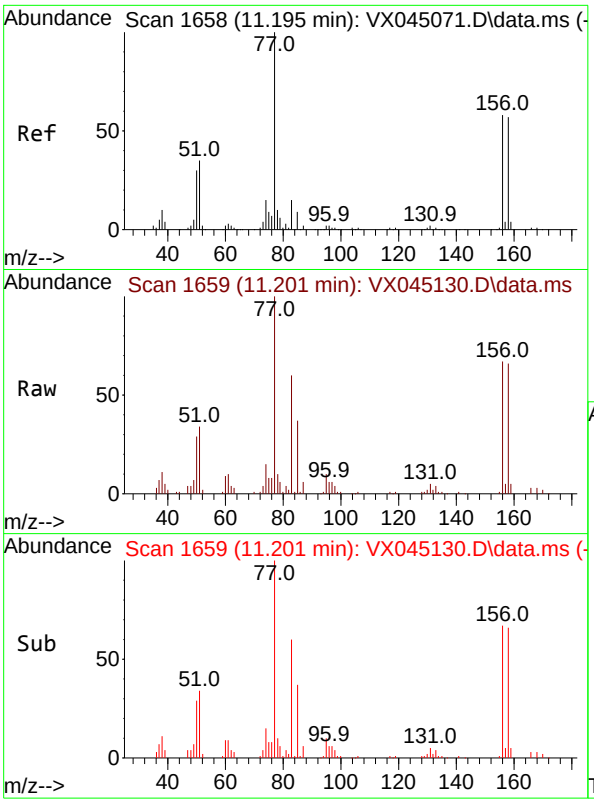


#76
1,2,3-Trichloropropane
Concen: 19.442 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion: 75 Resp: 31073

Ion	Ratio	Lower	Upper
75	100		
77	38.3	20.7	62.1





#77
Bromobenzene
Concen: 17.813 ug/l
RT: 11.201 min Scan# 1(
Delta R.T. 0.006 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion:156 Resp: 2252(

Ion	Ratio	Lower	Upper
156	100		
77	169.5	85.8	257.4
158	98.8	48.4	145.2

Instrument :
MSVOA_X
ClientSampleId :
VX0305WBS01

Manual Integrations
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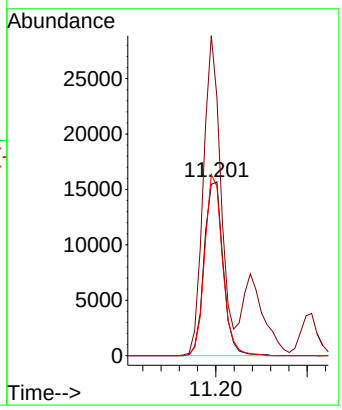
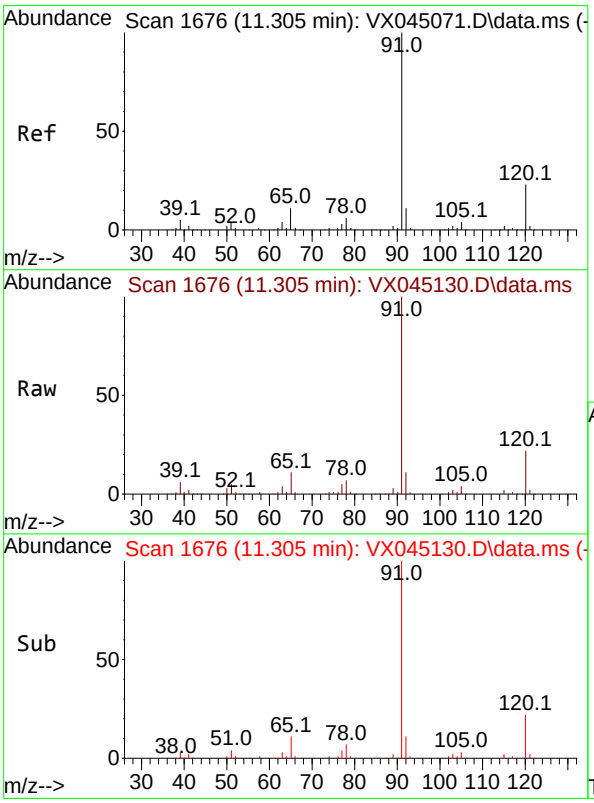
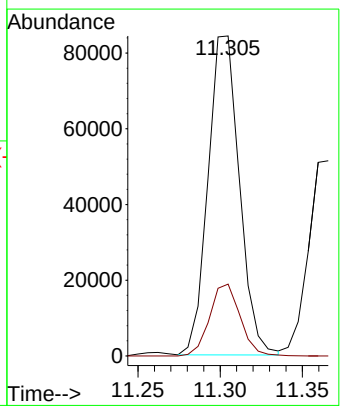


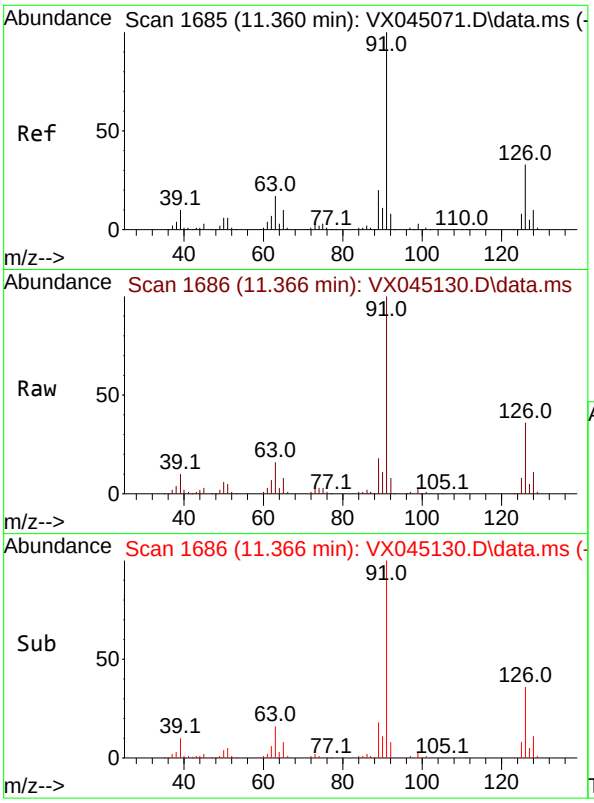


#78
n-propylbenzene
Concen: 18.492 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion: 91 Resp: 111961

Ion	Ratio	Lower	Upper
91	100		
120	21.9	11.2	33.6





#79
2-Chlorotoluene
Concen: 17.631 ug/l
RT: 11.366 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion: 91 Resp: 6798

Ion	Ratio	Lower	Upper
91	100		
126	34.0	16.4	49.4

Instrument :
MSVOA_X
ClientSampleId :
VX0305WBS01

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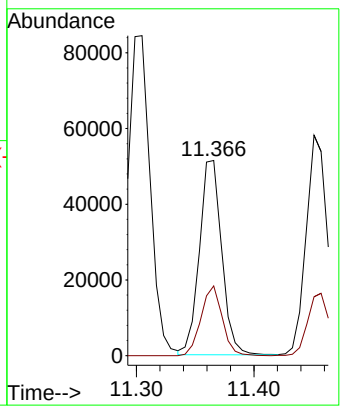
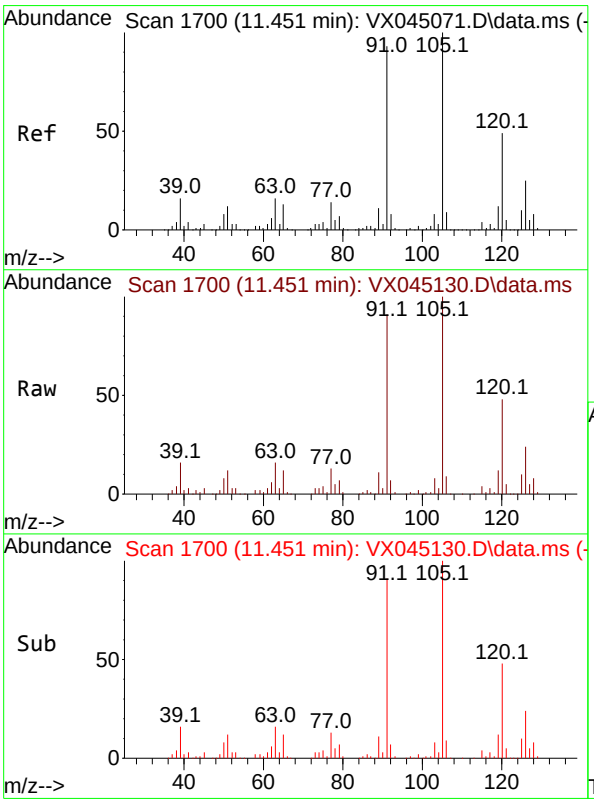
Reviewed By :John Carlone 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025

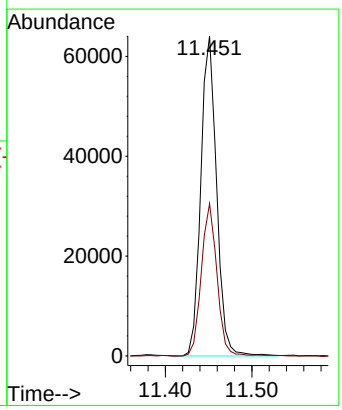


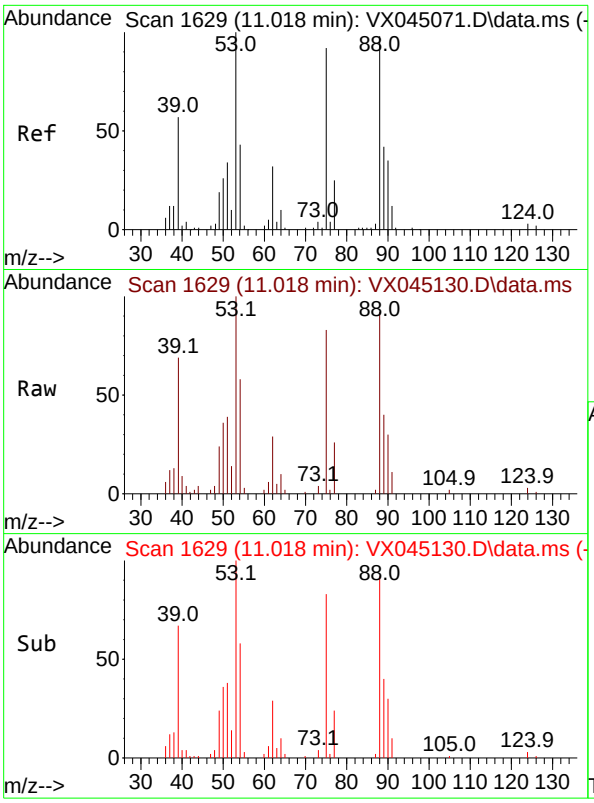


#80
1,3,5-Trimethylbenzene
Concen: 18.707 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion:105 Resp: 81071

Ion	Ratio	Lower	Upper
105	100		
120	47.2	24.1	72.2





#81
trans-1,4-Dichloro-2-butene
Concen: 16.241 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion: 75 Resp: 758

Ion	Ratio	Lower	Upper
75	100		
53	129.1	88.5	132.7
89	47.1	36.2	54.4

Instrument :
MSVOA_X
ClientSampleId :
VX0305WBS01

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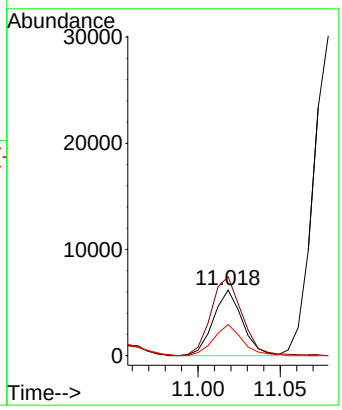
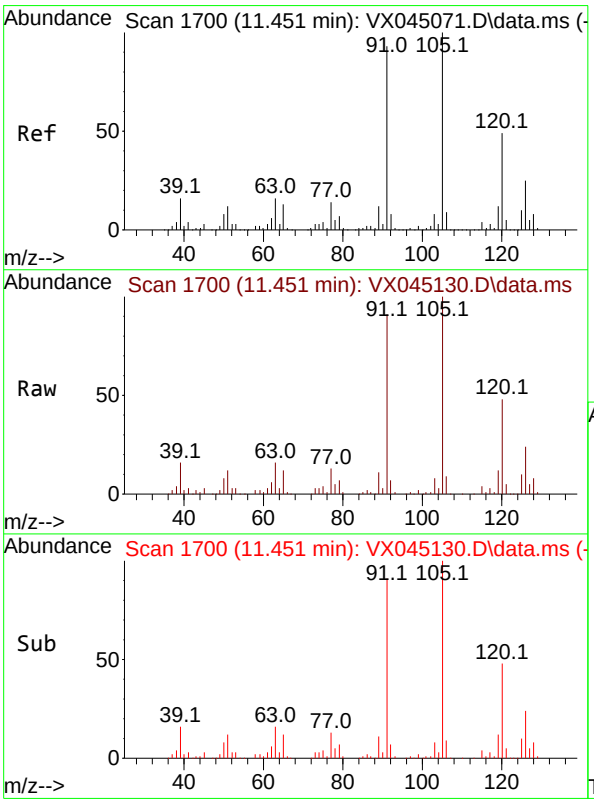
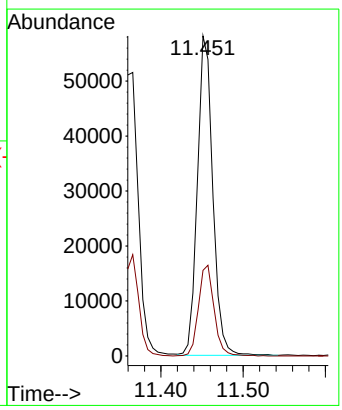


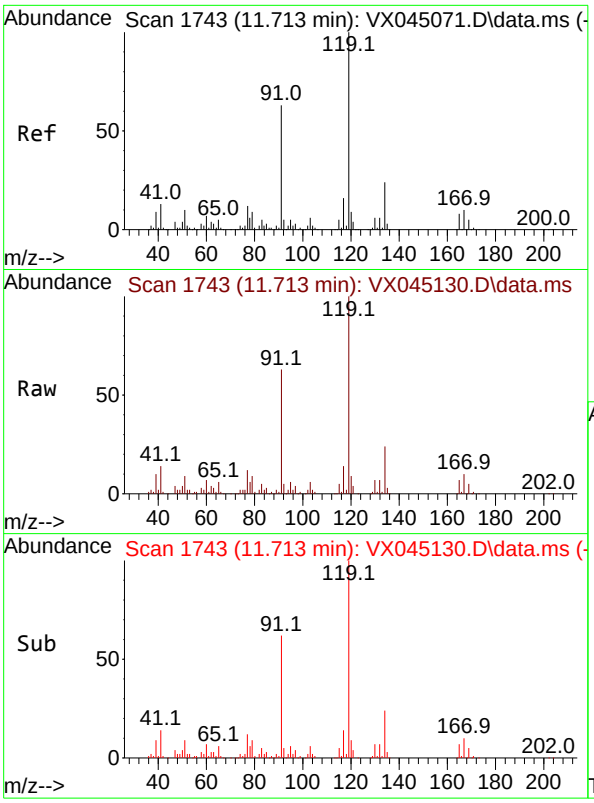


#82
4-Chlorotoluene
Concen: 18.001 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion: 91 Resp: 75650

Ion	Ratio	Lower	Upper
91	100		
126	28.8	14.1	42.4





#83
tert-Butylbenzene
Concen: 18.004 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion:119 Resp: 8017

Ion	Ratio	Lower	Upper
119	100		
91	61.0	30.7	92.1
134	24.2	11.7	35.0

Instrument :
MSVOA_X
ClientSampleId :
VX0305WBS01

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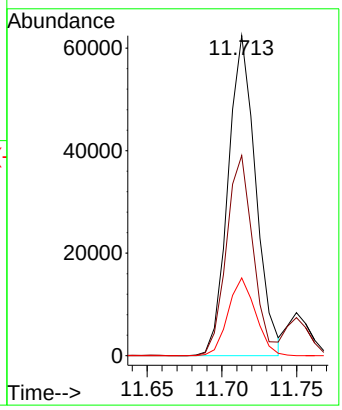
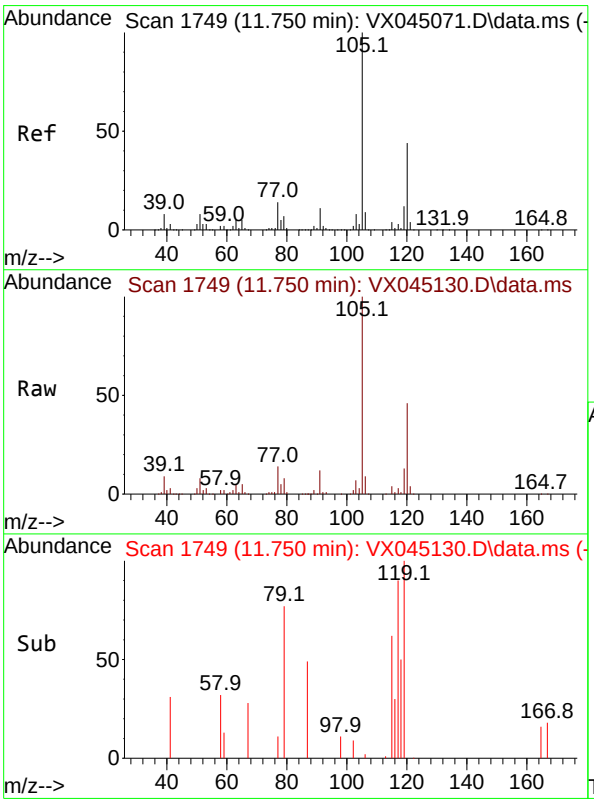
Reviewed By :John Carlone 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025

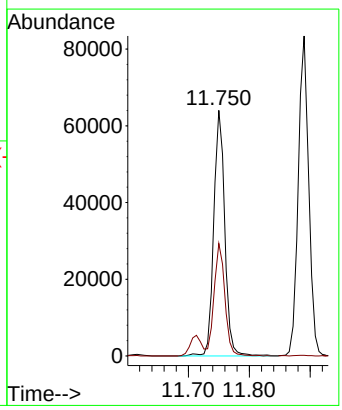


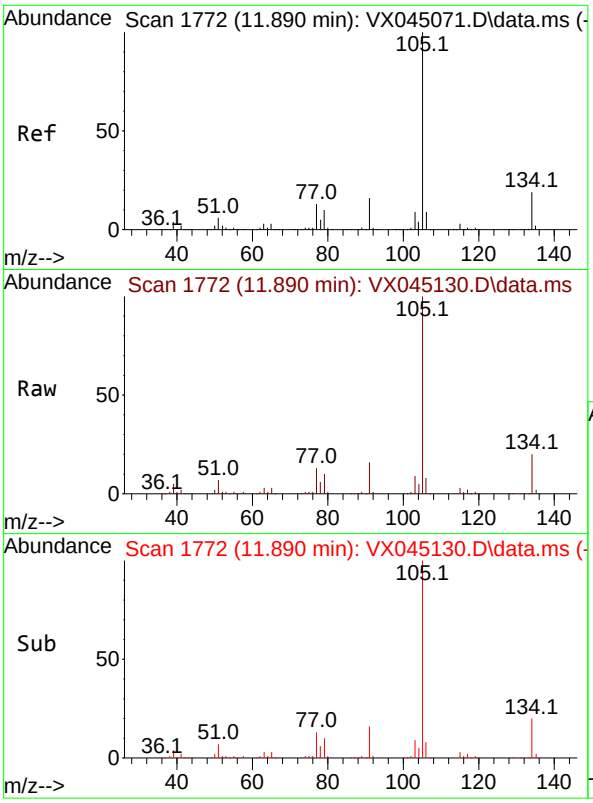


#84
1,2,4-Trimethylbenzene
Concen: 18.462 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion:105 Resp: 80507

Ion	Ratio	Lower	Upper
105	100		
120	45.2	22.1	66.1





#85
sec-Butylbenzene
Concen: 18.757 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion:105 Resp: 10005

Ion	Ratio	Lower	Upper
105	100		
134	19.4	9.8	29.4

Instrument :
MSVOA_X
ClientSampleId :
VX0305WBS01

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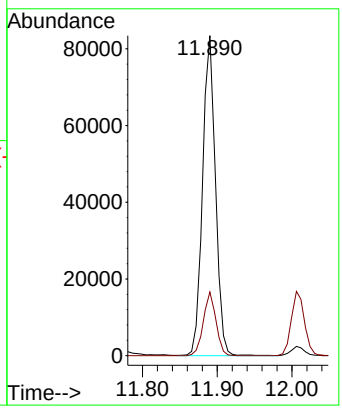
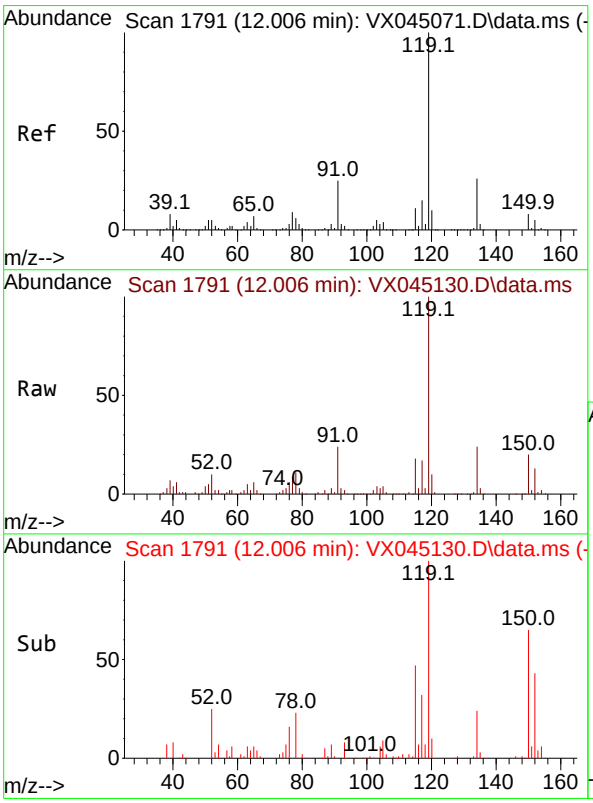
Supervised By :Mahesh Dadoda 03/06/2025

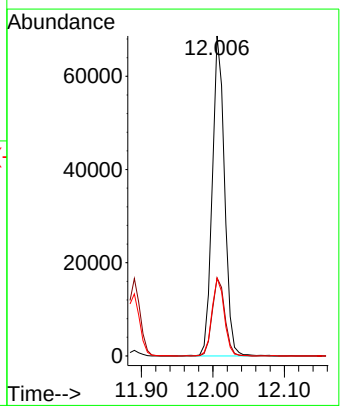


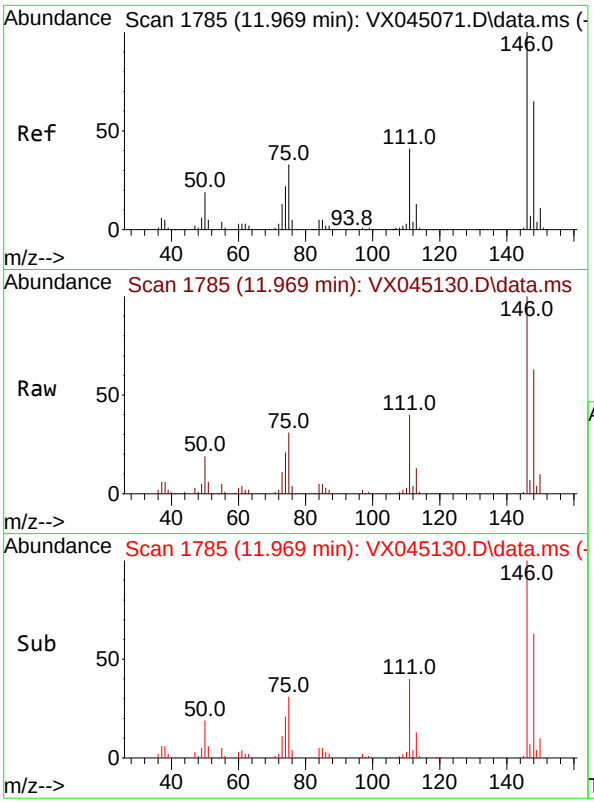


#86
p-Isopropyltoluene
Concen: 18.957 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion:119 Resp: 81717

Ion	Ratio	Lower	Upper
119	100		
134	25.1	12.9	38.6
91	24.5	12.7	38.0





#87
1,3-Dichlorobenzene
Concen: 18.360 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion:146 Resp: 4142

Ion	Ratio	Lower	Upper
146	100		
111	41.9	21.1	63.4
148	62.9	31.9	95.7

Instrument :
MSVOA_X
ClientSampleId :
VX0305WBS01

Manual Integrations
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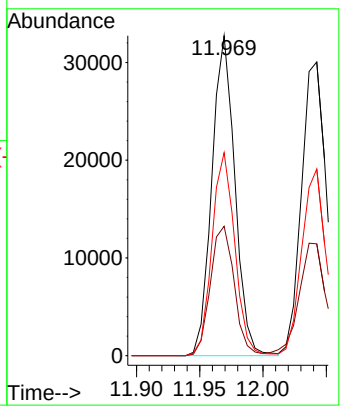
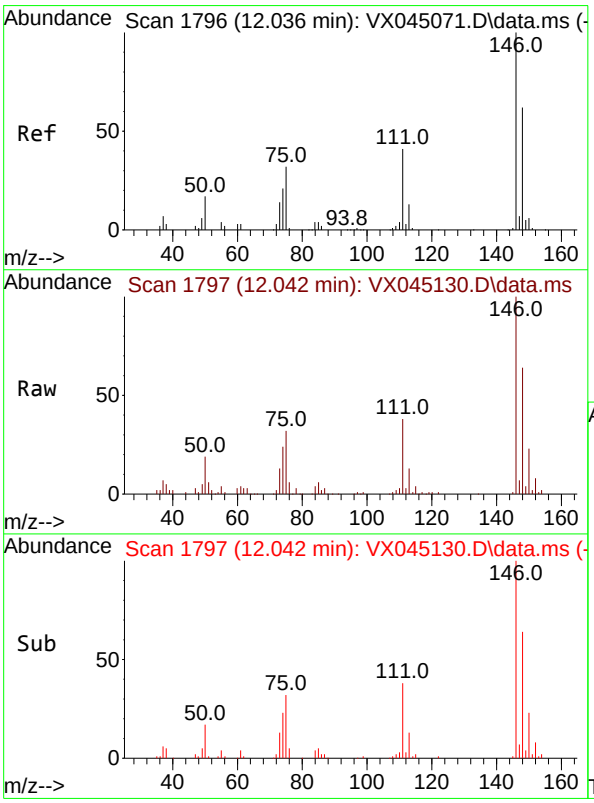
Reviewed By :John Carlone 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025

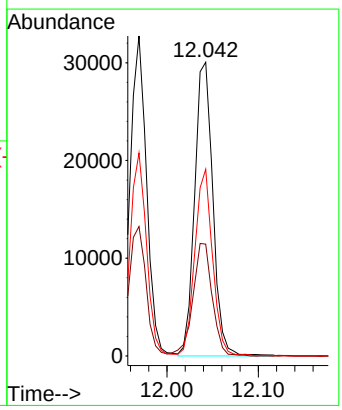


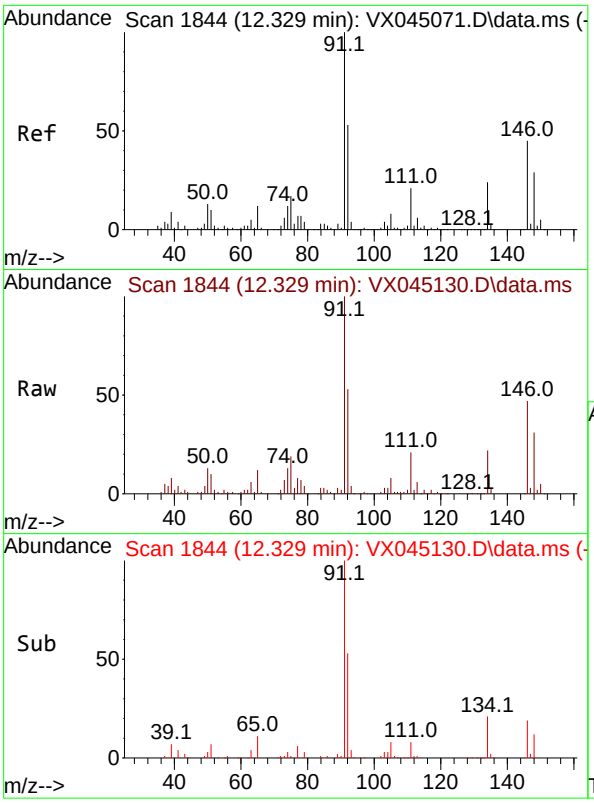


#88
1,4-Dichlorobenzene
Concen: 18.237 ug/l
RT: 12.042 min Scan# 1797
Delta R.T. 0.006 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion:146 Resp: 41624

Ion	Ratio	Lower	Upper
146	100		
111	40.9	20.2	60.5
148	61.9	31.9	95.9





#89
n-Butylbenzene
Concen: 18.510 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion: 91 Resp: 6872

Ion	Ratio	Lower	Upper
91	100		
92	53.9	26.7	80.0
134	24.2	12.2	36.6

Instrument :
MSVOA_X
ClientSampleId :
VX0305WBS01

Manual Integrations
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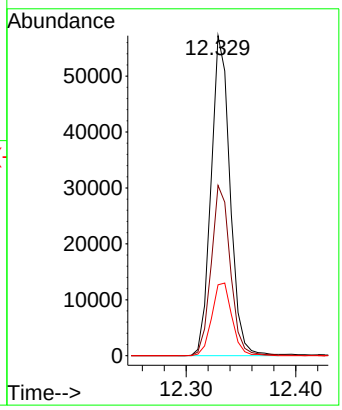
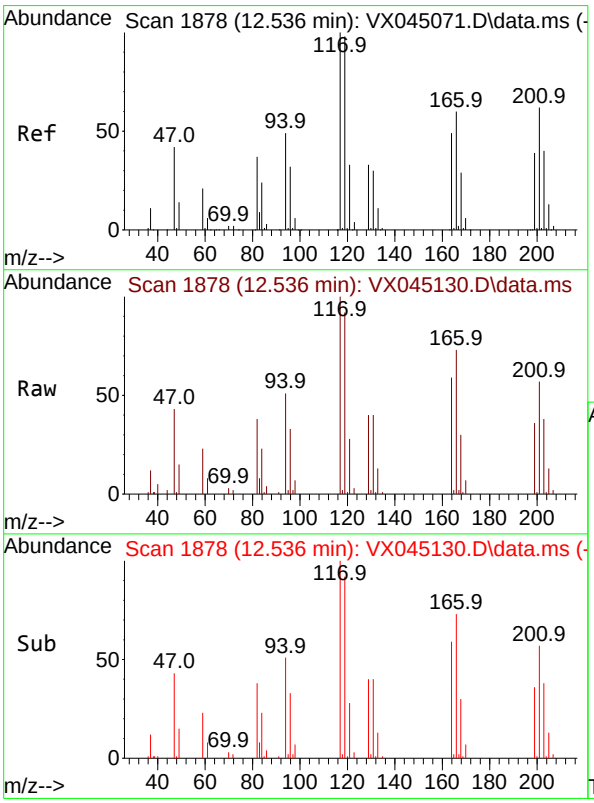
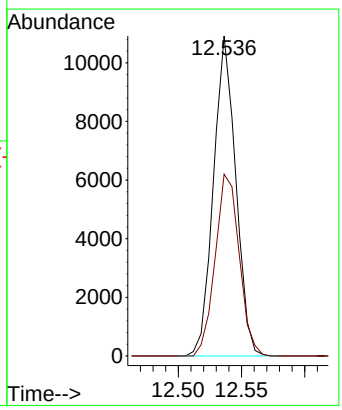


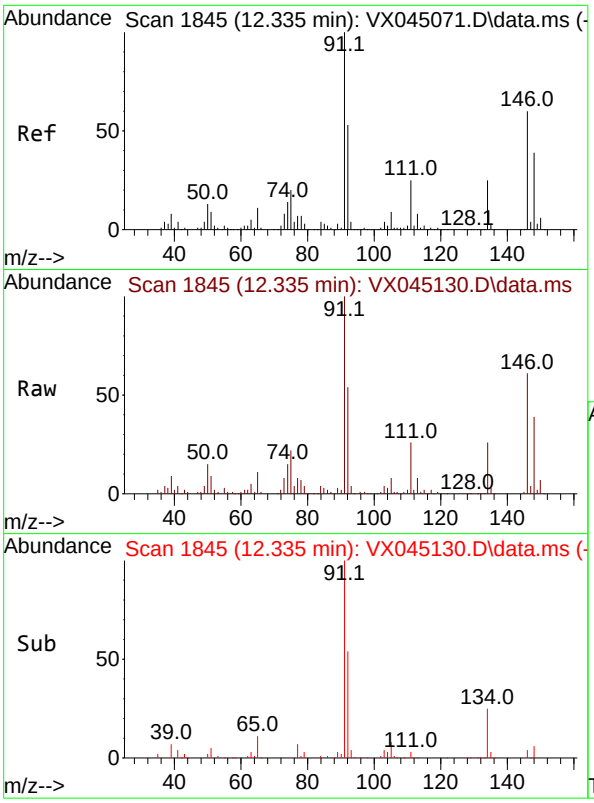


#90
Hexachloroethane
Concen: 17.133 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion:117 Resp: 13358

Ion	Ratio	Lower	Upper
117	100		
201	61.3	31.9	95.9





#91
1,2-Dichlorobenzene
Concen: 18.196 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion:146 Resp: 4117

Ion	Ratio	Lower	Upper
146	100		
111	43.4	21.6	65.0
148	64.3	31.9	95.9

Instrument :
MSVOA_X
ClientSampleId :
VX0305WBS01

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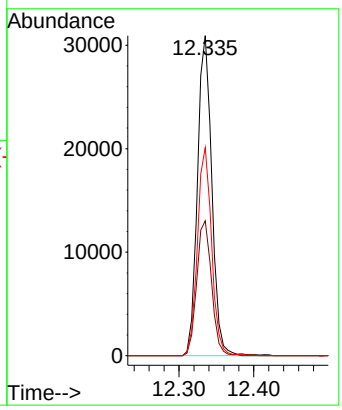
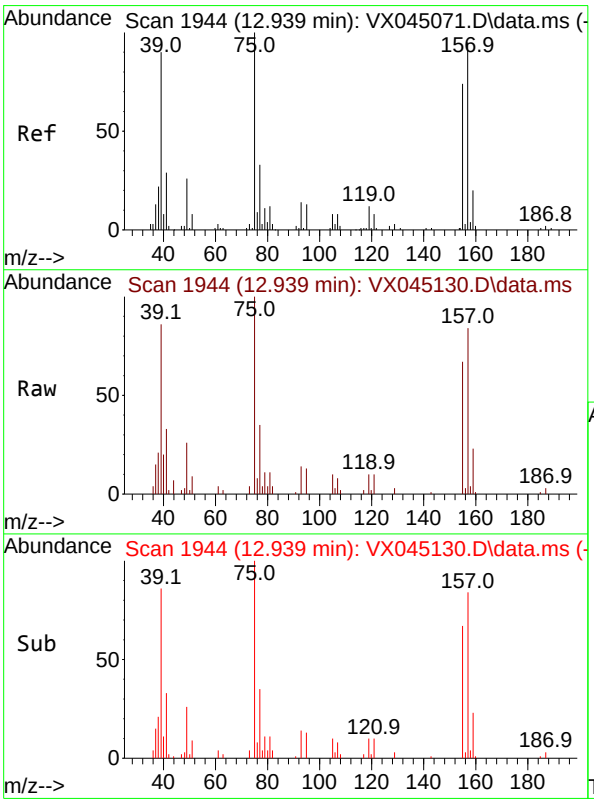
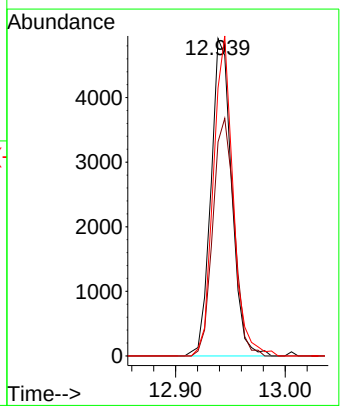


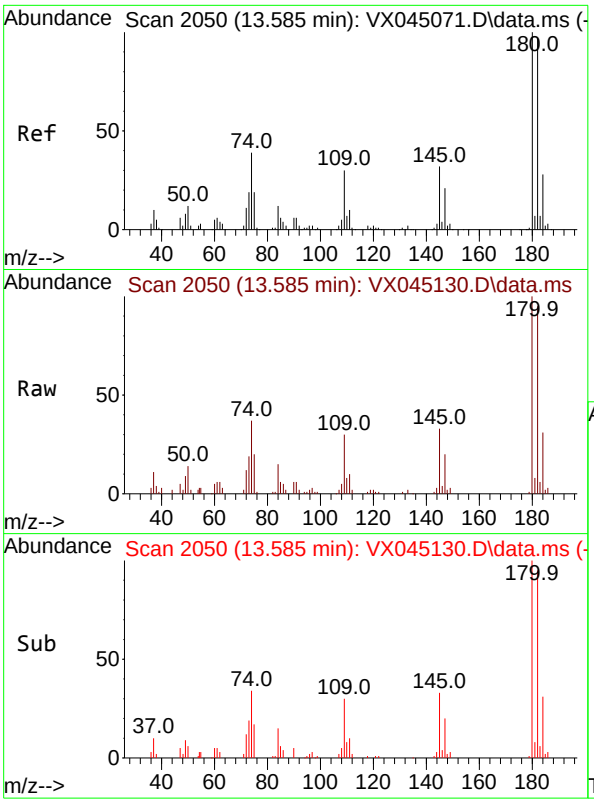


#92
1,2-Dibromo-3-Chloropropane
Concen: 16.822 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.000 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion: 75 Resp: 6446

Ion	Ratio	Lower	Upper
75	100		
155	77.6	39.6	118.7
157	96.4	51.1	153.4





#93
1,2,4-Trichlorobenzene
Concen: 18.020 ug/l
RT: 13.585 min Scan# 2(
Delta R.T. -0.000 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

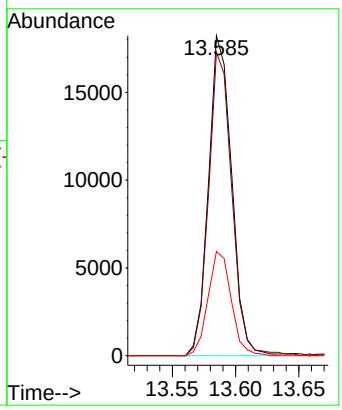
Tgt Ion:180 Resp: 2322

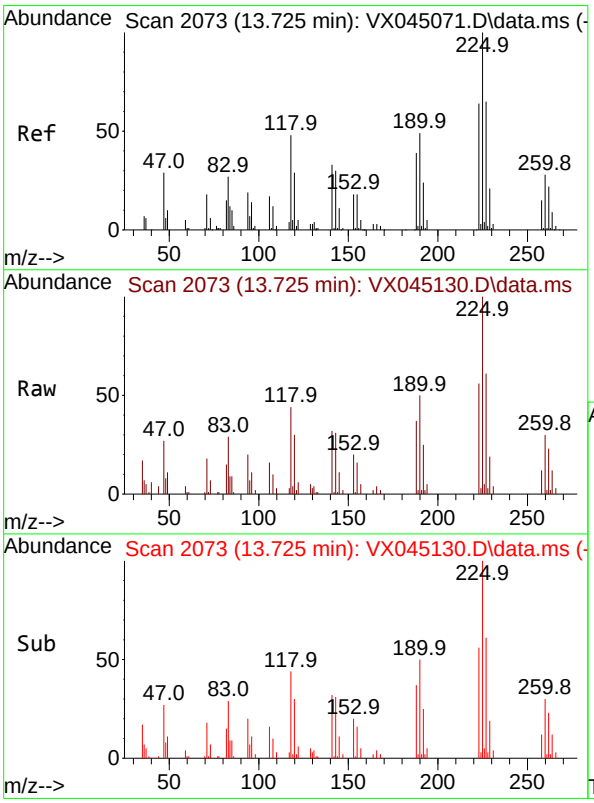
Ion	Ratio	Lower	Upper
180	100		
182	95.2	47.3	141.9
145	32.6	16.3	48.9

Instrument :
MSVOA_X
ClientSampleId :
VX0305WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025

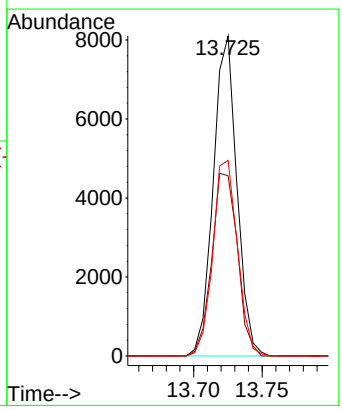


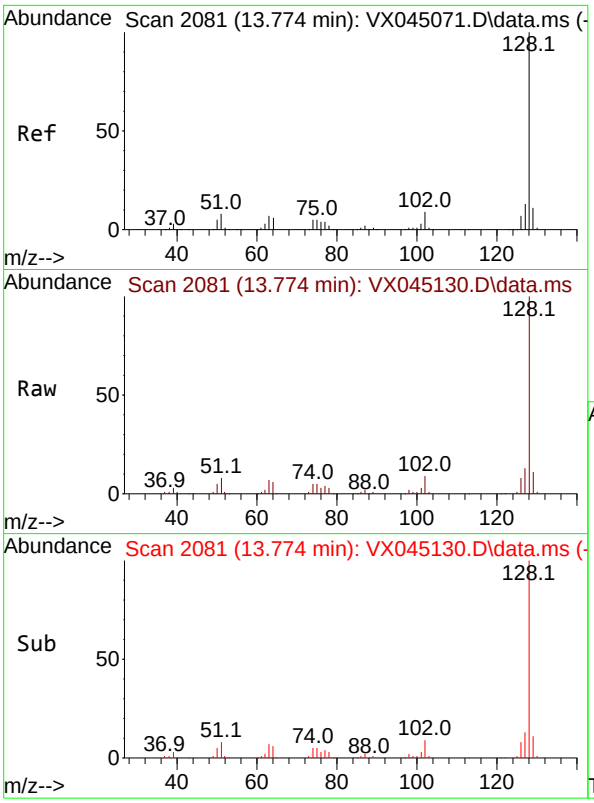


#94
Hexachlorobutadiene
Concen: 18.359 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion:225 Resp: 9699

Ion	Ratio	Lower	Upper
225	100		
223	62.0	31.9	95.7
227	63.7	31.4	94.0





#95
Naphthalene
Concen: 18.028 ug/l
RT: 13.774 min Scan# 2(
Delta R.T. -0.000 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

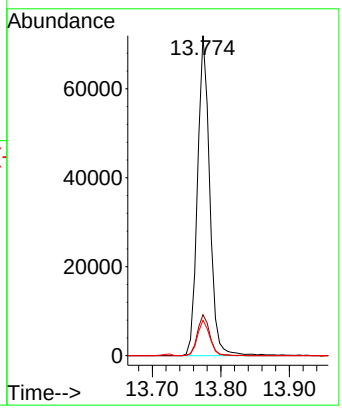
Tgt Ion:128 Resp: 8925

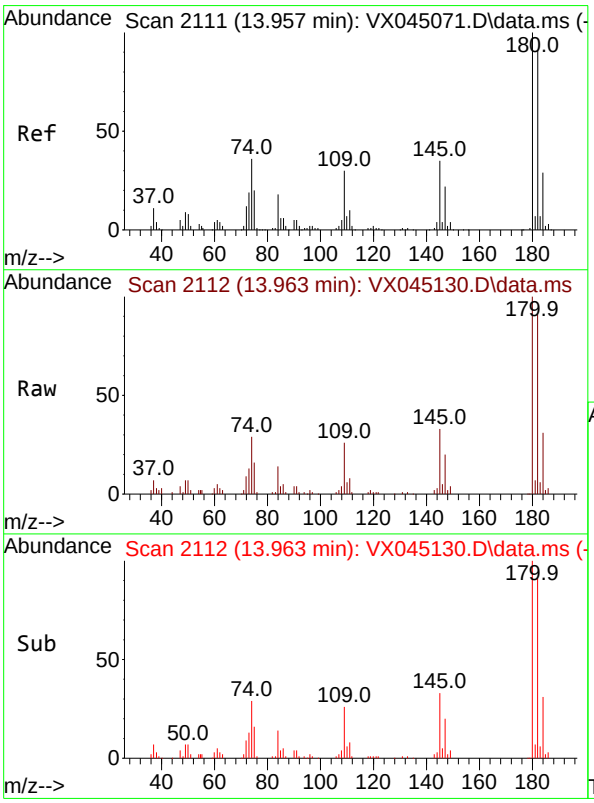
Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.3	15.5
129	11.2	8.7	13.1

Instrument :
MSVOA_X
ClientSampleId :
VX0305WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025

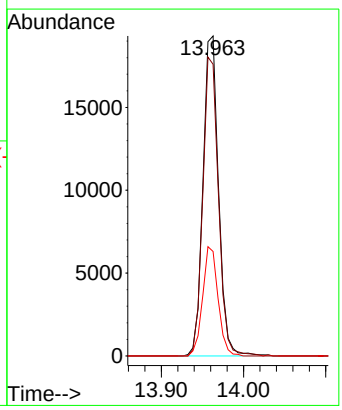




#96
1,2,3-Trichlorobenzene
Concen: 18.688 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. 0.006 min
Lab File: VX045130.D
Acq: 05 Mar 2025 10:26

Tgt Ion:180 Resp: 25405

Ion	Ratio	Lower	Upper
180	100		
182	93.8	47.5	142.6
145	33.8	17.0	50.9



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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger STC PTC Site # D3868221	Date Received:	
Client Sample ID:	VX0306WBS01	SDG No.:	Q1501
Lab Sample ID:	VX0306WBS01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045158.D	1		03/06/25 11:10	VX030625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	19.4		0.34	1.00	ug/L
75-35-4	1,1-Dichloroethene	21.3		0.26	1.00	ug/L
75-34-3	1,1-Dichloroethane	21.0		0.23	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	21.2		0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	21.1		0.19	1.00	ug/L
71-43-2	Benzene	21.5		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	21.4		0.24	1.00	ug/L
79-01-6	Trichloroethene	20.8		0.32	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	20.2		0.21	1.00	ug/L
127-18-4	Tetrachloroethene	22.2		0.25	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.2		70 (74) - 130 (125)	100%	SPK: 50
1868-53-7	Dibromofluoromethane	50.8		70 (75) - 130 (124)	102%	SPK: 50
2037-26-5	Toluene-d8	50.3		70 (86) - 130 (113)	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.2		70 (77) - 130 (121)	98%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	97100	5.544			
540-36-3	1,4-Difluorobenzene	176000	6.757			
3114-55-4	Chlorobenzene-d5	148000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	67100	12.024			

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\VX030625\
Data File : VX045158.D
Acq On : 06 Mar 2025 11:10
Operator : JC/MD
Sample : VX0306WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 07 00:37:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene	5.544	168	97102	50.000 ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	175752	50.000 ug/l	0.00
63) Chlorobenzene-d5	10.049	117	147757	50.000 ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	67123	50.000 ug/l	0.00
System Monitoring Compounds					
33) 1,2-Dichloroethane-d4	5.952	65	77517	50.187 ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 100.380%		
35) Dibromofluoromethane	5.385	113	59755	50.846 ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.700%		
50) Toluene-d8	8.647	98	214149	50.263 ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.520%		
62) 4-Bromofluorobenzene	11.079	95	69431	49.179 ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 98.360%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.166	85	25313	20.710 ug/l	96
3) Chloromethane	1.307	50	28610	19.127 ug/l	99
4) Vinyl Chloride	1.374	62	28735	19.365 ug/l	96
5) Bromomethane	1.593	94	11051	18.945 ug/l	98
6) Chloroethane	1.660	64	11910	17.401 ug/l	94
7) Trichlorofluoromethane	1.861	101	41329	21.039 ug/l	98
8) Diethyl Ether	2.136	74	15031	19.563 ug/l	95
9) 1,1,2-Trichlorotrifluo...	2.312	101	25913	22.961 ug/l	99
10) Methyl Iodide	2.440	142	28535	20.232 ug/l	97
11) Tert butyl alcohol	2.995	59	24878	85.035 ug/l	99
12) 1,1-Dichloroethene	2.306	96	25437	21.319 ug/l	96
13) Acrolein	2.239	56	32240	95.330 ug/l	97
14) Allyl chloride	2.654	41	45464	21.406 ug/l	99
15) Acrylonitrile	3.068	53	80620	102.818 ug/l	100
16) Acetone	2.392	43	70356	98.177 ug/l	100
17) Carbon Disulfide	2.495	76	56434	17.758 ug/l	100
18) Methyl Acetate	2.709	43	38789	22.500 ug/l	99
19) Methyl tert-butyl Ether	3.117	73	83027	20.741 ug/l	98
20) Methylene Chloride	2.782	84	28513	20.086 ug/l	93
21) trans-1,2-Dichloroethene	3.081	96	25882	21.957 ug/l	92
22) Diisopropyl ether	3.763	45	92263	21.360 ug/l	92
23) Vinyl Acetate	3.721	43	379422	105.258 ug/l	99
24) 1,1-Dichloroethane	3.605	63	50777	20.975 ug/l	99
25) 2-Butanone	4.568	43	112114	103.935 ug/l	100
26) 2,2-Dichloropropane	4.464	77	31636	27.861 ug/l	98
27) cis-1,2-Dichloroethene	4.483	96	30793	21.161 ug/l	95
28) Bromochloromethane	4.897	49	20937	18.145 ug/l	98
29) Tetrahydrofuran	5.007	42	72574	100.185 ug/l	99
30) Chloroform	5.092	83	50960	21.186 ug/l	100
31) Cyclohexane	5.458	56	46499	22.128 ug/l	91
32) 1,1,1-Trichloroethane	5.379	97	40911	21.059 ug/l	98
36) 1,1-Dichloropropene	5.684	75	34442	21.370 ug/l	99
37) Ethyl Acetate	4.714	43	41415	19.942 ug/l	100
38) Carbon Tetrachloride	5.672	117	33530	20.492 ug/l	98
39) Methylcyclohexane	7.372	83	44224	22.900 ug/l	97
40) Benzene	6.031	78	109500	21.516 ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
Data File : VX045158.D
Acq On : 06 Mar 2025 11:10
Operator : JC/MD
Sample : VX0306WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 07 00:37:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01

Manual Integrations
APPROVED
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
41) Methacrylonitrile	4.922	41	23322	20.769 ug/l	99
42) 1,2-Dichloroethane	6.086	62	39213	21.397 ug/l	100
43) Isopropyl Acetate	6.342	43	62094	20.220 ug/l	100
44) Trichloroethene	7.123	130	24906	20.842 ug/l	97
45) 1,2-Dichloropropane	7.427	63	27481	21.002 ug/l	99
46) Dibromomethane	7.580	93	19832	21.443 ug/l	98
47) Bromodichloromethane	7.818	83	37772	20.821 ug/l	97
48) Methyl methacrylate	7.696	41	31277	20.301 ug/l	98
49) 1,4-Dioxane	7.665	88	13860	426.482 ug/l	99
51) 4-Methyl-2-Pentanone	8.573	43	215309	104.420 ug/l	99
52) Toluene	8.714	92	65138	21.814 ug/l	100
53) t-1,3-Dichloropropene	8.976	75	30950	20.407 ug/l	97
54) cis-1,3-Dichloropropene	8.366	75	37460	21.182 ug/l	96
55) 1,1,2-Trichloroethane	9.153	97	24854	20.219 ug/l	97
56) Ethyl methacrylate	9.116	69	37529	20.084 ug/l	97
57) 1,3-Dichloropropane	9.305	76	43951	20.660 ug/l	98
58) 2-Chloroethyl Vinyl ether	8.238	63	89701	98.410 ug/l	99
59) 2-Hexanone	9.433	43	158142	105.853 ug/l	99
60) Dibromochloromethane	9.518	129	25020	19.466 ug/l	99
61) 1,2-Dibromoethane	9.610	107	24964	20.343 ug/l	100
64) Tetrachloroethene	9.268	164	21040	22.233 ug/l	91
65) Chlorobenzene	10.079	112	67652	21.638 ug/l	97
66) 1,1,1,2-Tetrachloroethane	10.159	131	21012	20.181 ug/l	97
67) Ethyl Benzene	10.189	91	118147	21.687 ug/l	99
68) m/p-Xylenes	10.299	106	87720	43.986 ug/l	99
69) o-Xylene	10.640	106	43323	21.539 ug/l	99
70) Styrene	10.652	104	70623	21.700 ug/l	99
71) Bromoform	10.799	173	15238	19.408 ug/l #	100
73) Isopropylbenzene	10.963	105	111617	21.304 ug/l	100
74) N-amyl acetate	10.841	43	50220	20.428 ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.213	83	39941	20.775 ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	31293m	20.030 ug/l	
77) Bromobenzene	11.195	156	25608	20.716 ug/l	100
78) n-propylbenzene	11.305	91	126790	21.423 ug/l	100
79) 2-Chlorotoluene	11.360	91	77393	20.533 ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	91126	21.511 ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	7740	16.954 ug/l #	82
82) 4-Chlorotoluene	11.451	91	87322	21.257 ug/l	99
83) tert-Butylbenzene	11.713	119	91061	20.921 ug/l	98
84) 1,2,4-Trimethylbenzene	11.750	105	91832	21.544 ug/l	100
85) sec-Butylbenzene	11.890	105	112914	21.656 ug/l	100
86) p-Isopropyltoluene	12.006	119	90968	21.589 ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	45783	20.761 ug/l	99
88) 1,4-Dichlorobenzene	12.042	146	46189	20.703 ug/l	97
89) n-Butylbenzene	12.329	91	79568	21.925 ug/l	99
90) Hexachloroethane	12.536	117	14633	19.200 ug/l	97
91) 1,2-Dichlorobenzene	12.335	146	46647	21.087 ug/l	98
92) 1,2-Dibromo-3-Chloropr...	12.939	75	7641	20.400 ug/l	95
93) 1,2,4-Trichlorobenzene	13.585	180	26728	21.219 ug/l	99
94) Hexachlorobutadiene	13.725	225	11477	22.224 ug/l	96
95) Naphthalene	13.774	128	102859	21.254 ug/l	99
96) 1,2,3-Trichlorobenzene	13.957	180	28765	21.647 ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
Data File : VX045158.D
Acq On : 06 Mar 2025 11:10
Operator : JC/MD
Sample : VX0306WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 07 00:37:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

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

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

Quantitation Report (QT Reviewed)

Sample Results: **VX045158.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
Data File : VX045158.D
Acq On : 06 Mar 2025 11:10
Operator : JC/MD
Sample : VX0306WBS01
Misc : 5.0mL/MSVOA_X/WATER
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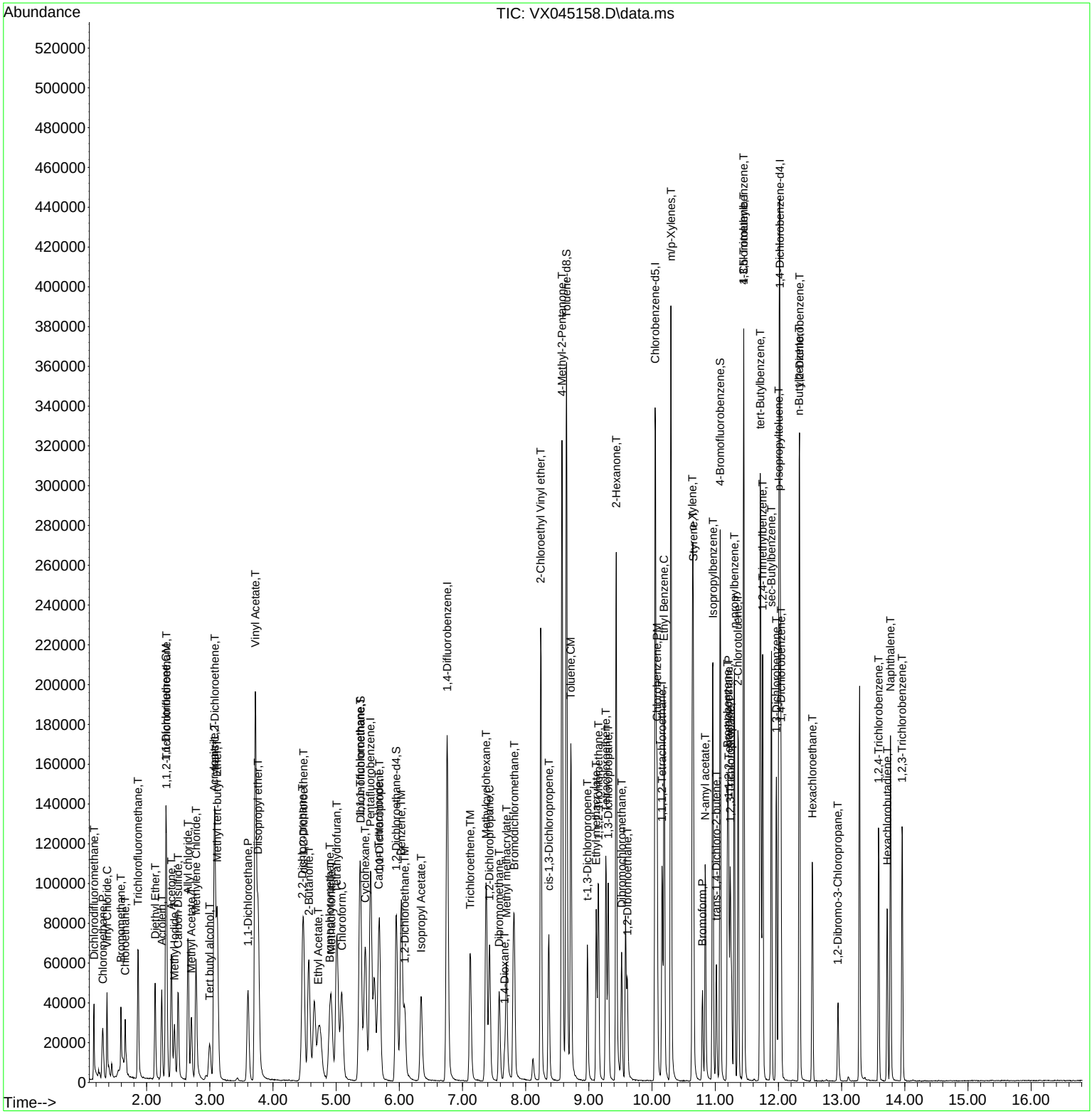
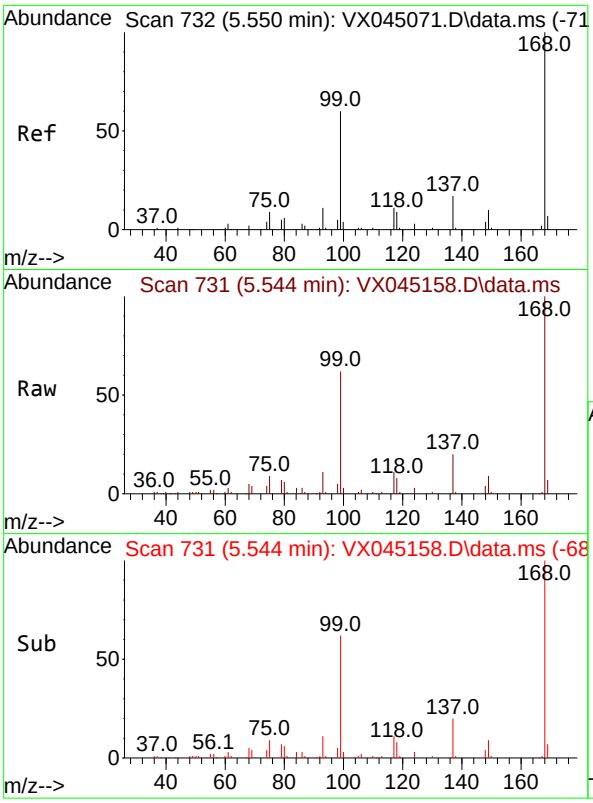
Quant Time: Mar 07 00:37:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01

Manual Integrations APPROVED
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

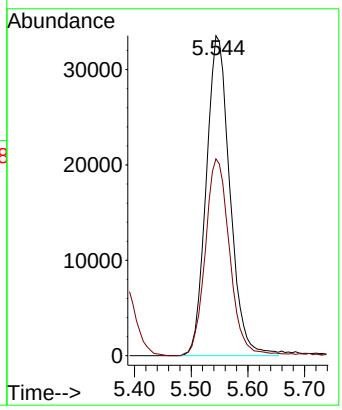
Tgt Ion:168 Resp: 9710

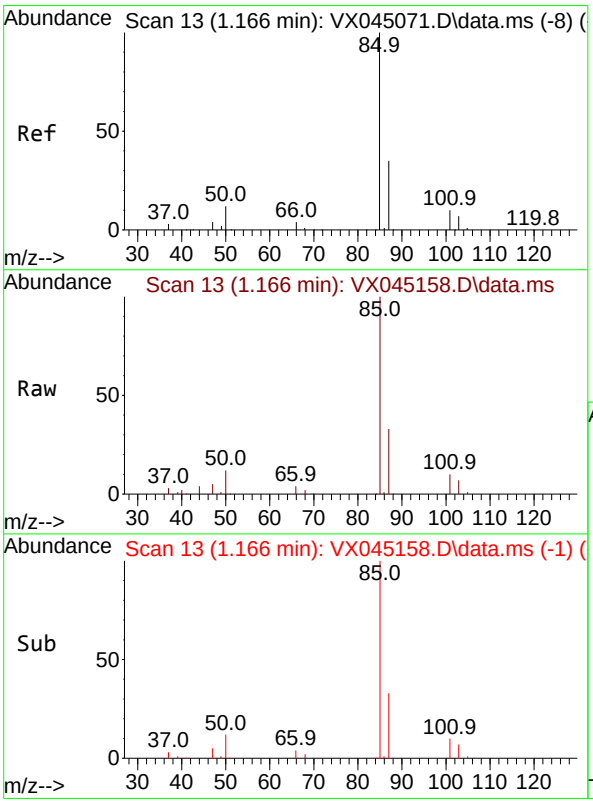
Ion	Ratio	Lower	Upper
168	100		
99	61.5	48.2	72.4

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

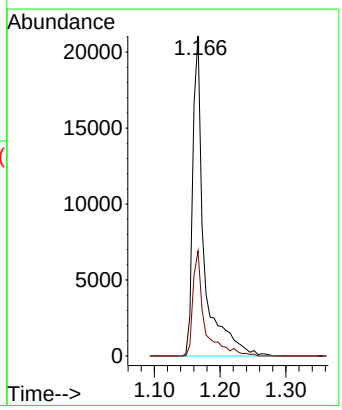


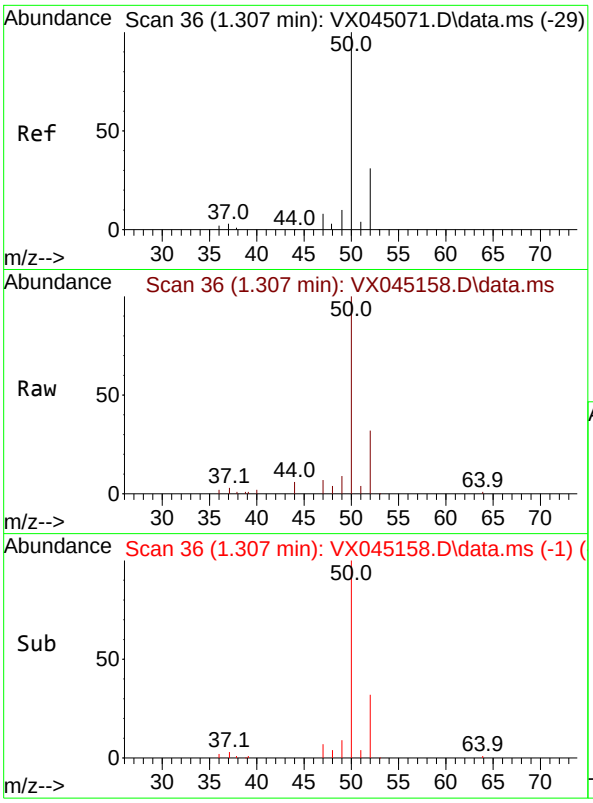


#2
Dichlorodifluoromethane
Concen: 20.710 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion: 85 Resp: 25313

Ion	Ratio	Lower	Upper
85	100		
87	32.8	17.4	52.3





#3
Chloromethane
Concen: 19.127 ug/l
RT: 1.307 min Scan# 3(
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

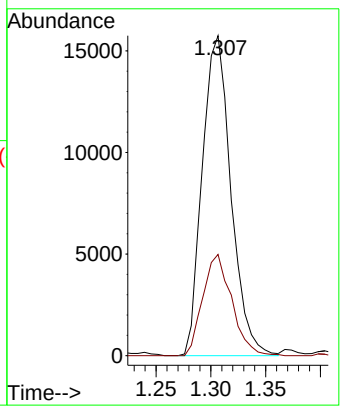
Tgt Ion: 50 Resp: 2861(

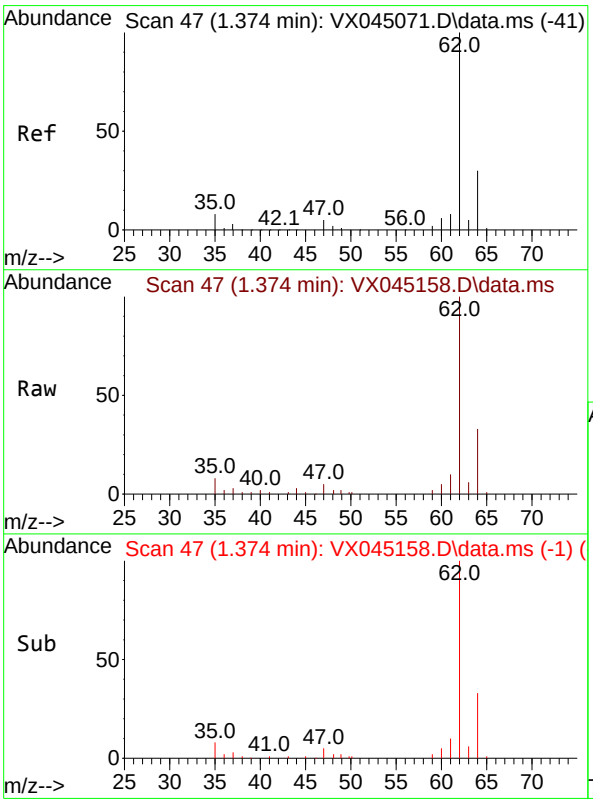
Ion	Ratio	Lower	Upper
50	100		
52	31.6	25.0	37.4

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

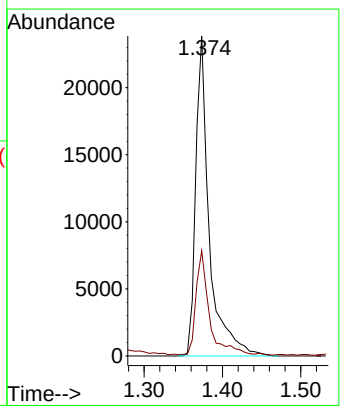


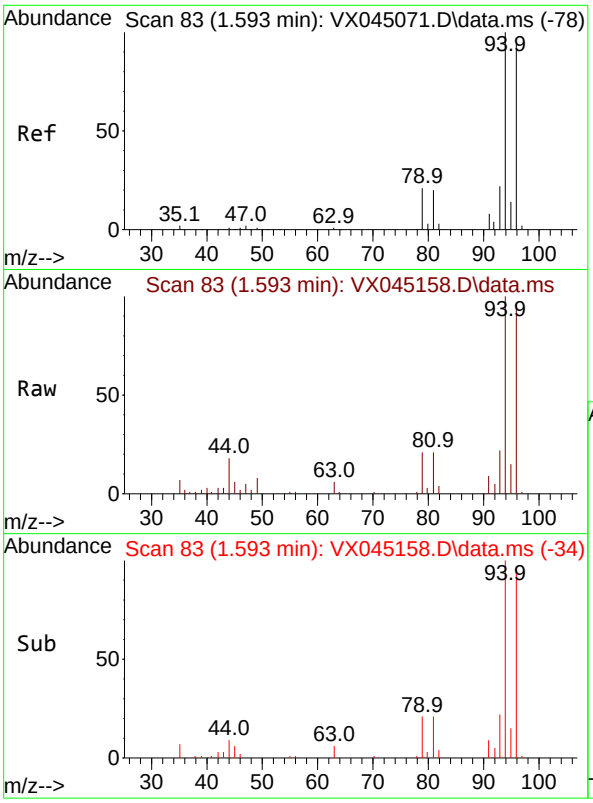


#4
Vinyl Chloride
Concen: 19.365 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion: 62 Resp: 28735

Ion	Ratio	Lower	Upper
62	100		
64	32.4	24.3	36.5





#5
Bromomethane
Concen: 18.945 ug/l
RT: 1.593 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion: 94 Resp: 1105

Ion	Ratio	Lower	Upper
94	100		
96	95.7	75.0	112.4

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01

Manual Integrations
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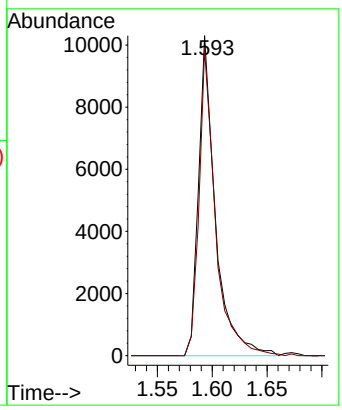
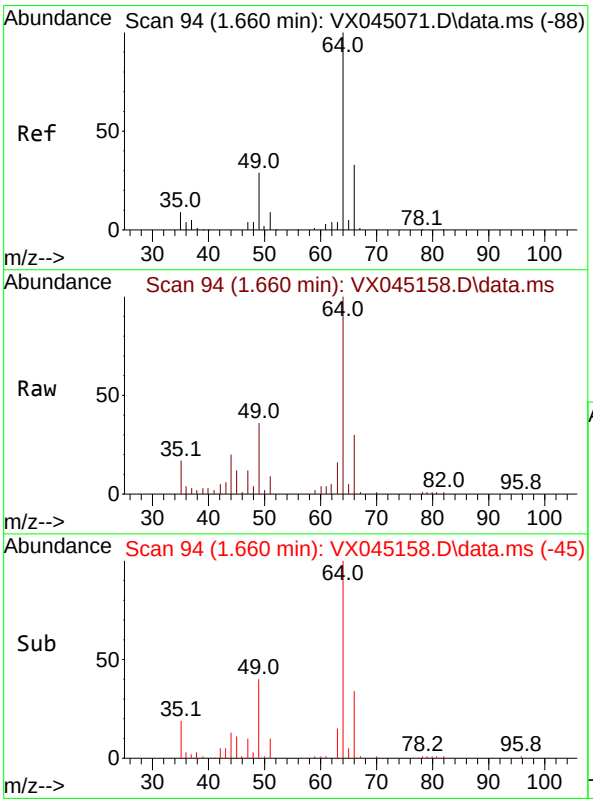
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

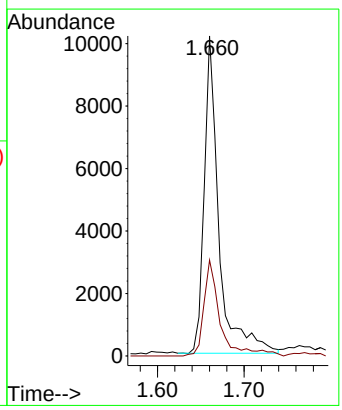


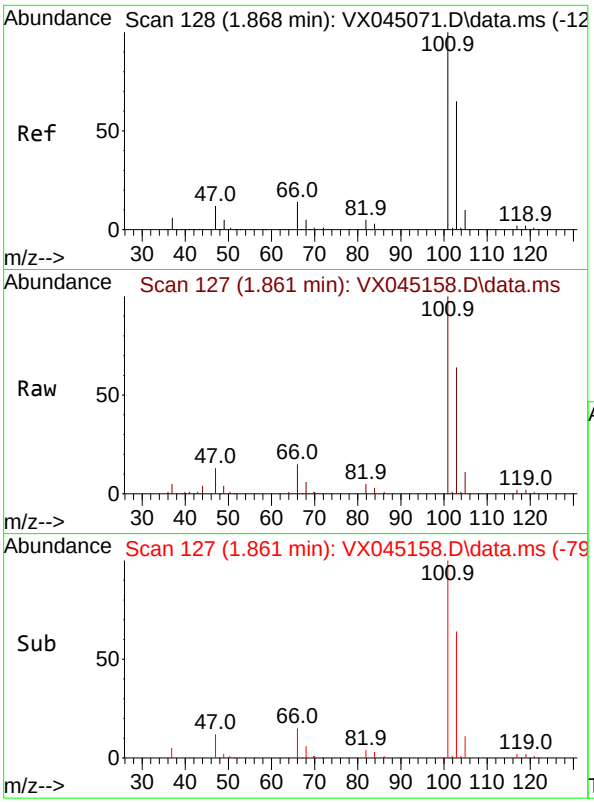


#6
Chloroethane
Concen: 17.401 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion: 64 Resp: 11910

Ion	Ratio	Lower	Upper
64	100		
66	30.2	26.7	40.1





#7
Trichlorofluoromethane
Concen: 21.039 ug/l
RT: 1.861 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion:101 Resp: 4132

Ion	Ratio	Lower	Upper
101	100		
103	63.8	52.1	78.1

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01

Manual Integrations
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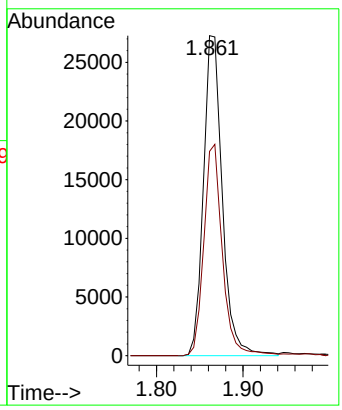
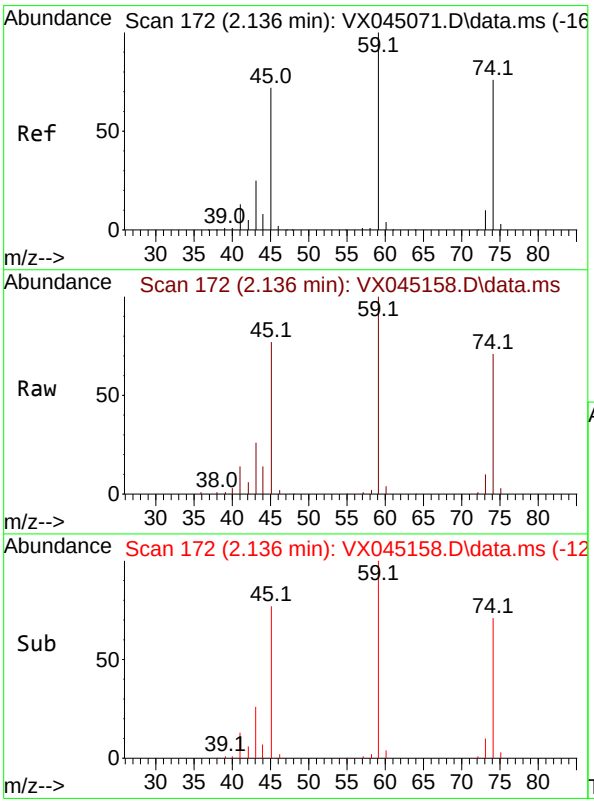
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

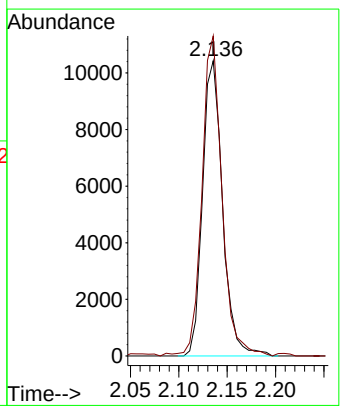


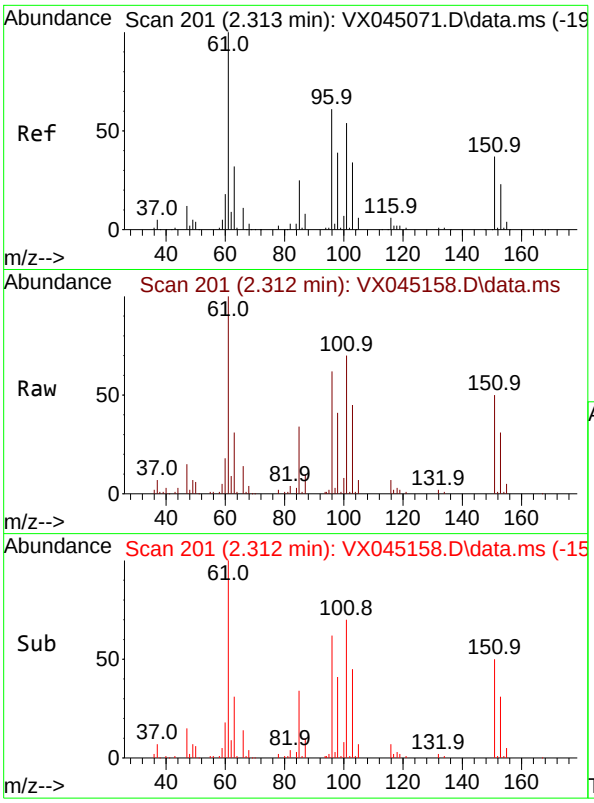


#8
Diethyl Ether
Concen: 19.563 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion: 74 Resp: 15031

Ion	Ratio	Lower	Upper
74	100		
45	108.5	51.5	154.5





#9
1,1,2-Trichlorotrifluoroethane
Concen: 22.961 ug/l
RT: 2.312 min Scan# 2(
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01

Tgt Ion:101 Resp: 2591

Ion	Ratio	Lower	Upper
101	100		
85	45.6	36.2	54.4
151	69.8	56.4	84.6

Manual Integrations
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Reviewed By :John Carlone 03/10/2025
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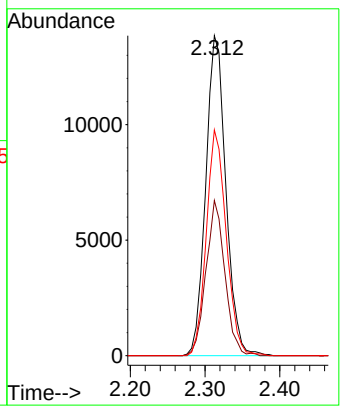
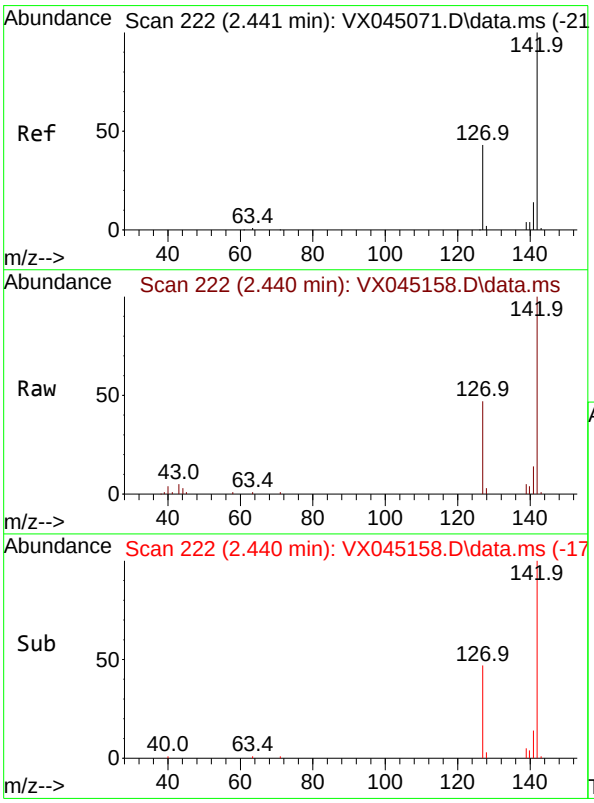
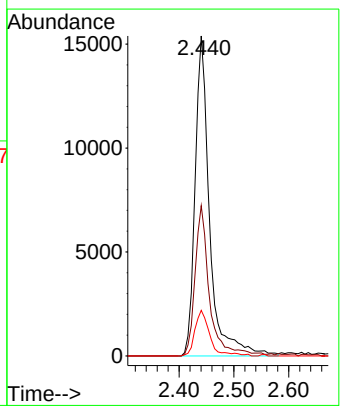


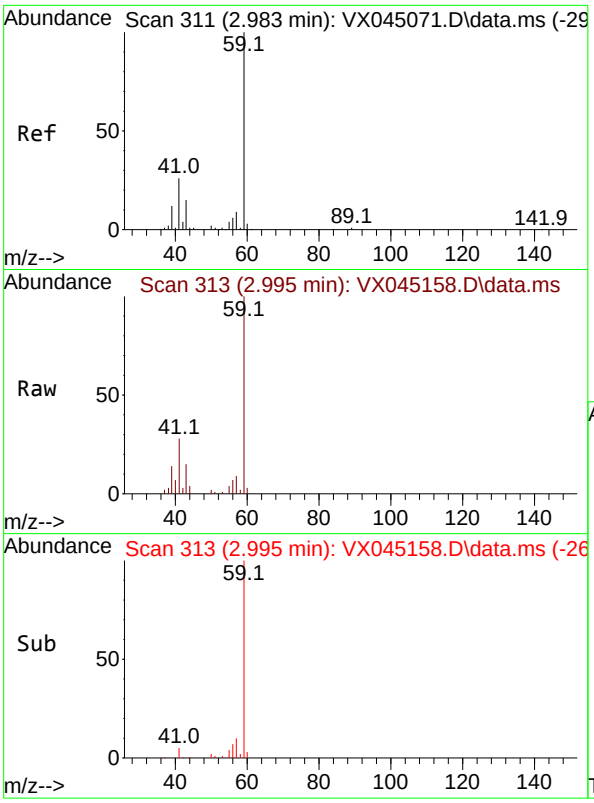


#10
Methyl Iodide
Concen: 20.232 ug/l
RT: 2.440 min Scan# 222
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion:142 Resp: 28535

Ion	Ratio	Lower	Upper
142	100		
127	46.5	35.4	53.2
141	14.5	11.6	17.4





#11
Tert butyl alcohol
Concen: 85.035 ug/l
RT: 2.995 min Scan# 3
Delta R.T. 0.012 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion: 59 Resp: 2487

Ion	Ratio	Lower	Upper
59	100		
57	9.5	7.8	11.8

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01

Manual Integrations
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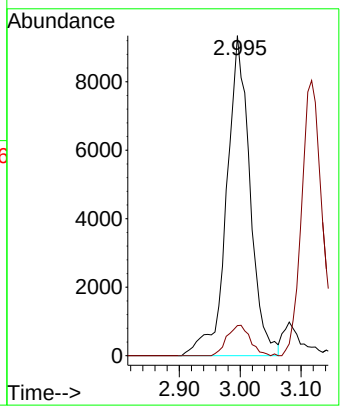
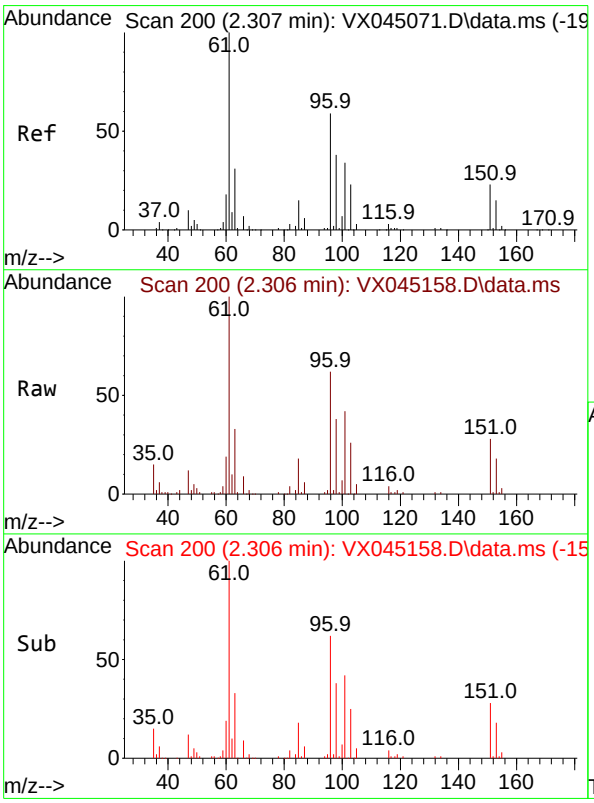
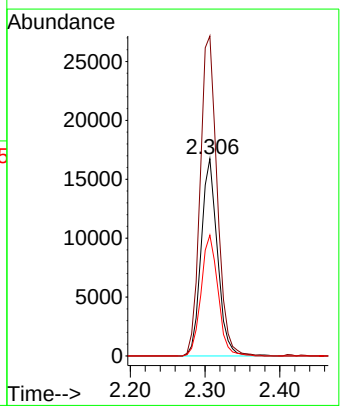


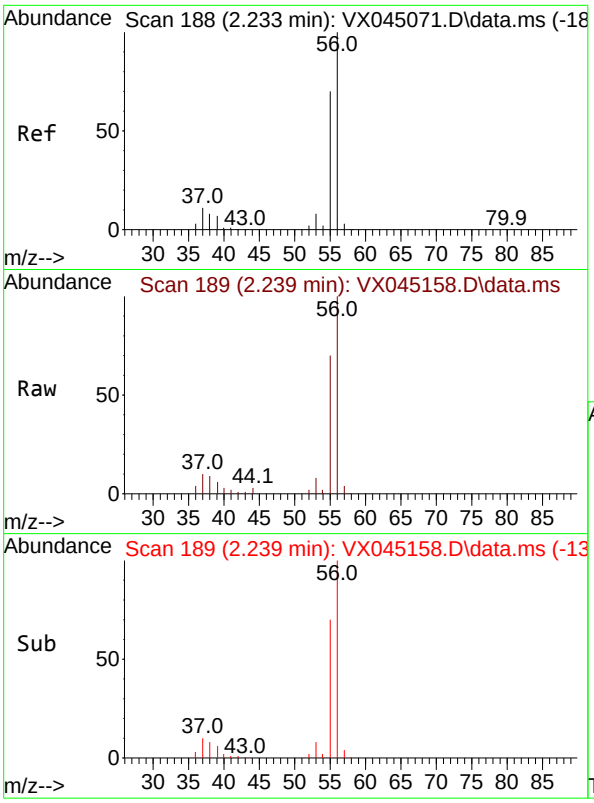


#12
1,1-Dichloroethene
Concen: 21.319 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion: 96 Resp: 25437

Ion	Ratio	Lower	Upper
96	100		
61	162.3	134.6	202.0
98	61.3	51.0	76.6





#13
Acrolein
Concen: 95.330 ug/l
RT: 2.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion: 56 Resp: 3224

Ion	Ratio	Lower	Upper
56	100		
55	72.9	56.2	84.4

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01

Manual Integrations
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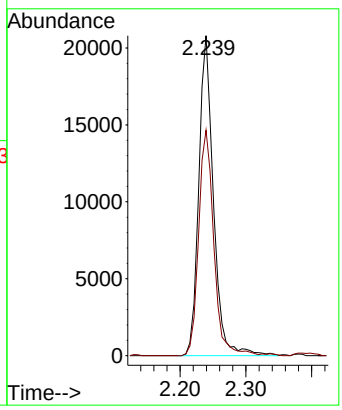
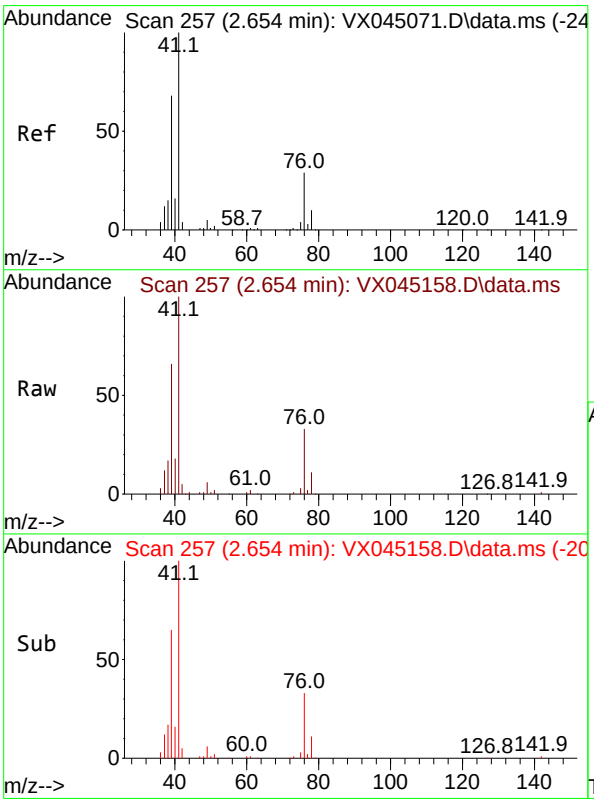
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

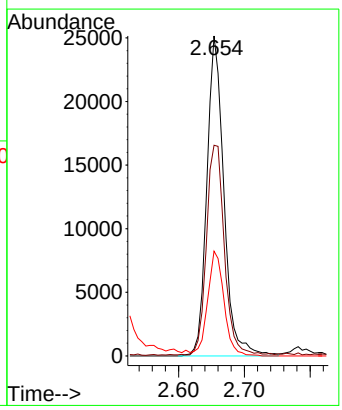


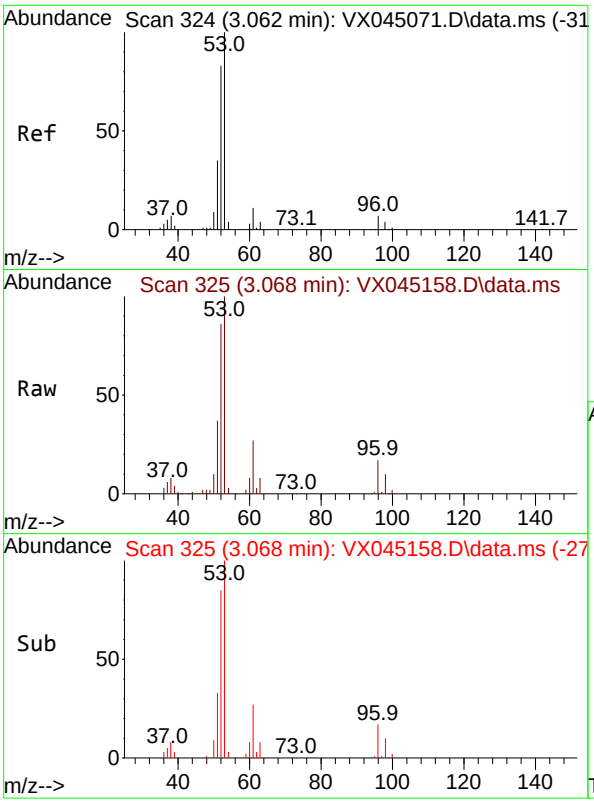


#14
Allyl chloride
Concen: 21.406 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion: 41 Resp: 45464

Ion	Ratio	Lower	Upper
41	100		
39	68.7	53.8	80.8
76	31.5	25.2	37.8





#15
Acrylonitrile
Concen: 102.818 ug/l
RT: 3.068 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion: 53 Resp: 8062

Ion	Ratio	Lower	Upper
53	100		
52	83.0	66.2	99.2
51	35.7	29.0	43.4

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01

Manual Integrations
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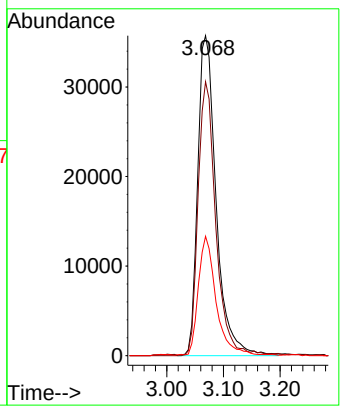
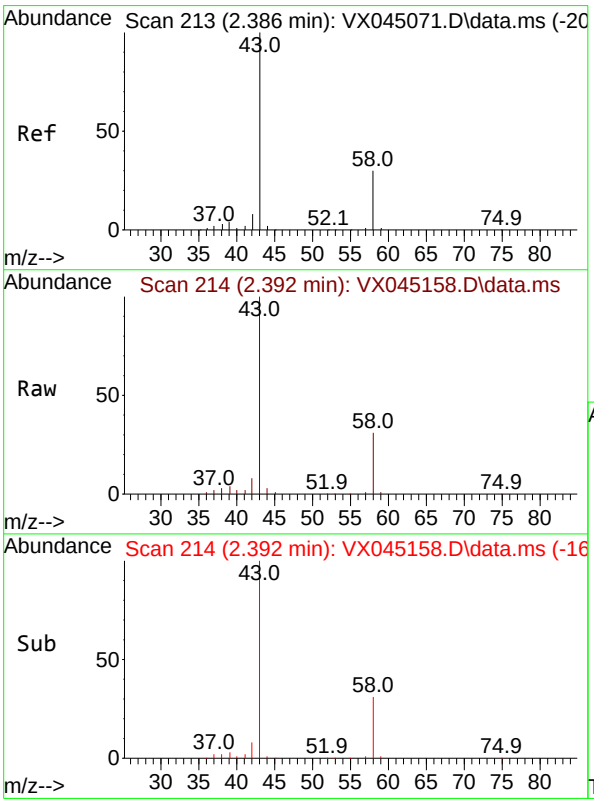
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

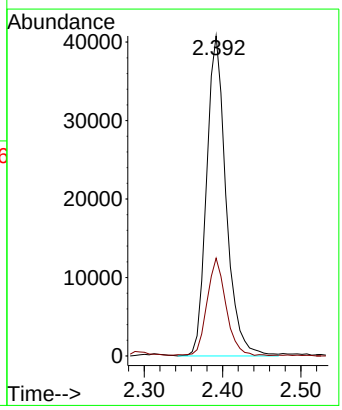


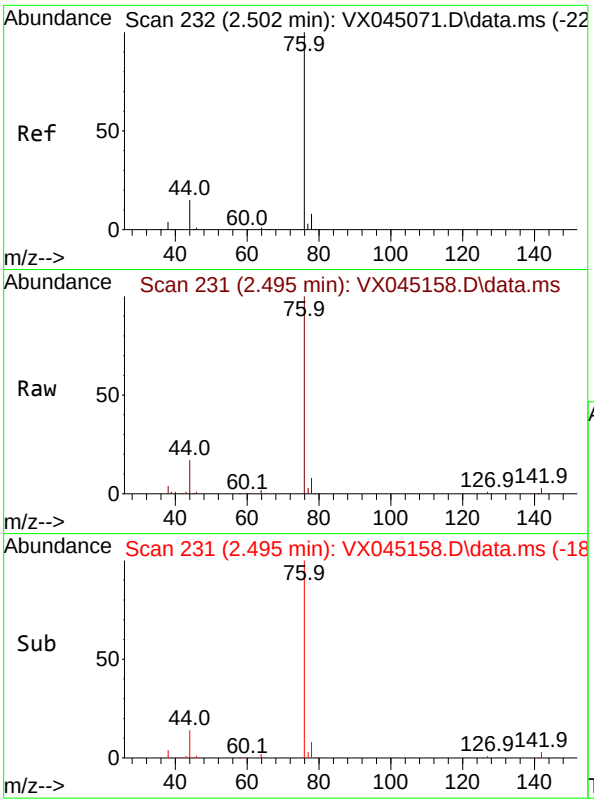


#16
Acetone
Concen: 98.177 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.006 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion: 43 Resp: 70356

Ion	Ratio	Lower	Upper
43	100		
58	30.3	24.2	36.4





#17
Carbon Disulfide
Concen: 17.758 ug/l
RT: 2.495 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion: 76 Resp: 5643

Ion	Ratio	Lower	Upper
76	100		
78	8.2	6.6	9.8

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01

Manual Integrations
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Reviewed By :John Carlone 03/10/2025
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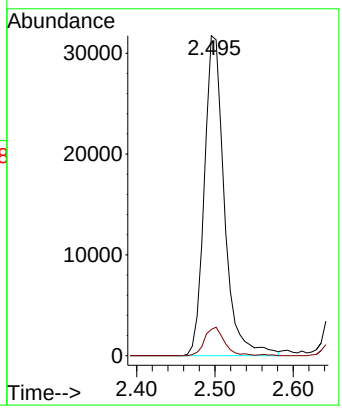
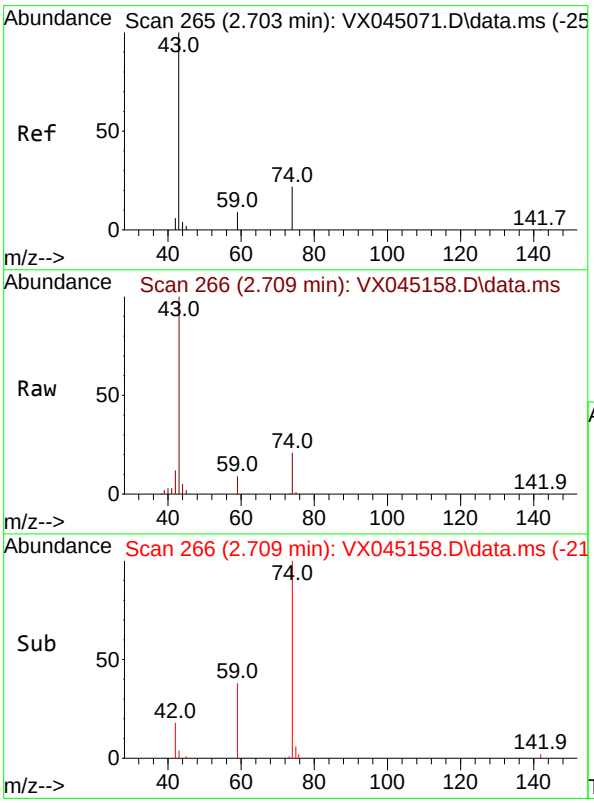
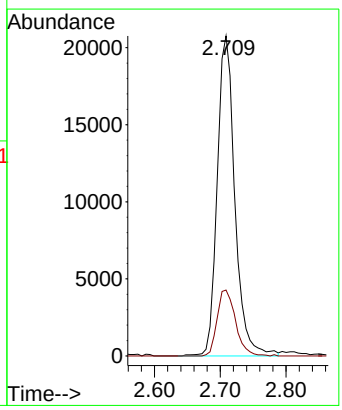


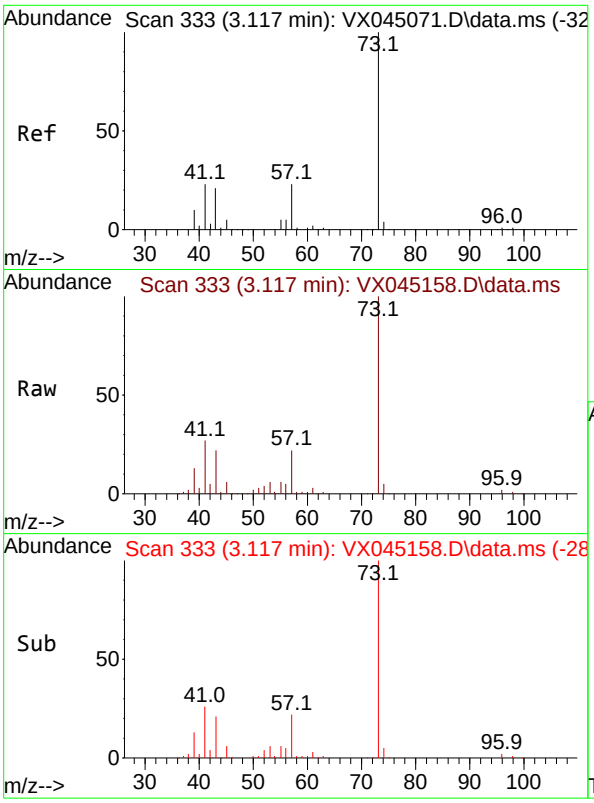


#18
Methyl Acetate
Concen: 22.500 ug/l
RT: 2.709 min Scan# 266
Delta R.T. 0.006 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion: 43 Resp: 38789

Ion	Ratio	Lower	Upper
43	100		
74	21.5	17.4	26.2





#19
Methyl tert-butyl Ether
Concen: 20.741 ug/l
RT: 3.117 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion: 73 Resp: 8302

Ion	Ratio	Lower	Upper
73	100		
57	22.3	18.5	27.7

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01

Manual Integrations
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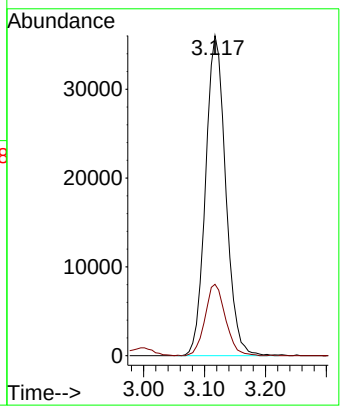
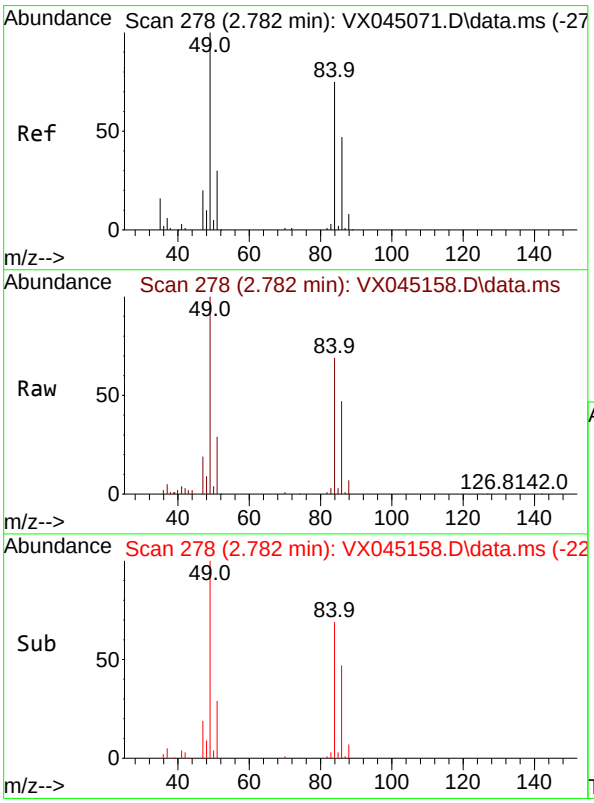
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

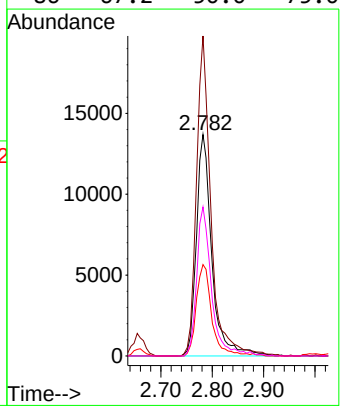


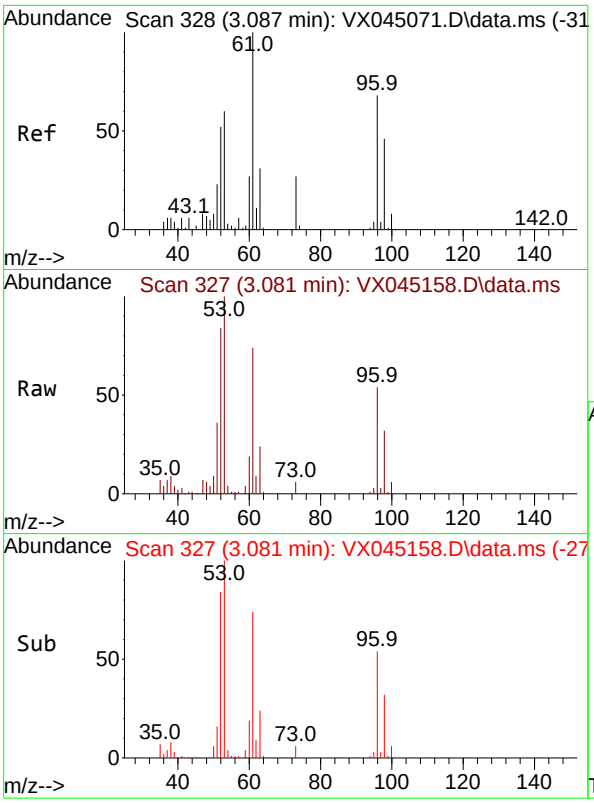


#20
Methylene Chloride
Concen: 20.086 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion: 84 Resp: 28513

Ion	Ratio	Lower	Upper
84	100		
49	144.5	106.5	159.7
51	41.2	32.1	48.1
86	67.2	50.0	75.0





#21
trans-1,2-Dichloroethene
Concen: 21.957 ug/l
RT: 3.081 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion: 96 Resp: 2588

Ion	Ratio	Lower	Upper
96	100		
61	137.2	117.0	175.4
98	59.2	53.4	80.2

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01

Manual Integrations
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Reviewed By :John Carlone 03/10/2025
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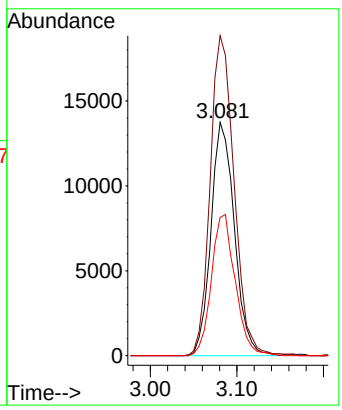
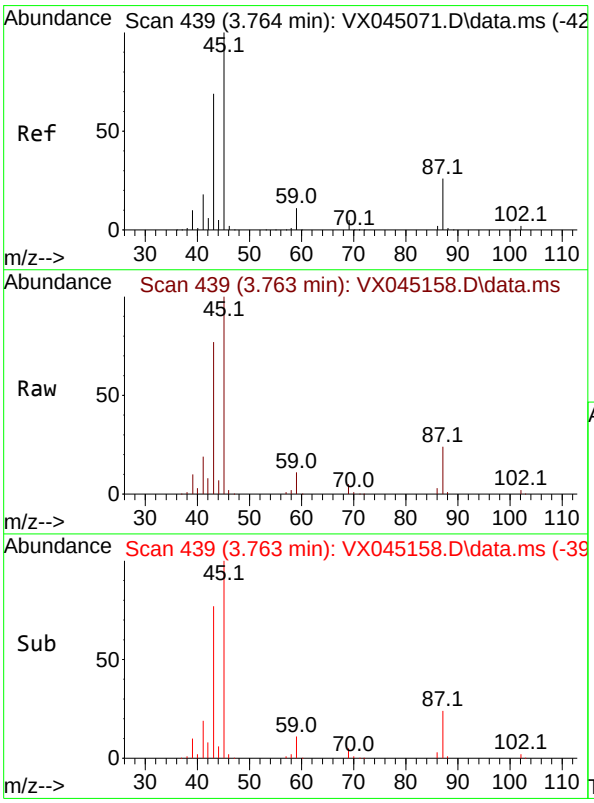
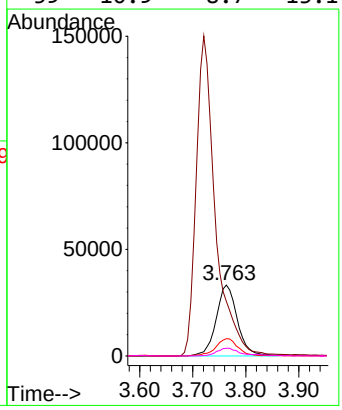


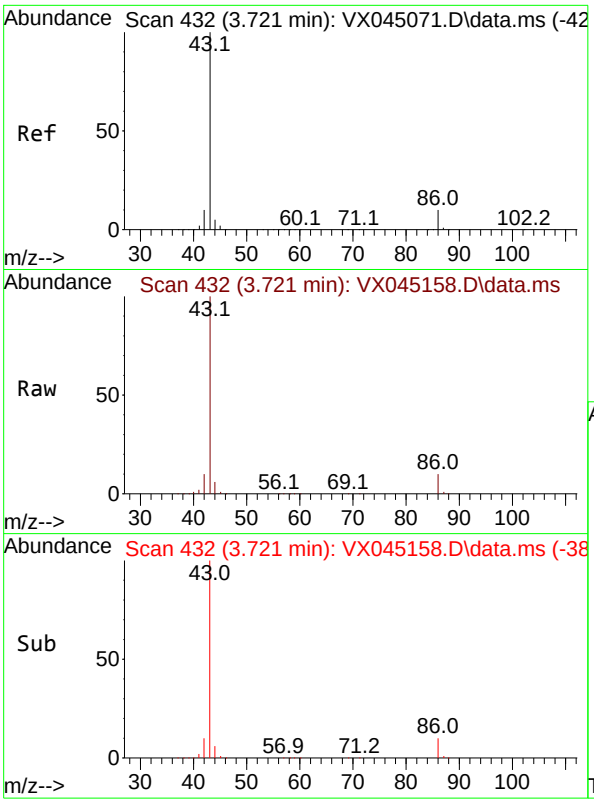


#22
Diisopropyl ether
Concen: 21.360 ug/l
RT: 3.763 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion: 45 Resp: 92263

Ion	Ratio	Lower	Upper
45	100		
43	77.1	54.9	82.3
87	24.5	21.0	31.4
59	10.9	8.7	13.1





#23
Vinyl Acetate
Concen: 105.258 ug/l
RT: 3.721 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion: 43 Resp: 37942

Ion	Ratio	Lower	Upper
43	100		
86	9.8	8.1	12.1

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01

Manual Integrations
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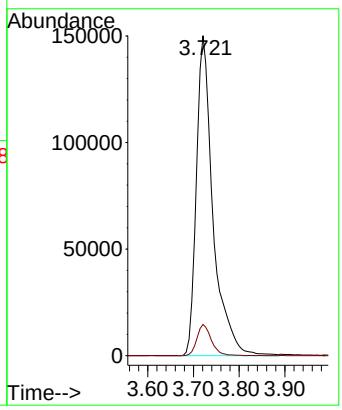
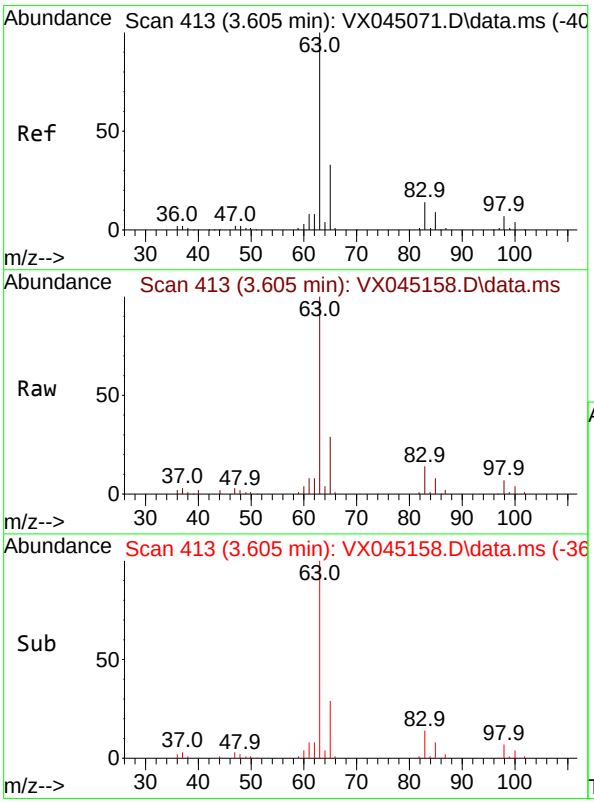
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

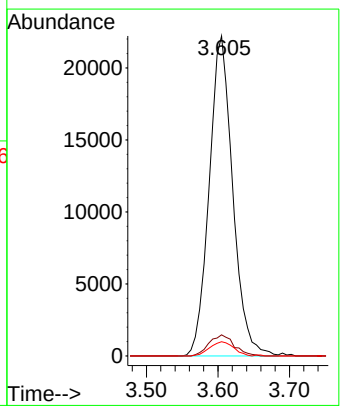


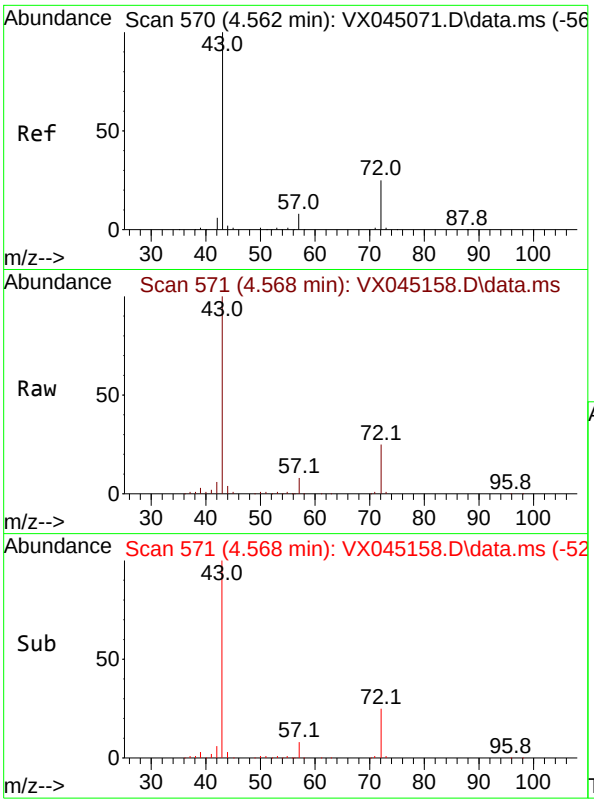


#24
1,1-Dichloroethane
Concen: 20.975 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion: 63 Resp: 50777

Ion	Ratio	Lower	Upper
63	100		
98	6.6	3.4	10.2
100	4.5	2.1	6.5





#25
2-Butanone
Concen: 103.935 ug/l
RT: 4.568 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion: 43 Resp: 11211

Ion	Ratio	Lower	Upper
43	100		
72	24.8	20.0	30.0

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01

Manual Integrations
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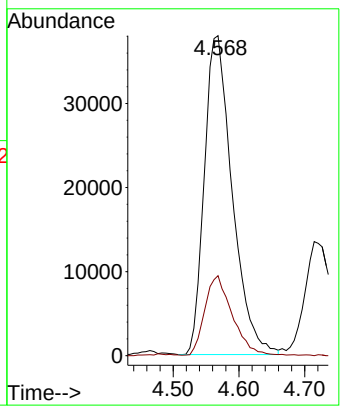
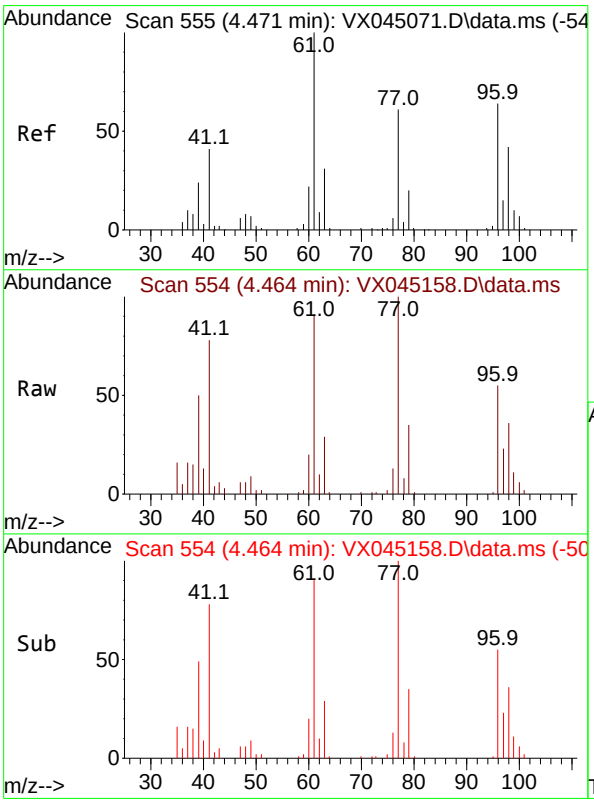
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

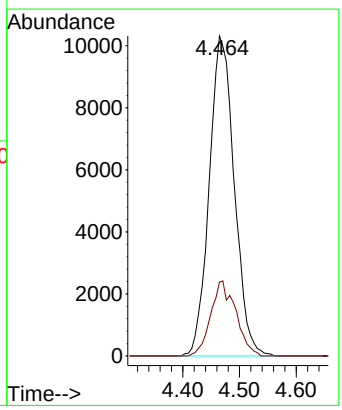


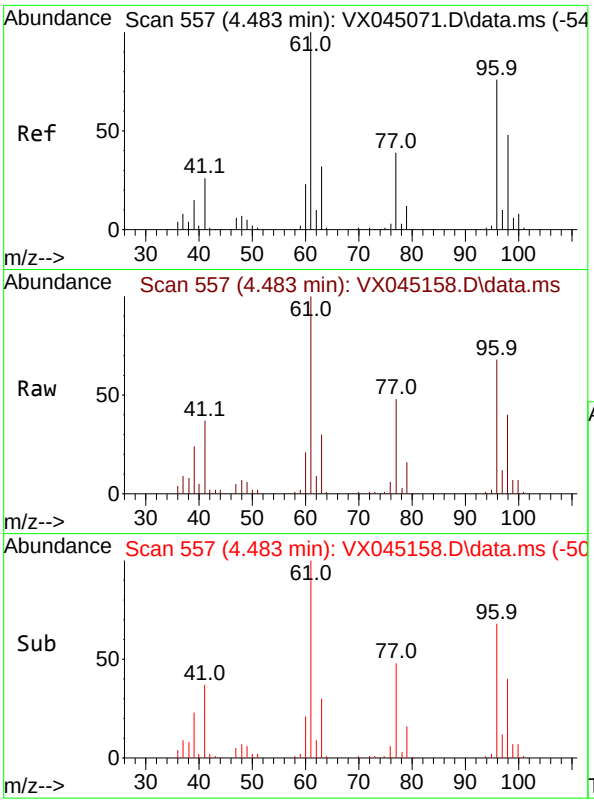


#26
2,2-Dichloropropane
Concen: 27.861 ug/l
RT: 4.464 min Scan# 554
Delta R.T. -0.006 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion: 77 Resp: 31636

Ion	Ratio	Lower	Upper
77	100		
97	23.5	12.4	37.0





#27
cis-1,2-Dichloroethene
Concen: 21.161 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion: 96 Resp: 3079

Ion	Ratio	Lower	Upper
96	100		
61	149.9	0.0	283.2
98	64.3	0.0	128.0

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01

Manual Integrations
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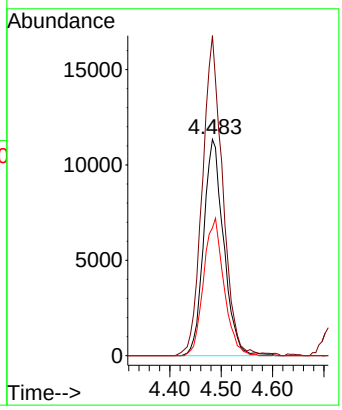
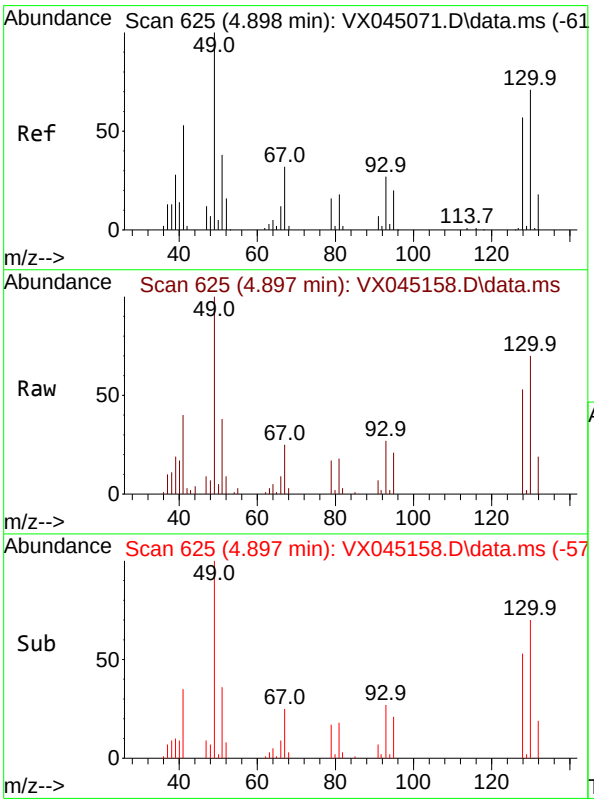
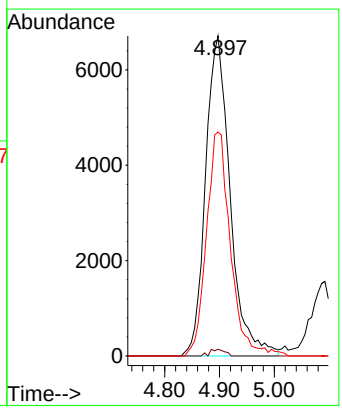


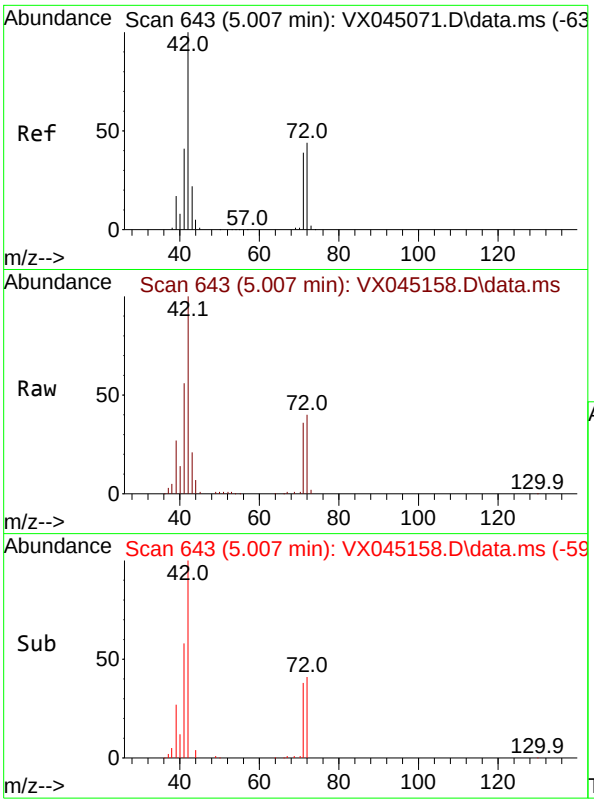


#28
Bromochloromethane
Concen: 18.145 ug/l
RT: 4.897 min Scan# 625
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion: 49 Resp: 20937

Ion	Ratio	Lower	Upper
49	100		
129	1.3	0.0	3.4
130	68.1	56.1	84.1





#29
Tetrahydrofuran
Concen: 100.185 ug/l
RT: 5.007 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion: 42 Resp: 7257

Ion	Ratio	Lower	Upper
42	100		
72	43.6	34.1	51.1
71	39.1	31.4	47.0

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01

Manual Integrations
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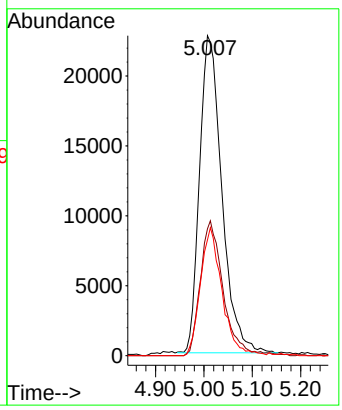
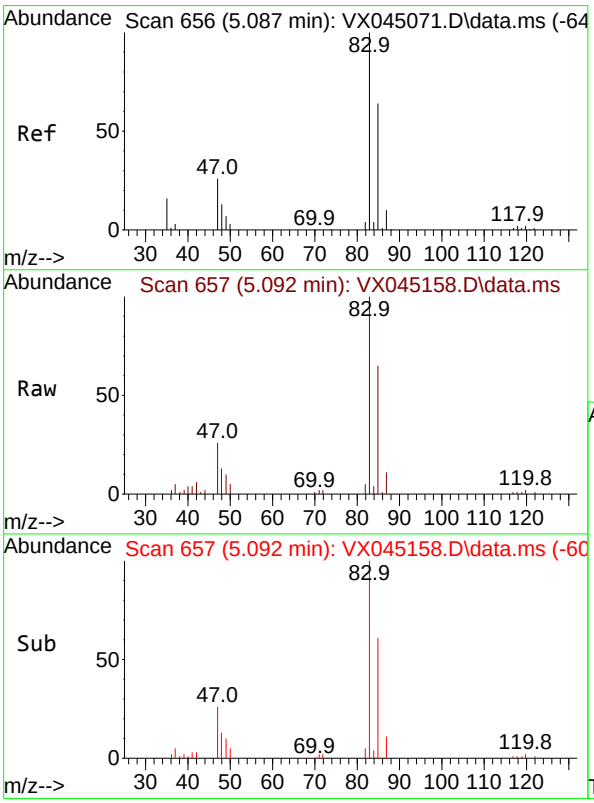
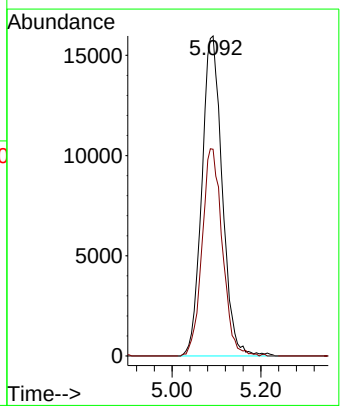


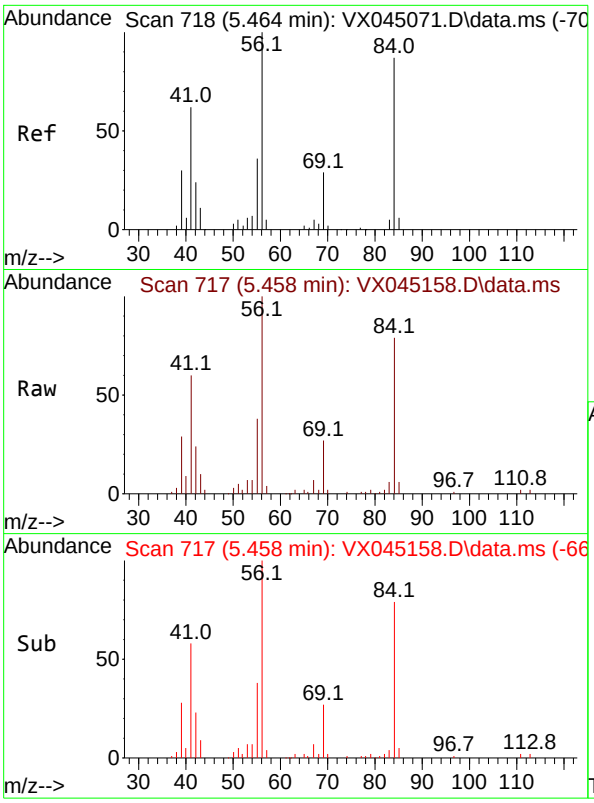


#30
Chloroform
Concen: 21.186 ug/l
RT: 5.092 min Scan# 657
Delta R.T. 0.006 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion: 83 Resp: 50960

Ion	Ratio	Lower	Upper
83	100		
85	64.6	51.4	77.2





#31
Cyclohexane
Concen: 22.128 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion: 56 Resp: 4649

Ion	Ratio	Lower	Upper
56	100		
69	27.1	23.4	35.2
84	77.2	69.4	104.2

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01

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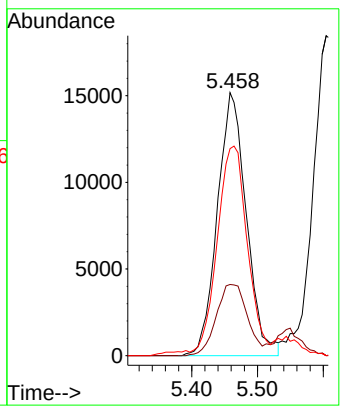
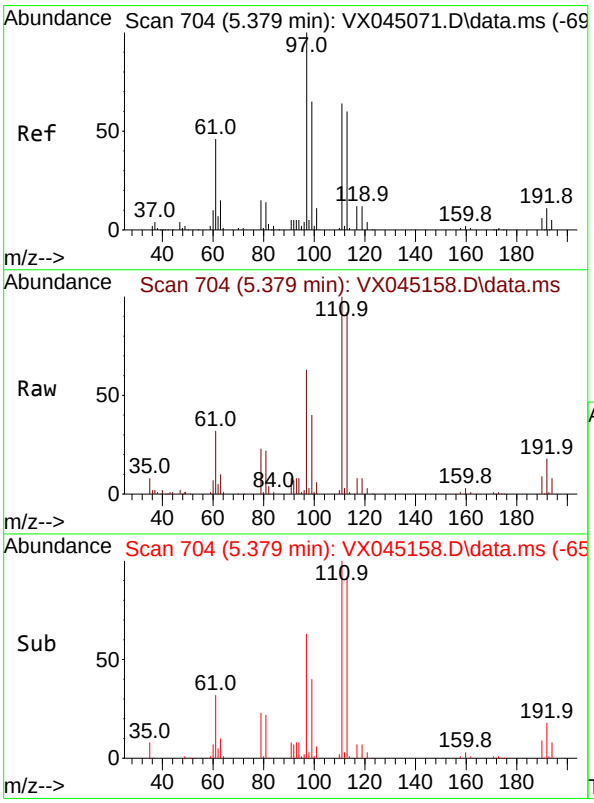
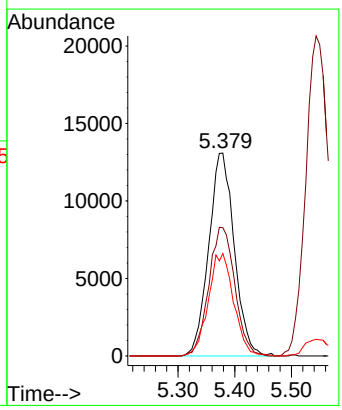


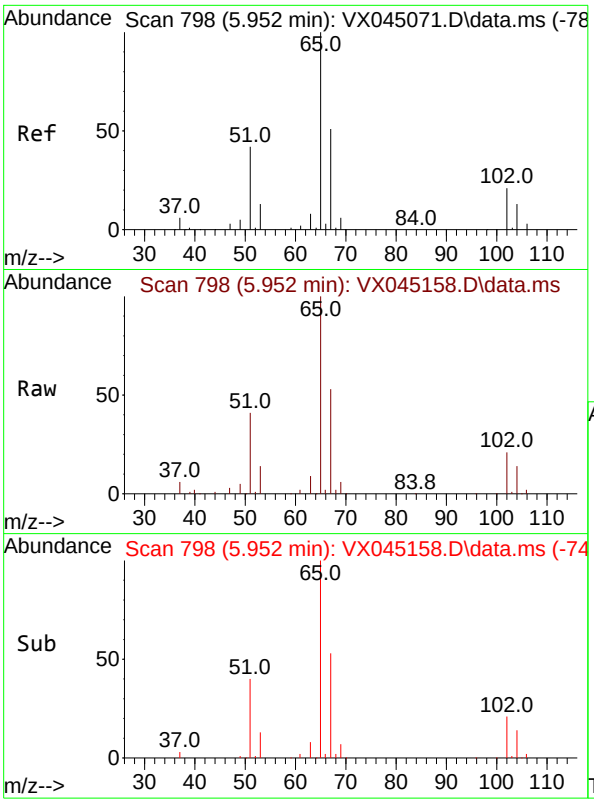


#32
1,1,1-Trichloroethane
Concen: 21.059 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion: 97 Resp: 40911

Ion	Ratio	Lower	Upper
97	100		
99	64.7	51.6	77.4
61	50.3	38.4	57.6





#33
1,2-Dichloroethane-d4
Concen: 50.187 ug/l
RT: 5.952 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion: 65 Resp: 7751

Ion	Ratio	Lower	Upper
65	100		
67	52.6	0.0	106.2

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01

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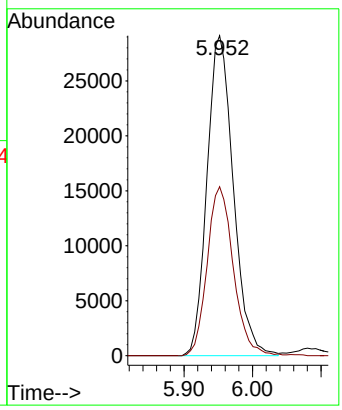
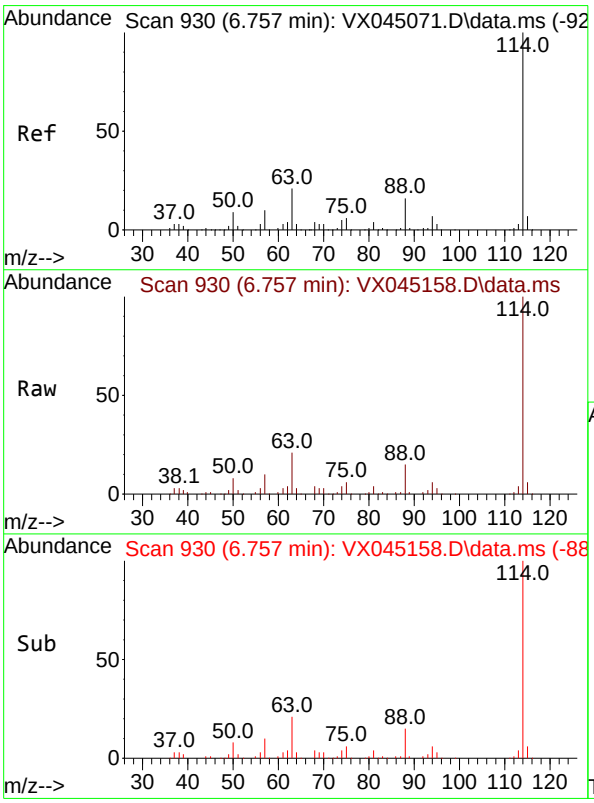
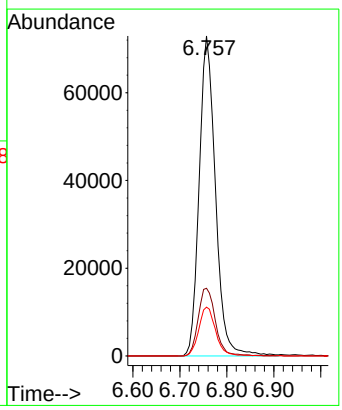


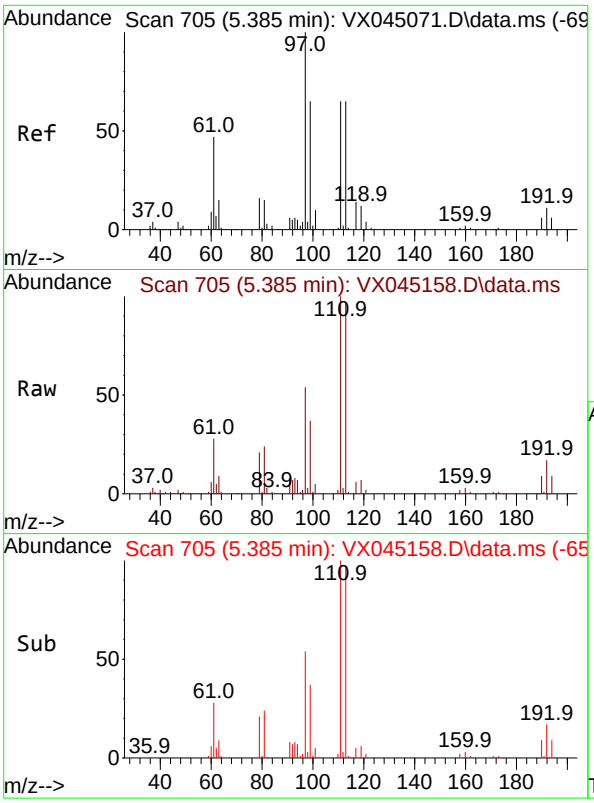


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion:114 Resp: 175752

Ion	Ratio	Lower	Upper
114	100		
63	21.1	0.0	41.8
88	15.2	0.0	32.8





#35
Dibromofluoromethane
Concen: 50.846 ug/l
RT: 5.385 min Scan# 7(
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion:113 Resp: 5975!

Ion	Ratio	Lower	Upper
113	100		
111	103.3	81.8	122.6
192	17.7	14.3	21.5

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01

Manual Integrations APPROVED

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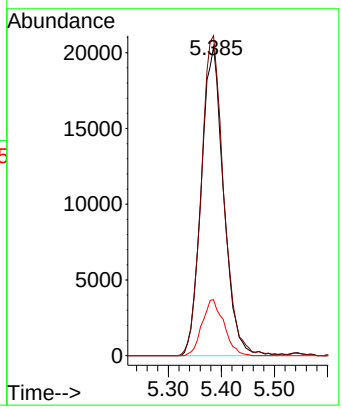
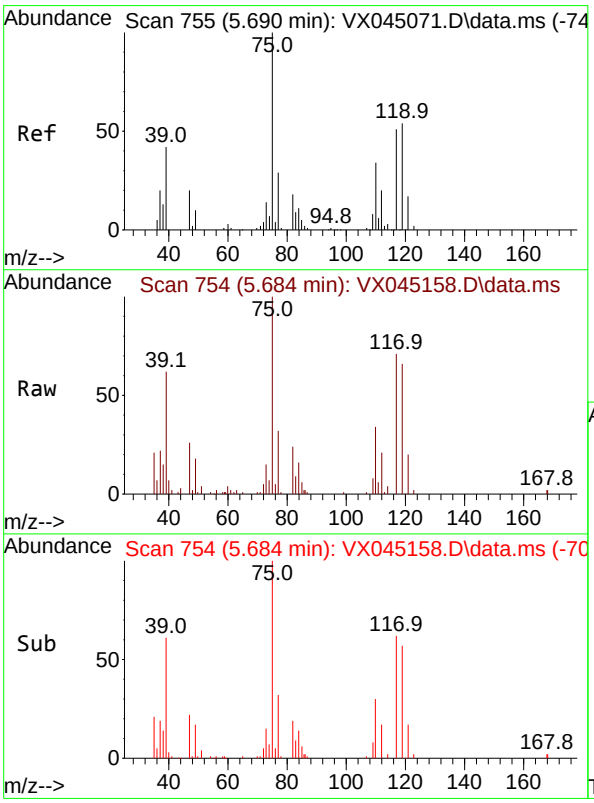
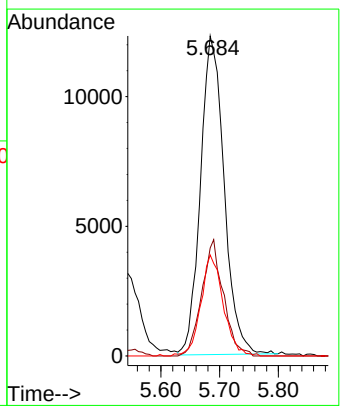


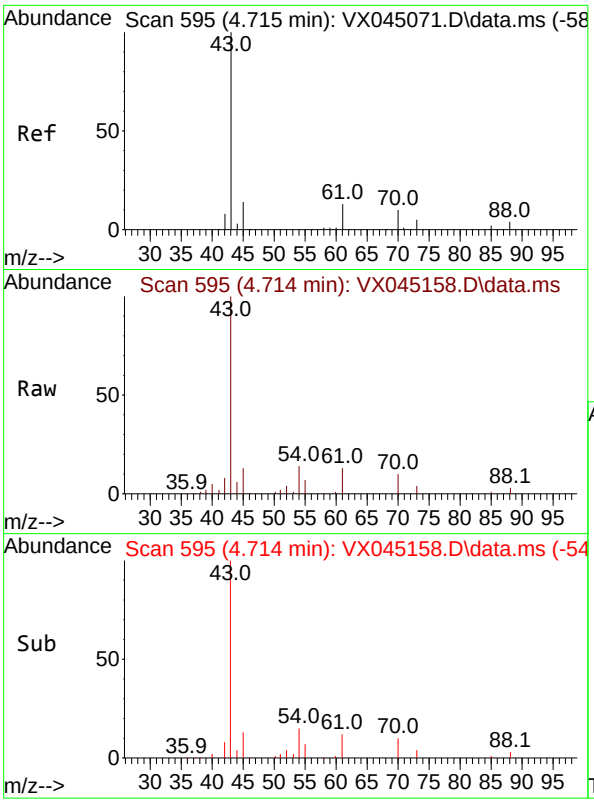


#36
1,1-Dichloropropene
Concen: 21.370 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.006 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion: 75 Resp: 34442

Ion	Ratio	Lower	Upper
75	100		
110	33.3	16.9	50.6
77	30.0	24.5	36.7





#37
Ethyl Acetate
Concen: 19.942 ug/l
RT: 4.714 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion: 43 Resp: 4141

Ion	Ratio	Lower	Upper
43	100		
61	13.4	10.8	16.2
70	9.7	7.7	11.5

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01

Manual Integrations
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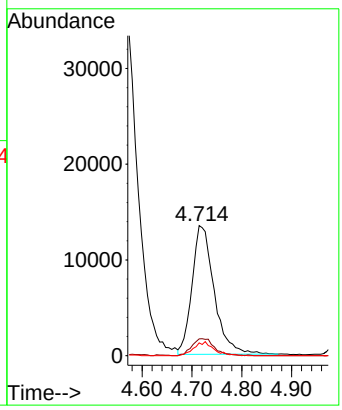
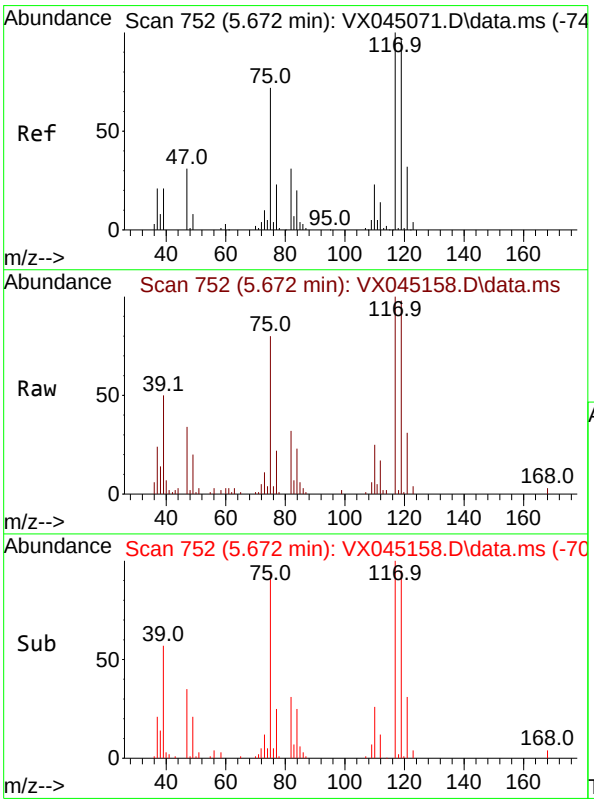
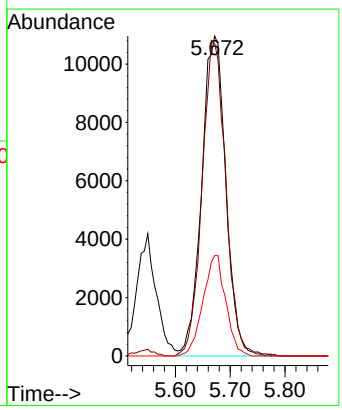


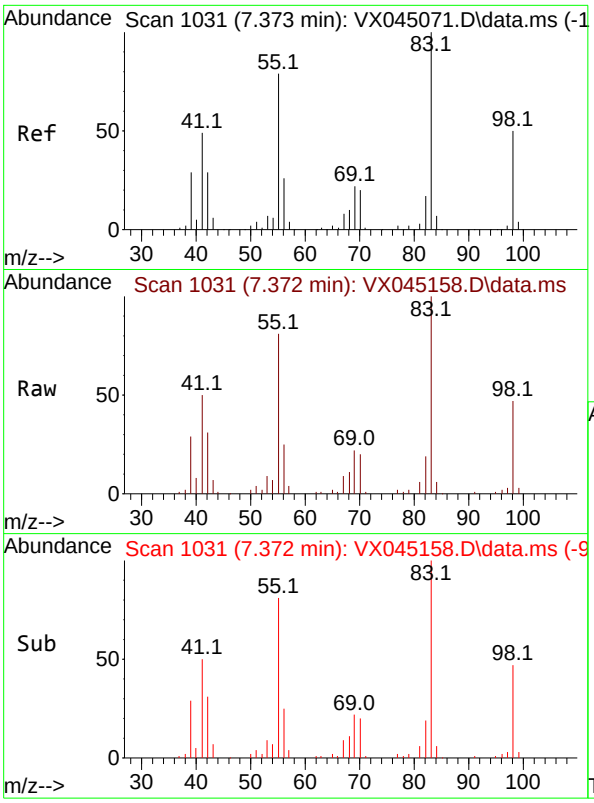


#38
Carbon Tetrachloride
Concen: 20.492 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion:117 Resp: 33530

Ion	Ratio	Lower	Upper
117	100		
119	97.6	76.7	115.1
121	31.4	25.5	38.3





#39
Methylcyclohexane
Concen: 22.900 ug/l
RT: 7.372 min Scan# 1(
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion: 83 Resp: 4422

Ion	Ratio	Lower	Upper
83	100		
55	81.1	63.0	94.4
98	46.9	39.7	59.5

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01

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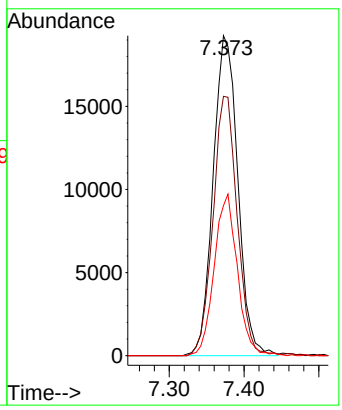
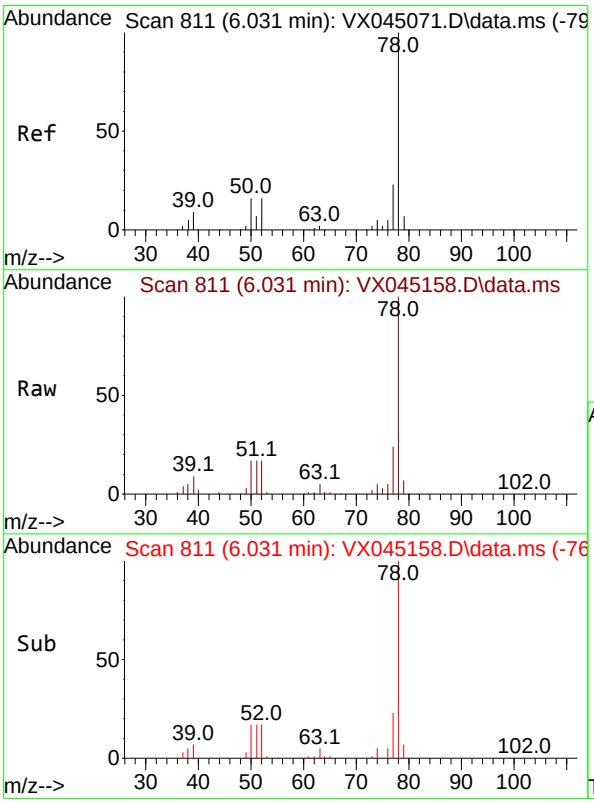
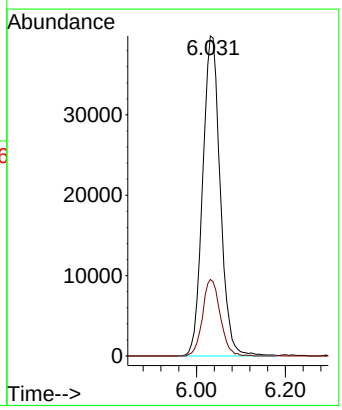


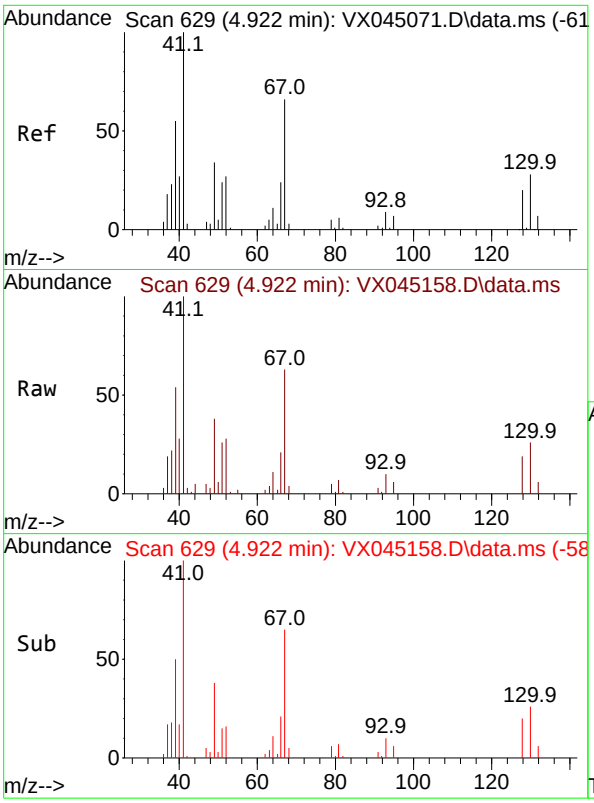


#40
Benzene
Concen: 21.516 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion: 78 Resp: 109500

Ion	Ratio	Lower	Upper
78	100		
77	23.9	18.8	28.2

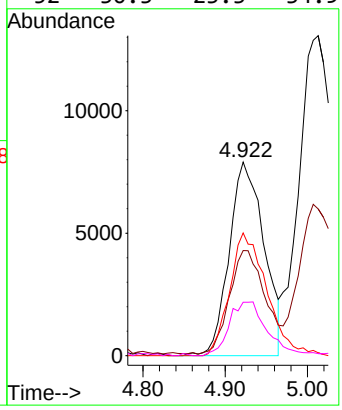




#41
Methacrylonitrile
Concen: 20.769 ug/l
RT: 4.922 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion: 41 Resp: 2332

Ion	Ratio	Lower	Upper
41	100		
39	55.4	44.6	67.0
67	67.5	53.9	80.9
52	30.3	23.3	34.9



Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01

Manual Integrations
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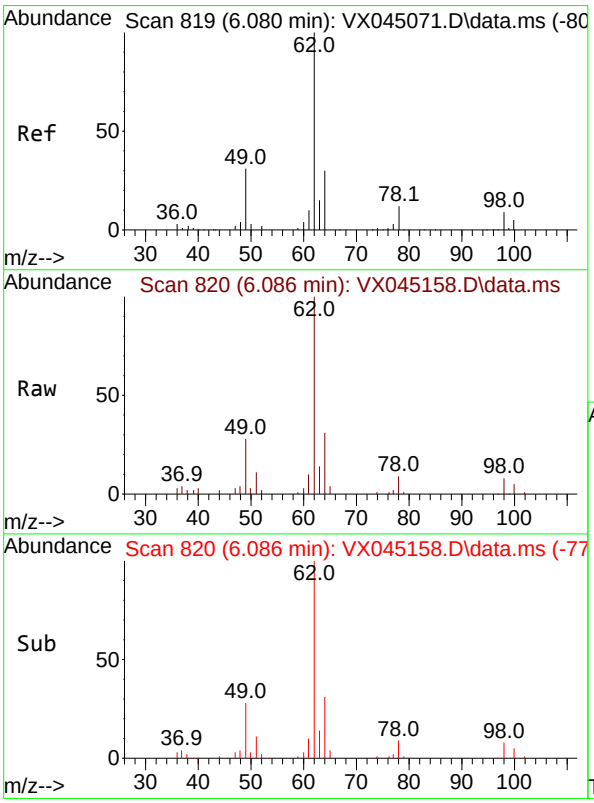
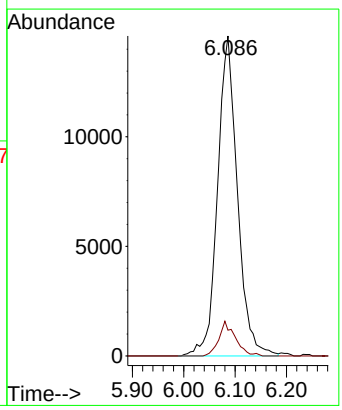
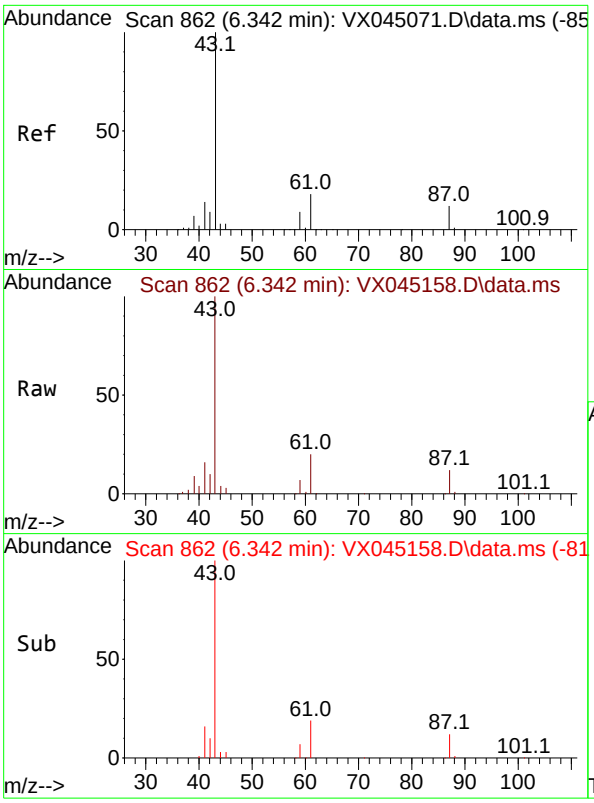


#42
1,2-Dichloroethane
Concen: 21.397 ug/l
RT: 6.086 min Scan# 820
Delta R.T. 0.006 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion: 62 Resp: 39213

Ion	Ratio	Lower	Upper
62	100		
98	9.0	0.0	18.2





#43
Isopropyl Acetate
Concen: 20.220 ug/l
RT: 6.342 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion: 43 Resp: 6209

Ion	Ratio	Lower	Upper
43	100		
61	18.5	14.9	22.3
87	11.7	9.4	14.2

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01

Manual Integrations
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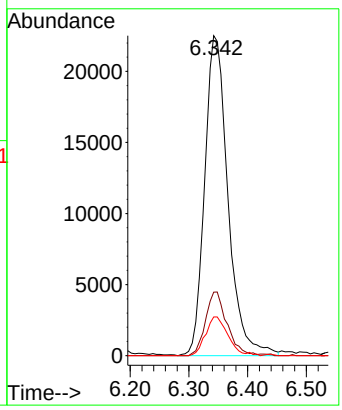
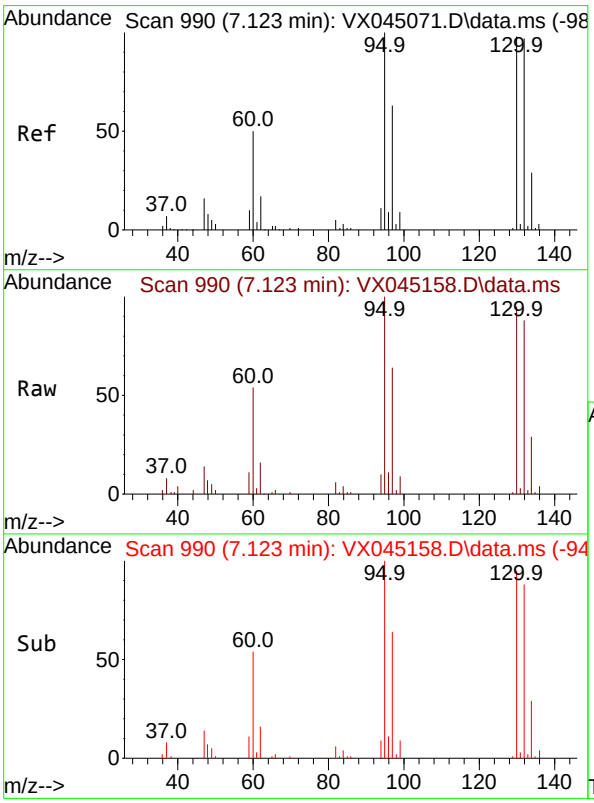
Supervised By :Mahesh Dadoda 03/10/2025

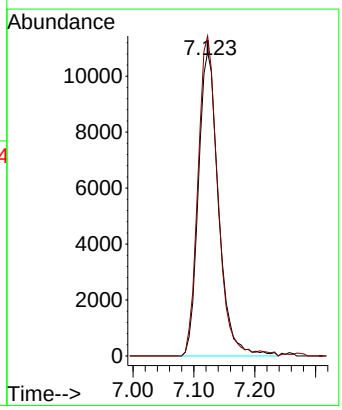


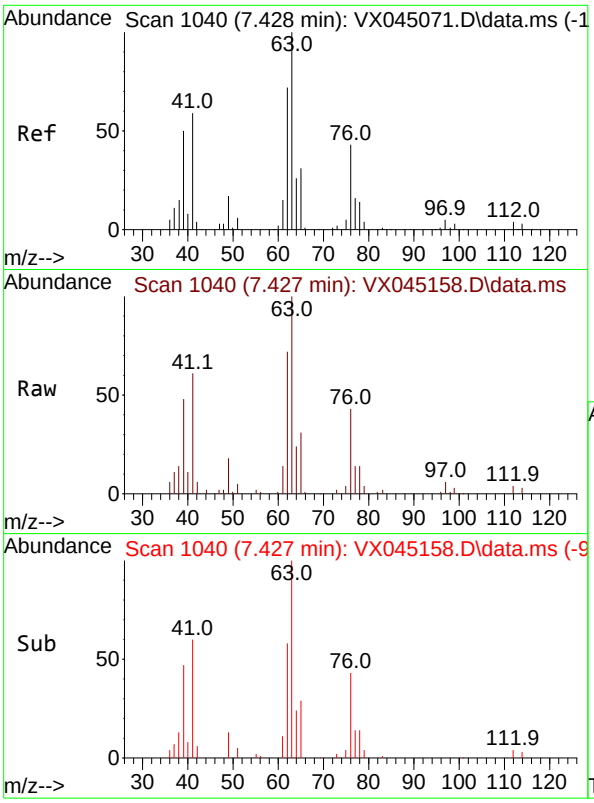


#44
Trichloroethene
Concen: 20.842 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion:130 Resp: 24906

Ion	Ratio	Lower	Upper
130	100		
95	105.2	0.0	205.0





#45
1,2-Dichloropropane
Concen: 21.002 ug/l
RT: 7.427 min Scan# 1(
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion: 63 Resp: 2748

Ion	Ratio	Lower	Upper
63	100		
65	30.5	24.7	37.1

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01

Manual Integrations
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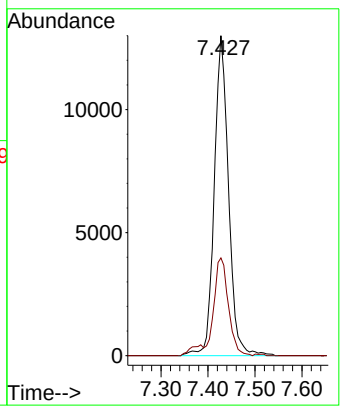
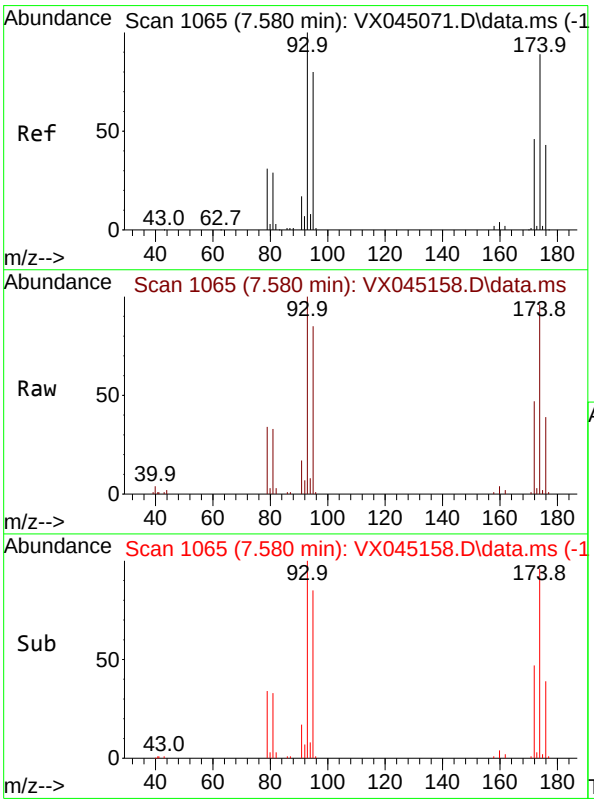
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

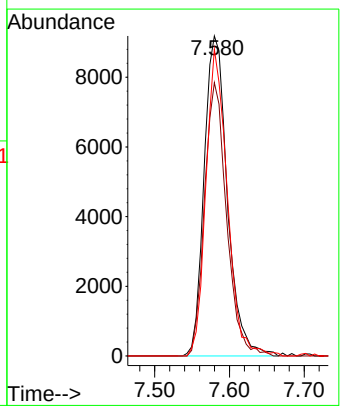


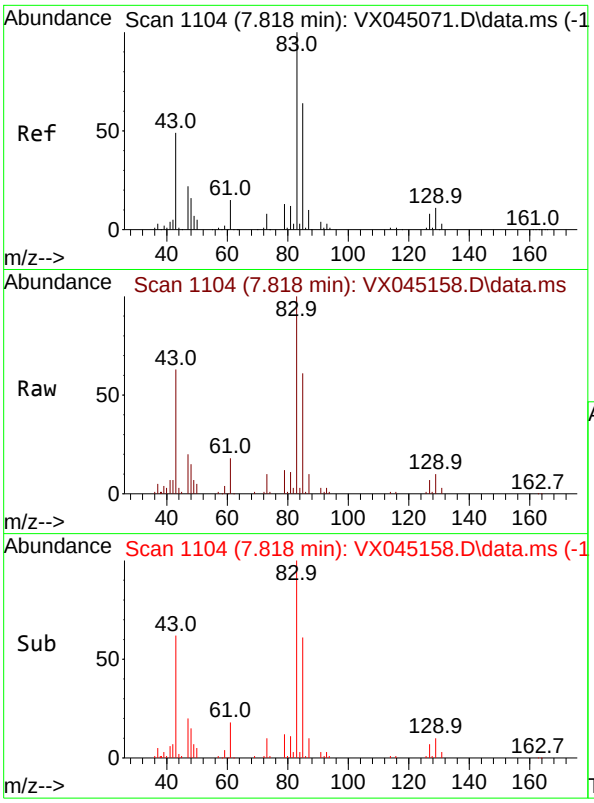


#46
Dibromomethane
Concen: 21.443 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion: 93 Resp: 19832

Ion	Ratio	Lower	Upper
93	100		
95	81.1	65.8	98.8
174	88.4	72.2	108.2





#47
Bromodichloromethane
Concen: 20.821 ug/l
RT: 7.818 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion: 83 Resp: 3777

Ion	Ratio	Lower	Upper
83	100		
85	61.3	51.1	76.7
127	7.2	6.4	9.6

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01

Manual Integrations
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Reviewed By :John Carlone 03/10/2025
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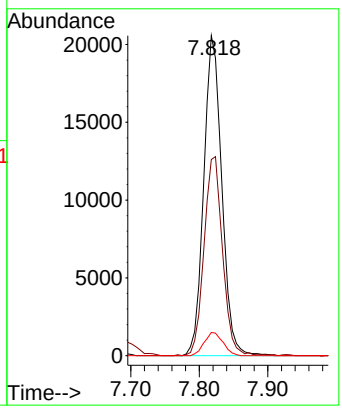
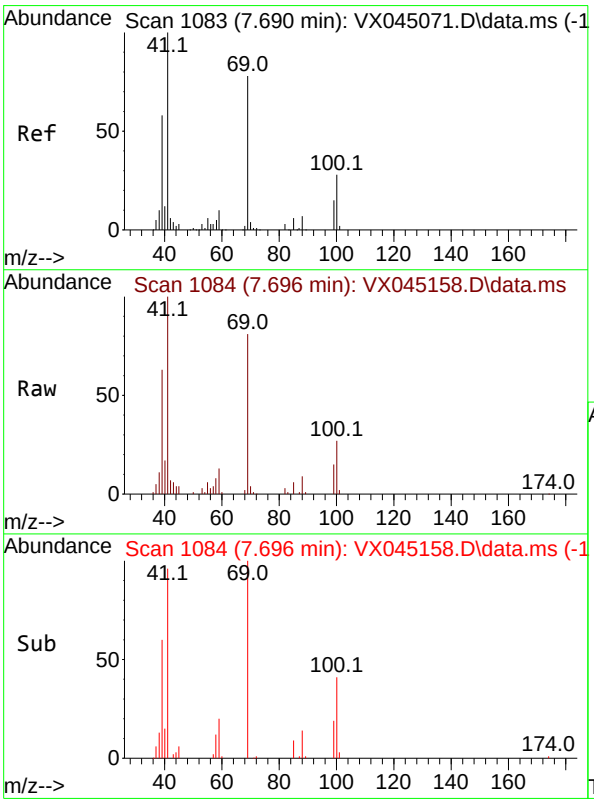
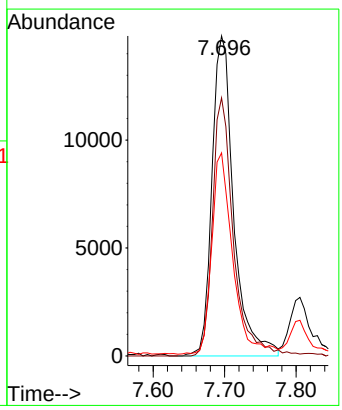


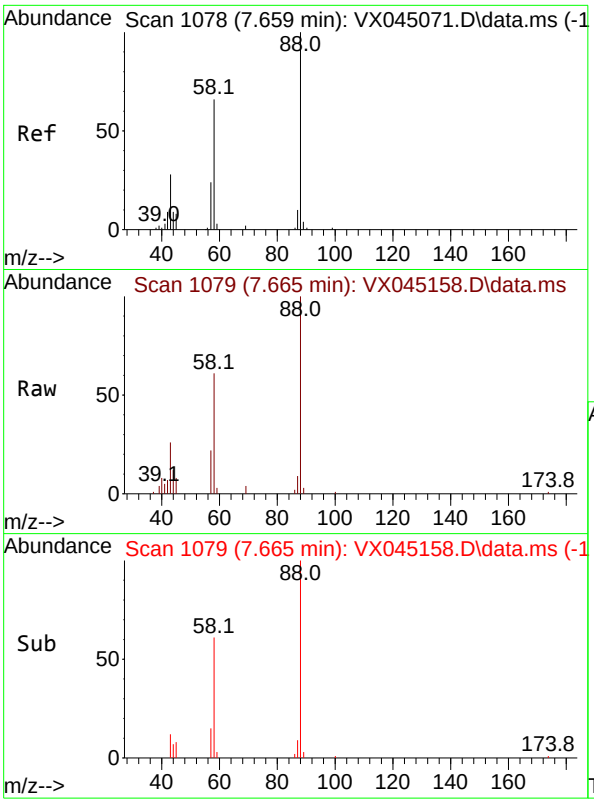


#48
Methyl methacrylate
Concen: 20.301 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. 0.006 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion: 41 Resp: 31277

Ion	Ratio	Lower	Upper
41	100		
69	77.5	63.0	94.6
39	61.0	47.5	71.3





#49
1,4-Dioxane
Concen: 426.482 ug/l
RT: 7.665 min Scan# 1(
Delta R.T. 0.006 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion: 88 Resp: 1386(

Ion	Ratio	Lower	Upper
88	100		
43	33.7	28.7	43.1
58	69.7	55.8	83.8

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01

Manual Integrations
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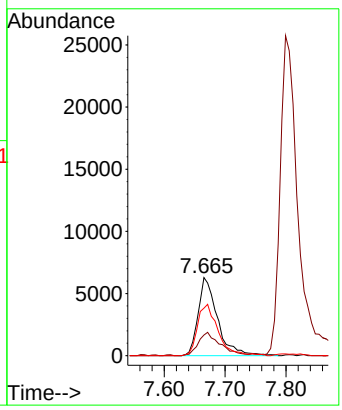
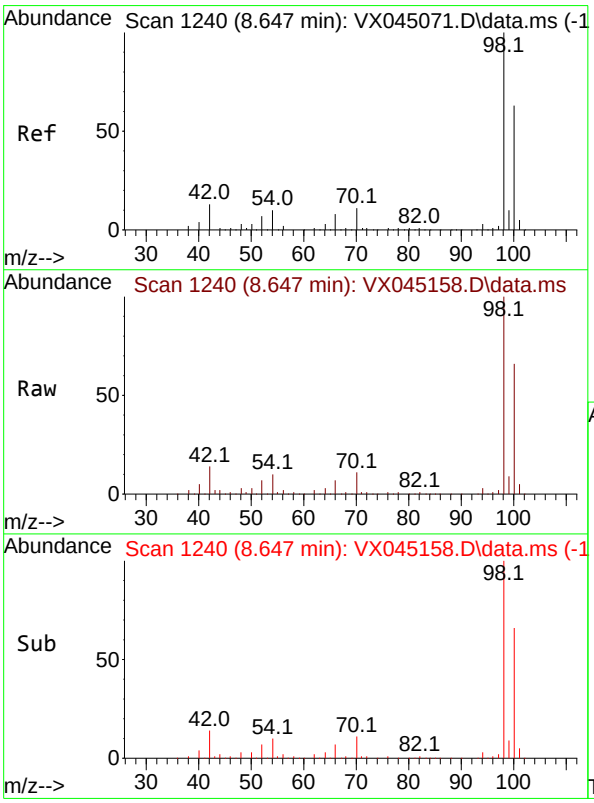
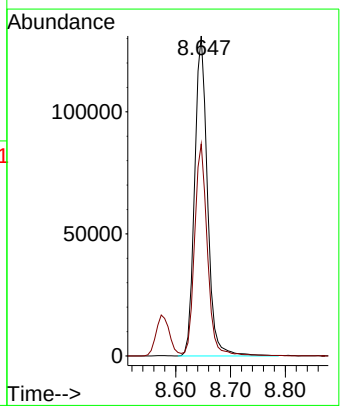


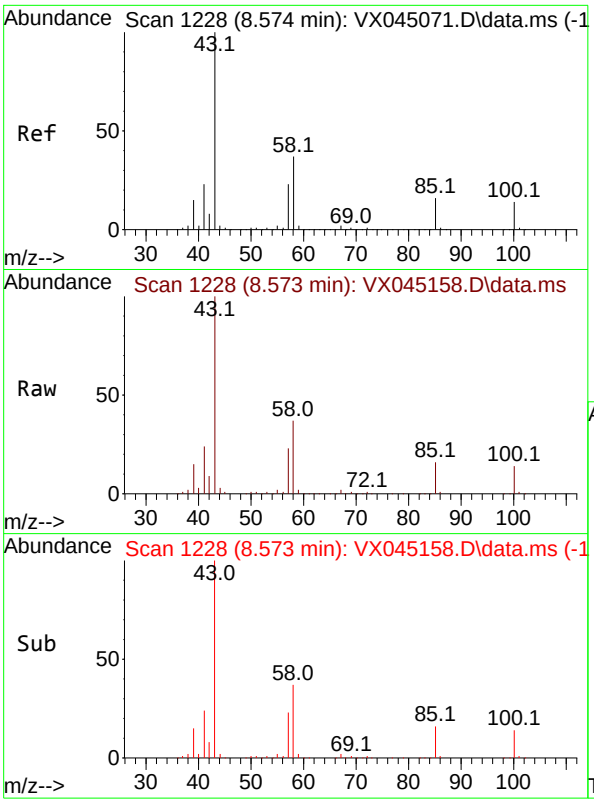


#50
Toluene-d8
Concen: 50.263 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion: 98 Resp: 214149

Ion	Ratio	Lower	Upper
98	100		
100	65.7	52.0	78.0





#51
4-Methyl-2-Pentanone
Concen: 104.420 ug/l
RT: 8.573 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion: 43 Resp: 215309

Ion	Ratio	Lower	Upper
43	100		
58	35.8	29.2	43.8

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01

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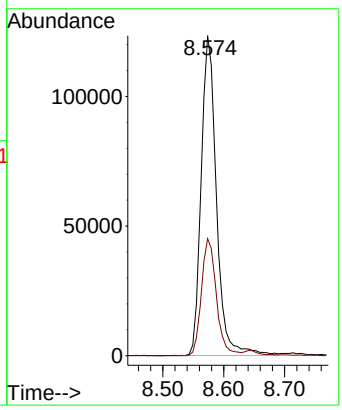
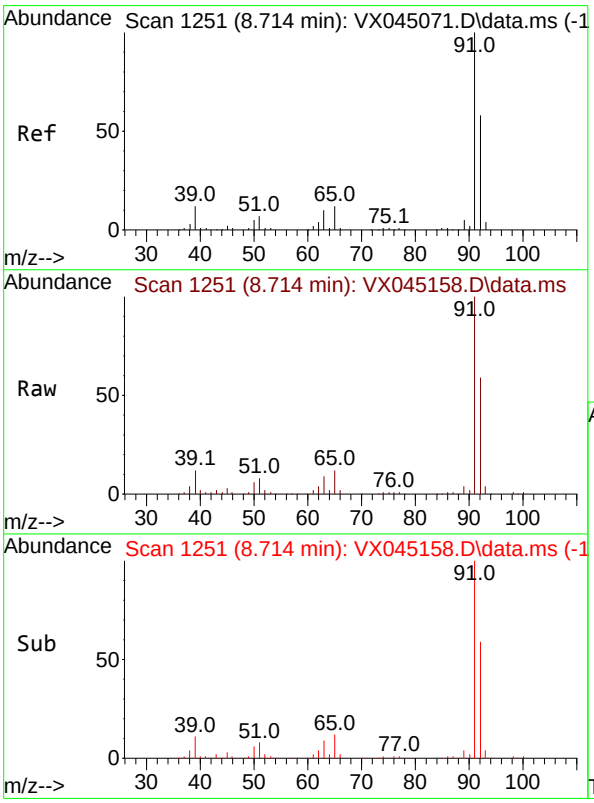
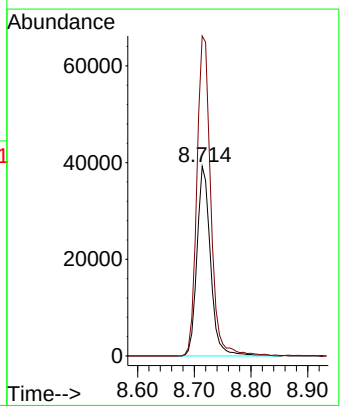


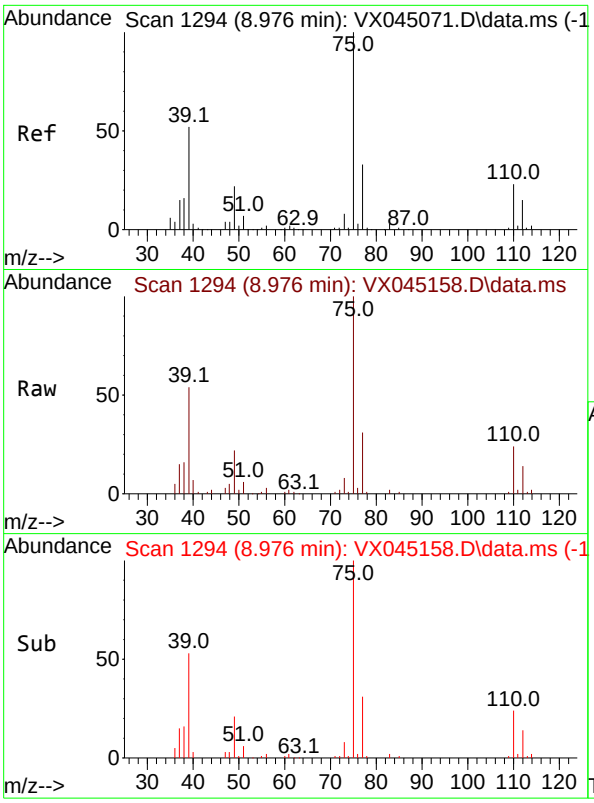


#52
Toluene
Concen: 21.814 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion: 92 Resp: 65138

Ion	Ratio	Lower	Upper
92	100		
91	172.9	138.9	208.3





#53
t-1,3-Dichloropropene
Concen: 20.407 ug/l
RT: 8.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion: 75 Resp: 3095

Ion	Ratio	Lower	Upper
75	100		
77	31.1	26.5	39.7

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01

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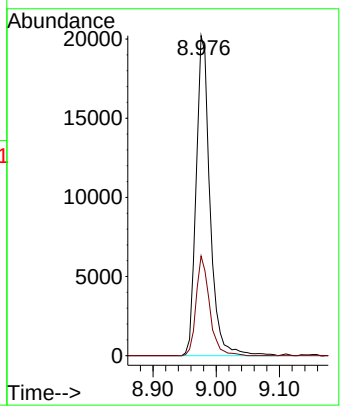
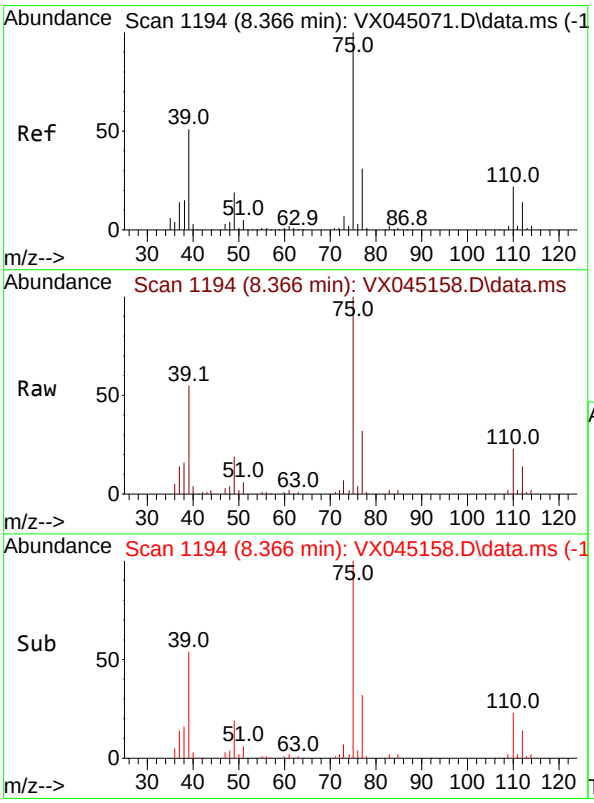
Supervised By :Mahesh Dadoda 03/10/2025

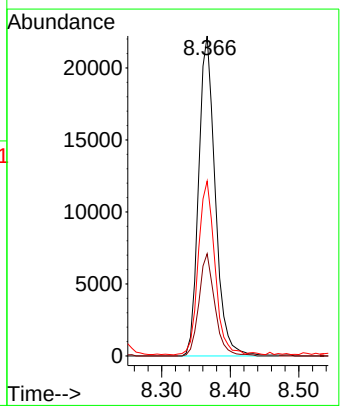


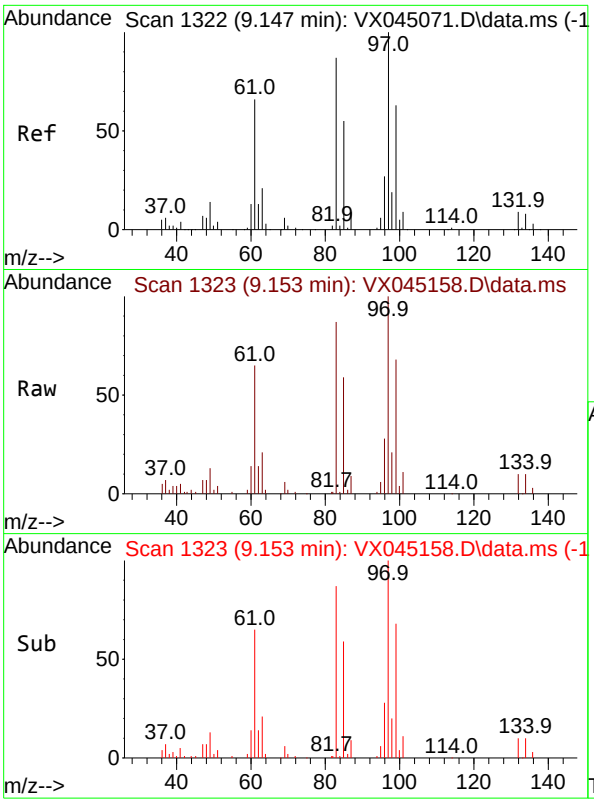


#54
cis-1,3-Dichloropropene
Concen: 21.182 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion: 75 Resp: 37460

Ion	Ratio	Lower	Upper
75	100		
77	31.9	24.7	37.1
39	54.1	40.7	61.1





#55
1,1,2-Trichloroethane
Concen: 20.219 ug/l
RT: 9.153 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion: 97 Resp: 2485

Ion	Ratio	Lower	Upper
97	100		
83	87.0	69.4	104.2
85	59.0	44.1	66.1
99	67.4	50.7	76.1

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01

Manual Integrations
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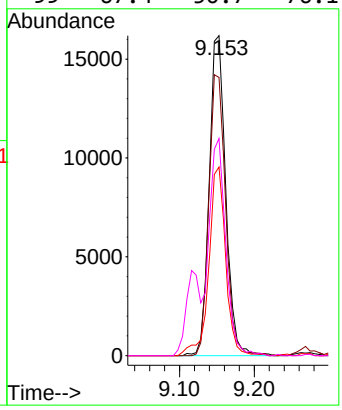
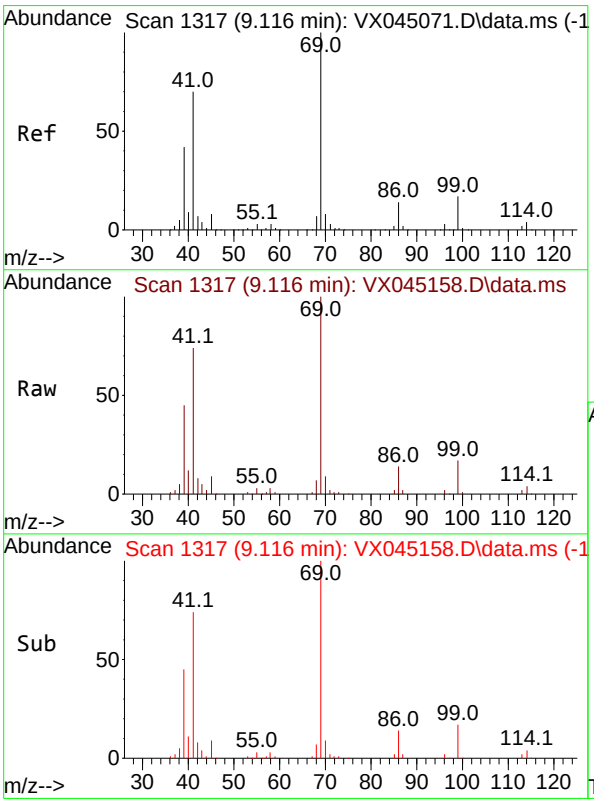
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

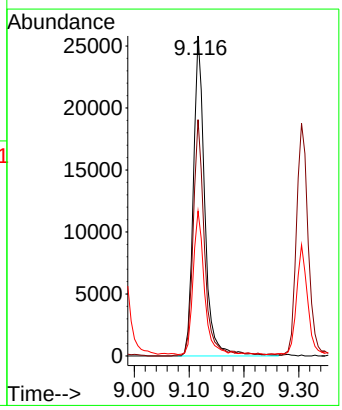


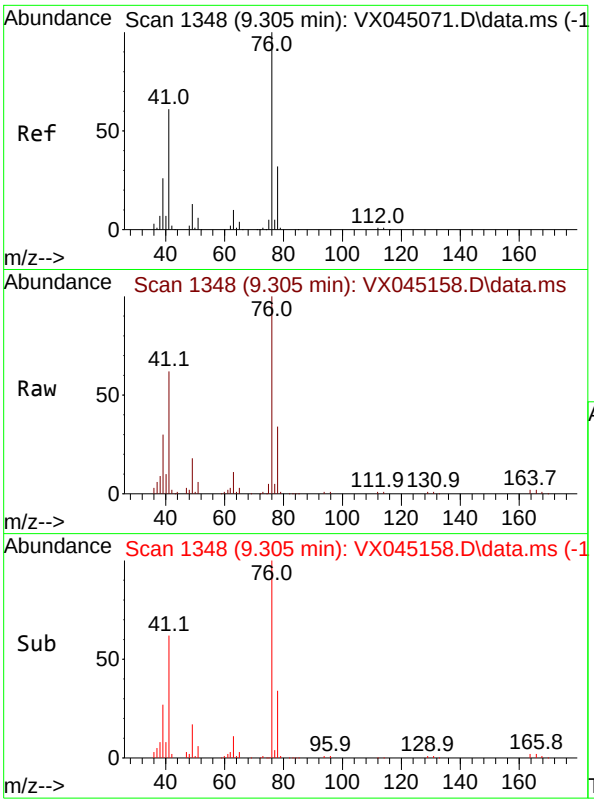


#56
Ethyl methacrylate
Concen: 20.084 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion: 69 Resp: 37529

Ion	Ratio	Lower	Upper
69	100		
41	73.8	57.0	85.4
39	44.2	34.2	51.4





#57
1,3-Dichloropropane
Concen: 20.660 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion: 76 Resp: 4395

Ion	Ratio	Lower	Upper
76	100		
78	32.8	25.5	38.3

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01

Manual Integrations
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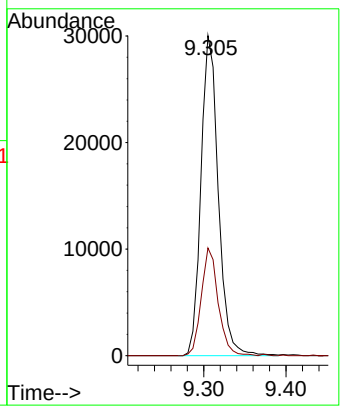
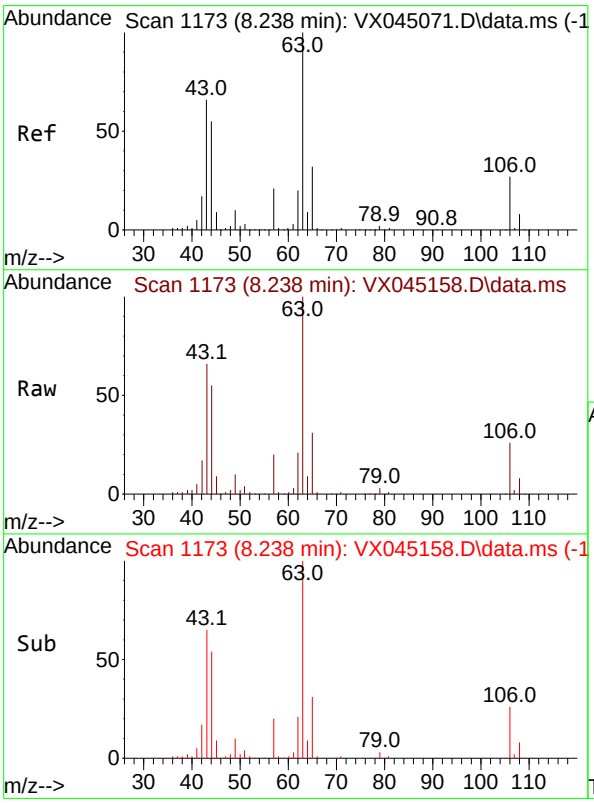
Supervised By :Mahesh Dadoda 03/10/2025

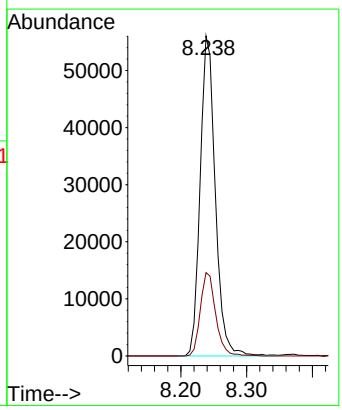


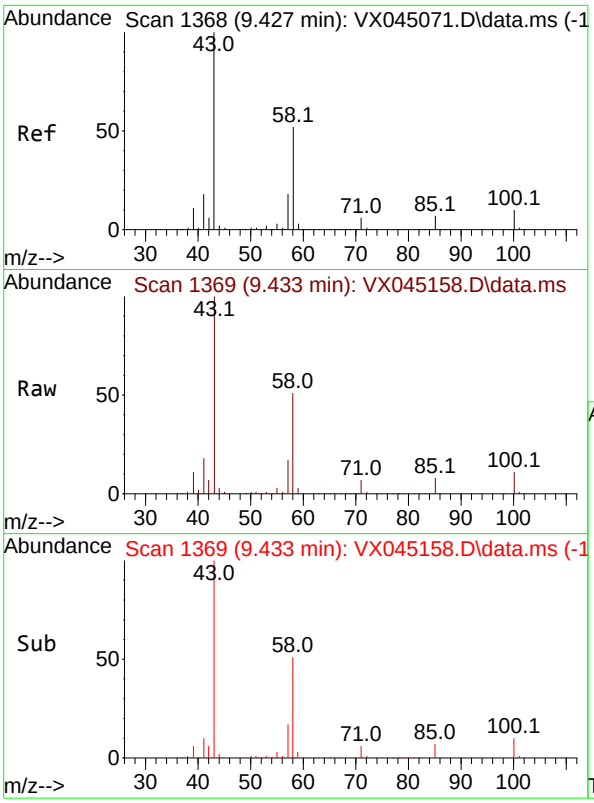


#58
2-Chloroethyl Vinyl ether
Concen: 98.410 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion: 63 Resp: 89701

Ion	Ratio	Lower	Upper
63	100		
106	26.4	21.5	32.3





#59
2-Hexanone
Concen: 105.853 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion: 43 Resp: 15814

Ion	Ratio	Lower	Upper
43	100		
58	51.1	25.9	77.6

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01

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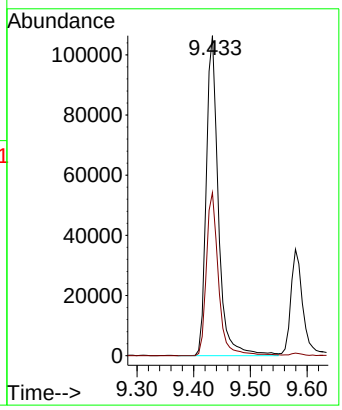
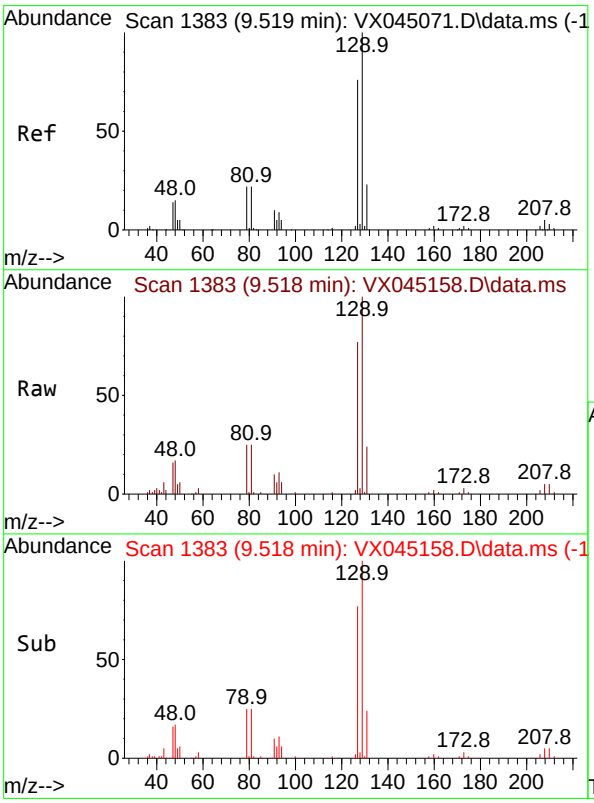
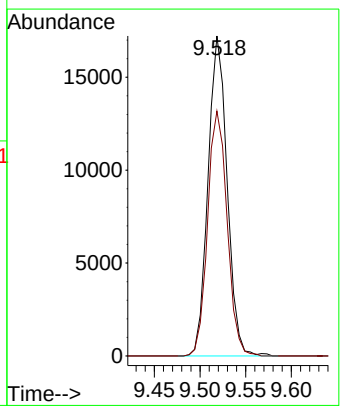


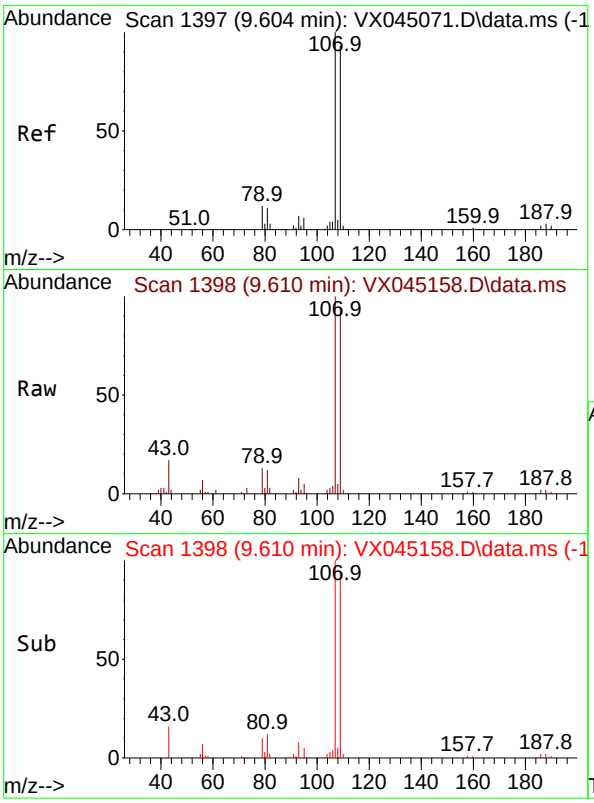


#60
Dibromochloromethane
Concen: 19.466 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion:129 Resp: 25020

Ion	Ratio	Lower	Upper
129	100		
127	78.3	38.5	115.5





#61
1,2-Dibromoethane
Concen: 20.343 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion:107 Resp: 2496

Ion	Ratio	Lower	Upper
107	100		
109	94.9	76.1	114.1

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01

Manual Integrations
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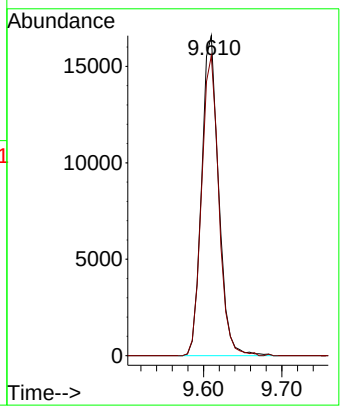
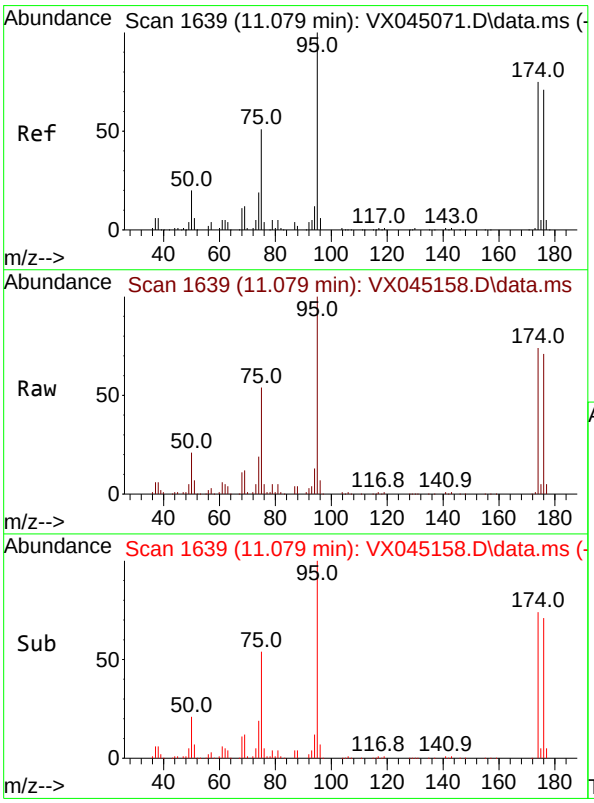
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

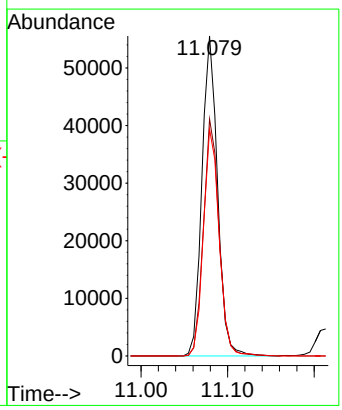


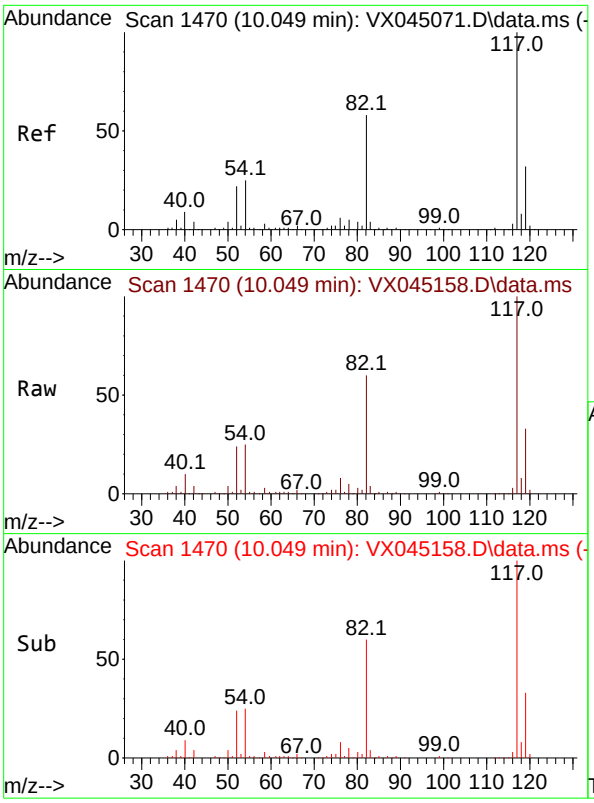


#62
4-Bromofluorobenzene
Concen: 49.179 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion: 95 Resp: 69431

Ion	Ratio	Lower	Upper
95	100		
174	74.1	0.0	148.2
176	71.6	0.0	141.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

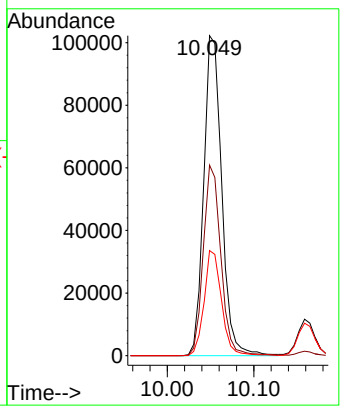
Tgt Ion:117 Resp: 14775

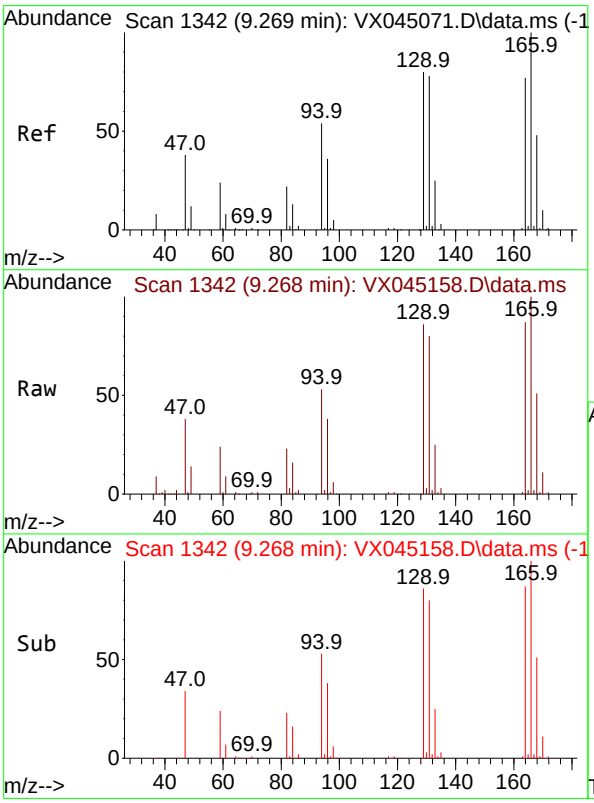
Ion	Ratio	Lower	Upper
117	100		
82	59.6	46.3	69.5
119	32.8	25.7	38.5

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

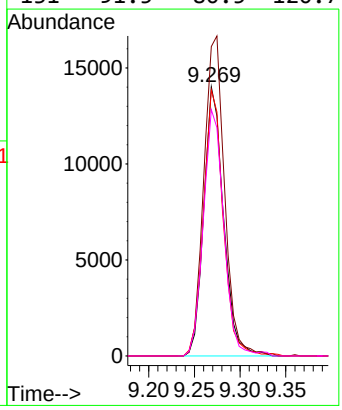


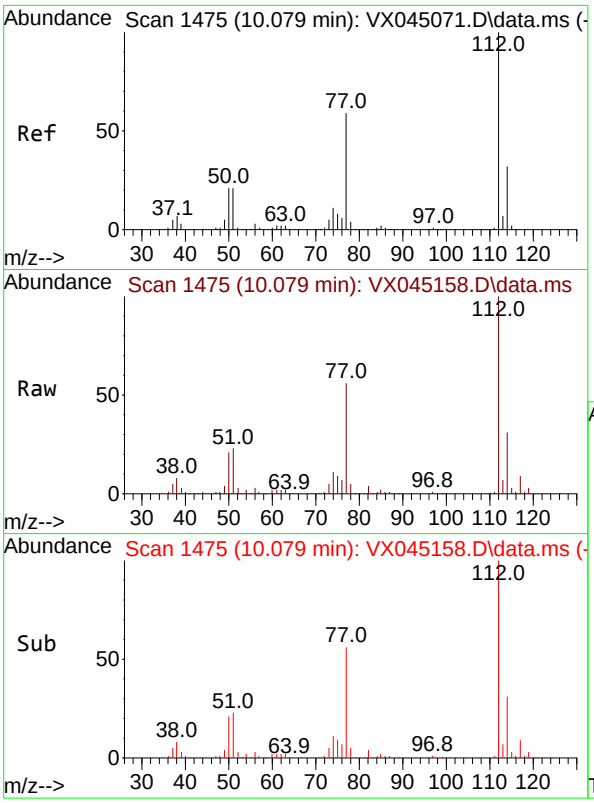


#64
Tetrachloroethene
Concen: 22.233 ug/l
RT: 9.268 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion:164 Resp: 21040

Ion	Ratio	Lower	Upper
164	100		
166	115.0	103.6	155.4
129	98.8	82.7	124.1
131	91.5	80.5	120.7





#65
Chlorobenzene
Concen: 21.638 ug/l
RT: 10.079 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion:112 Resp: 6765

Ion	Ratio	Lower	Upper
112	100		
114	30.6	26.0	39.0

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01

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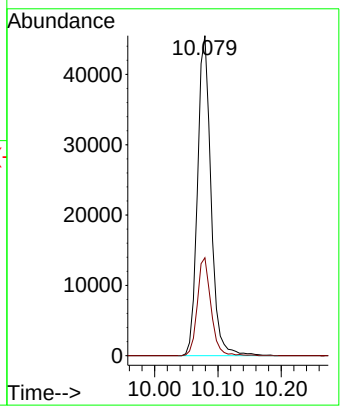
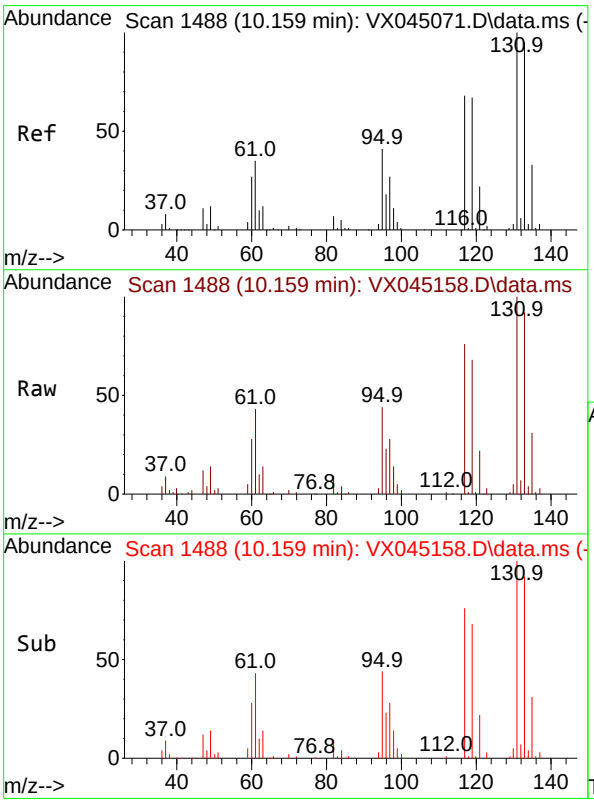
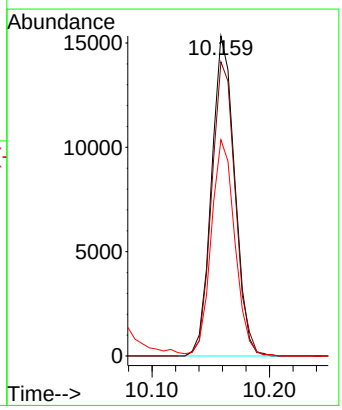


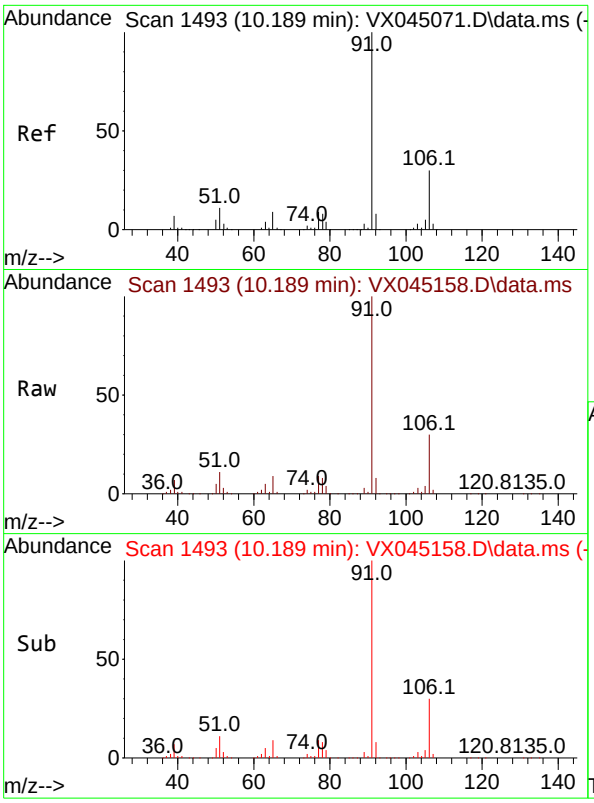


#66
1,1,1,2-Tetrachloroethane
Concen: 20.181 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion:131 Resp: 21012

Ion	Ratio	Lower	Upper
131	100		
133	94.0	48.6	145.9
119	68.9	33.9	101.7





#67
Ethyl Benzene
Concen: 21.687 ug/l
RT: 10.189 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion: 91 Resp: 11814

Ion	Ratio	Lower	Upper
91	100		
106	30.5	23.9	35.9

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01

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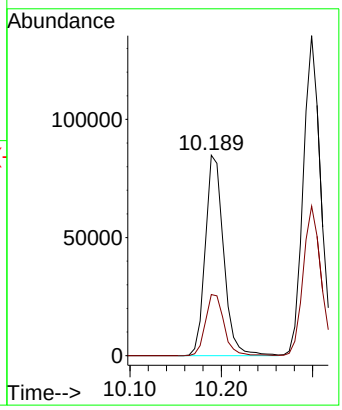
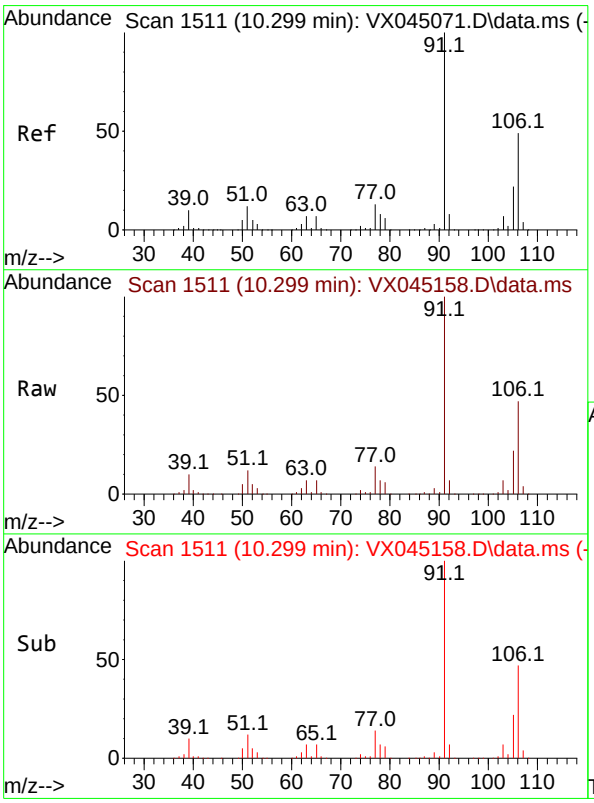
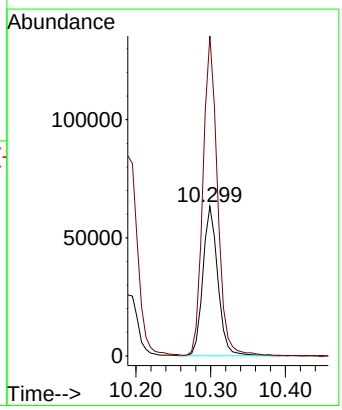


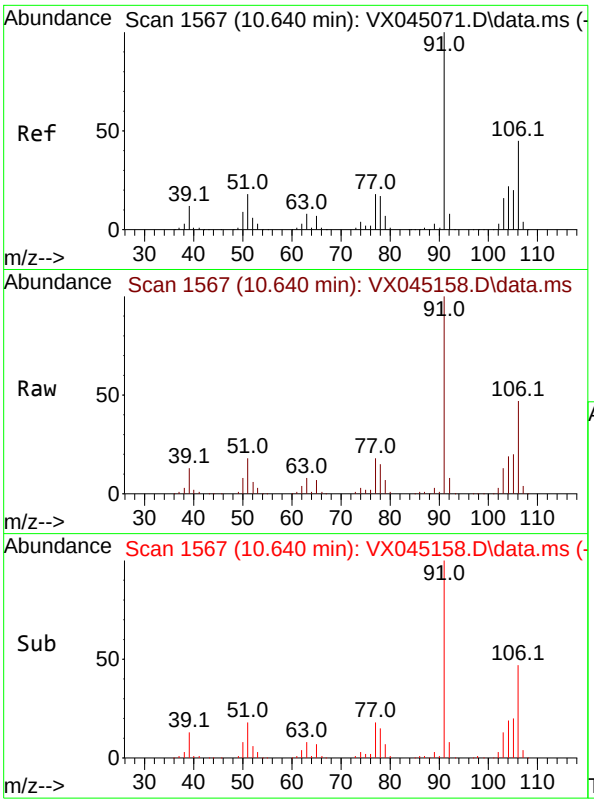


#68
m/p-Xylenes
Concen: 43.986 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion:106 Resp: 87720

Ion	Ratio	Lower	Upper
106	100		
91	208.7	165.4	248.0





#69
o-Xylene
Concen: 21.539 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion:106 Resp: 4332

Ion	Ratio	Lower	Upper
106	100		
91	218.3	109.9	329.6

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01

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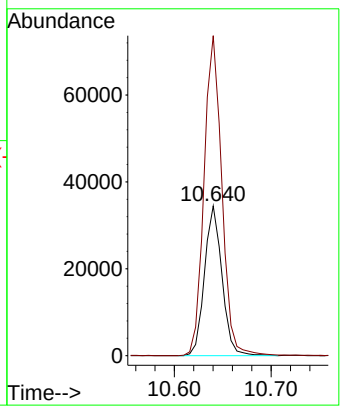
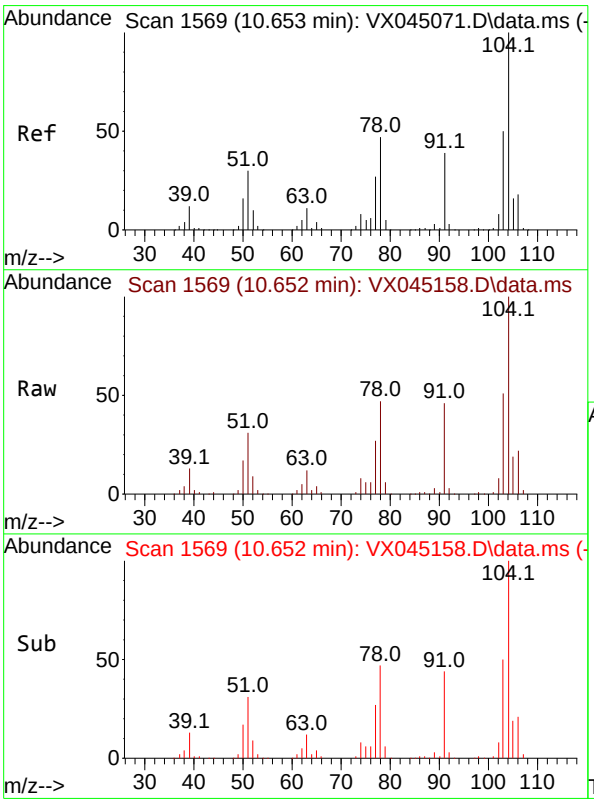
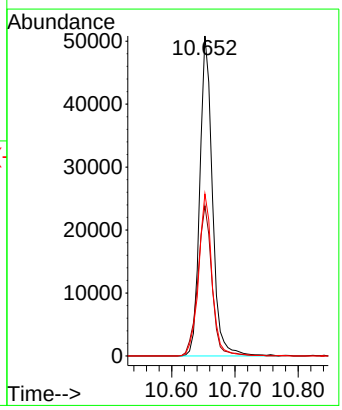


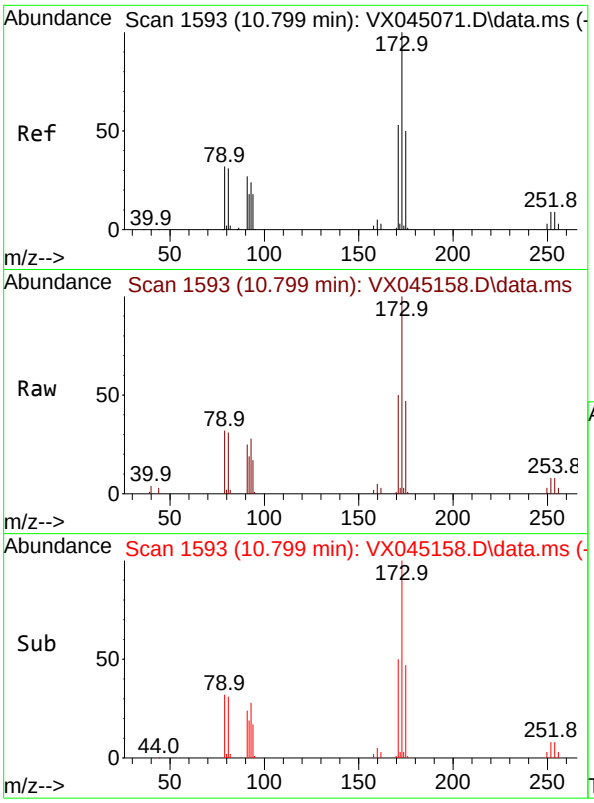


#70
Styrene
Concen: 21.700 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion:104 Resp: 70623

Ion	Ratio	Lower	Upper
104	100		
78	52.5	42.2	63.4
103	53.9	43.8	65.8





#71
Bromoform
Concen: 19.408 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion:173 Resp: 1523

Ion	Ratio	Lower	Upper
173	100		
175	48.9	24.6	73.6
254	0.0	0.0	0.0

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01

Manual Integrations
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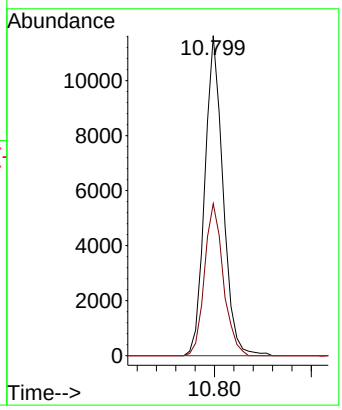
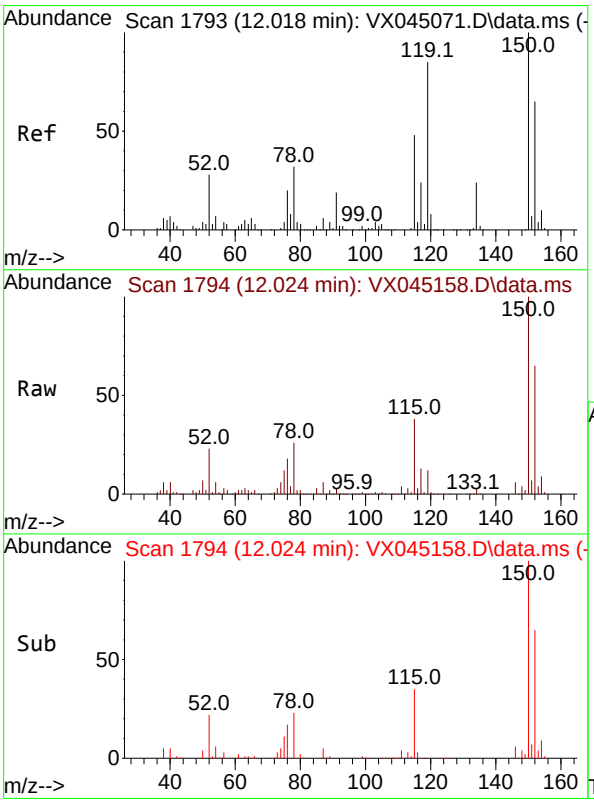
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

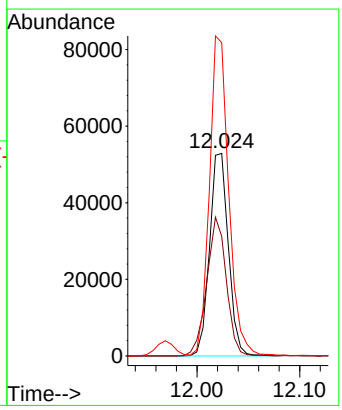


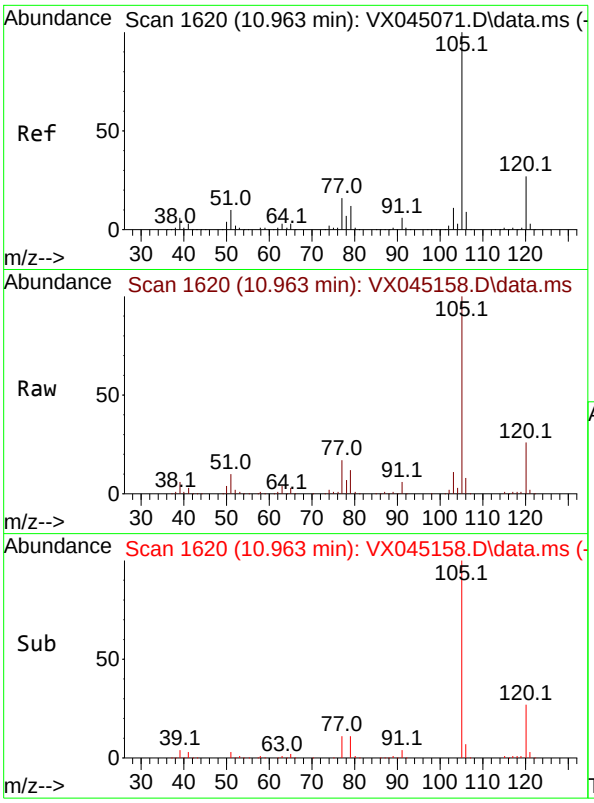


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.006 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion:152 Resp: 67123

Ion	Ratio	Lower	Upper
152	100		
115	71.3	44.2	132.6
150	161.6	0.0	349.0





#73
Isopropylbenzene
Concen: 21.304 ug/l
RT: 10.963 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion:105 Resp: 11161

Ion	Ratio	Lower	Upper
105	100		
120	26.2	13.2	39.5

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01

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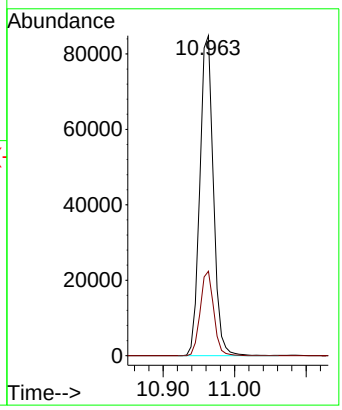
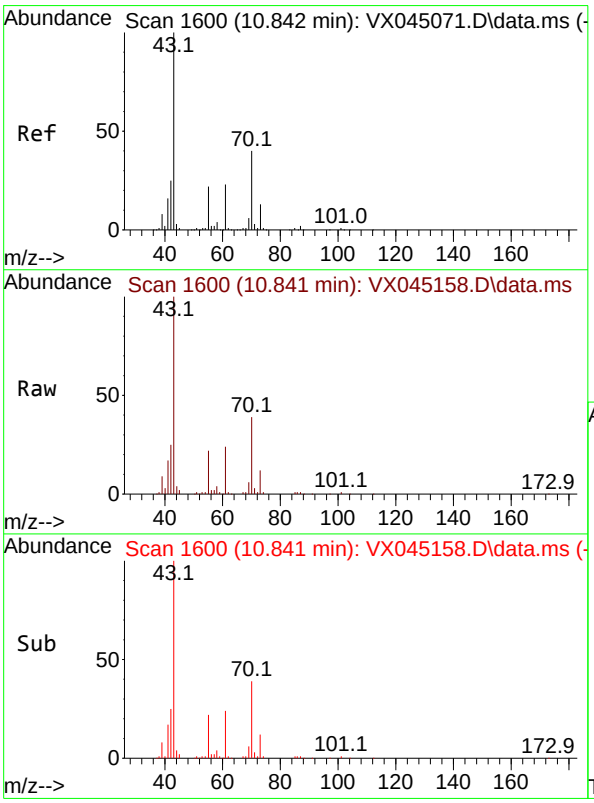
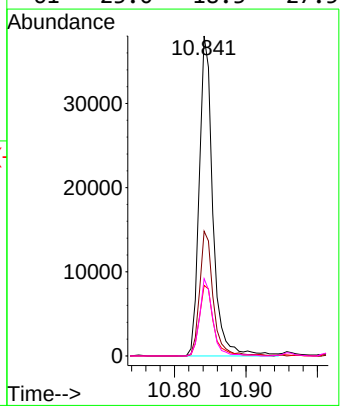


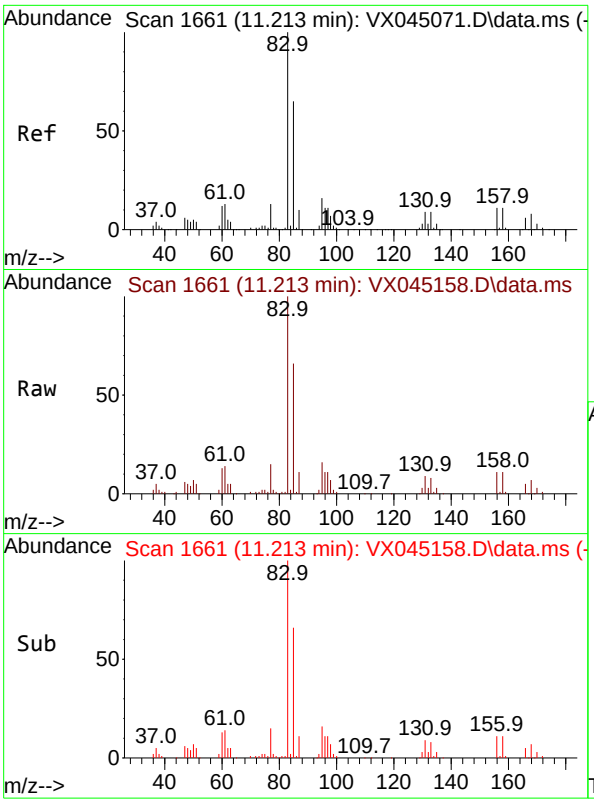


#74
N-amyl acetate
Concen: 20.428 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion: 43 Resp: 50220

Ion	Ratio	Lower	Upper
43	100		
70	39.0	31.8	47.6
55	23.0	18.3	27.5
61	23.0	18.3	27.5





#75
1,1,2,2-Tetrachloroethane
Concen: 20.775 ug/l
RT: 11.213 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion: 83 Resp: 3994

Ion	Ratio	Lower	Upper
83	100		
131	9.1	4.5	13.4
85	64.2	31.7	95.1

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01

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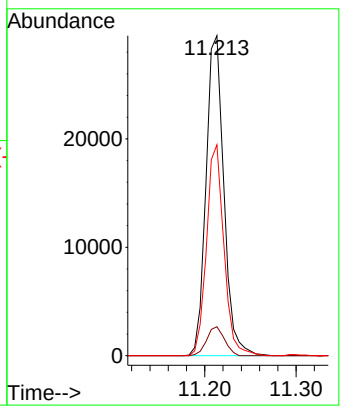
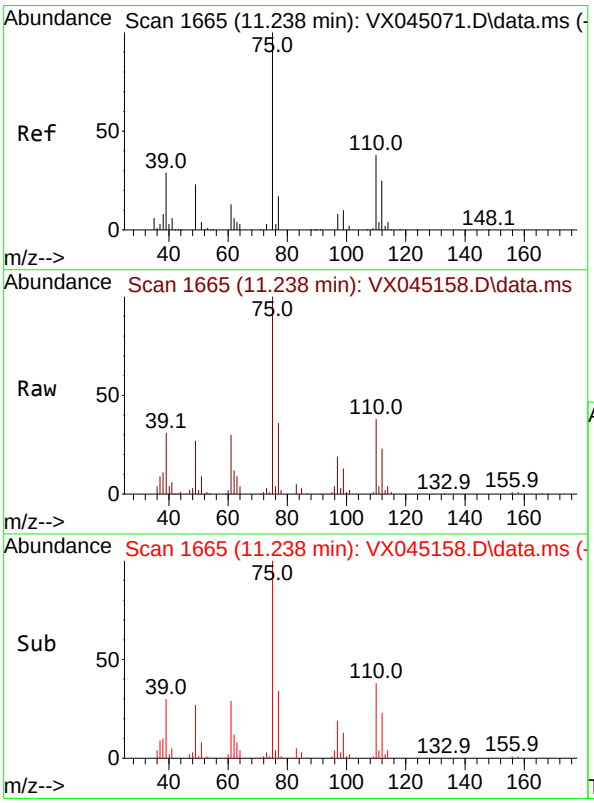
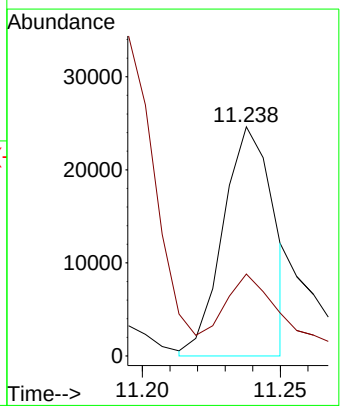


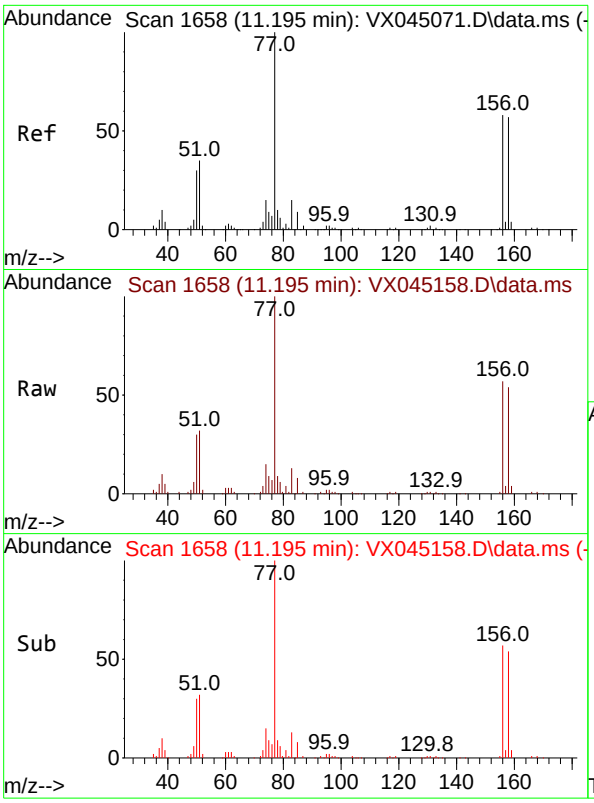


#76
1,2,3-Trichloropropane
Concen: 20.030 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion: 75 Resp: 31293

Ion	Ratio	Lower	Upper
75	100		
77	43.4	20.7	62.1





#77
Bromobenzene
Concen: 20.716 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion:156 Resp: 2560

Ion	Ratio	Lower	Upper
156	100		
77	171.8	85.8	257.4
158	96.3	48.4	145.2

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01

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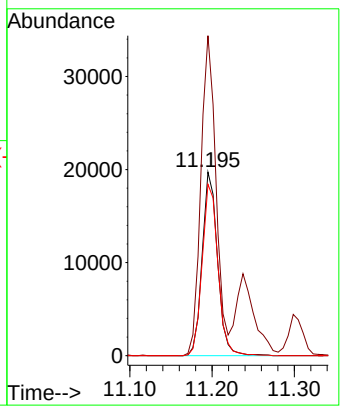
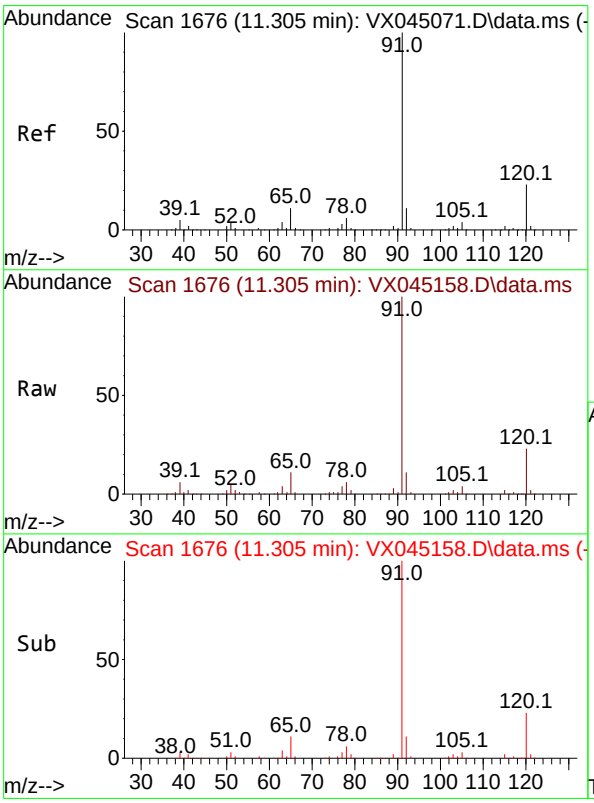
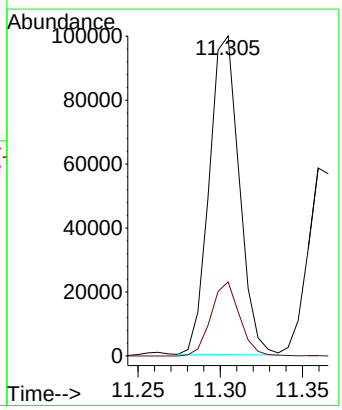


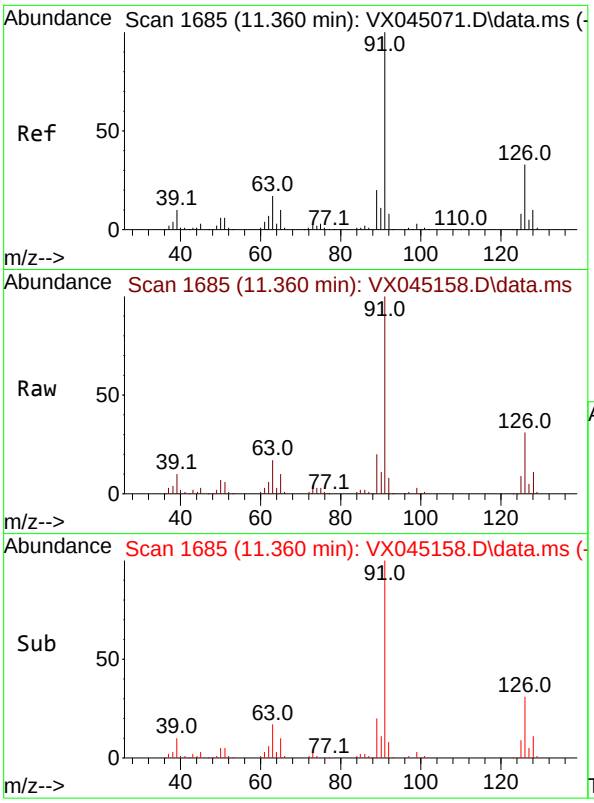


#78
n-propylbenzene
Concen: 21.423 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion: 91 Resp: 126790

Ion	Ratio	Lower	Upper
91	100		
120	22.2	11.2	33.6





#79
2-Chlorotoluene
Concen: 20.533 ug/l
RT: 11.360 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion: 91 Resp: 7739

Ion	Ratio	Lower	Upper
91	100		
126	32.8	16.4	49.4

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01

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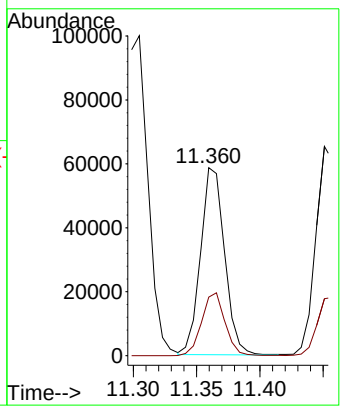
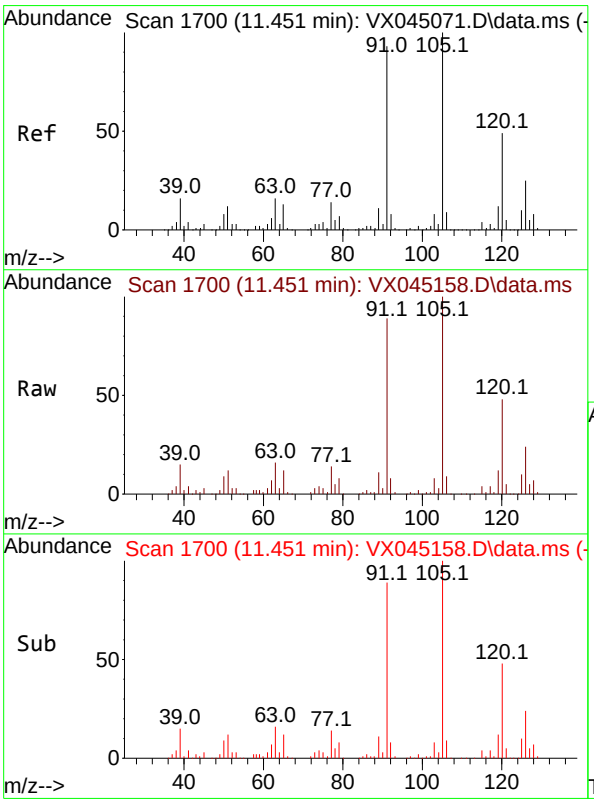
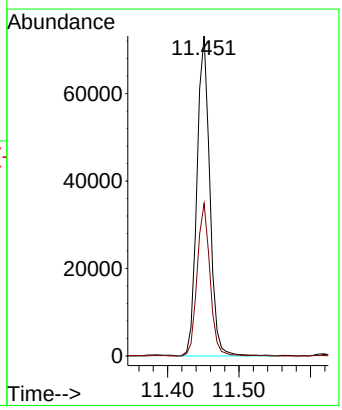


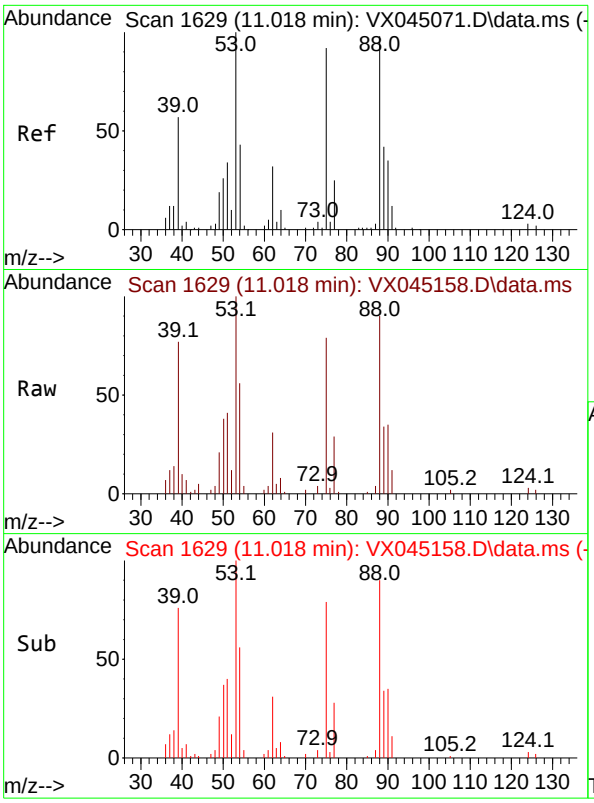


#80
1,3,5-Trimethylbenzene
Concen: 21.511 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion:105 Resp: 91126

Ion	Ratio	Lower	Upper
105	100		
120	47.6	24.1	72.2





#81
trans-1,4-Dichloro-2-butene
Concen: 16.954 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion: 75 Resp: 774

Ion	Ratio	Lower	Upper
75	100		
53	135.5	88.5	132.7#
89	47.9	36.2	54.4

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01

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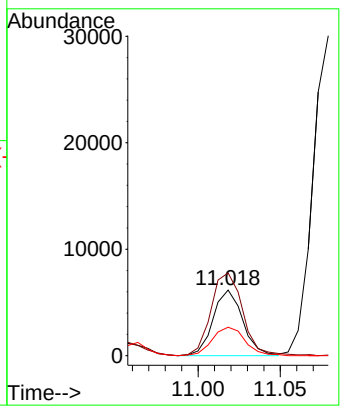
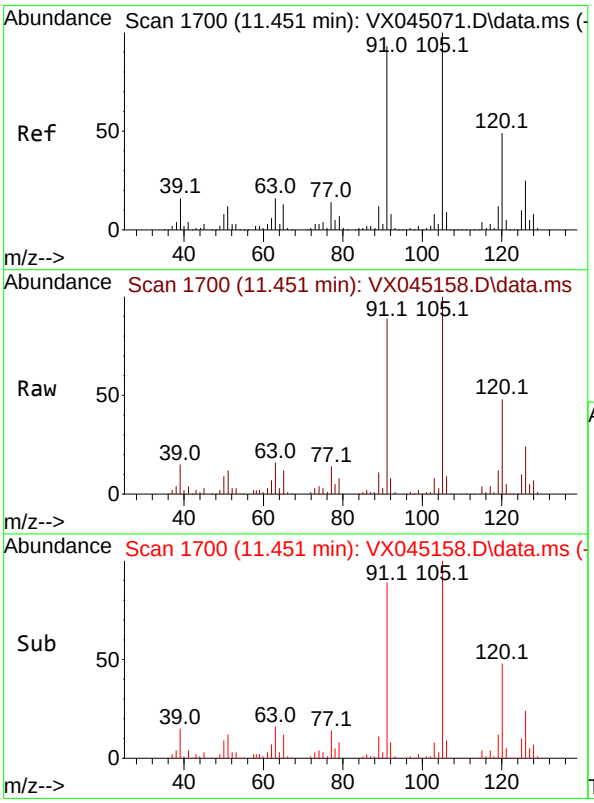
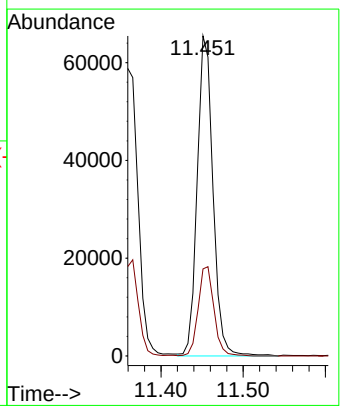


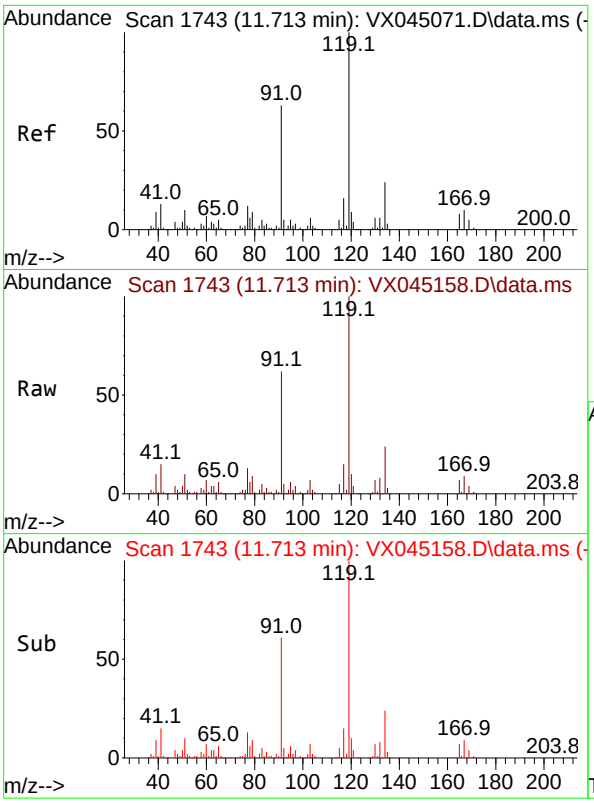


#82
4-Chlorotoluene
Concen: 21.257 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion: 91 Resp: 87322

Ion	Ratio	Lower	Upper
91	100		
126	27.8	14.1	42.4





#83
tert-Butylbenzene
Concen: 20.921 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

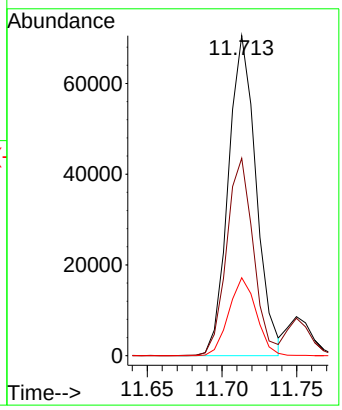
Tgt Ion:119 Resp: 9106

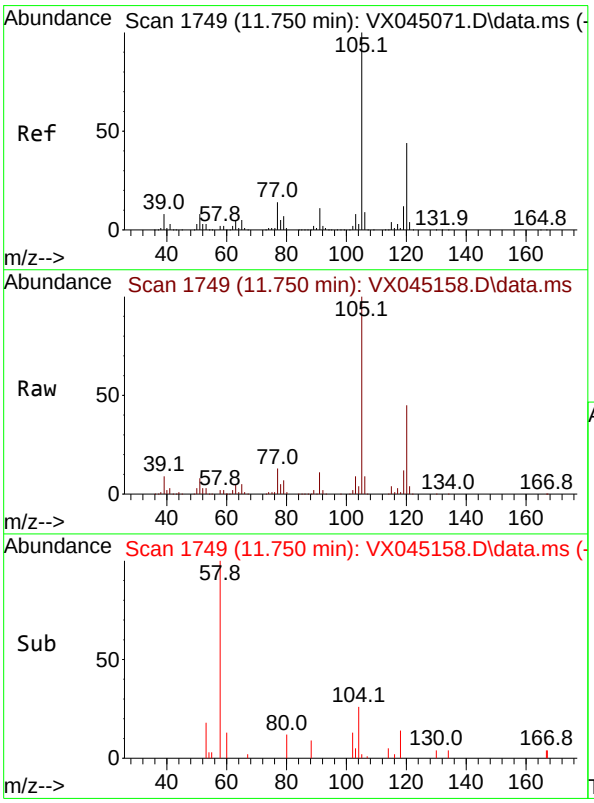
Ion	Ratio	Lower	Upper
119	100		
91	60.0	30.7	92.1
134	24.1	11.7	35.0

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

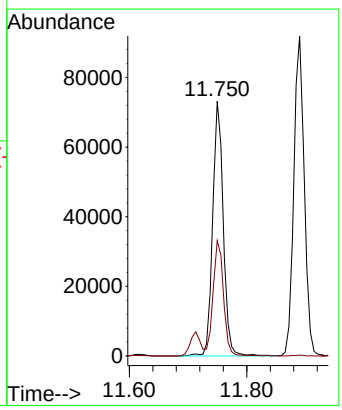


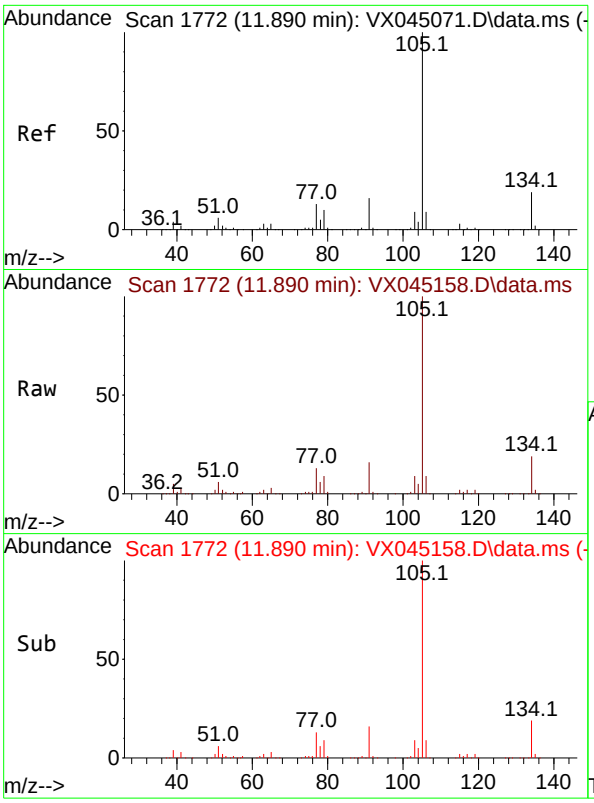


#84
1,2,4-Trimethylbenzene
Concen: 21.544 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion:105 Resp: 91832

Ion	Ratio	Lower	Upper
105	100		
120	44.1	22.1	66.1





#85
sec-Butylbenzene
Concen: 21.656 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion:105 Resp: 11291

Ion	Ratio	Lower	Upper
105	100		
134	19.4	9.8	29.4

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01

Manual Integrations
APPROVED

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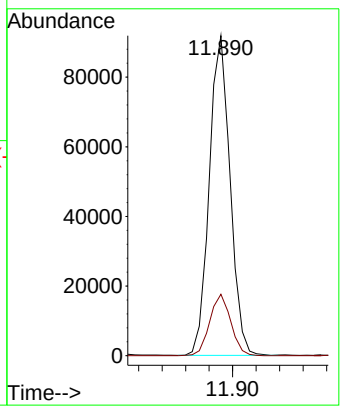
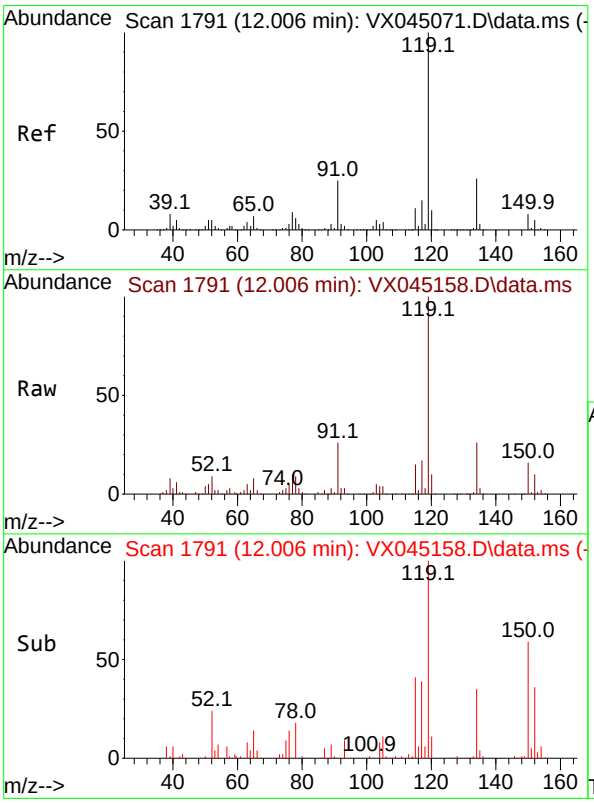
Supervised By :Mahesh Dadoda 03/10/2025

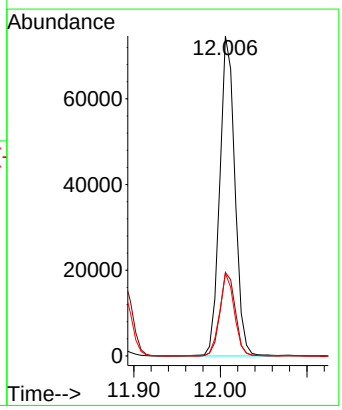


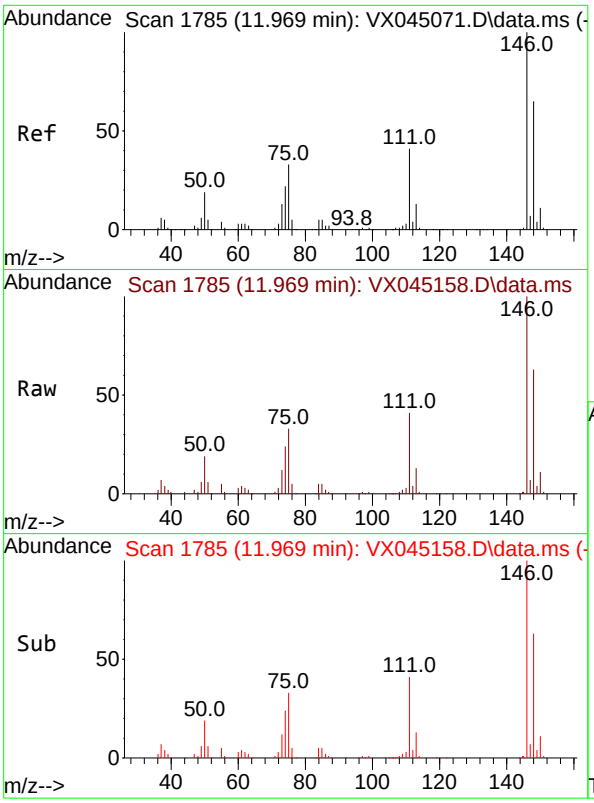


#86
p-Isopropyltoluene
Concen: 21.589 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion:119 Resp: 90968

Ion	Ratio	Lower	Upper
119	100		
134	26.2	12.9	38.6
91	25.1	12.7	38.0





#87
1,3-Dichlorobenzene
Concen: 20.761 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion:146 Resp: 4578

Ion	Ratio	Lower	Upper
146	100		
111	41.4	21.1	63.4
148	64.3	31.9	95.7

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/10/2025
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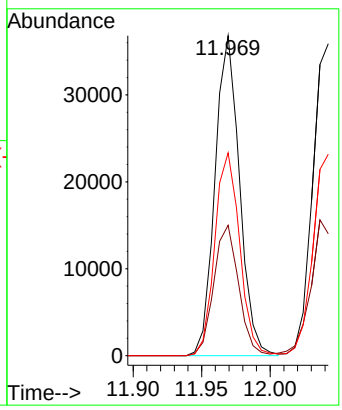
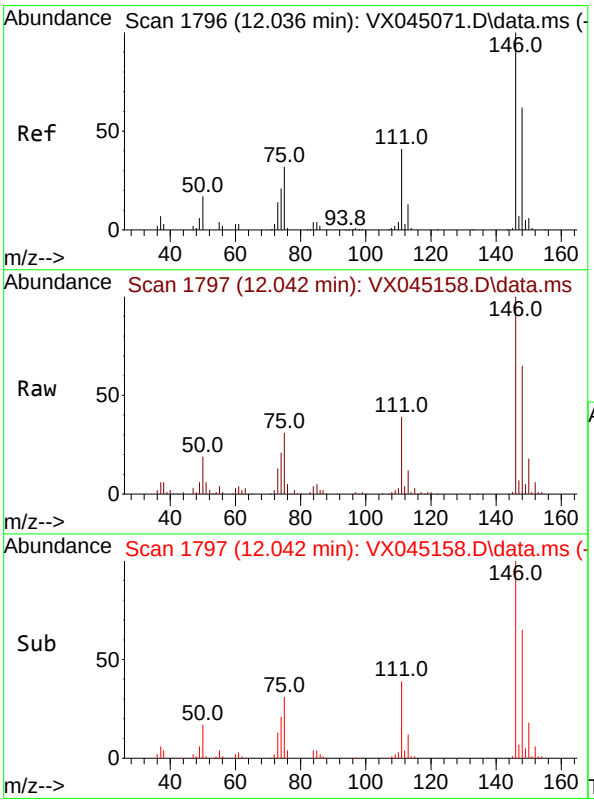
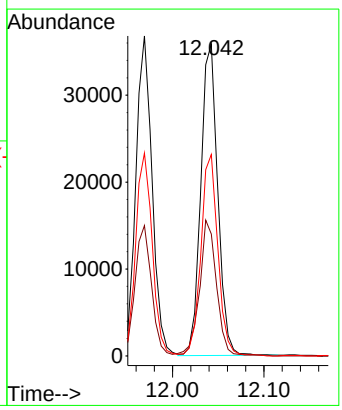


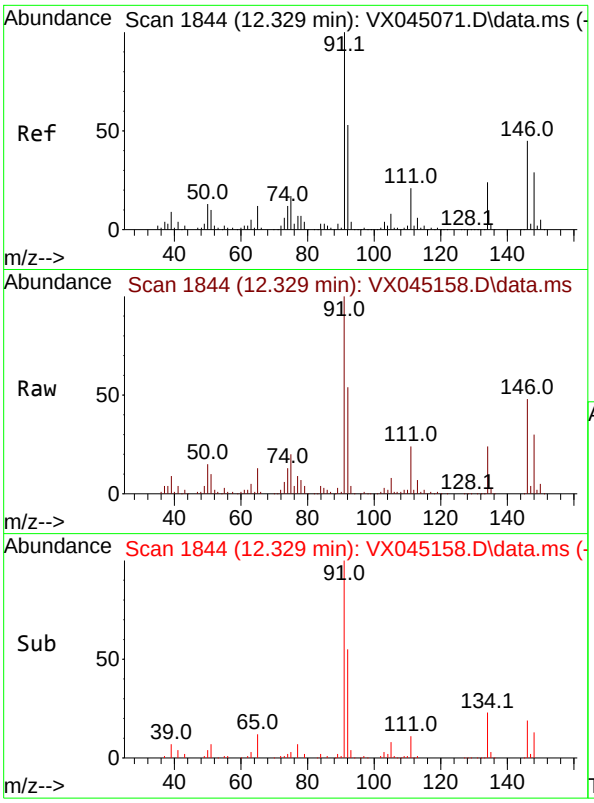


#88
1,4-Dichlorobenzene
Concen: 20.703 ug/l
RT: 12.042 min Scan# 1797
Delta R.T. 0.006 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion:146 Resp: 46189

Ion	Ratio	Lower	Upper
146	100		
111	44.1	20.2	60.5
148	65.0	31.9	95.9





#89
n-Butylbenzene
Concen: 21.925 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

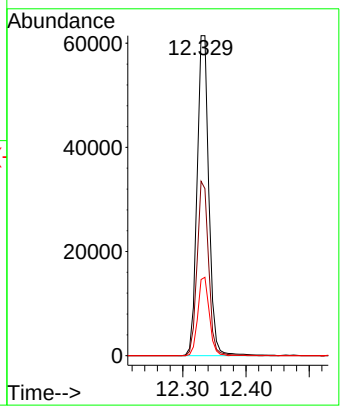
Tgt Ion: 91 Resp: 7956

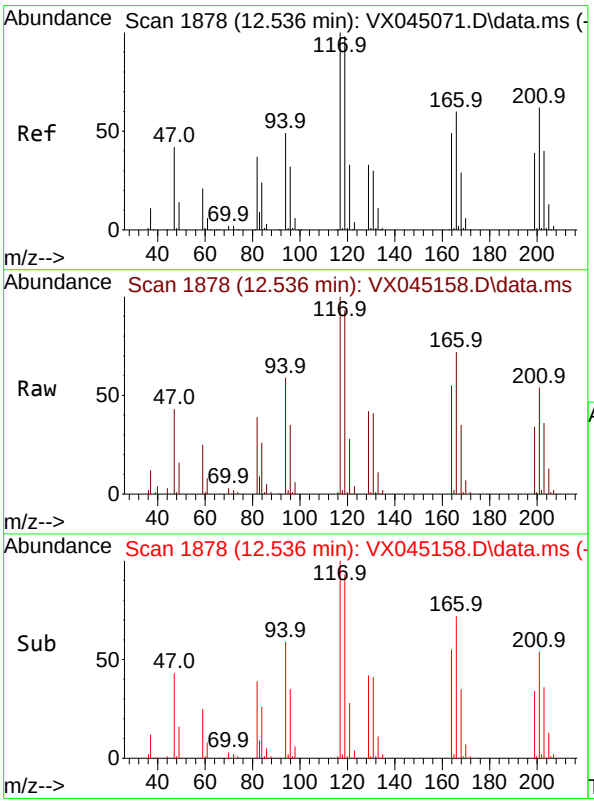
Ion	Ratio	Lower	Upper
91	100		
92	53.0	26.7	80.0
134	23.9	12.2	36.6

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

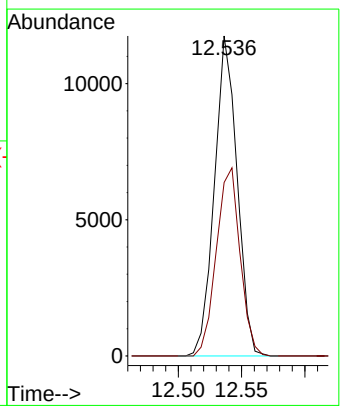


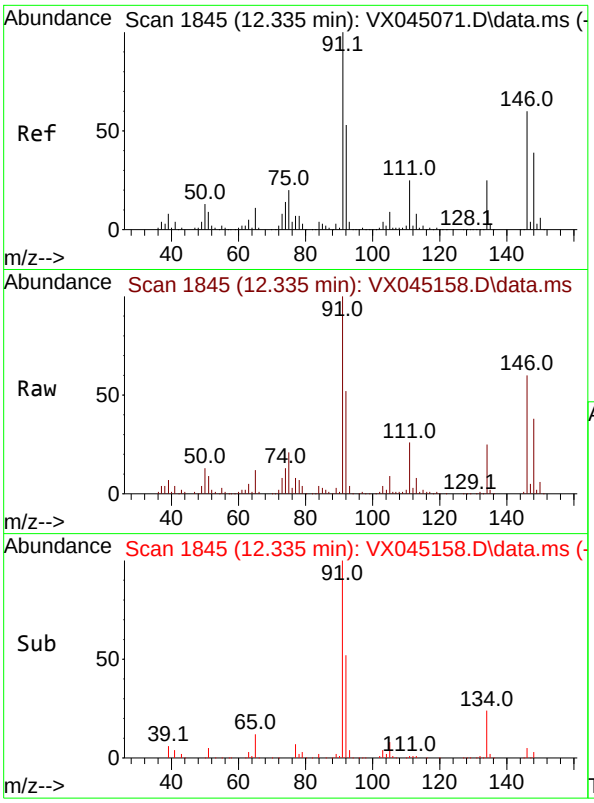


#90
Hexachloroethane
Concen: 19.200 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion:117 Resp: 14633

Ion	Ratio	Lower	Upper
117	100		
201	61.6	31.9	95.9





#91
1,2-Dichlorobenzene
Concen: 21.087 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

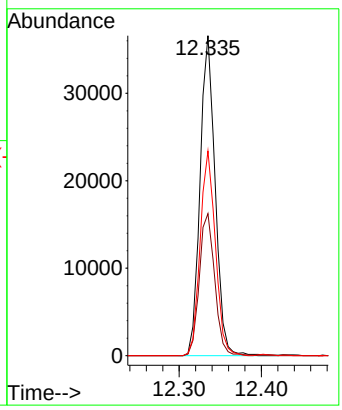
Tgt Ion:146 Resp: 4664

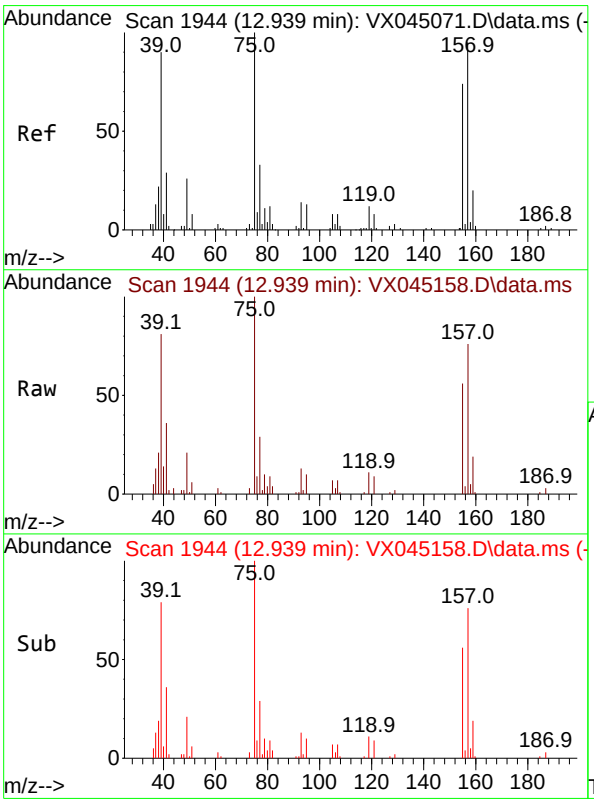
Ion	Ratio	Lower	Upper
146	100		
111	45.4	21.6	65.0
148	64.5	31.9	95.9

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

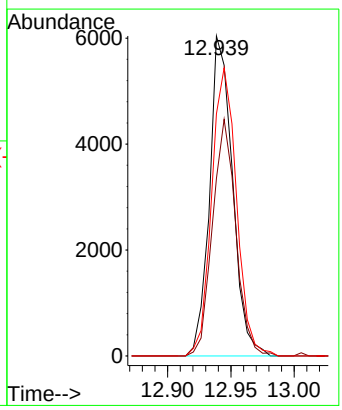


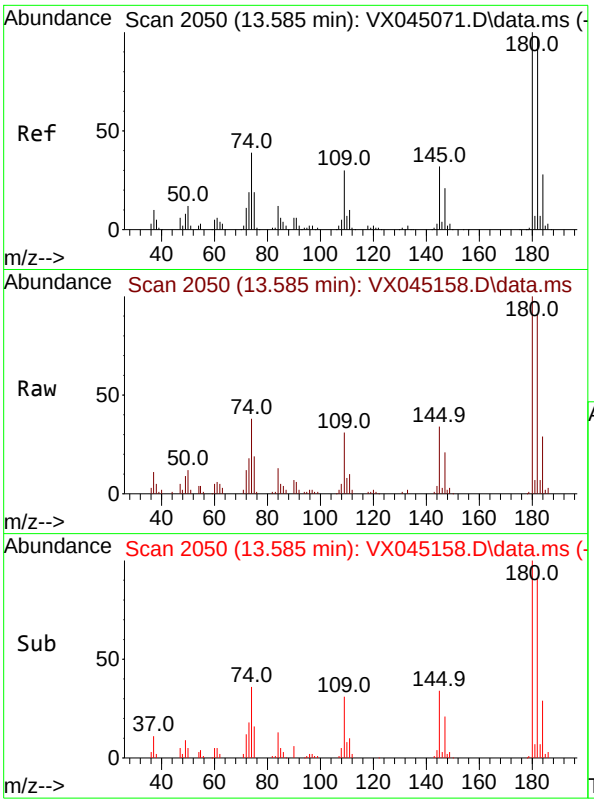


#92
1,2-Dibromo-3-Chloropropane
Concen: 20.400 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion: 75 Resp: 7641

Ion	Ratio	Lower	Upper
75	100		
155	74.8	39.6	118.7
157	97.2	51.1	153.4





#93
1,2,4-Trichlorobenzene
Concen: 21.219 ug/l
RT: 13.585 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

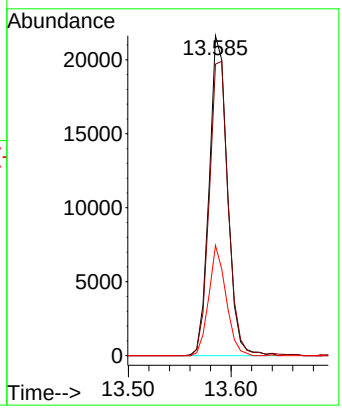
Tgt Ion:180 Resp: 2672

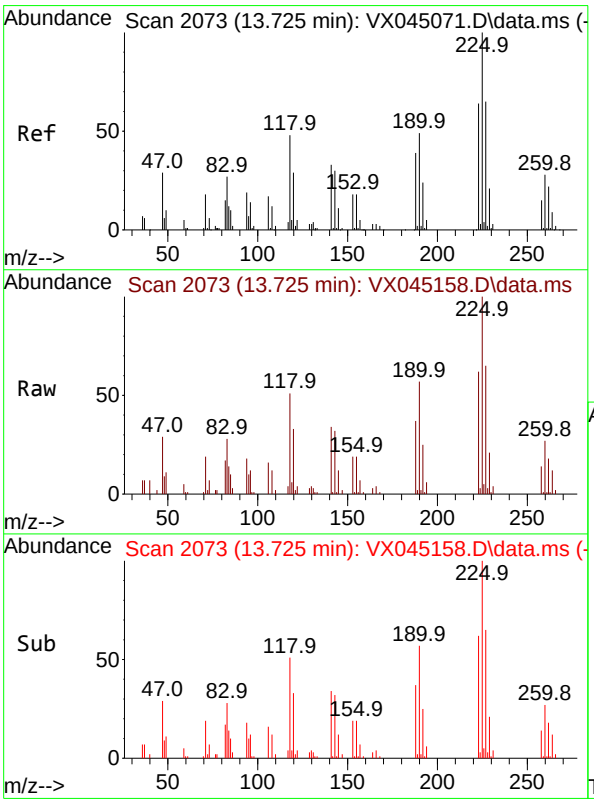
Ion	Ratio	Lower	Upper
180	100		
182	96.0	47.3	141.9
145	32.6	16.3	48.9

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

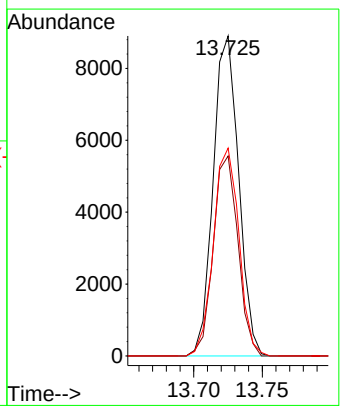


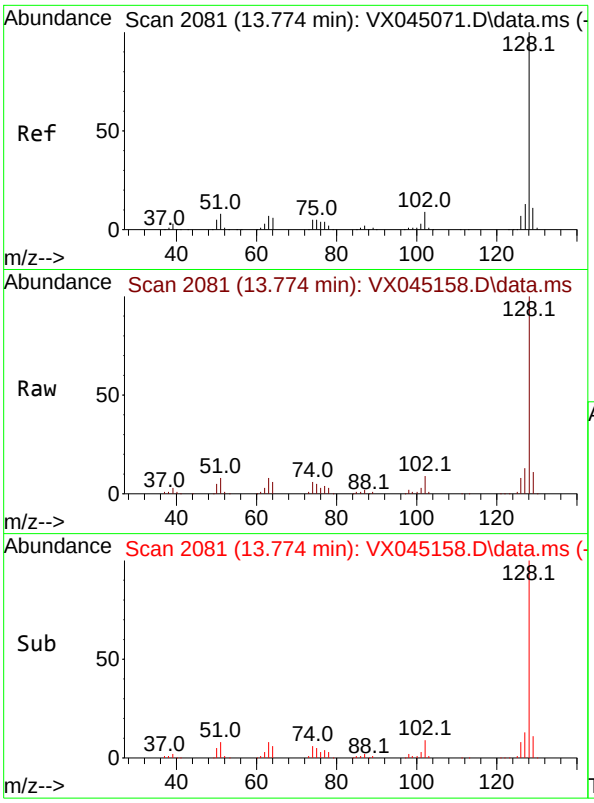


#94
Hexachlorobutadiene
Concen: 22.224 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion:225 Resp: 11477

Ion	Ratio	Lower	Upper
225	100		
223	60.8	31.9	95.7
227	65.2	31.4	94.0





#95
Naphthalene
Concen: 21.254 ug/l
RT: 13.774 min Scan# 2(
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion:128 Resp: 10285

Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.3	15.5
129	11.0	8.7	13.1

Instrument :
MSVOA_X
ClientSampleId :
VX0306WBS01

Manual Integrations
APPROVED

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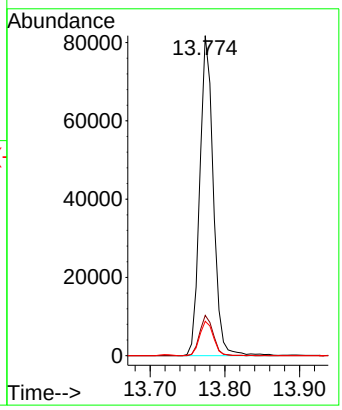
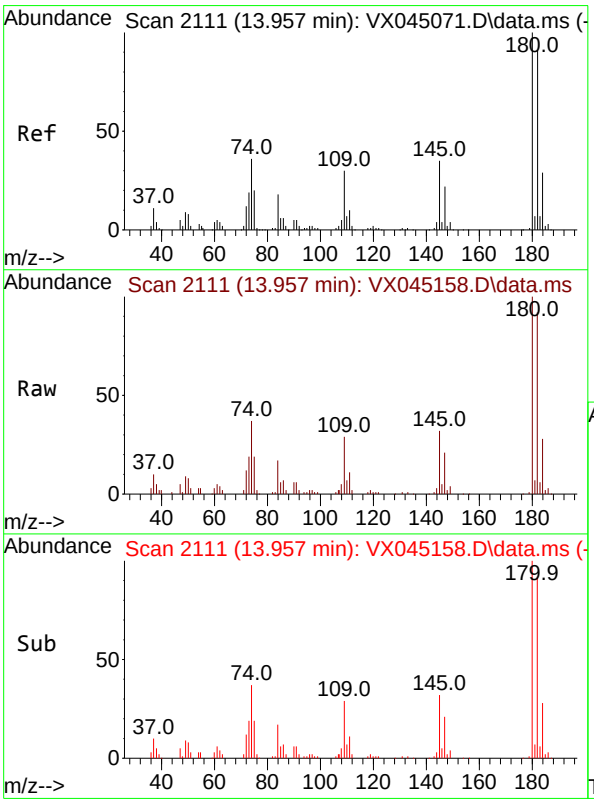
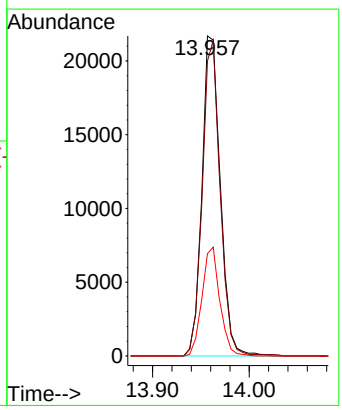




#96
1,2,3-Trichlorobenzene
Concen: 21.647 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VX045158.D
Acq: 06 Mar 2025 11:10

Tgt Ion:180 Resp: 28765

Ion	Ratio	Lower	Upper
180	100		
182	95.4	47.5	142.6
145	32.9	17.0	50.9



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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	03/05/25
Project:	Former Schlumberger STC PTC Site # D3868221	Date Received:	03/05/25
Client Sample ID:	BR-05-465-030525MS	SDG No.:	Q1501
Lab Sample ID:	Q1501-05MS	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045163.D	1		03/06/25 13:09	VX030625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	47.4		0.34	1.00	ug/L
75-35-4	1,1-Dichloroethene	70.0		0.26	1.00	ug/L
75-34-3	1,1-Dichloroethane	50.2		0.23	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	50.6		0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	49.9		0.19	1.00	ug/L
71-43-2	Benzene	51.7		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	51.6		0.24	1.00	ug/L
79-01-6	Trichloroethene	94.9		0.32	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	23.6		0.21	1.00	ug/L
127-18-4	Tetrachloroethene	88.9		0.25	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.4		70 (74) - 130 (125)	103%	SPK: 50
1868-53-7	Dibromofluoromethane	0	*	70 (75) - 130 (124)	0%	SPK: 50
2037-26-5	Toluene-d8	53.2		70 (86) - 130 (113)	106%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.7		70 (77) - 130 (121)	109%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	101000	5.543			
540-36-3	1,4-Difluorobenzene	179000	6.757			
3114-55-4	Chlorobenzene-d5	156000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	67200	12.018			

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\VX030625\
Data File : VX045163.D
Acq On : 06 Mar 2025 13:09
Operator : JC/MD
Sample : Q1501-05MS
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 07 00:40:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MS

Manual Integrations APPROVED

Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Pentafluorobenzene	5.543	168	101112	50.000 ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	179083	50.000 ug/l	0.00
63) Chlorobenzene-d5	10.055	117	156313	50.000 ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	67219	50.000 ug/l	0.00
System Monitoring Compounds					
33) 1,2-Dichloroethane-d4	5.952	65	82650	51.389 ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 102.780%		
35) Dibromofluoromethane	0.000	113	0d	0.000 ug/l	
Spiked Amount 50.000	Range 75 - 124		Recovery = 0.000%#		
50) Toluene-d8	8.646	98	230975	53.204 ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 106.400%		
62) 4-Bromofluorobenzene	11.079	95	78735	54.731 ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 109.460%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.166	85	60860	47.817 ug/l	98
3) Chloromethane	1.306	50	74253	47.672 ug/l	95
4) Vinyl Chloride	1.373	62	73181	47.362 ug/l	96
5) Bromomethane	1.593	94	28933	47.633 ug/l	96
6) Chloroethane	1.666	64	39700	55.703 ug/l	98
7) Trichlorofluoromethane	1.873	101	103012	50.360 ug/l	100
8) Diethyl Ether	2.129	74	36356	45.441 ug/l	95
9) 1,1,2-Trichlorotrifluo...	2.318	101	60302	51.313 ug/l	99
10) Methyl Iodide	2.440	142	78618	53.532 ug/l	98
11) Tert butyl alcohol	2.983	59	59207	194.348 ug/l	100
12) 1,1-Dichloroethene	2.312	96	86935	69.970 ug/l	94
13) Acrolein	2.239	56	17262	49.018 ug/l	98
14) Allyl chloride	2.654	41	112939	51.066 ug/l	97
15) Acrylonitrile	3.062	53	199269	244.058 ug/l	99
16) Acetone	2.385	43	266010	356.478 ug/l	100
17) Carbon Disulfide	2.501	76	102631	31.014 ug/l	97
18) Methyl Acetate	2.708	43	9884	5.506 ug/l	98
19) Methyl tert-butyl Ether	3.117	73	208471	50.012 ug/l	99
20) Methylene Chloride	2.782	84	70867	47.942 ug/l	97
21) trans-1,2-Dichloroethene	3.086	96	62346	50.793 ug/l	96
22) Diisopropyl ether	3.763	45	220358	48.991 ug/l #	86
24) 1,1-Dichloroethane	3.605	63	126603	50.224 ug/l	99
25) 2-Butanone	4.556	43	325439	289.732 ug/l	99
26) 2,2-Dichloropropane	4.470	77	80790	68.329 ug/l	97
27) cis-1,2-Dichloroethene	4.483	96	76731	50.639 ug/l	96
28) Bromochloromethane	4.897	49	62516	52.031 ug/l	99
29) Tetrahydrofuran	5.007	42	191259	253.553 ug/l	99
30) Chloroform	5.092	83	125714	50.192 ug/l	97
31) Cyclohexane	5.464	56	109491	50.038 ug/l	97
32) 1,1,1-Trichloroethane	5.379	97	100914	49.885 ug/l	98
36) 1,1-Dichloropropene	5.684	75	83195	50.660 ug/l	98
38) Carbon Tetrachloride	5.671	117	83458	50.057 ug/l	99
39) Methylcyclohexane	7.378	83	103797	52.749 ug/l	99
40) Benzene	6.031	78	268012	51.682 ug/l	99
41) Methacrylonitrile	4.915	41	62416	54.549 ug/l	99
42) 1,2-Dichloroethane	6.080	62	96342	51.592 ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
Data File : VX045163.D
Acq On : 06 Mar 2025 13:09
Operator : JC/MD
Sample : Q1501-05MS
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 07 00:40:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MS

Manual Integrations
APPROVED
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
44) Trichloroethene	7.122	130	115549	94.894 ug/l	99
45) 1,2-Dichloropropane	7.427	63	68277	51.209 ug/l	99
46) Dibromomethane	7.580	93	49559	52.588 ug/l	98
47) Bromodichloromethane	7.817	83	76414	41.338 ug/l	97
49) 1,4-Dioxane	7.659	88	30248	913.440 ug/l	96
51) 4-Methyl-2-Pentanone	8.573	43	568444	270.554 ug/l	100
52) Toluene	8.713	92	188456	61.939 ug/l	100
53) t-1,3-Dichloropropene	8.976	75	84014	54.366 ug/l	97
54) cis-1,3-Dichloropropene	8.360	75	96507	53.555 ug/l	95
55) 1,1,2-Trichloroethane	9.152	97	29577	23.613 ug/l	95
57) 1,3-Dichloropropane	9.305	76	111722	51.541 ug/l	99
58) 2-Chloroethyl Vinyl ether	8.238	63	248600	267.664 ug/l	99
59) 2-Hexanone	9.427	43	417312	274.135 ug/l	99
60) Dibromochloromethane	9.518	129	60250	46.004 ug/l	99
61) 1,2-Dibromoethane	9.610	107	64009	51.190 ug/l	98
64) Tetrachloroethene	9.268	164	89022	88.922 ug/l	97
65) Chlorobenzene	10.079	112	170804	51.641 ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.158	131	50008	45.401 ug/l	98
67) Ethyl Benzene	10.189	91	306222	53.134 ug/l	99
68) m/p-Xylenes	10.299	106	226689	107.448 ug/l	100
69) o-Xylene	10.640	106	111494	52.398 ug/l	100
70) Styrene	10.652	104	186579	54.191 ug/l	100
71) Bromoform	10.798	173	40798	49.118 ug/l #	99
73) Isopropylbenzene	10.963	105	285788	54.471 ug/l	99
76) 1,2,3-Trichloropropane	11.237	75	75260m	48.104 ug/l	
77) Bromobenzene	11.195	156	64652	52.227 ug/l	99
78) n-propylbenzene	11.304	91	334012	56.356 ug/l	99
79) 2-Chlorotoluene	11.359	91	196885	52.161 ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	232590	54.826 ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	23264	50.887 ug/l	92
82) 4-Chlorotoluene	11.451	91	222235	54.023 ug/l	100
83) tert-Butylbenzene	11.713	119	200520	46.003 ug/l	90
84) 1,2,4-Trimethylbenzene	11.750	105	233112	54.611 ug/l	100
85) sec-Butylbenzene	11.890	105	291621	55.852 ug/l	99
86) p-Isopropyltoluene	12.006	119	234622	55.603 ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	117796	53.341 ug/l	99
88) 1,4-Dichlorobenzene	12.042	146	115251	51.585 ug/l	100
89) n-Butylbenzene	12.329	91	210010	57.787 ug/l	99
90) Hexachloroethane	12.536	117	38828	50.874 ug/l	100
91) 1,2-Dichlorobenzene	12.335	146	114665	51.761 ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.938	75	9203	24.536 ug/l	95
93) 1,2,4-Trichlorobenzene	13.585	180	68791	54.535 ug/l	100
94) Hexachlorobutadiene	13.725	225	28043	54.226 ug/l	99
95) Naphthalene	13.774	128	265803	54.845 ug/l	100
96) 1,2,3-Trichlorobenzene	13.963	180	70129	52.700 ug/l	97

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

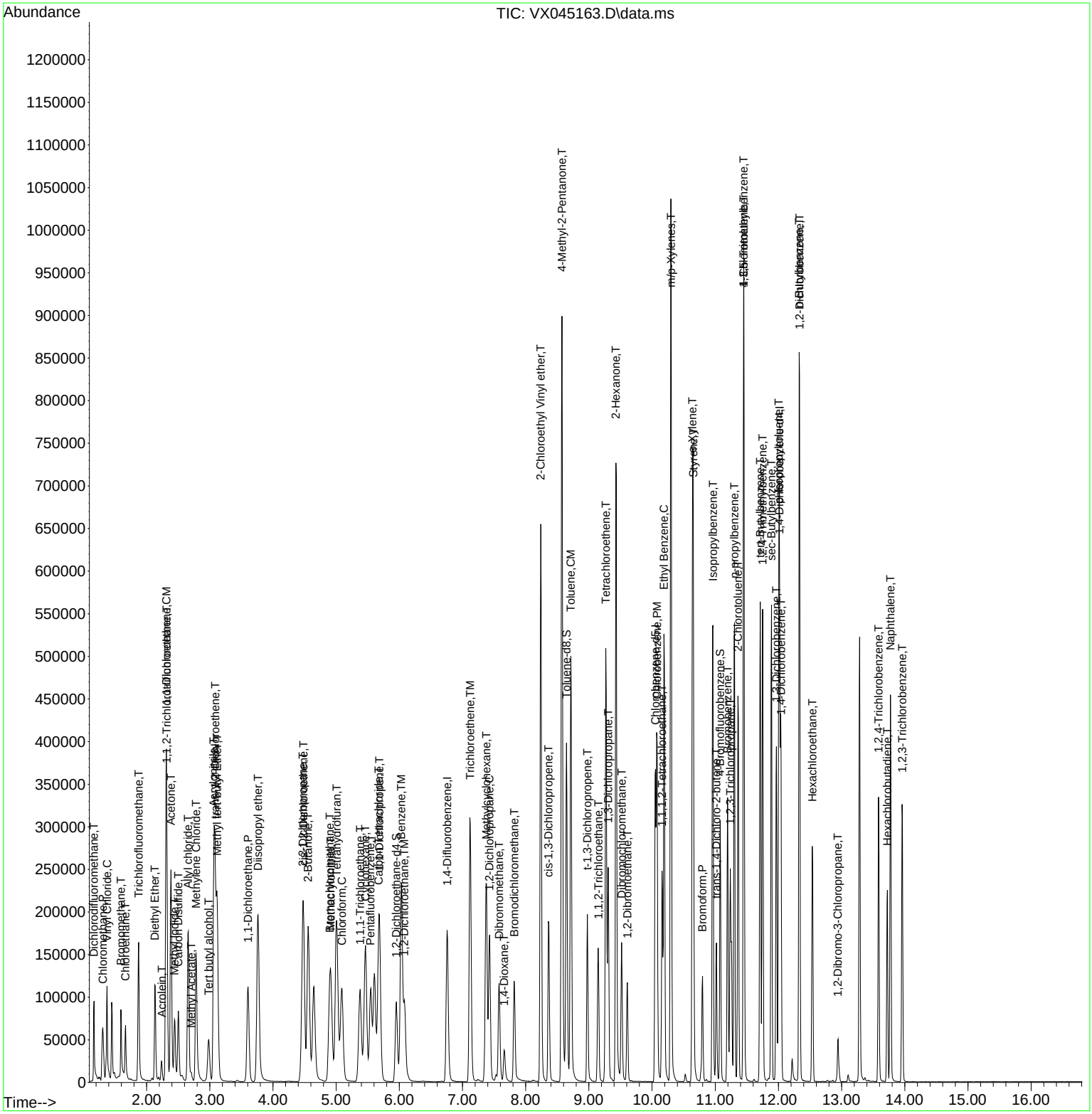
Sample Results: **VX045163.D**

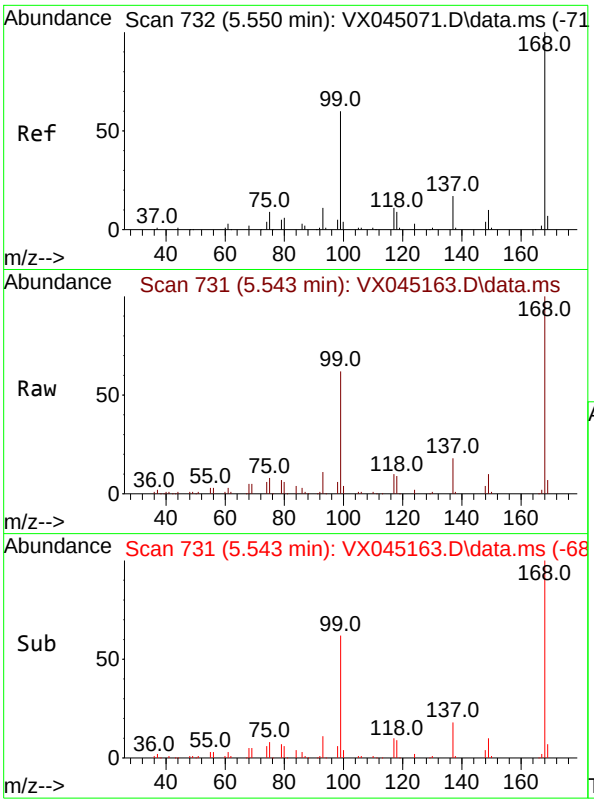
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
Data File : VX045163.D
Acq On : 06 Mar 2025 13:09
Operator : JC/MD
Sample : Q1501-05MS
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 07 00:40:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MS

Manual Integrations APPROVED
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.543 min Scan# 7
Delta R.T. -0.007 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

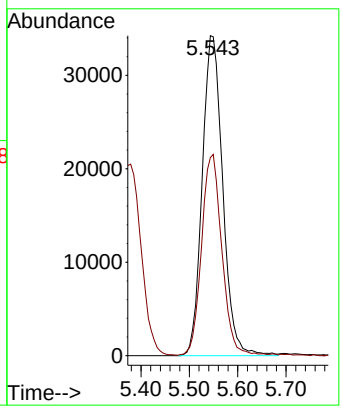
Tgt Ion:168 Resp: 10111

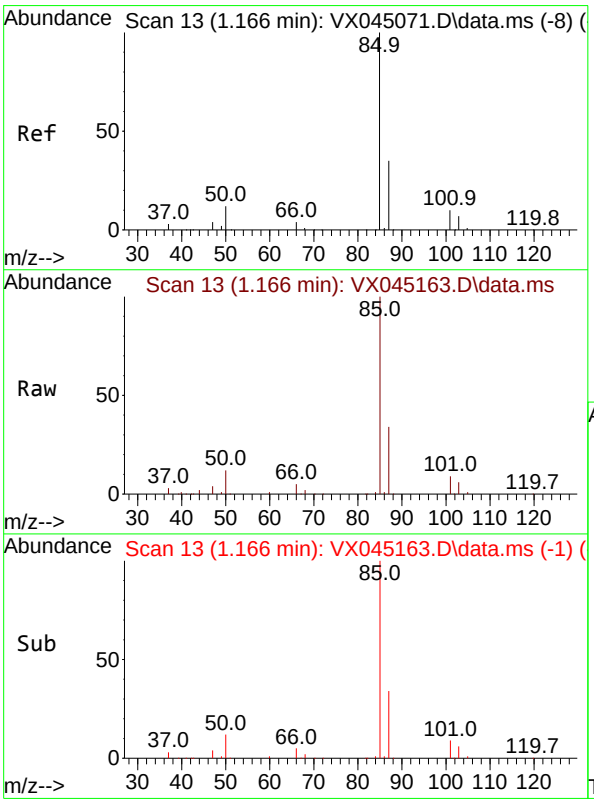
Ion	Ratio	Lower	Upper
168	100		
99	61.7	48.2	72.4

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

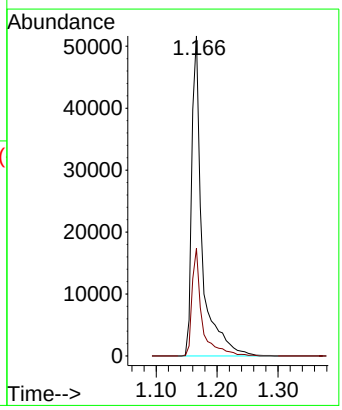


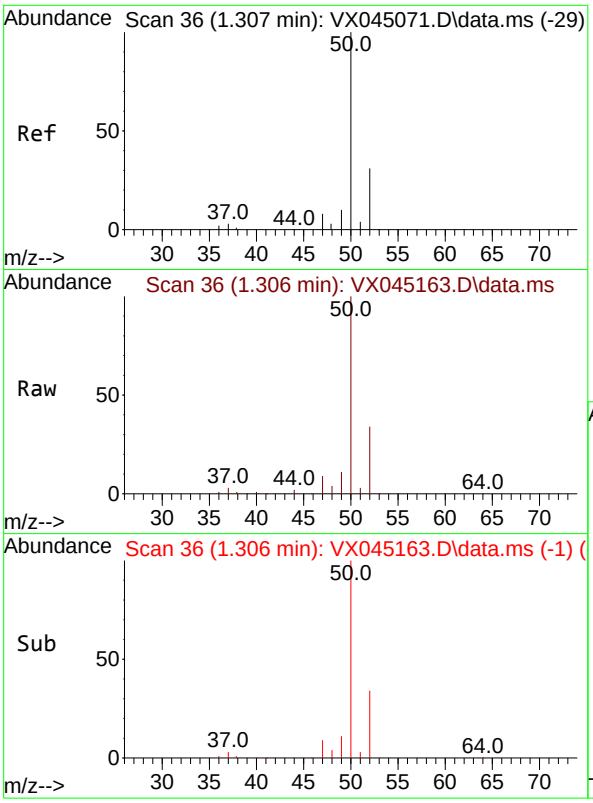


#2
Dichlorodifluoromethane
Concen: 47.817 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Tgt Ion: 85 Resp: 60860

Ion	Ratio	Lower	Upper
85	100		
87	33.6	17.4	52.3





#3
Chloromethane
Concen: 47.672 ug/l
RT: 1.306 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

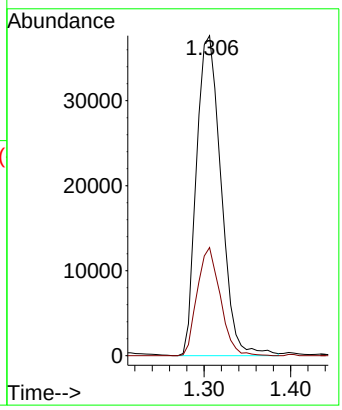
Tgt Ion: 50 Resp: 7425

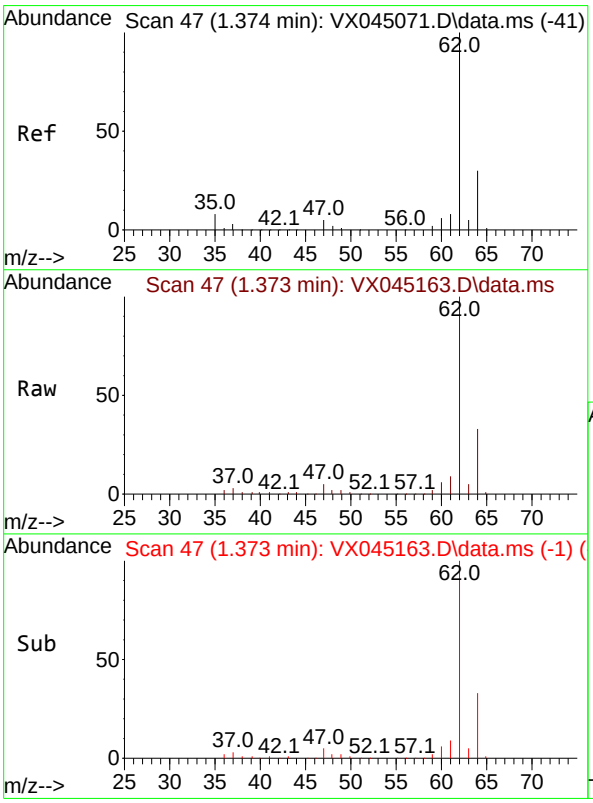
Ion	Ratio	Lower	Upper
50	100		
52	33.8	25.0	37.4

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

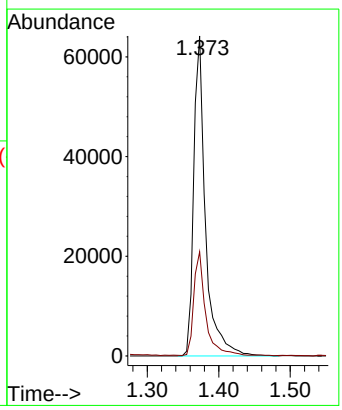


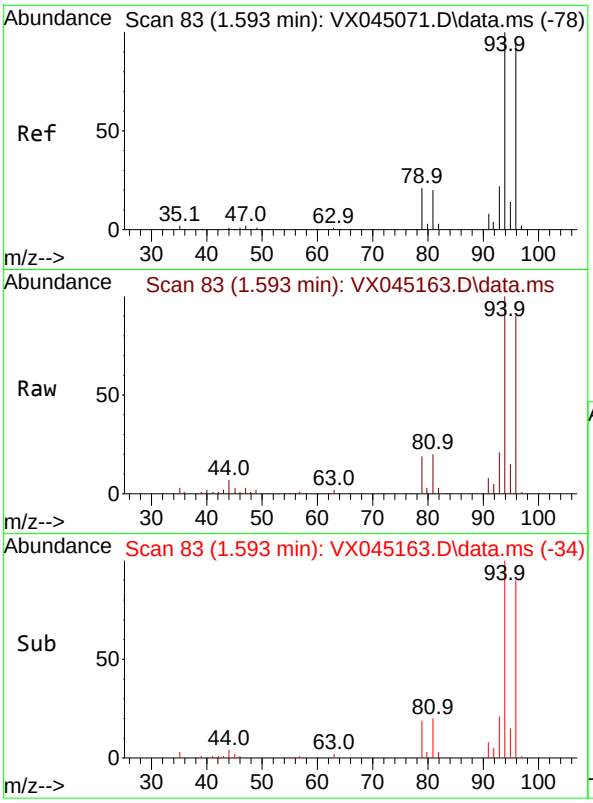


#4
Vinyl Chloride
Concen: 47.362 ug/l
RT: 1.373 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Tgt Ion: 62 Resp: 73181

Ion	Ratio	Lower	Upper
62	100		
64	32.4	24.3	36.5





#5
Bromomethane
Concen: 47.633 ug/l
RT: 1.593 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

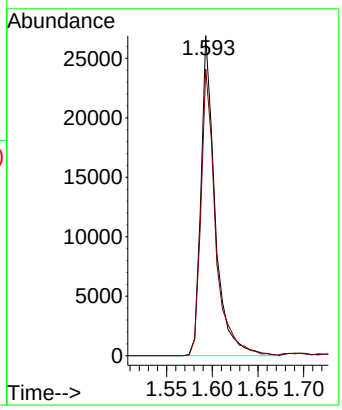
Tgt Ion: 94 Resp: 2893

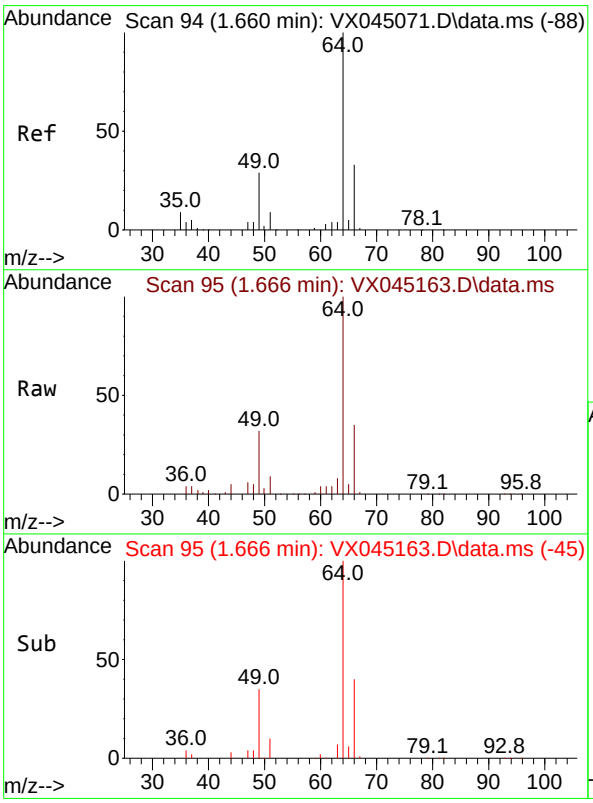
Ion	Ratio	Lower	Upper
94	100		
96	89.6	75.0	112.4

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

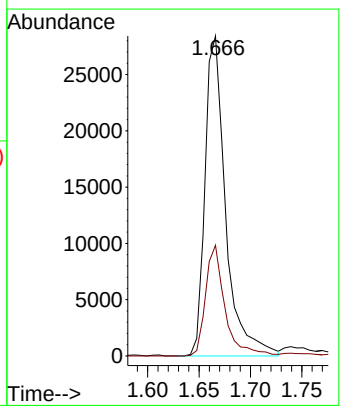


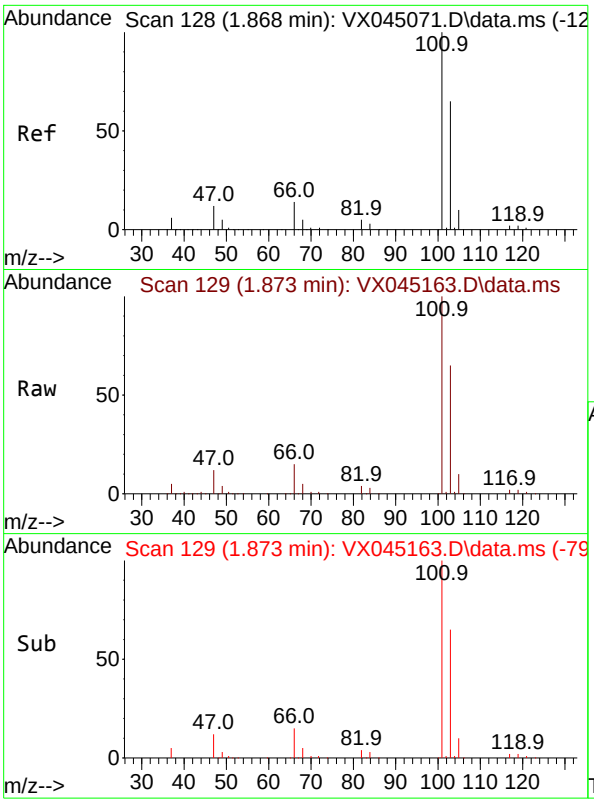


#6
Chloroethane
Concen: 55.703 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.006 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Tgt Ion: 64 Resp: 39700

Ion	Ratio	Lower	Upper
64	100		
66	34.6	26.7	40.1





#7
Trichlorofluoromethane
Concen: 50.360 ug/l
RT: 1.873 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

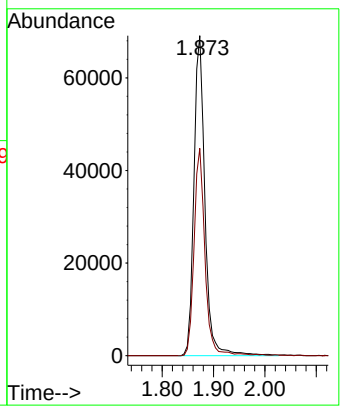
Tgt Ion:101 Resp: 10301

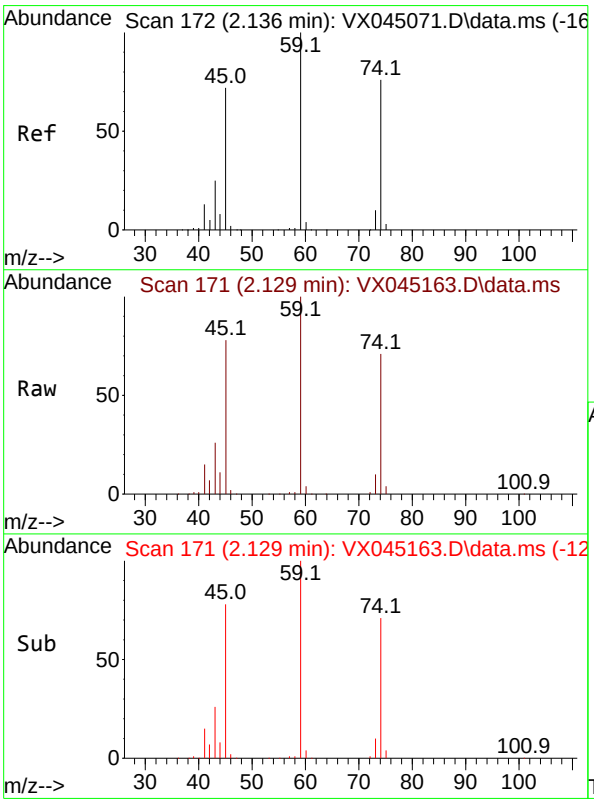
Ion	Ratio	Lower	Upper
101	100		
103	64.8	52.1	78.1

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

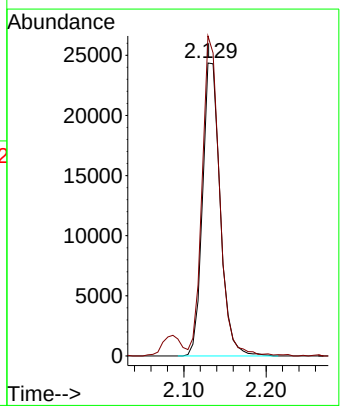


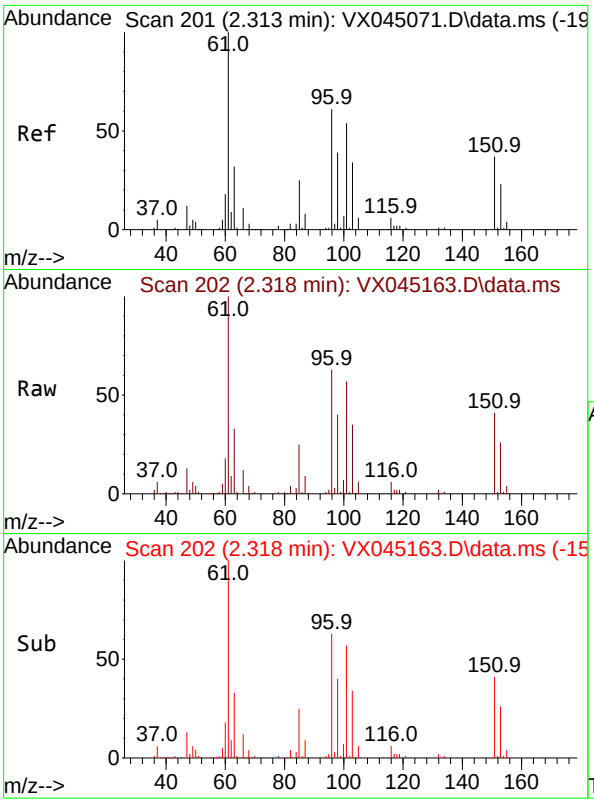


#8
Diethyl Ether
Concen: 45.441 ug/l
RT: 2.129 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Tgt Ion: 74 Resp: 36356

Ion	Ratio	Lower	Upper
74	100		
45	107.9	51.5	154.5





#9
1,1,2-Trichlorotrifluoroethane
Concen: 51.313 ug/l
RT: 2.318 min Scan# 2(
Delta R.T. 0.006 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Tgt Ion:101 Resp: 6030

Ion	Ratio	Lower	Upper
101	100		
85	45.2	36.2	54.4
151	71.5	56.4	84.6

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/10/2025
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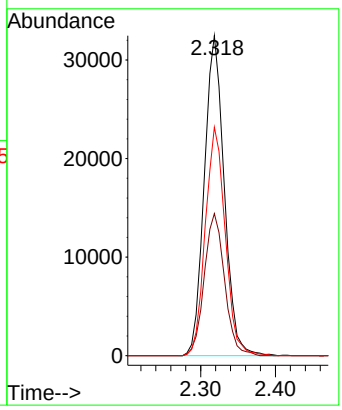
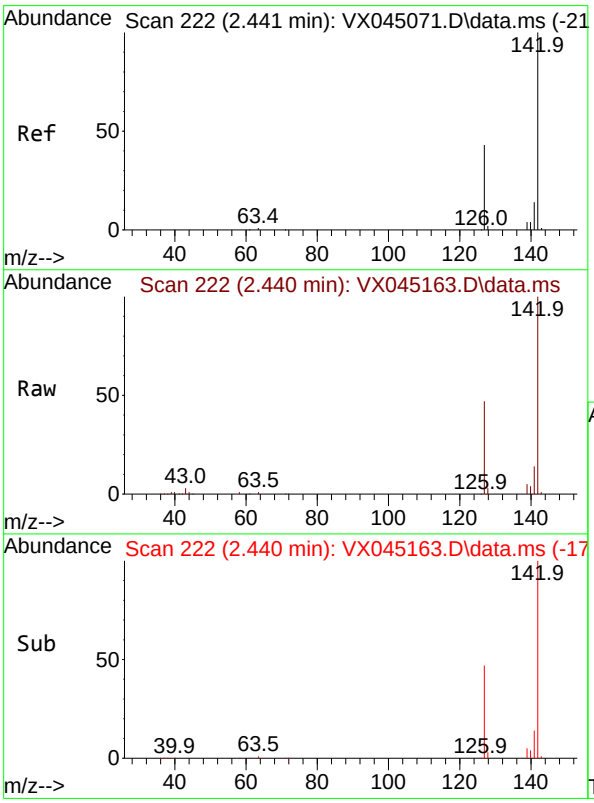
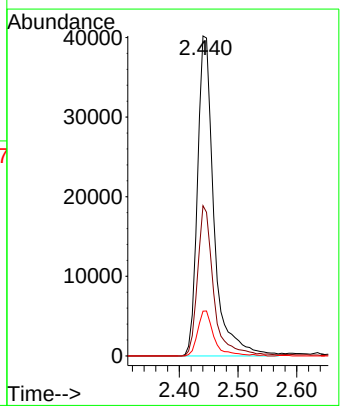


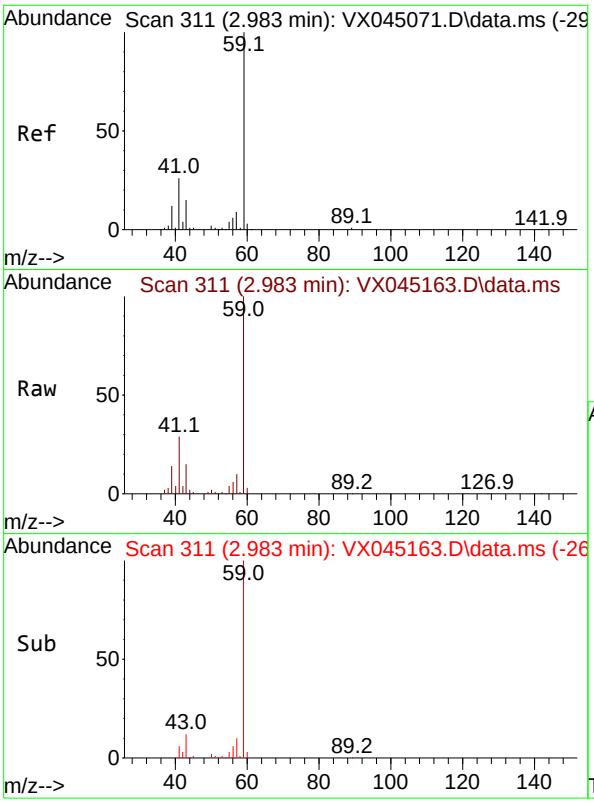


#10
Methyl Iodide
Concen: 53.532 ug/l
RT: 2.440 min Scan# 222
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Tgt Ion:142 Resp: 78618

Ion	Ratio	Lower	Upper
142	100		
127	45.9	35.4	53.2
141	14.0	11.6	17.4





#11
Tert butyl alcohol
Concen: 194.348 ug/l
RT: 2.983 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

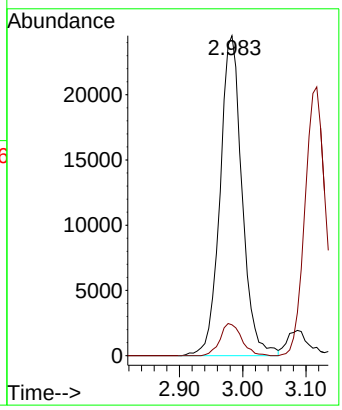
Tgt Ion: 59 Resp: 5920

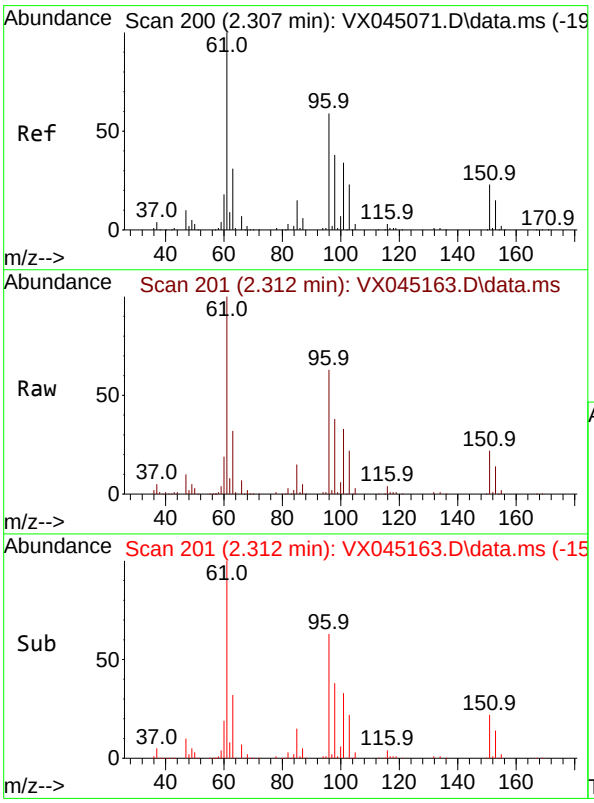
Ion	Ratio	Lower	Upper
59	100		
57	9.9	7.8	11.8

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

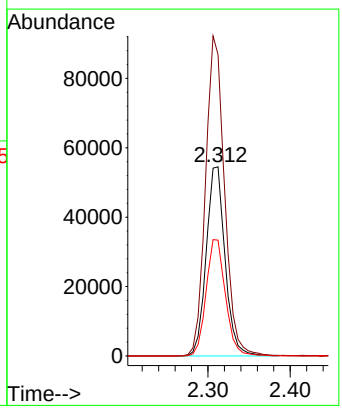


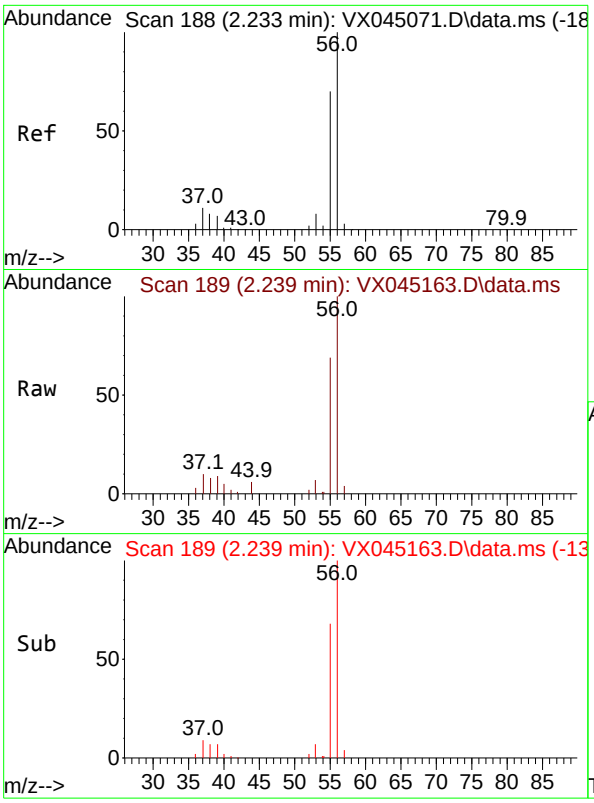


#12
1,1-Dichloroethene
Concen: 69.970 ug/l
RT: 2.312 min Scan# 201
Delta R.T. 0.006 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Tgt Ion: 96 Resp: 86935

Ion	Ratio	Lower	Upper
96	100		
61	159.3	134.6	202.0
98	61.3	51.0	76.6





#13
Acrolein
Concen: 49.018 ug/l
RT: 2.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

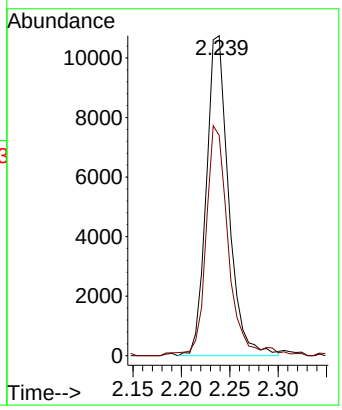
Tgt Ion: 56 Resp: 1726

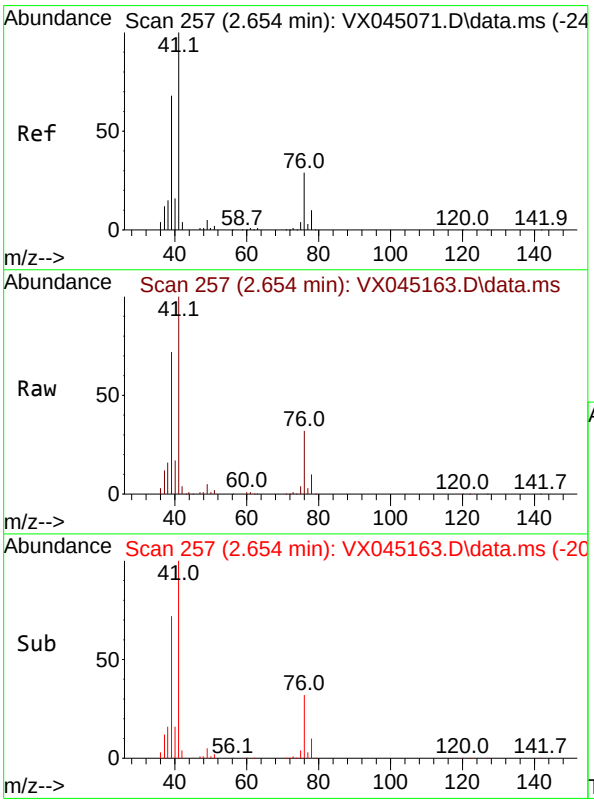
Ion	Ratio	Lower	Upper
56	100		
55	72.4	56.2	84.4

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

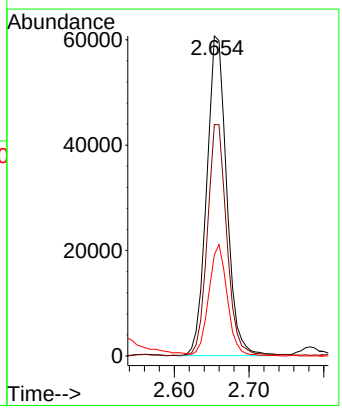


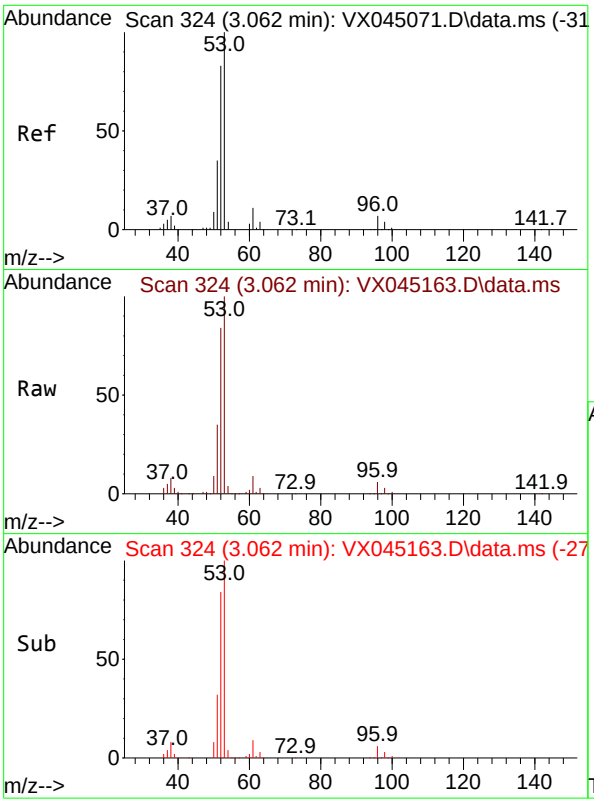


#14
Allyl chloride
Concen: 51.066 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Tgt Ion: 41 Resp: 112939

Ion	Ratio	Lower	Upper
41	100		
39	69.9	53.8	80.8
76	32.4	25.2	37.8





#15
Acrylonitrile
Concen: 244.058 ug/l
RT: 3.062 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

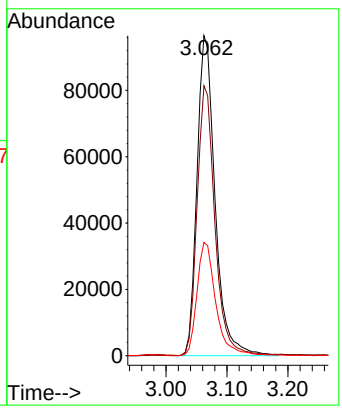
Tgt Ion: 53 Resp: 199269

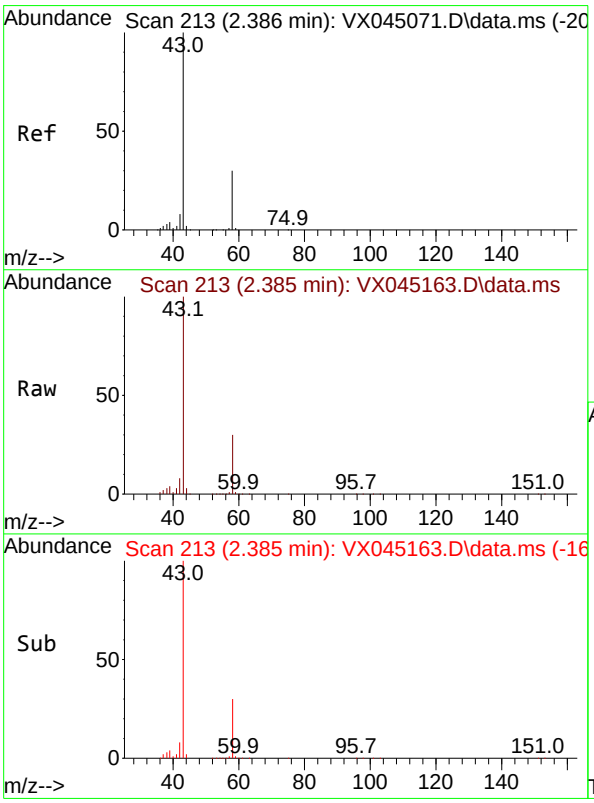
Ion	Ratio	Lower	Upper
53	100		
52	83.5	66.2	99.2
51	37.1	29.0	43.4

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

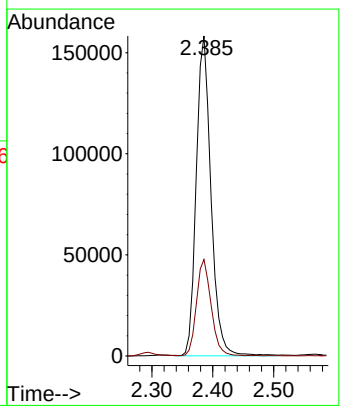


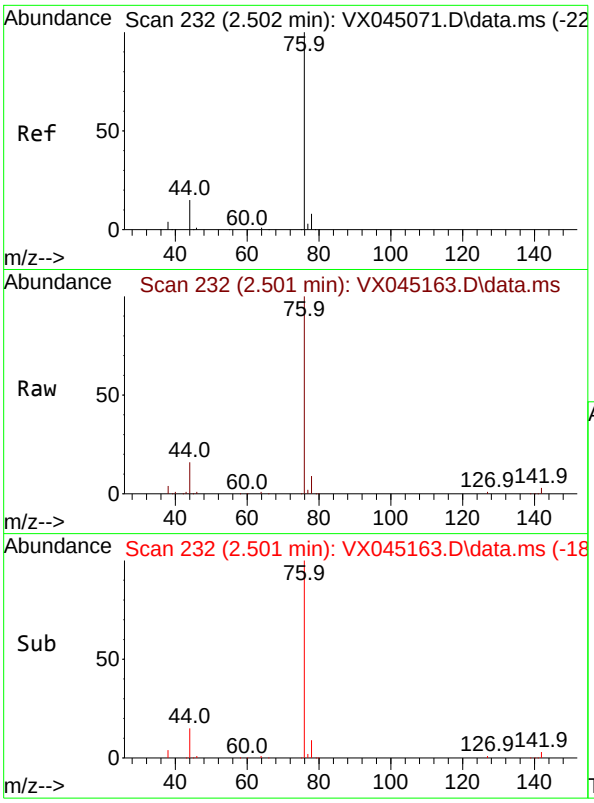


#16
Acetone
Concen: 356.478 ug/l
RT: 2.385 min Scan# 213
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Tgt Ion: 43 Resp: 266010

Ion	Ratio	Lower	Upper
43	100		
58	30.1	24.2	36.4





#17
Carbon Disulfide
Concen: 31.014 ug/l
RT: 2.501 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Tgt Ion: 76 Resp: 10263

Ion	Ratio	Lower	Upper
76	100		
78	9.1	6.6	9.8

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MS

Manual Integrations
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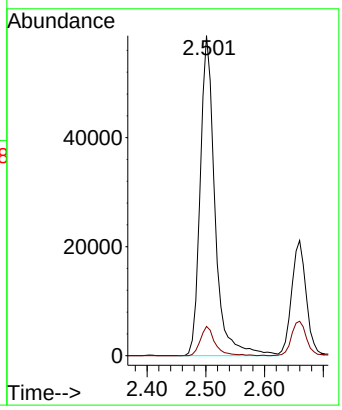
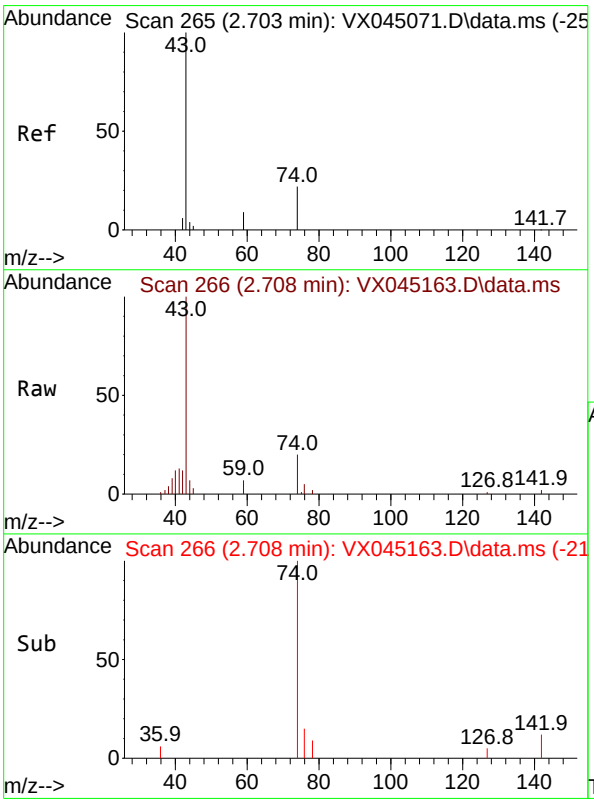
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

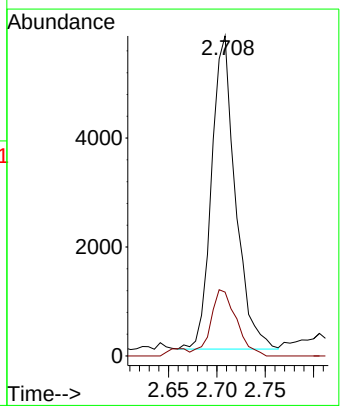


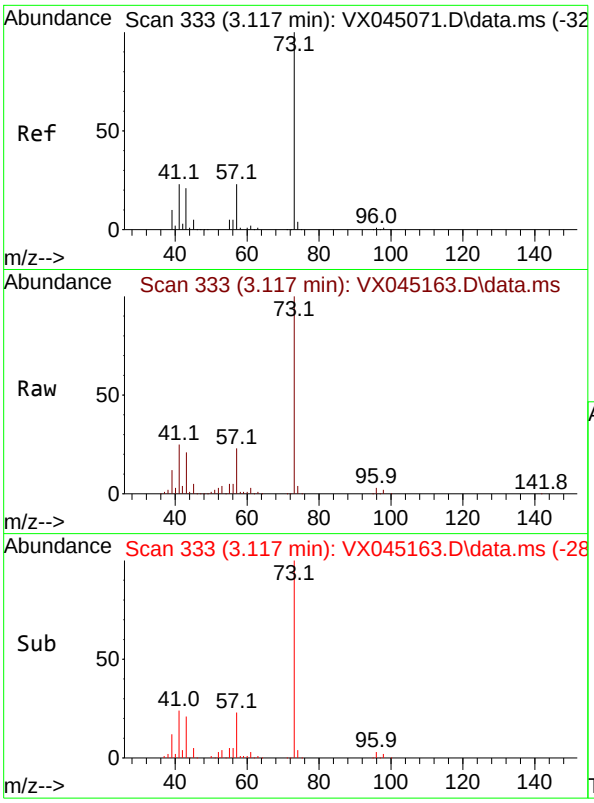


#18
Methyl Acetate
Concen: 5.506 ug/l
RT: 2.708 min Scan# 266
Delta R.T. 0.006 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Tgt Ion: 43 Resp: 9884

Ion	Ratio	Lower	Upper
43	100		
74	22.7	17.4	26.2





#19
Methyl tert-butyl Ether
Concen: 50.012 ug/l
RT: 3.117 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Tgt Ion: 73 Resp: 20847

Ion	Ratio	Lower	Upper
73	100		
57	22.6	18.5	27.7

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MS

Manual Integrations
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Reviewed By :John Carlone 03/10/2025
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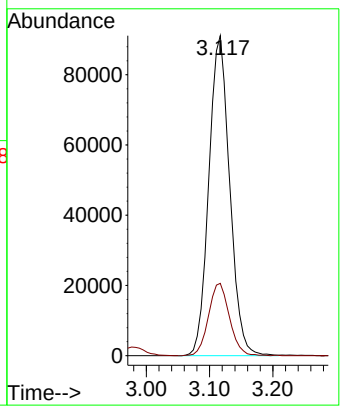
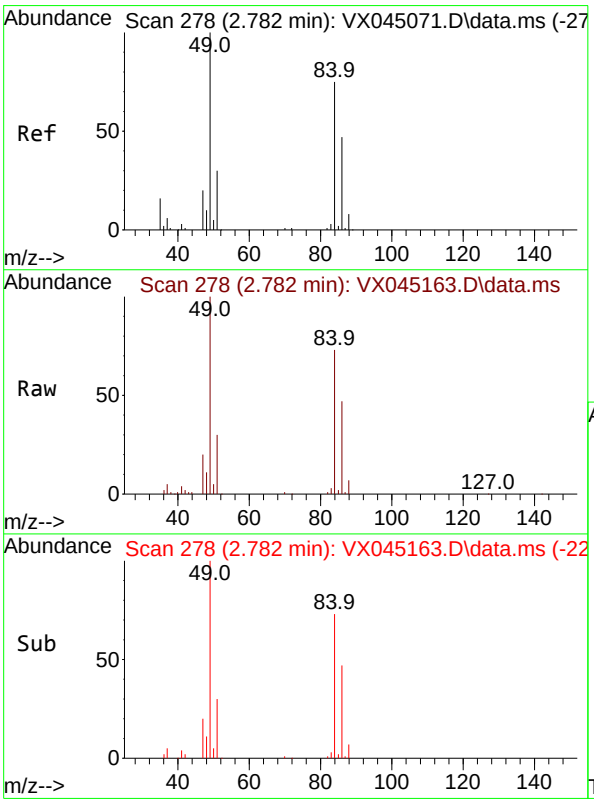
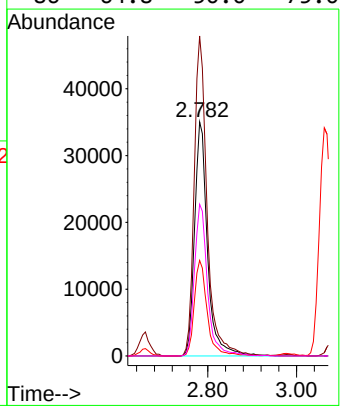


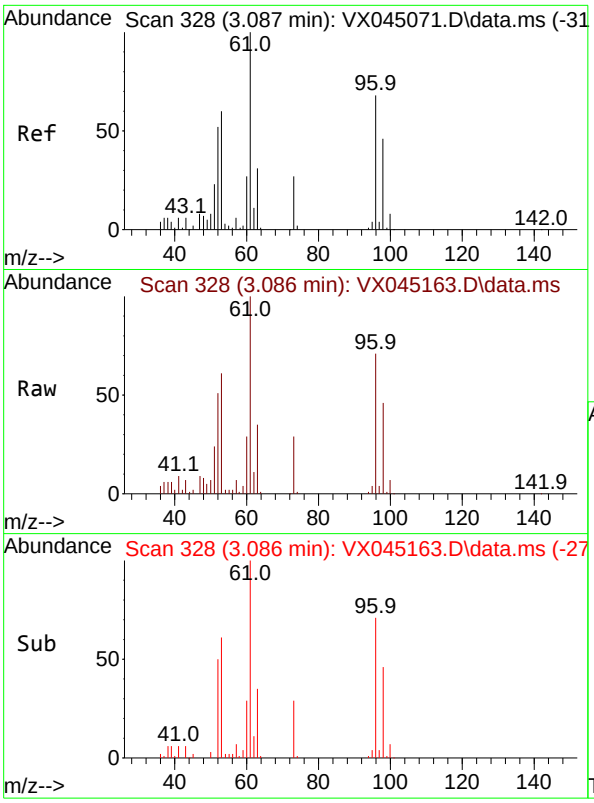


#20
Methylene Chloride
Concen: 47.942 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Tgt Ion: 84 Resp: 70867

Ion	Ratio	Lower	Upper
84	100		
49	136.7	106.5	159.7
51	40.8	32.1	48.1
86	64.8	50.0	75.0





#21
trans-1,2-Dichloroethene
Concen: 50.793 ug/l
RT: 3.086 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Tgt Ion: 96 Resp: 6234

Ion	Ratio	Lower	Upper
96	100		
61	140.3	117.0	175.4
98	63.9	53.4	80.2

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/10/2025
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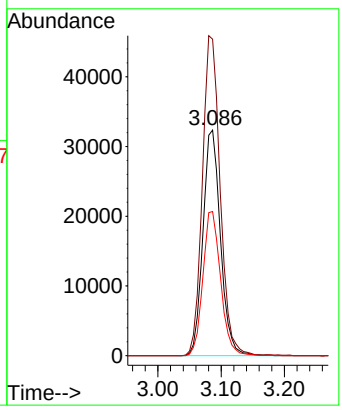
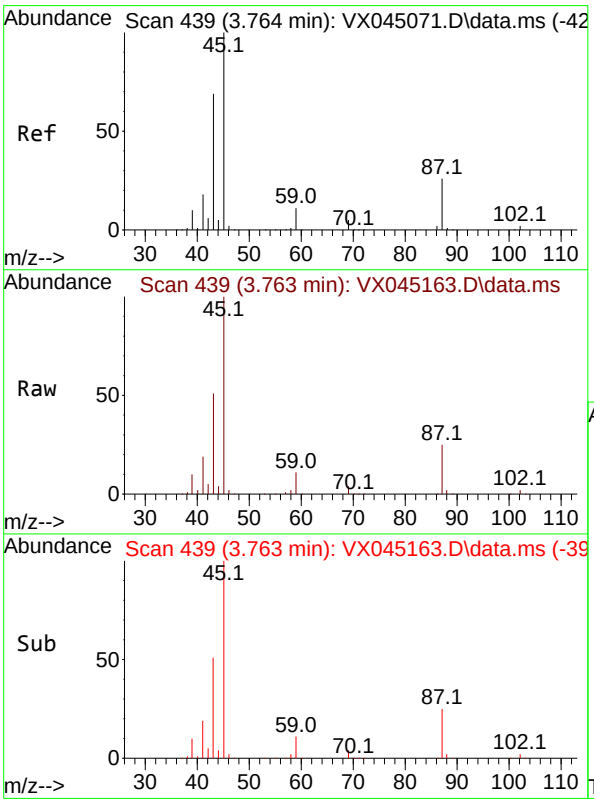
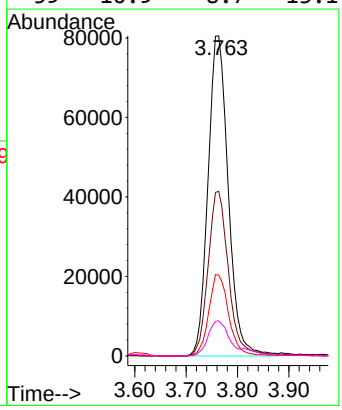


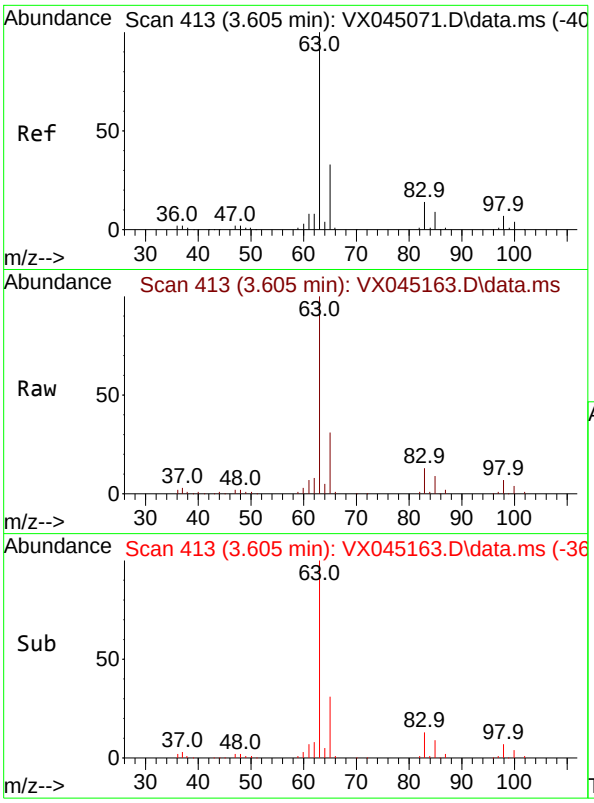


#22
Diisopropyl ether
Concen: 48.991 ug/l
RT: 3.763 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Tgt Ion: 45 Resp: 220358

Ion	Ratio	Lower	Upper
45	100		
43	51.5	54.9	82.3#
87	25.3	21.0	31.4
59	10.9	8.7	13.1





#24
1,1-Dichloroethane
Concen: 50.224 ug/l
RT: 3.605 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Tgt Ion: 63 Resp: 12660

Ion	Ratio	Lower	Upper
63	100		
98	7.3	3.4	10.2
100	4.1	2.1	6.5

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MS

Manual Integrations
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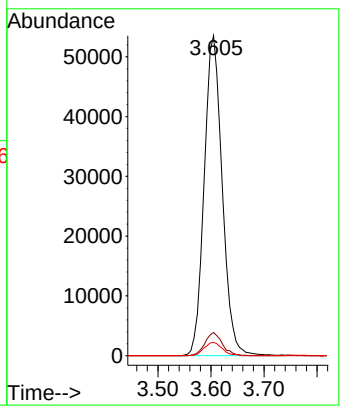
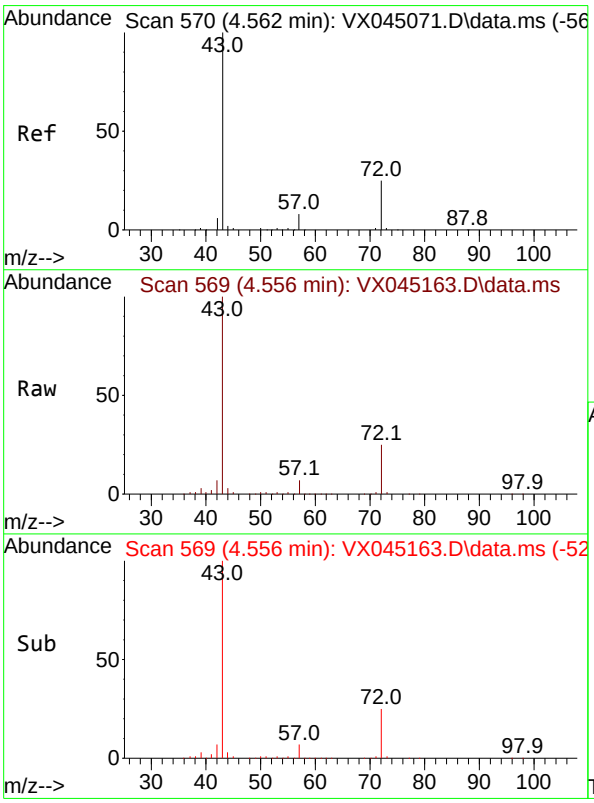
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

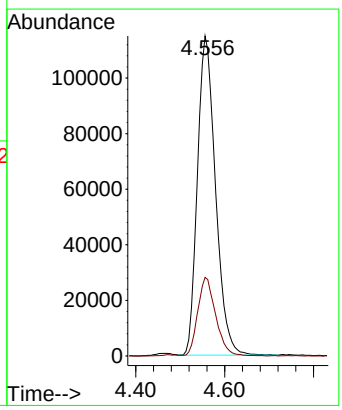


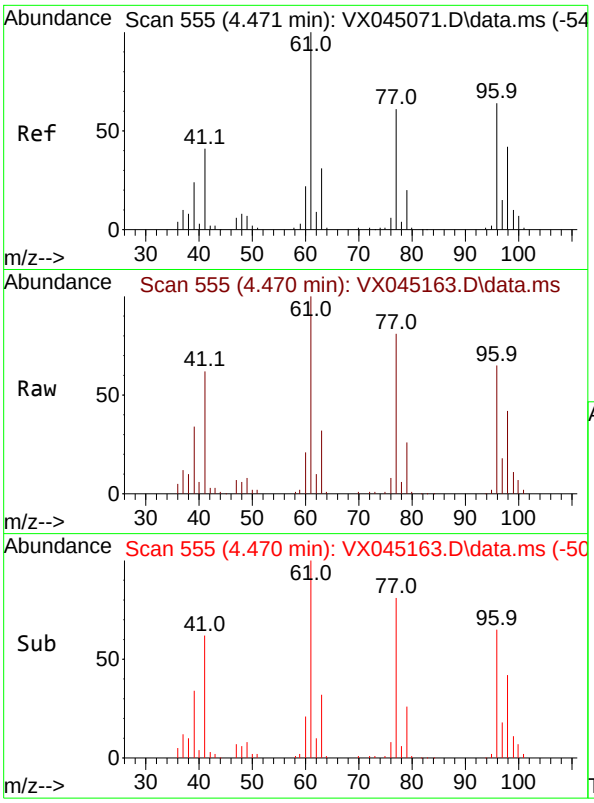


#25
2-Butanone
Concen: 289.732 ug/l
RT: 4.556 min Scan# 569
Delta R.T. -0.006 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Tgt Ion: 43 Resp: 325439

Ion	Ratio	Lower	Upper
43	100		
72	24.6	20.0	30.0





#26
2,2-Dichloropropane
Concen: 68.329 ug/l
RT: 4.470 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

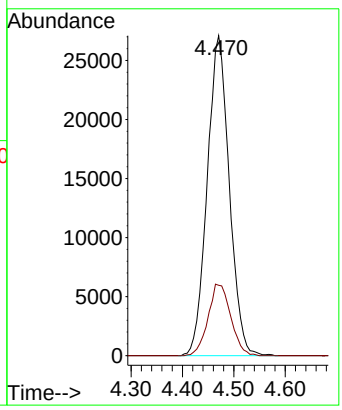
Tgt Ion: 77 Resp: 8079

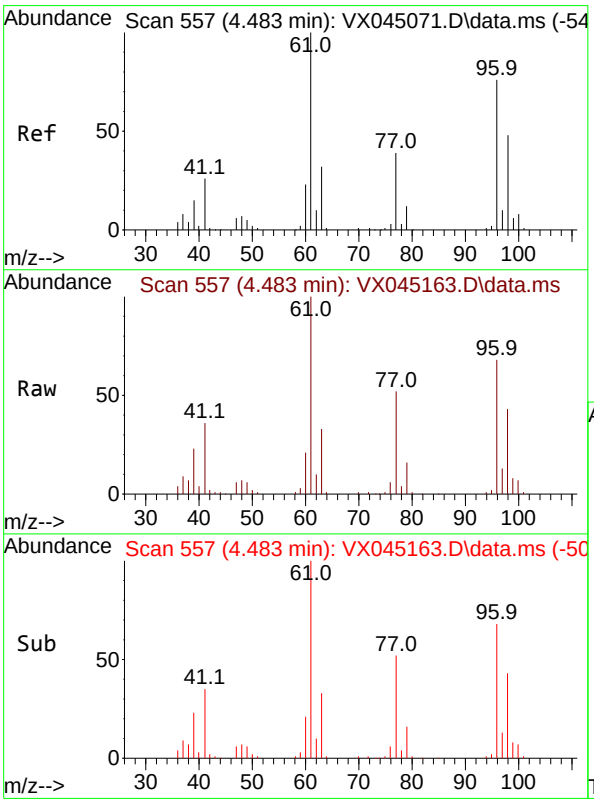
Ion	Ratio	Lower	Upper
77	100		
97	23.0	12.4	37.0

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

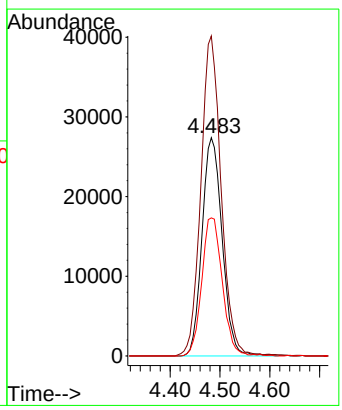


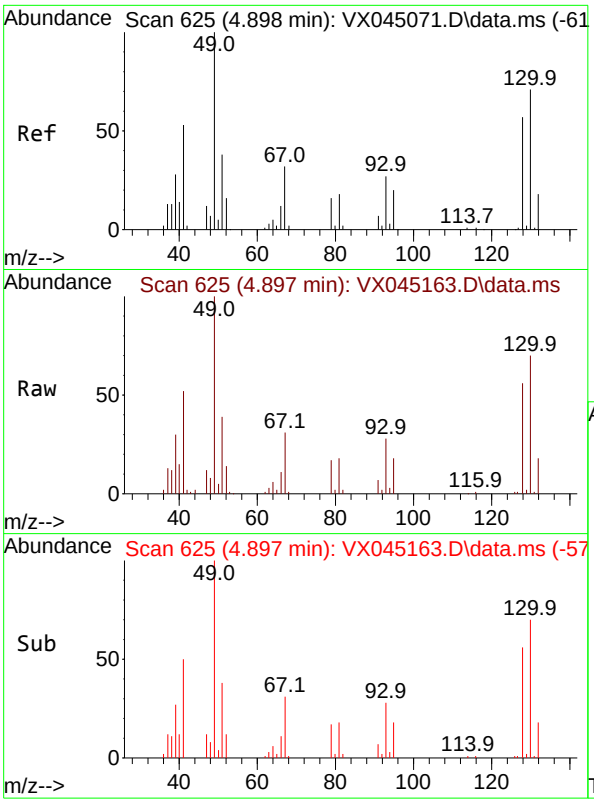


#27
cis-1,2-Dichloroethene
Concen: 50.639 ug/l
RT: 4.483 min Scan# 557
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Tgt Ion: 96 Resp: 76731

Ion	Ratio	Lower	Upper
96	100		
61	147.6	0.0	283.2
98	64.4	0.0	128.0





#28
Bromochloromethane
Concen: 52.031 ug/l
RT: 4.897 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Tgt Ion: 49 Resp: 6251

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	3.4
130	69.5	56.1	84.1

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/10/2025
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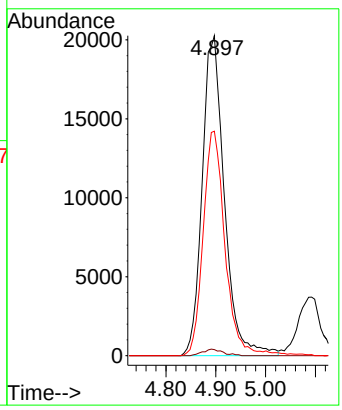
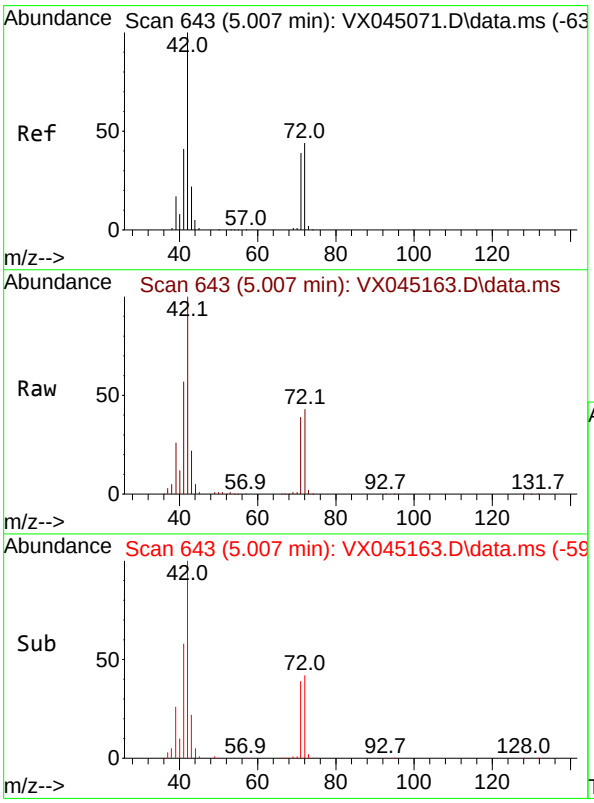
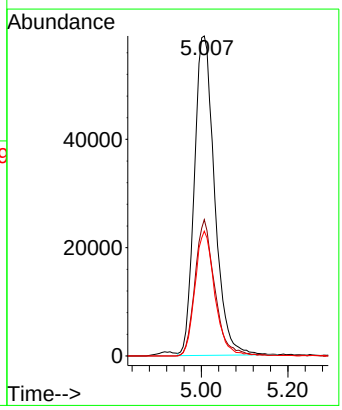


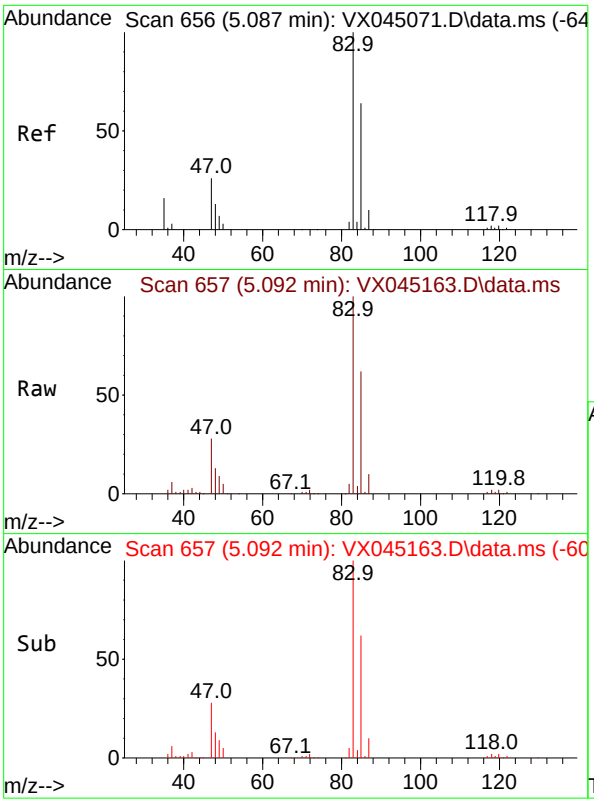


#29
Tetrahydrofuran
Concen: 253.553 ug/l
RT: 5.007 min Scan# 643
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Tgt Ion: 42 Resp: 191259

Ion	Ratio	Lower	Upper
42	100		
72	41.7	34.1	51.1
71	38.5	31.4	47.0





#30
Chloroform
Concen: 50.192 ug/l
RT: 5.092 min Scan# 6
Delta R.T. 0.006 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Tgt Ion: 83 Resp: 12571

Ion	Ratio	Lower	Upper
83	100		
85	62.2	51.4	77.2

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MS

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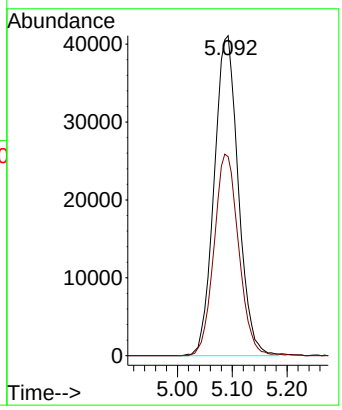
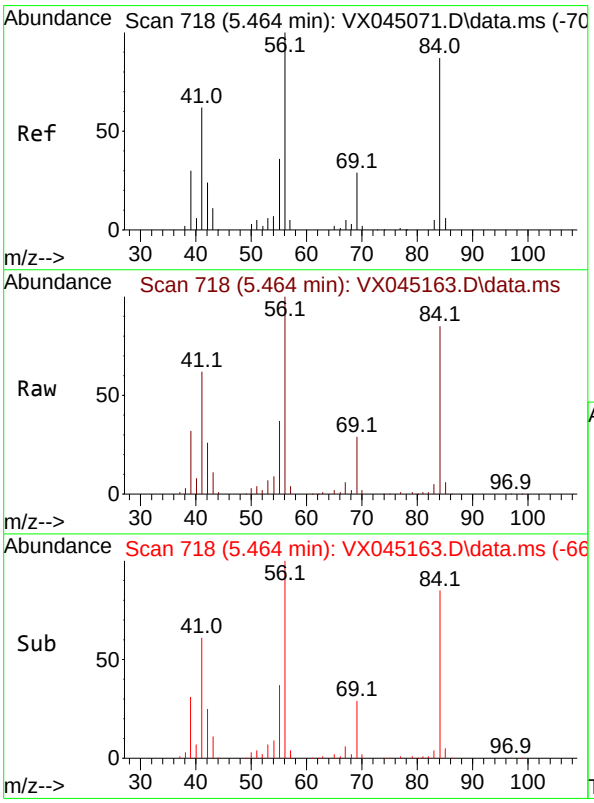
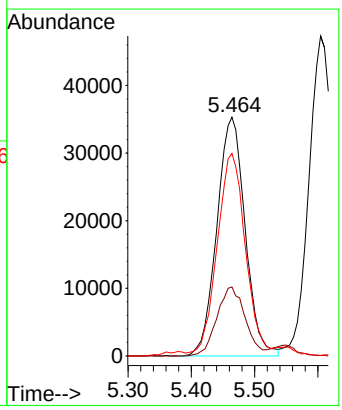


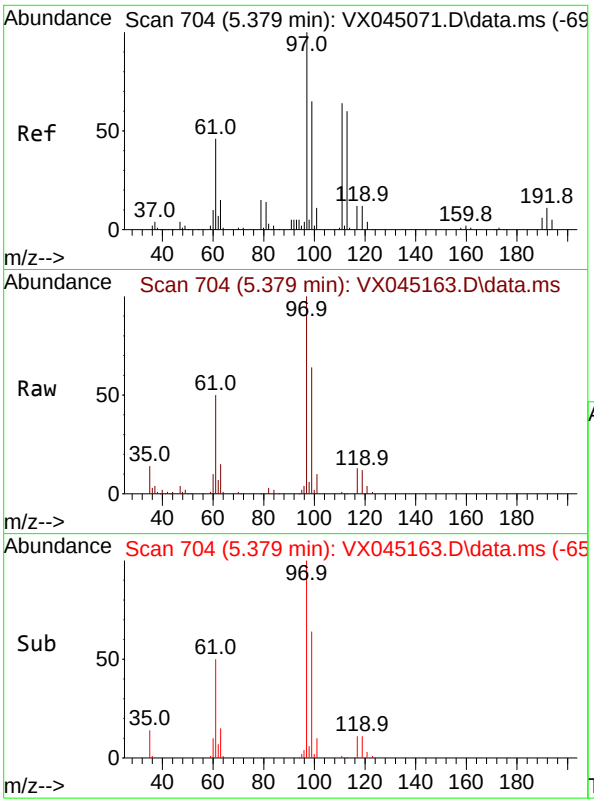


#31
Cyclohexane
Concen: 50.038 ug/l
RT: 5.464 min Scan# 718
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Tgt Ion: 56 Resp: 109491

Ion	Ratio	Lower	Upper
56	100		
69	28.9	23.4	35.2
84	83.0	69.4	104.2





#32
1,1,1-Trichloroethane
Concen: 49.885 ug/l
RT: 5.379 min Scan# 7(
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Tgt Ion: 97 Resp: 10091

Ion	Ratio	Lower	Upper
97	100		
99	65.2	51.6	77.4
61	50.2	38.4	57.6

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MS

Manual Integrations
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Reviewed By :John Carlone 03/10/2025
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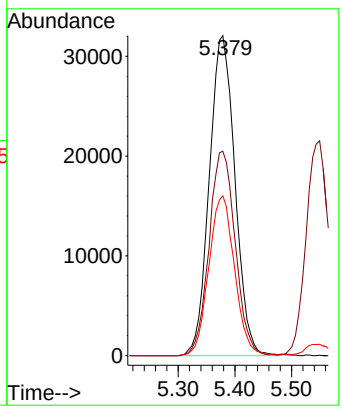
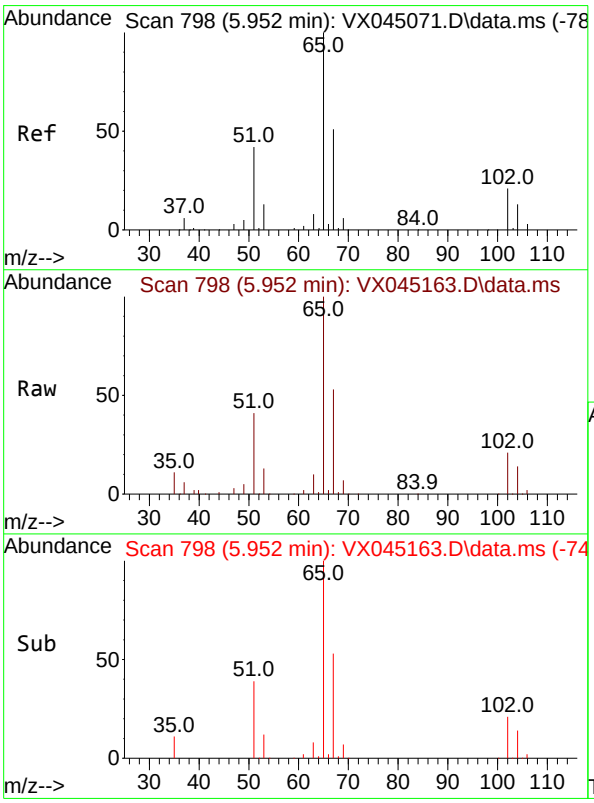
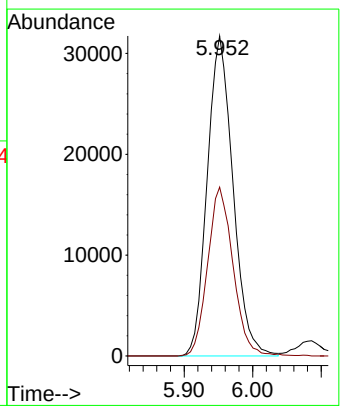


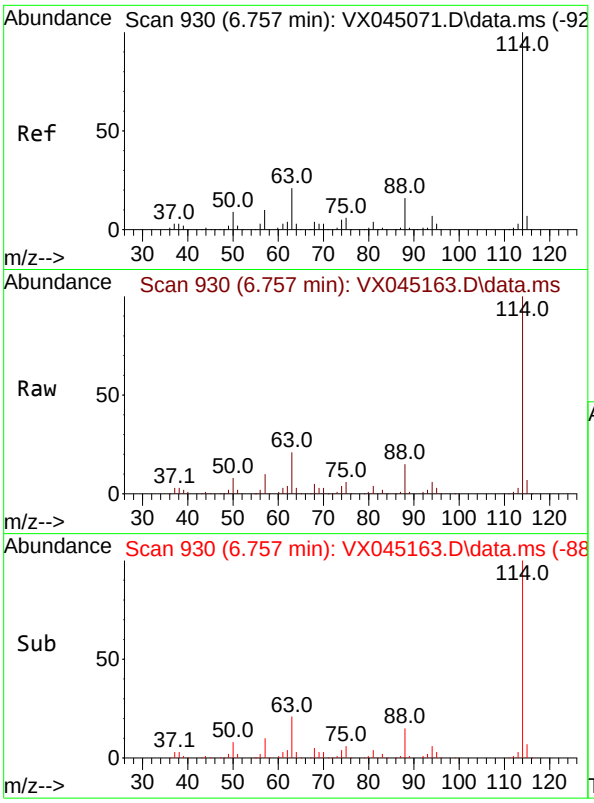


#33
1,2-Dichloroethane-d4
Concen: 51.389 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Tgt Ion: 65 Resp: 82650

Ion	Ratio	Lower	Upper
65	100		
67	52.2	0.0	106.2





#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Tgt Ion:114 Resp: 17908

Ion	Ratio	Lower	Upper
114	100		
63	21.4	0.0	41.8
88	15.3	0.0	32.8

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/10/2025
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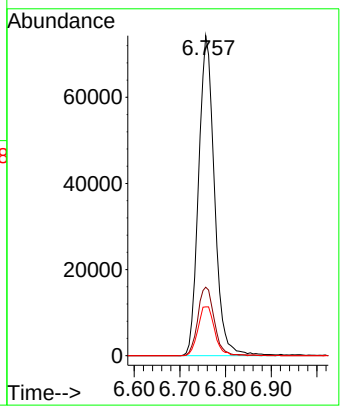
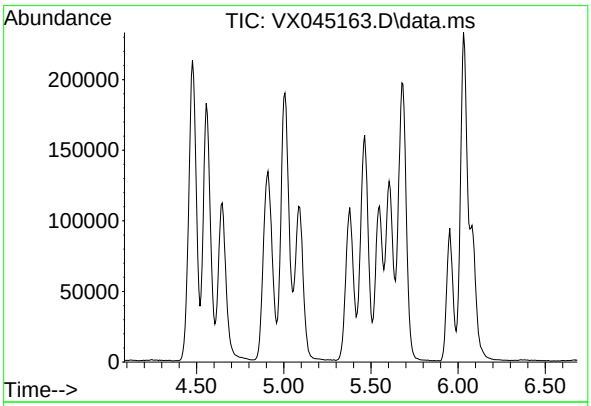


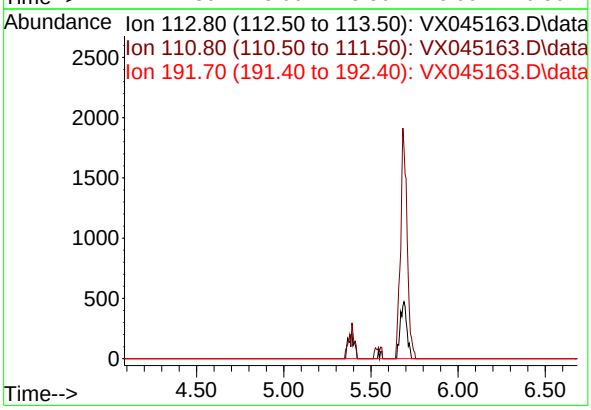


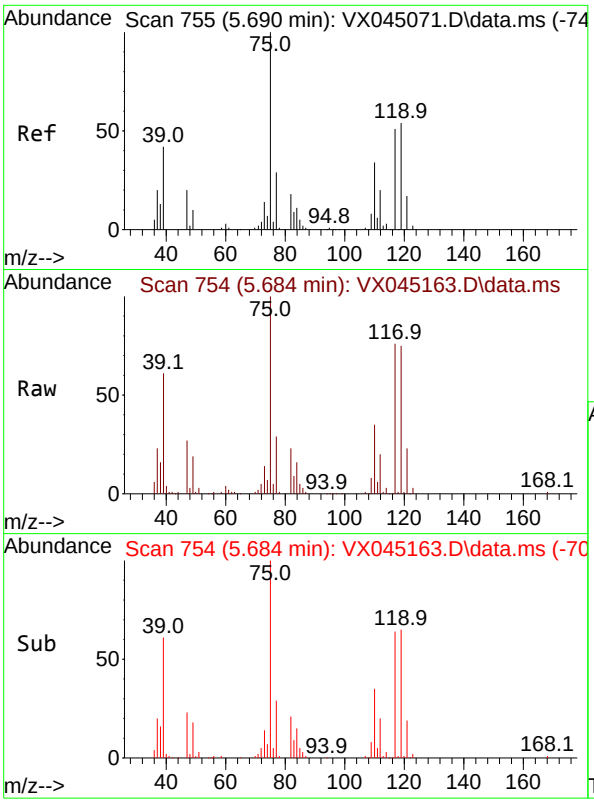
#35
Dibromofluoromethane
Concen: 0.000 ug/l
Expected RT: 5.39 min

Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Tgt Ion: 113

Sig	Exp Ratio
113	100
111	102.2
192	17.9





#36
1,1-Dichloropropene
Concen: 50.660 ug/l
RT: 5.684 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

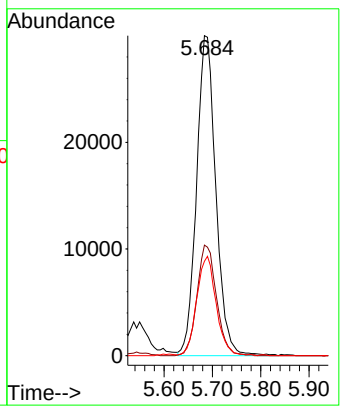
Tgt Ion: 75 Resp: 8319

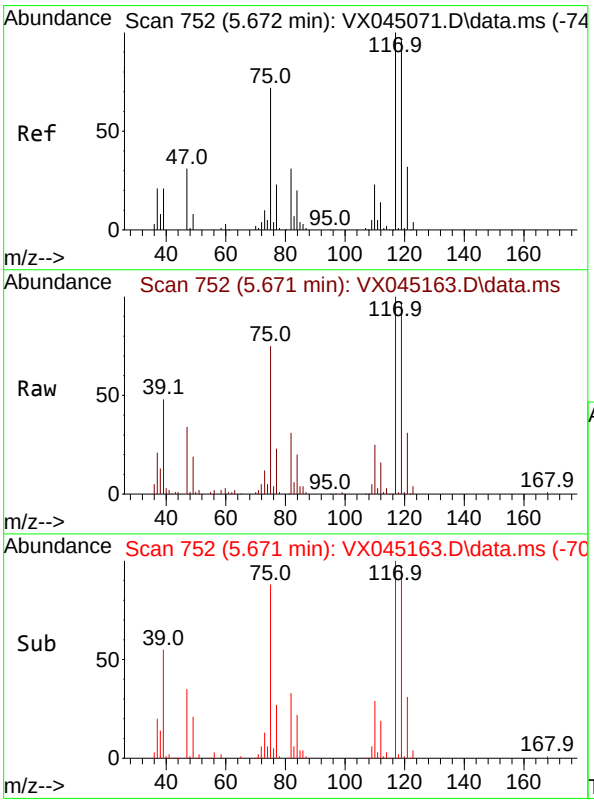
Ion	Ratio	Lower	Upper
75	100		
110	34.9	16.9	50.6
77	31.4	24.5	36.7

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

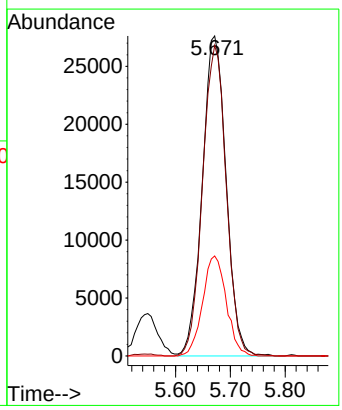


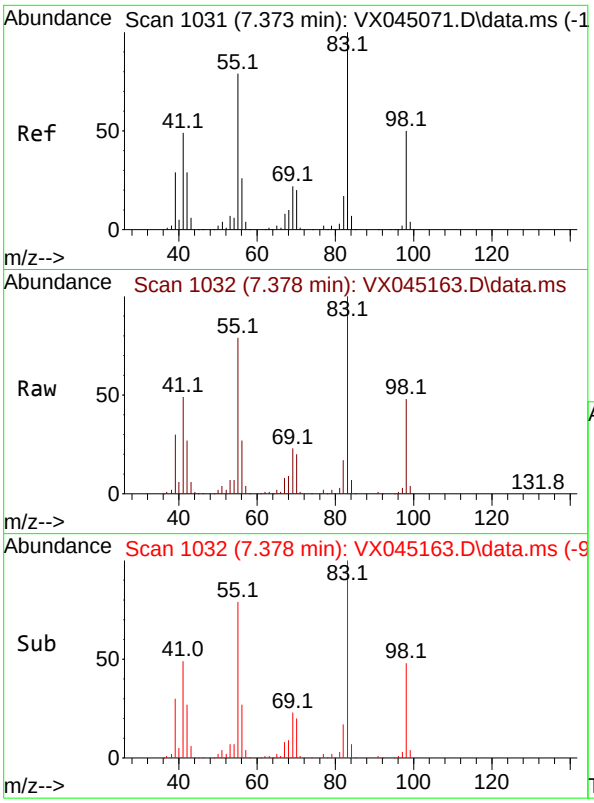


#38
Carbon Tetrachloride
Concen: 50.057 ug/l
RT: 5.671 min Scan# 752
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Tgt Ion:117 Resp: 83458

Ion	Ratio	Lower	Upper
117	100		
119	97.1	76.7	115.1
121	31.2	25.5	38.3





#39
Methylcyclohexane
Concen: 52.749 ug/l
RT: 7.378 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

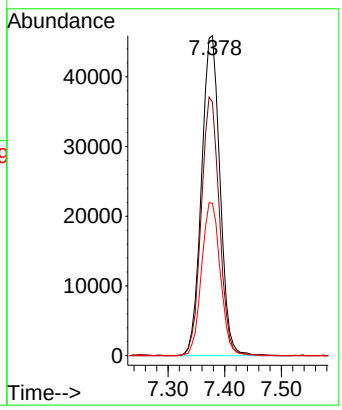
Tgt Ion: 83 Resp: 10379

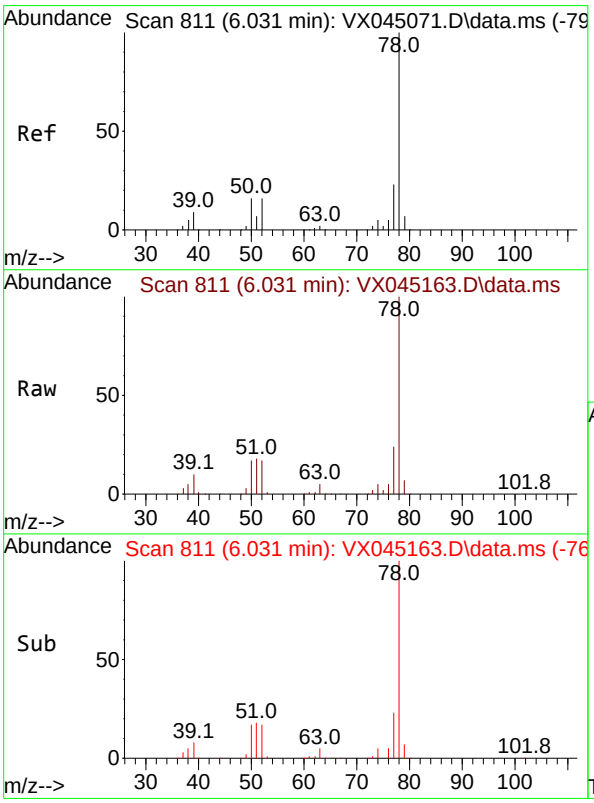
Ion	Ratio	Lower	Upper
83	100		
55	79.1	63.0	94.4
98	47.7	39.7	59.5

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

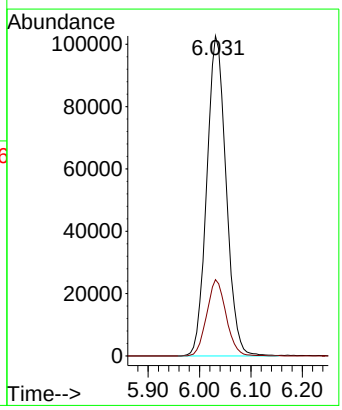


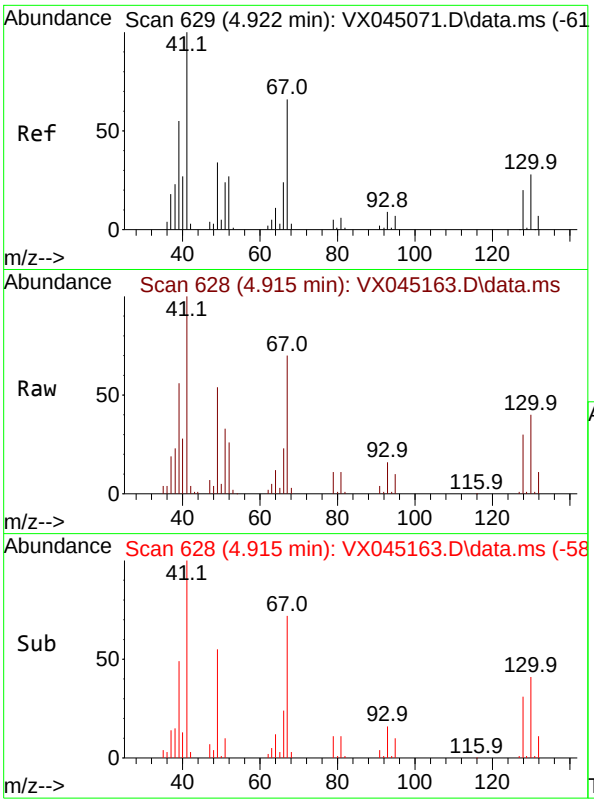


#40
Benzene
Concen: 51.682 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Tgt Ion: 78 Resp: 268012

Ion	Ratio	Lower	Upper
78	100		
77	23.9	18.8	28.2





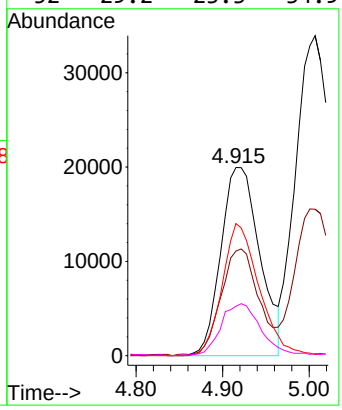
#41
Methacrylonitrile
Concen: 54.549 ug/l
RT: 4.915 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

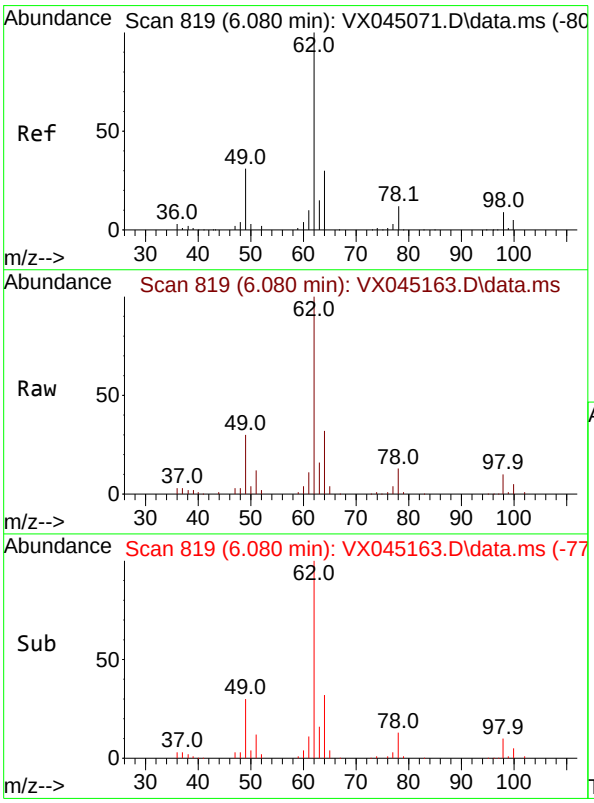
Tgt Ion: 41 Resp: 6241

Ion	Ratio	Lower	Upper
41	100		
39	54.1	44.6	67.0
67	66.6	53.9	80.9
52	29.2	23.3	34.9

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MS

Manual Integrations
APPROVED
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

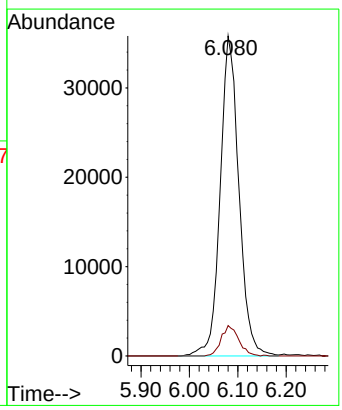


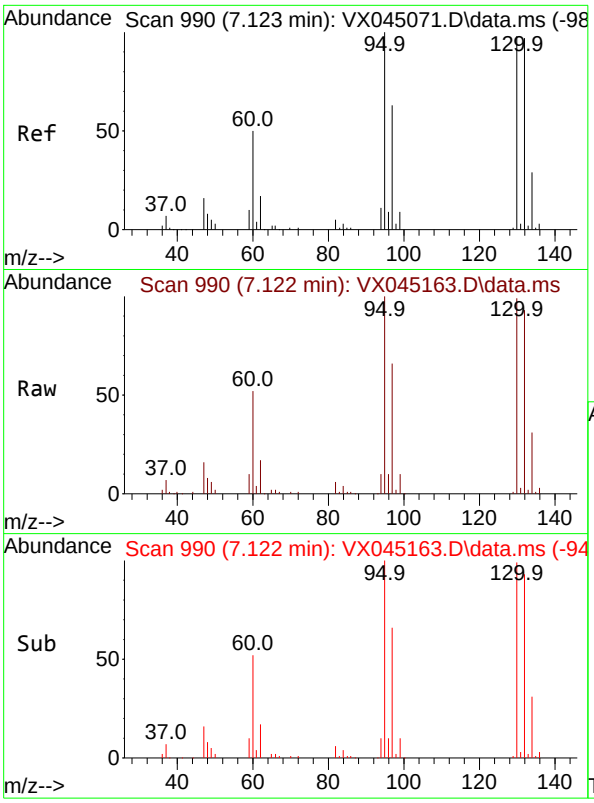


#42
1,2-Dichloroethane
Concen: 51.592 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Tgt Ion: 62 Resp: 96342

Ion	Ratio	Lower	Upper
62	100		
98	8.9	0.0	18.2





#44
Trichloroethene
Concen: 94.894 ug/l
RT: 7.122 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Tgt Ion:130 Resp: 115549

Ion	Ratio	Lower	Upper
130	100		
95	101.0	0.0	205.0

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MS

Manual Integrations
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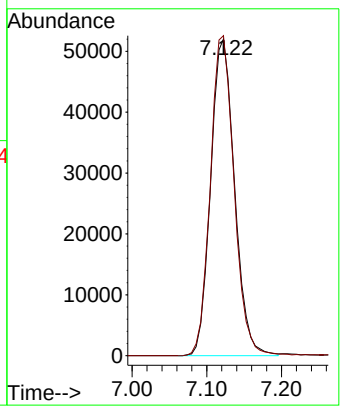
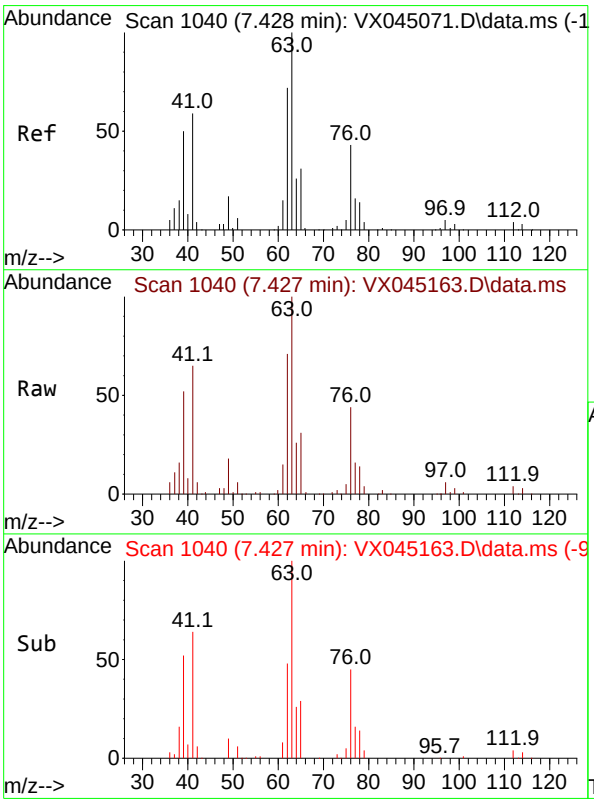
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

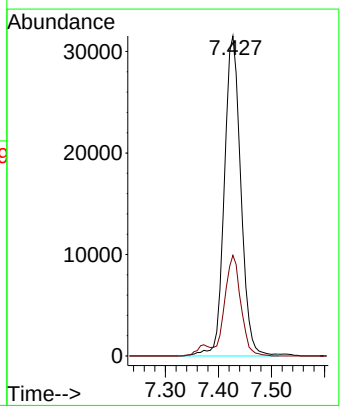


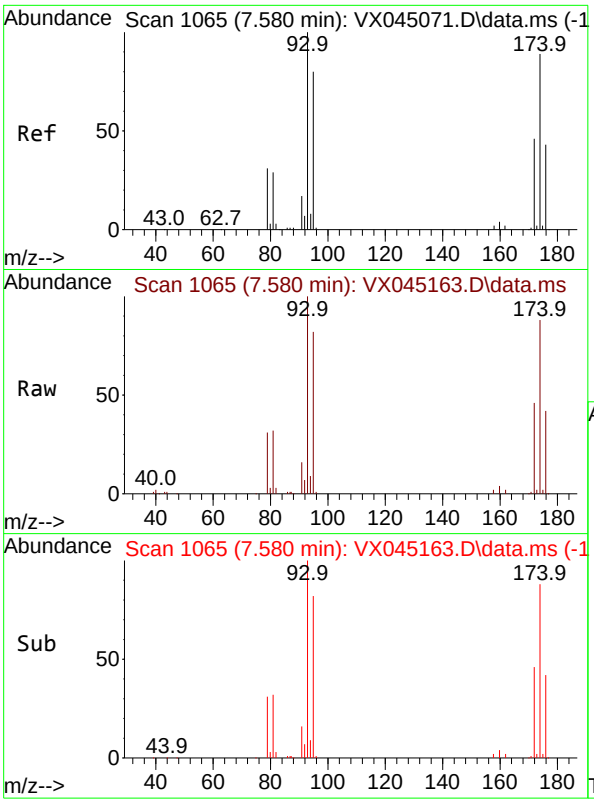


#45
1,2-Dichloropropane
Concen: 51.209 ug/l
RT: 7.427 min Scan# 1040
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Tgt Ion: 63 Resp: 68277

Ion	Ratio	Lower	Upper
63	100		
65	31.5	24.7	37.1





#46
Dibromomethane
Concen: 52.588 ug/l
RT: 7.580 min Scan# 1(
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

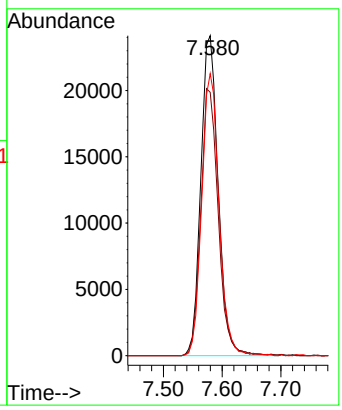
Tgt Ion: 93 Resp: 4955

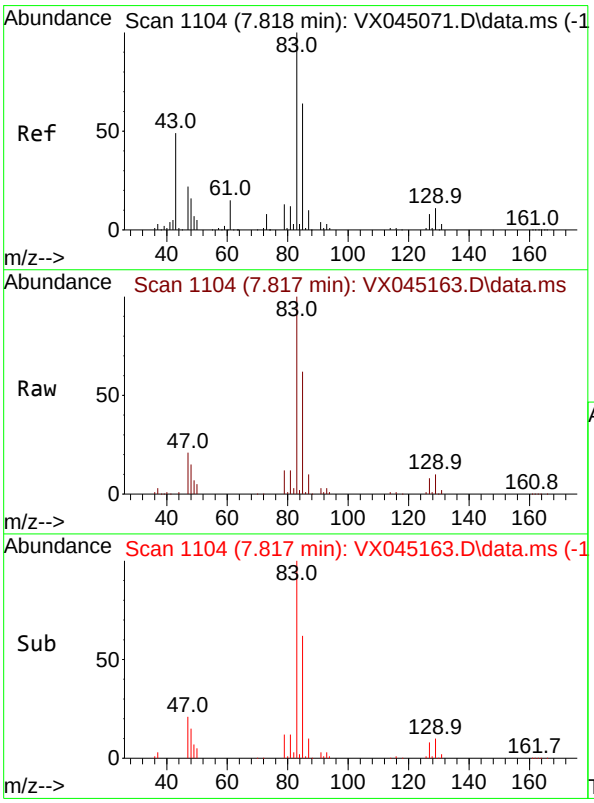
Ion	Ratio	Lower	Upper
93	100		
95	83.8	65.8	98.8
174	87.8	72.2	108.2

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

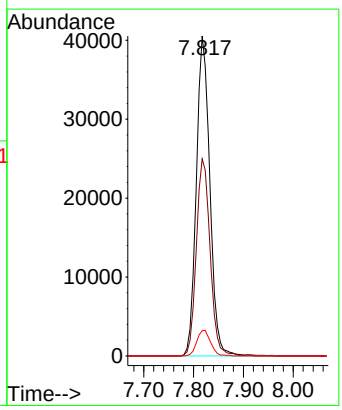


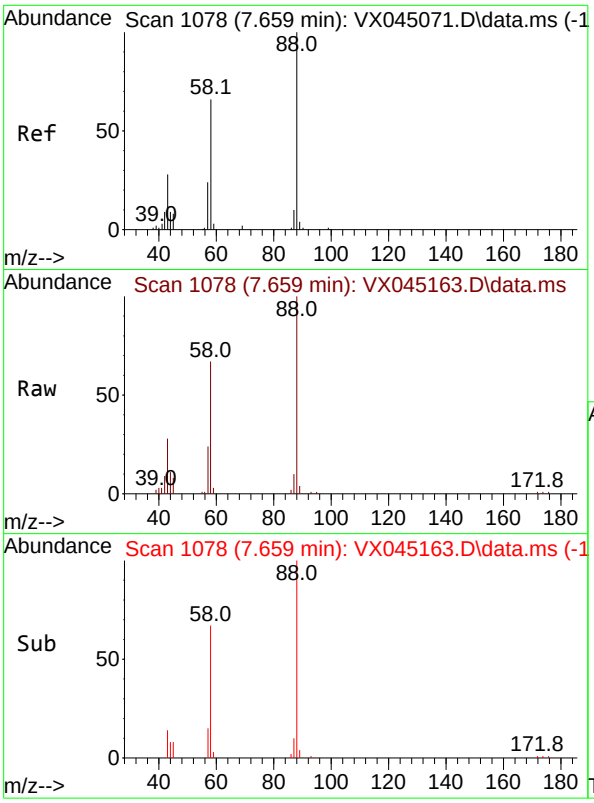


#47
Bromodichloromethane
Concen: 41.338 ug/l
RT: 7.817 min Scan# 1104
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Tgt Ion: 83 Resp: 76414

Ion	Ratio	Lower	Upper
83	100		
85	61.6	51.1	76.7
127	7.9	6.4	9.6





#49
1,4-Dioxane
Concen: 913.440 ug/l
RT: 7.659 min Scan# 1(
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

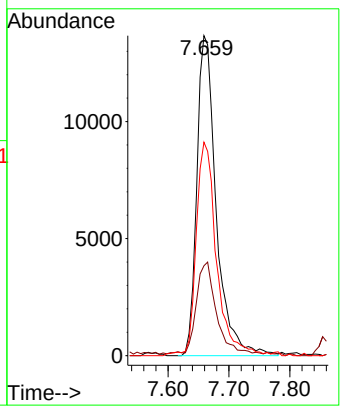
Tgt Ion: 88 Resp: 3024

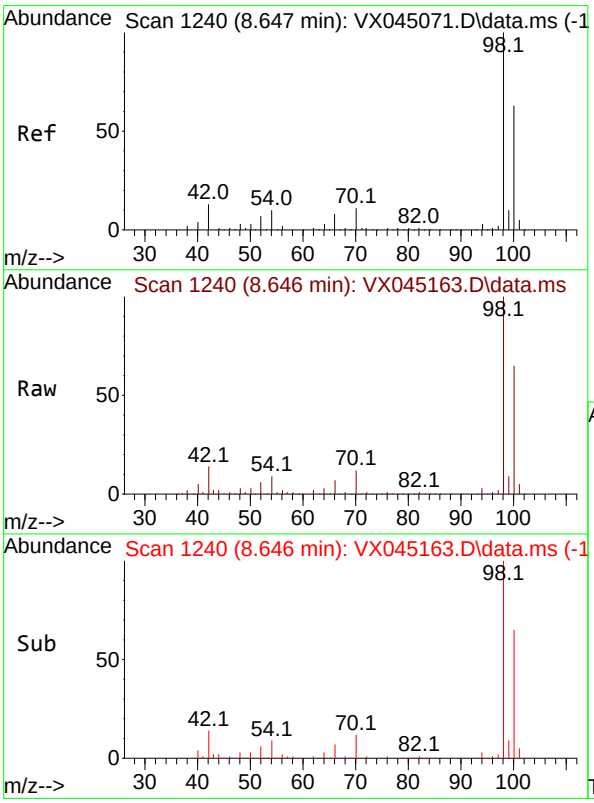
Ion	Ratio	Lower	Upper
88	100		
43	29.3	28.7	43.1
58	69.7	55.8	83.8

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

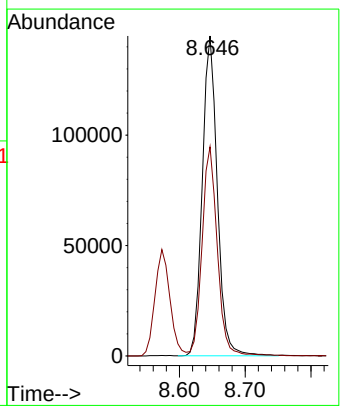


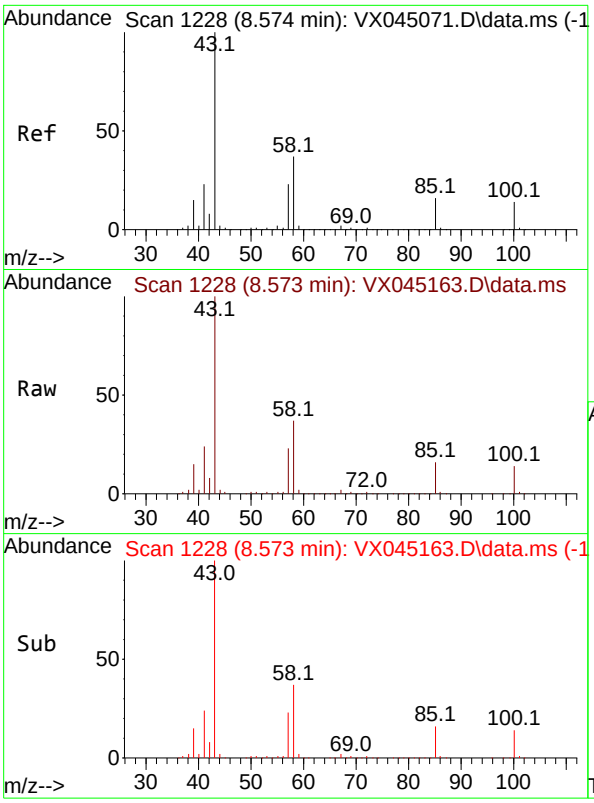


#50
Toluene-d8
Concen: 53.204 ug/l
RT: 8.646 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Tgt Ion: 98 Resp: 230975

Ion	Ratio	Lower	Upper
98	100		
100	66.0	52.0	78.0





#51
4-Methyl-2-Pentanone
Concen: 270.554 ug/l
RT: 8.573 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

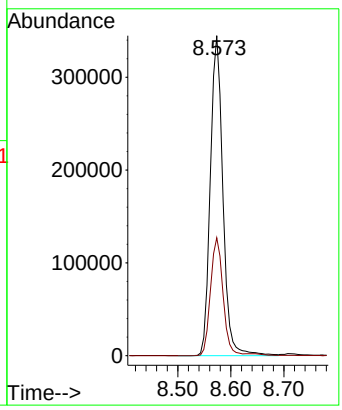
Tgt Ion: 43 Resp: 56844

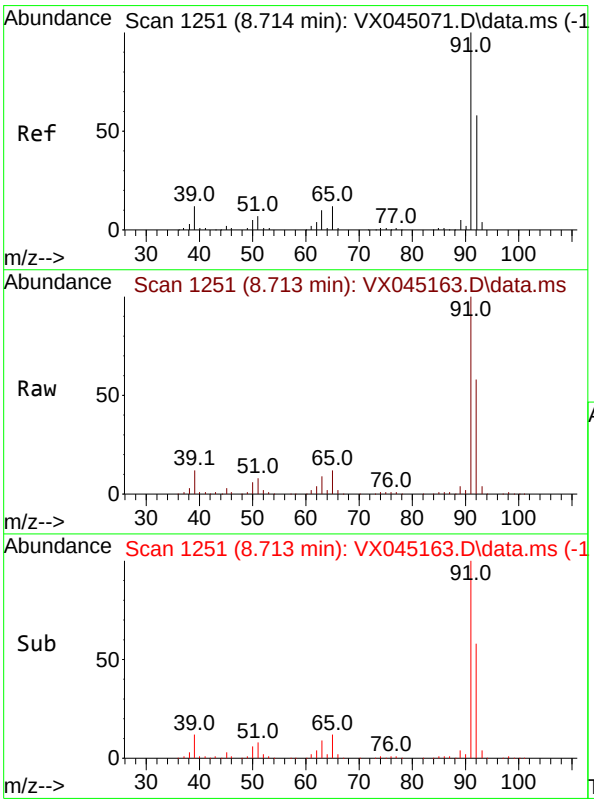
Ion	Ratio	Lower	Upper
43	100		
58	36.8	29.2	43.8

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

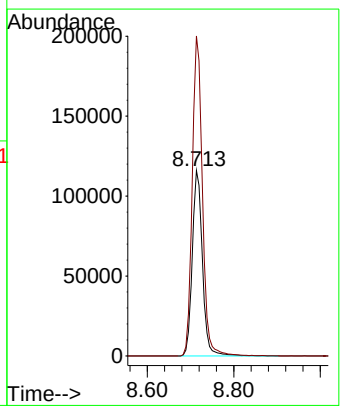


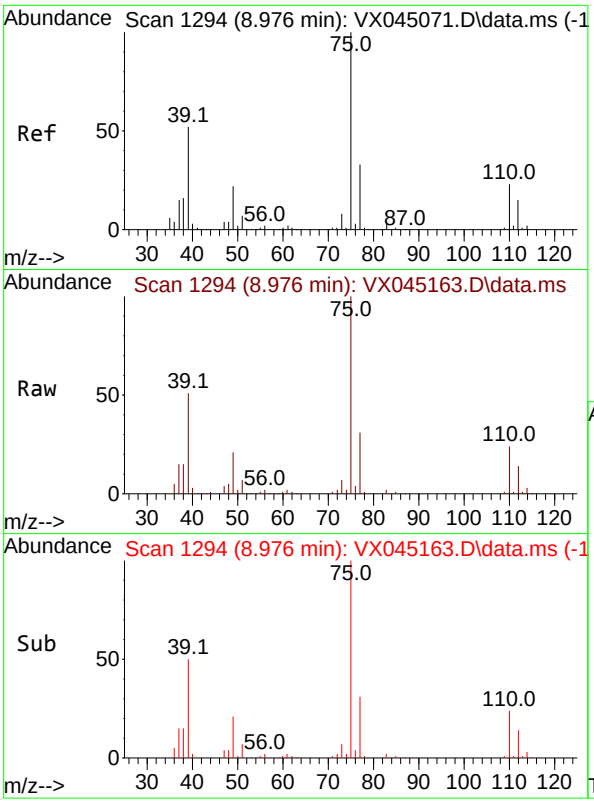


#52
Toluene
Concen: 61.939 ug/l
RT: 8.713 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Tgt Ion: 92 Resp: 188456

Ion	Ratio	Lower	Upper
92	100		
91	173.0	138.9	208.3





#53
t-1,3-Dichloropropene
Concen: 54.366 ug/l
RT: 8.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Tgt Ion: 75 Resp: 8401

Ion	Ratio	Lower	Upper
75	100		
77	31.5	26.5	39.7

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MS

Manual Integrations
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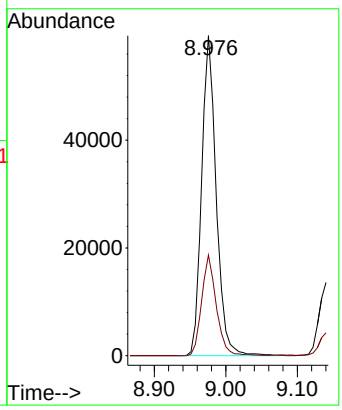
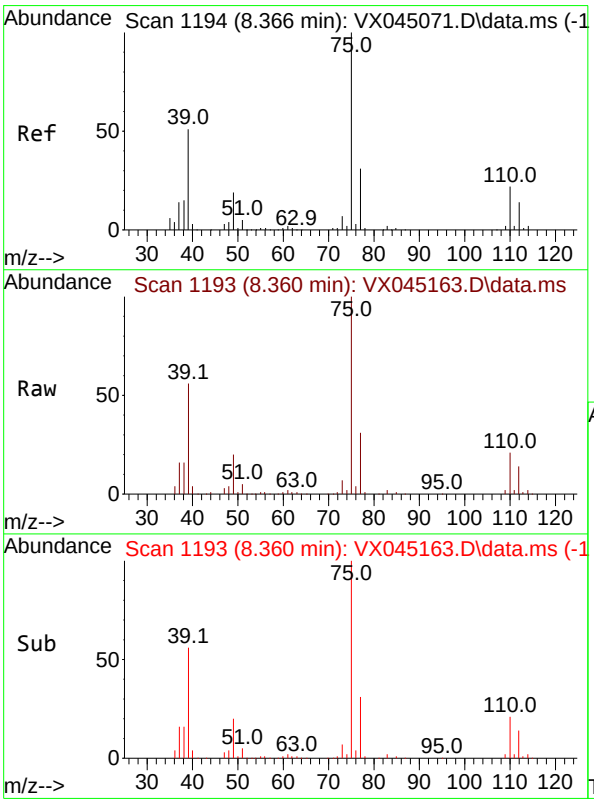
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

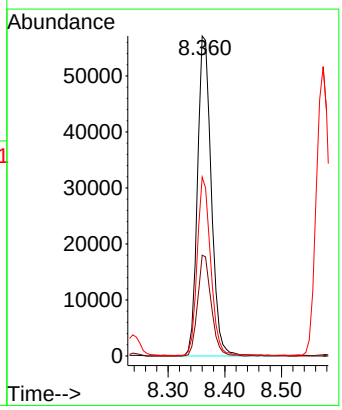


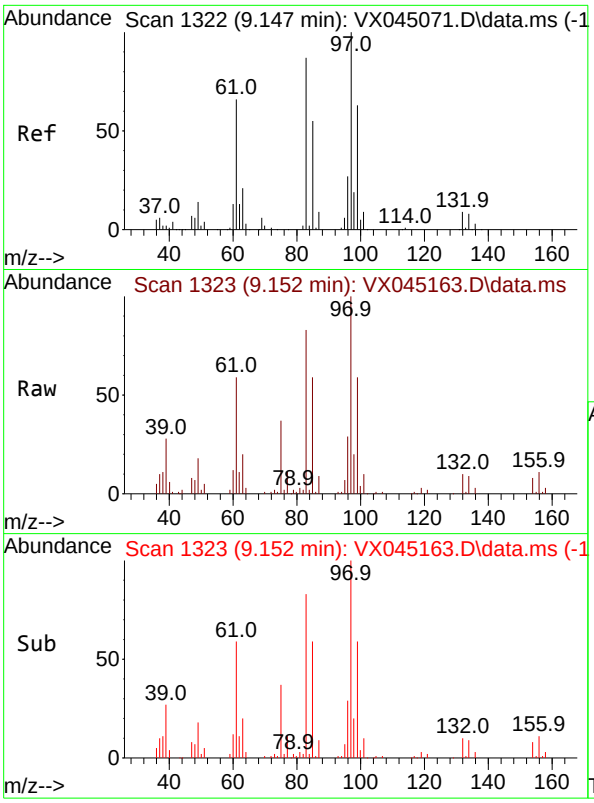


#54
cis-1,3-Dichloropropene
Concen: 53.555 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. -0.007 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Tgt Ion: 75 Resp: 96507

Ion	Ratio	Lower	Upper
75	100		
77	31.5	24.7	37.1
39	55.7	40.7	61.1





#55
1,1,2-Trichloroethane
Concen: 23.613 ug/l
RT: 9.152 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

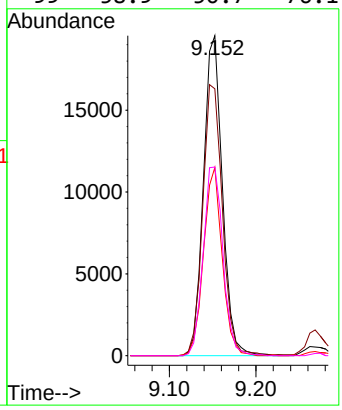
Tgt Ion: 97 Resp: 2957

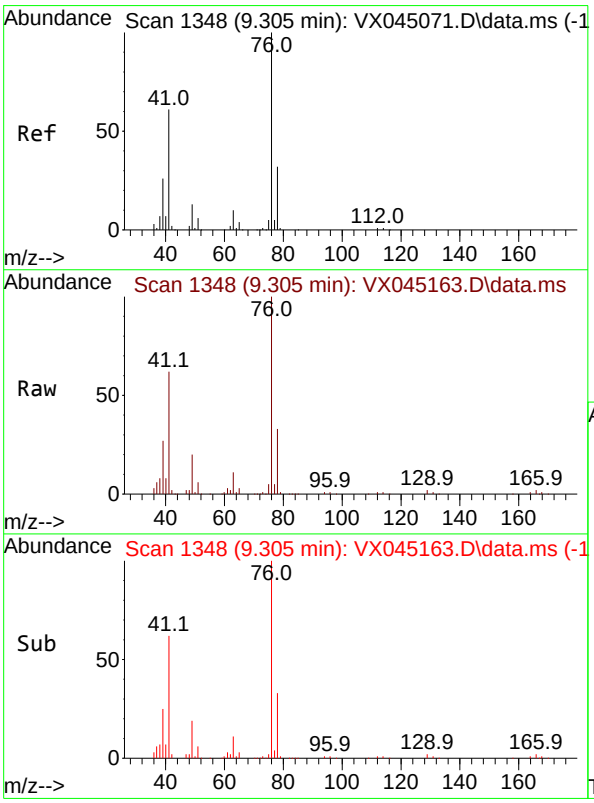
Ion	Ratio	Lower	Upper
97	100		
83	83.4	69.4	104.2
85	58.8	44.1	66.1
99	58.9	50.7	76.1

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

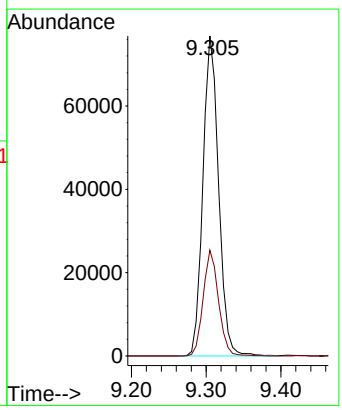


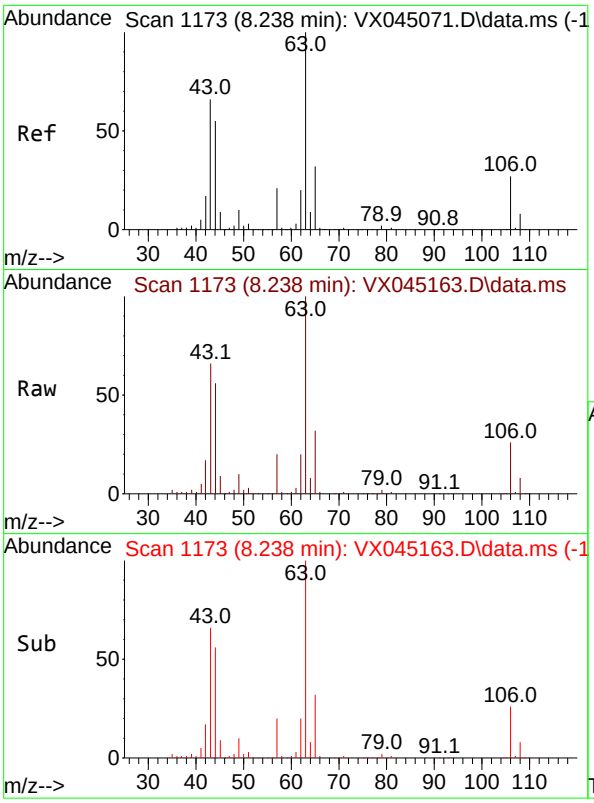


#57
1,3-Dichloropropane
Concen: 51.541 ug/l
RT: 9.305 min Scan# 1348
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Tgt Ion: 76 Resp: 111722

Ion	Ratio	Lower	Upper
76	100		
78	32.4	25.5	38.3





#58
2-Chloroethyl Vinyl ether
Concen: 267.664 ug/l
RT: 8.238 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

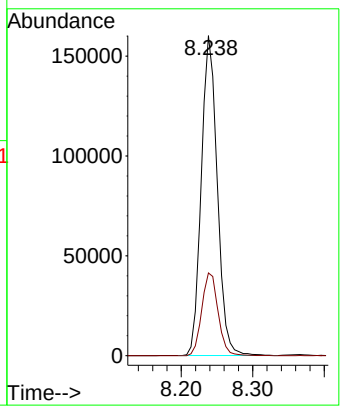
Tgt Ion: 63 Resp: 24860

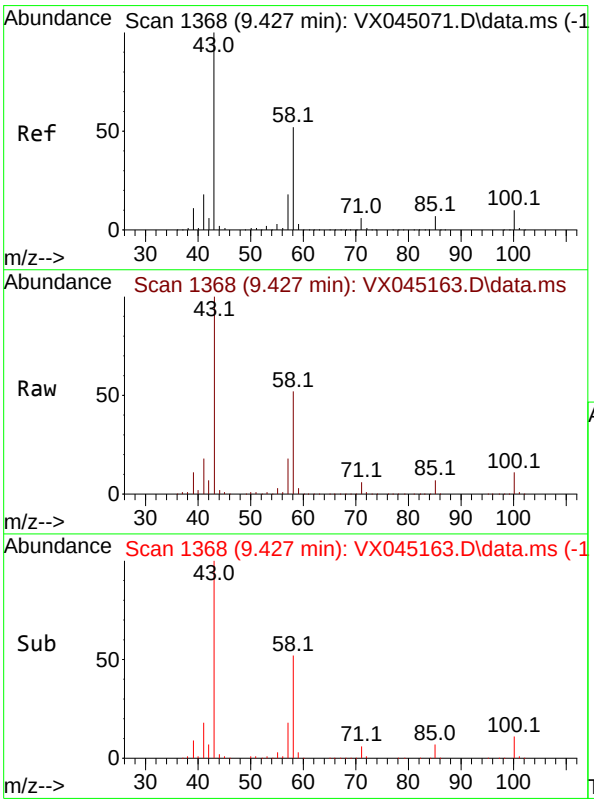
Ion	Ratio	Lower	Upper
63	100		
106	26.4	21.5	32.3

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

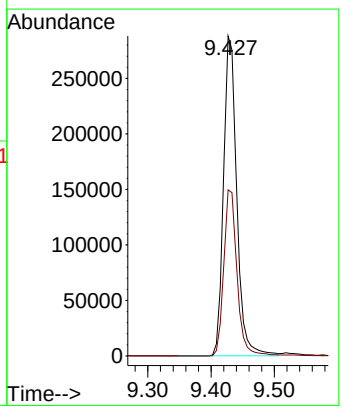


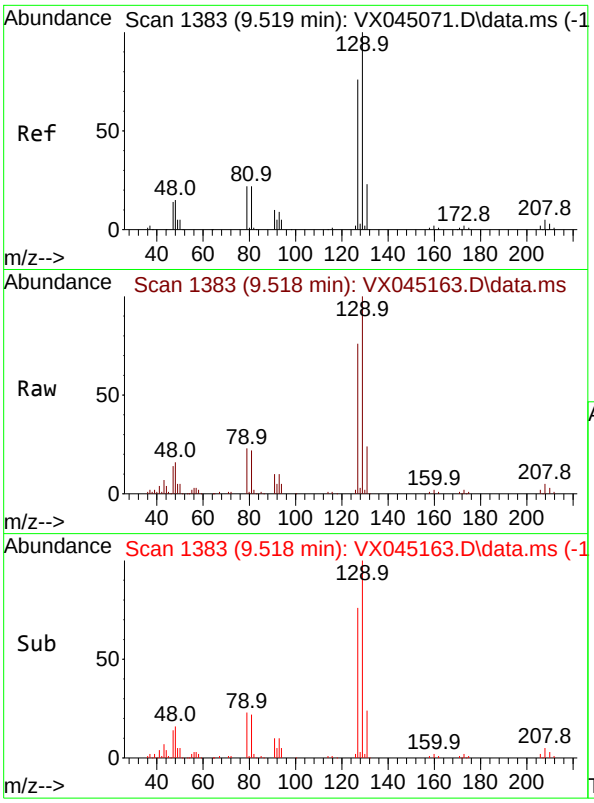


#59
2-Hexanone
Concen: 274.135 ug/l
RT: 9.427 min Scan# 1368
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Tgt Ion: 43 Resp: 417312

Ion	Ratio	Lower	Upper
43	100		
58	52.6	25.9	77.6





#60
Dibromochloromethane
Concen: 46.004 ug/l
RT: 9.518 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Tgt Ion:129 Resp: 6025

Ion	Ratio	Lower	Upper
129	100		
127	76.6	38.5	115.5

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MS

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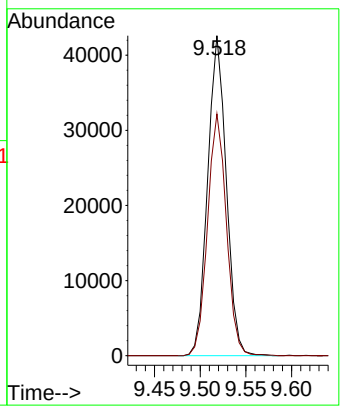
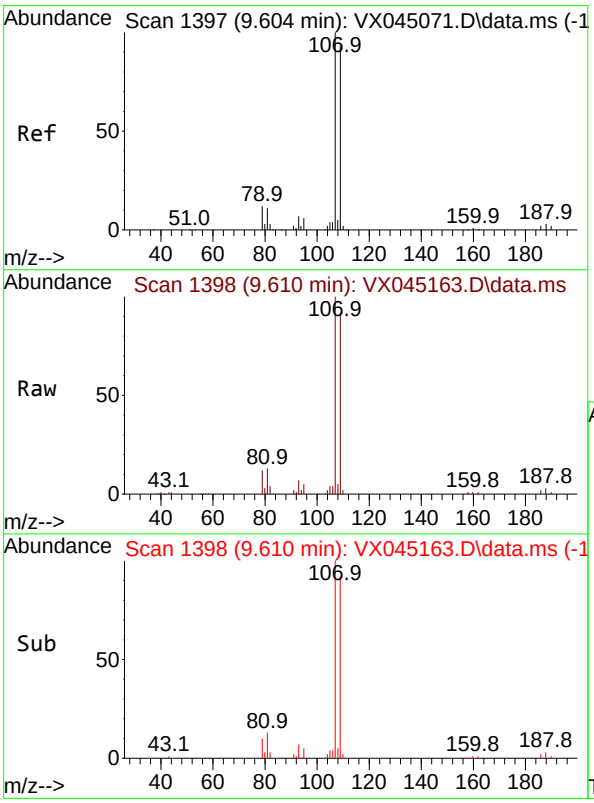
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

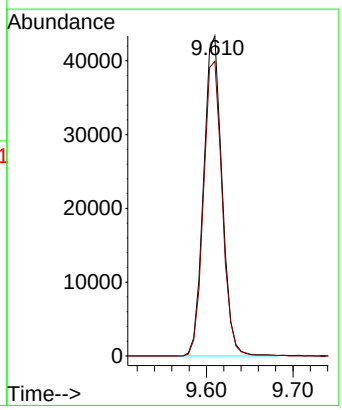


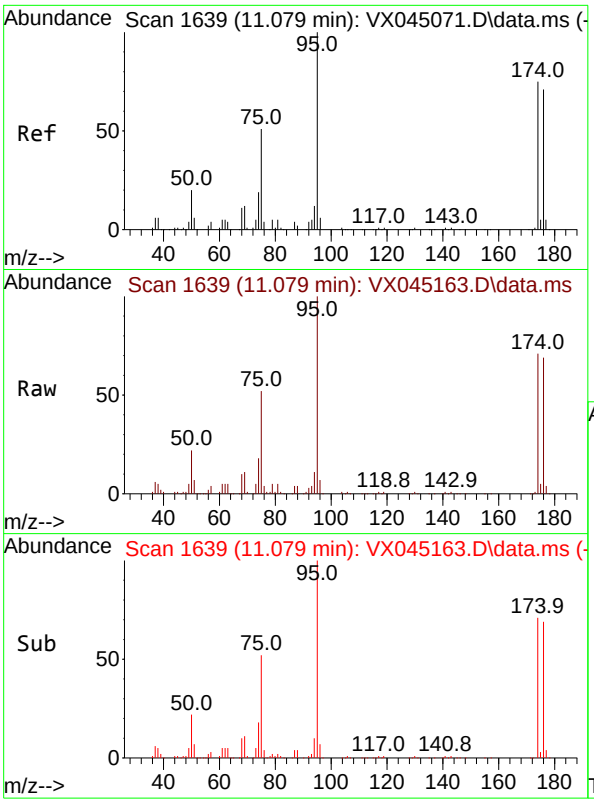


#61
1,2-Dibromoethane
Concen: 51.190 ug/l
RT: 9.610 min Scan# 1398
Delta R.T. 0.006 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Tgt Ion:107 Resp: 64009

Ion	Ratio	Lower	Upper
107	100		
109	93.3	76.1	114.1





#62
4-Bromofluorobenzene
Concen: 54.731 ug/l
RT: 11.079 min Scan# 1(
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Tgt Ion: 95 Resp: 7873!

Ion	Ratio	Lower	Upper
95	100		
174	72.1	0.0	148.2
176	70.5	0.0	141.4

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MS

Manual Integrations
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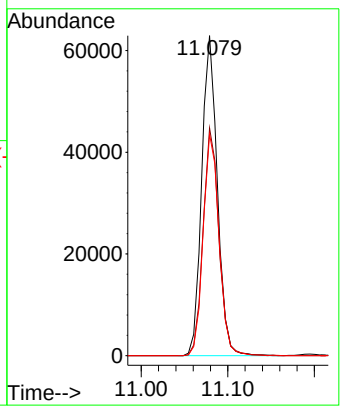
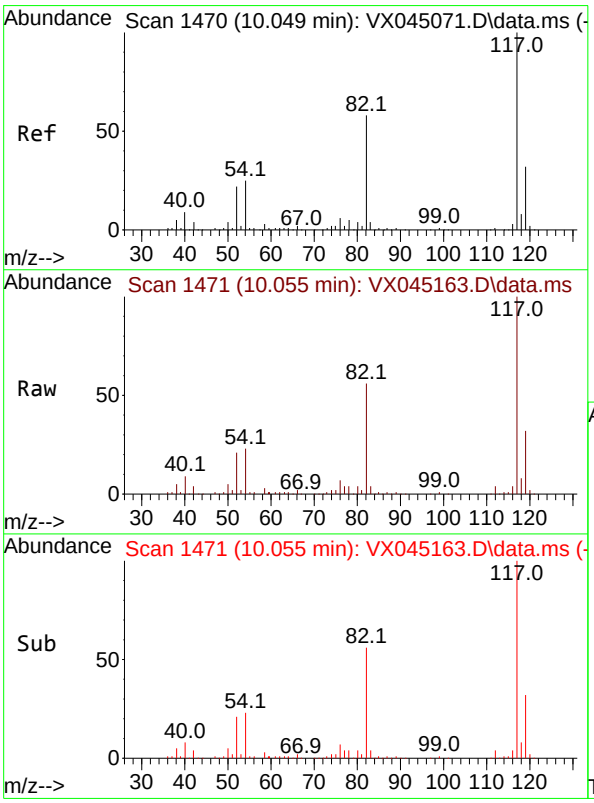
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

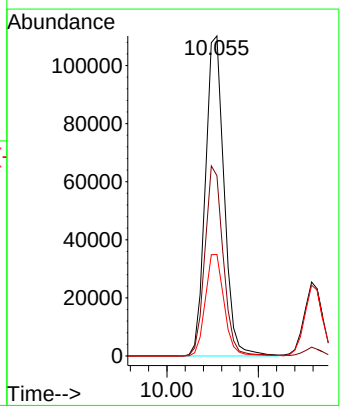


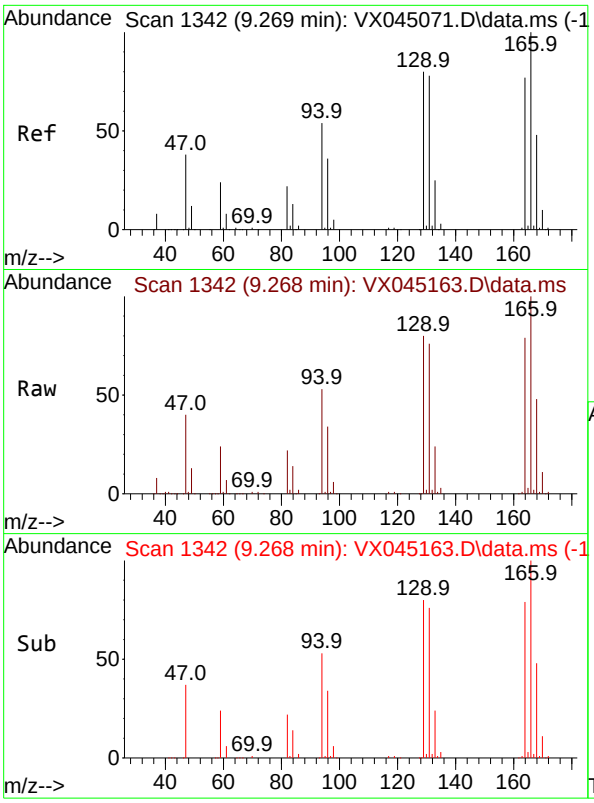


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.006 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Tgt Ion:117 Resp: 156313

Ion	Ratio	Lower	Upper
117	100		
82	56.4	46.3	69.5
119	31.7	25.7	38.5





#64
Tetrachloroethene
Concen: 88.922 ug/l
RT: 9.268 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Tgt Ion:164 Resp: 8902

Ion	Ratio	Lower	Upper
164	100		
166	126.4	103.6	155.4
129	101.7	82.7	124.1
131	96.4	80.5	120.7

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MS

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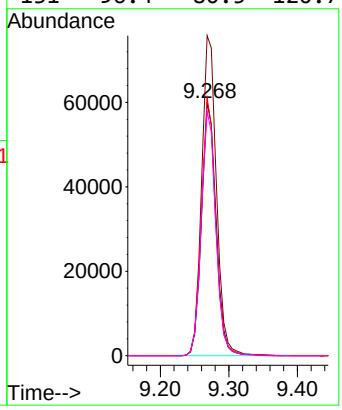
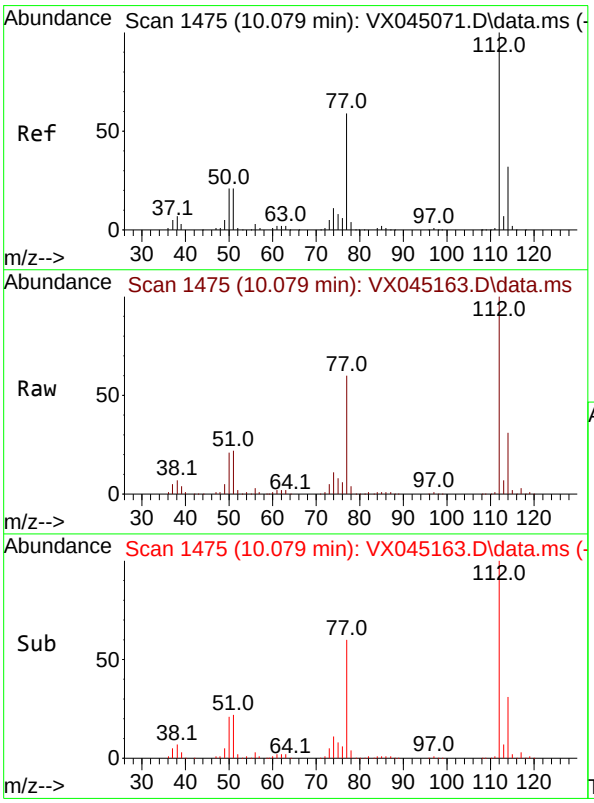
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

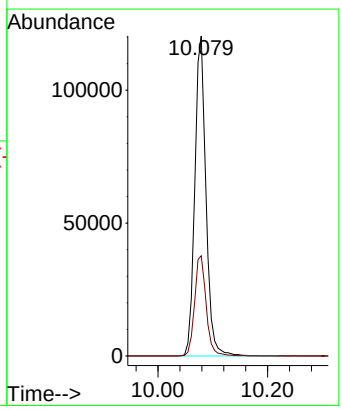


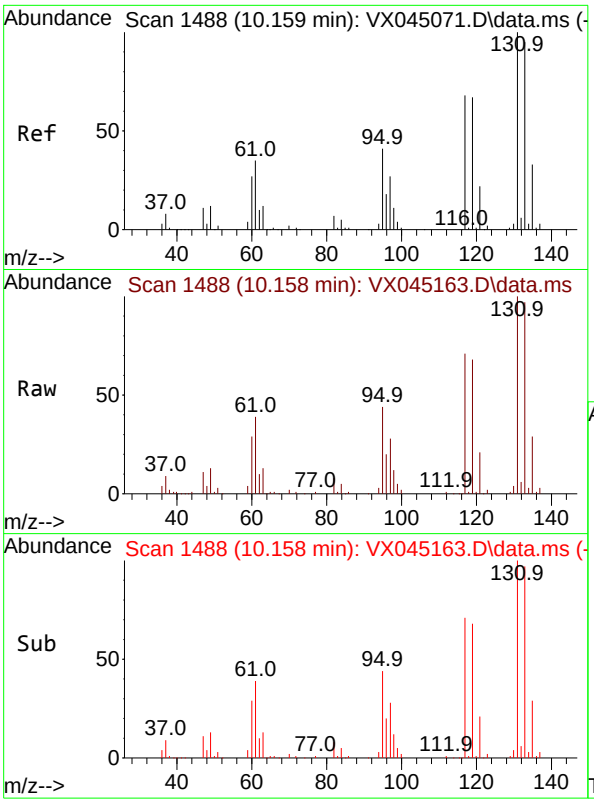


#65
Chlorobenzene
Concen: 51.641 ug/l
RT: 10.079 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Tgt Ion:112 Resp: 170804

Ion	Ratio	Lower	Upper
112	100		
114	31.3	26.0	39.0





#66
1,1,1,2-Tetrachloroethane
Concen: 45.401 ug/l
RT: 10.158 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Tgt Ion:131 Resp: 5000

Ion	Ratio	Lower	Upper
131	100		
133	94.5	48.6	145.9
119	66.4	33.9	101.7

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MS

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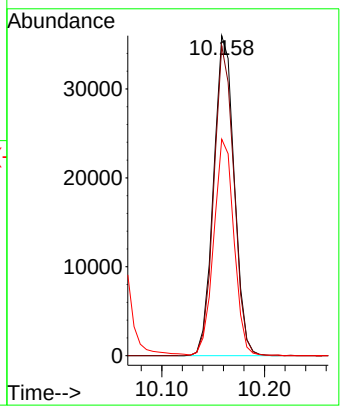
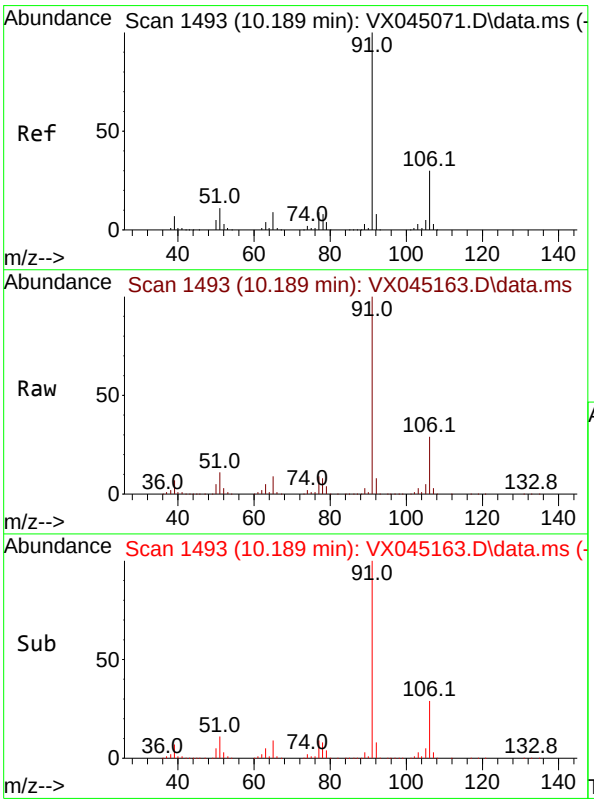
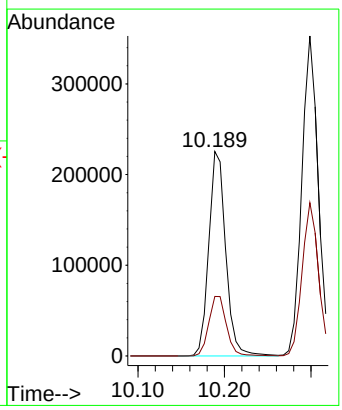


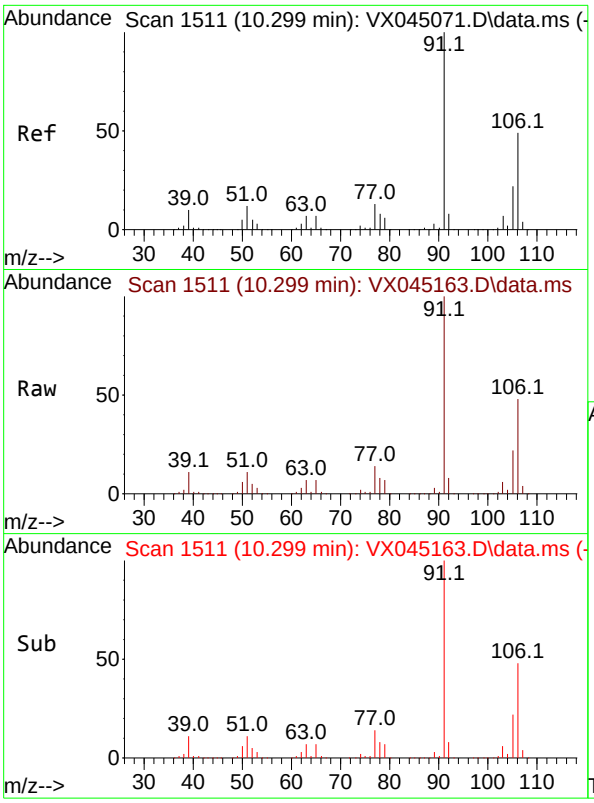


#67
Ethyl Benzene
Concen: 53.134 ug/l
RT: 10.189 min Scan# 1493
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Tgt Ion: 91 Resp: 306222

Ion	Ratio	Lower	Upper
91	100		
106	29.1	23.9	35.9





#68
m/p-Xylenes
Concen: 107.448 ug/l
RT: 10.299 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Tgt Ion:106 Resp: 22668

Ion	Ratio	Lower	Upper
106	100		
91	207.2	165.4	248.0

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MS

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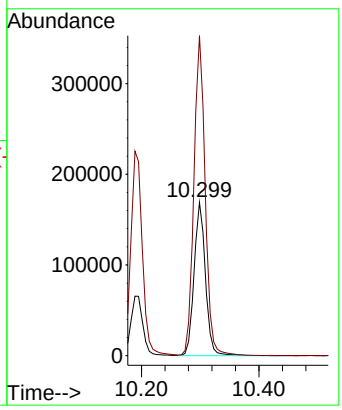
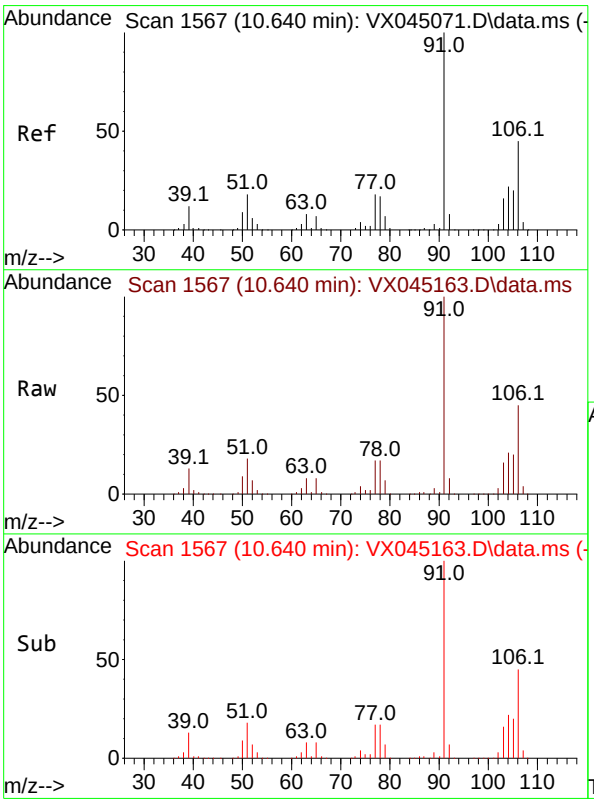
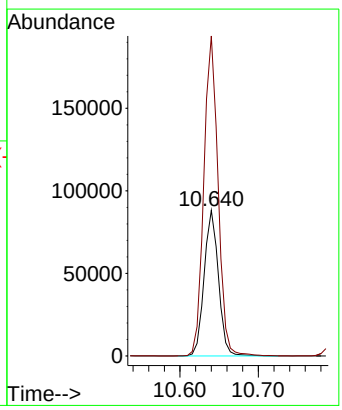


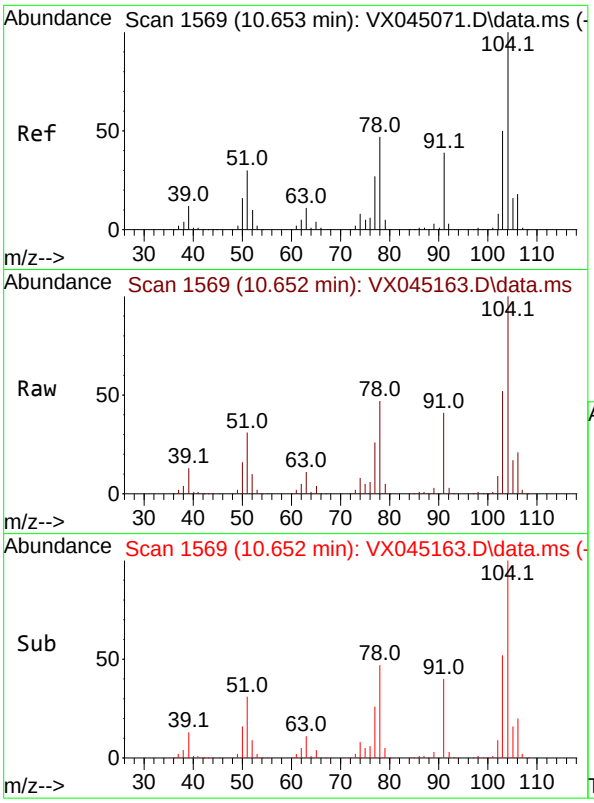


#69
o-Xylene
Concen: 52.398 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Tgt Ion:106 Resp: 111494

Ion	Ratio	Lower	Upper
106	100		
91	219.3	109.9	329.6





#70
Styrene
Concen: 54.191 ug/l
RT: 10.652 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Tgt Ion:104 Resp: 186579

Ion	Ratio	Lower	Upper
104	100		
78	52.5	42.2	63.4
103	55.1	43.8	65.8

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MS

Manual Integrations
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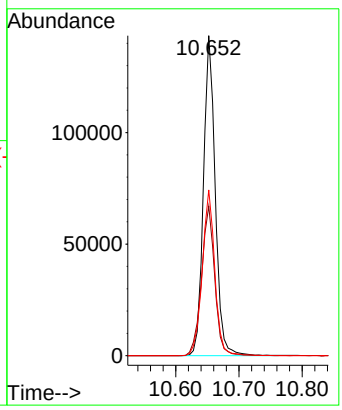
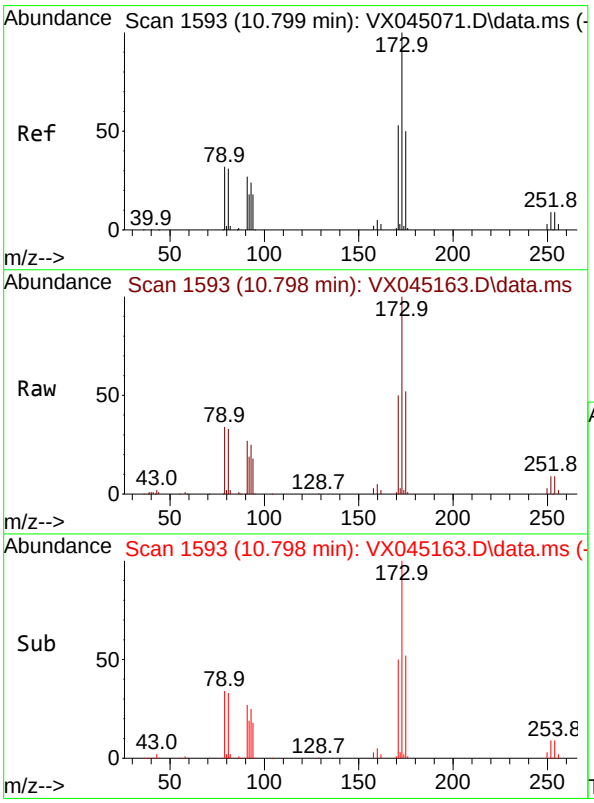
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

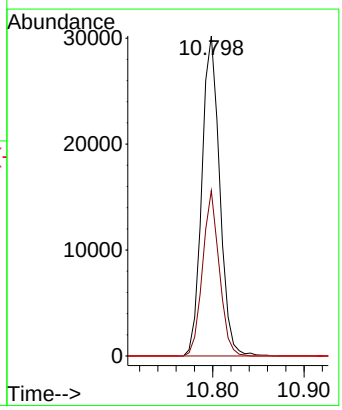


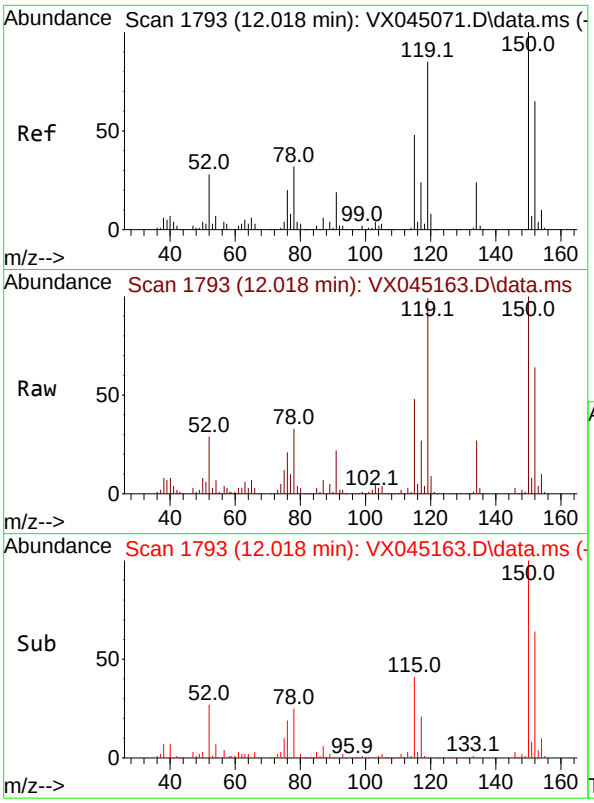


#71
Bromoform
Concen: 49.118 ug/l
RT: 10.798 min Scan# 1593
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Tgt Ion:173 Resp: 40798

Ion	Ratio	Lower	Upper
173	100		
175	48.3	24.6	73.6
254	0.0	0.0	0.0





#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Tgt Ion:152 Resp: 6721

Ion	Ratio	Lower	Upper
152	100		
115	89.6	44.2	132.6
150	176.3	0.0	349.0

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MS

Manual Integrations
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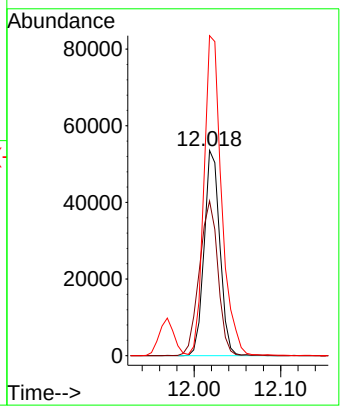
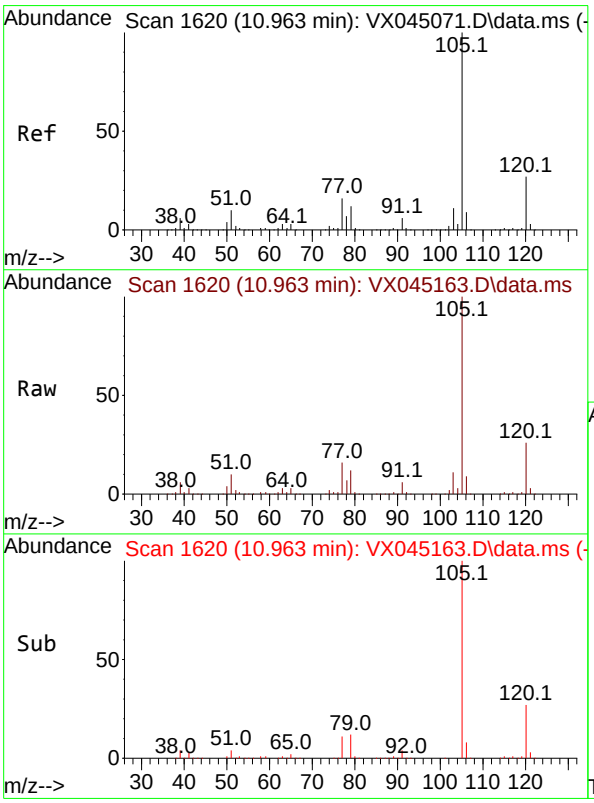
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

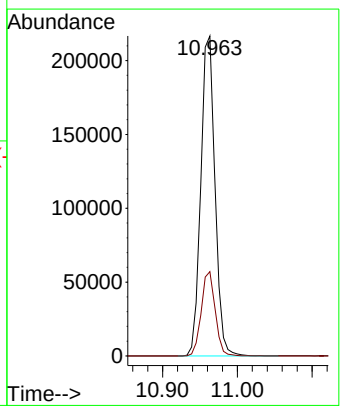


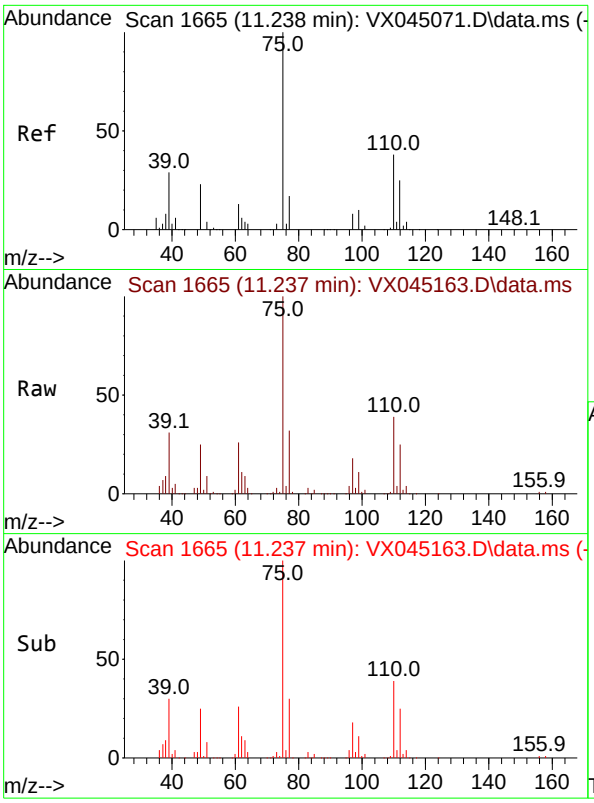


#73
Isopropylbenzene
Concen: 54.471 ug/l
RT: 10.963 min Scan# 1620
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Tgt Ion:105 Resp: 285788

Ion	Ratio	Lower	Upper
105	100		
120	25.9	13.2	39.5





#76
1,2,3-Trichloropropane
Concen: 48.104 ug/l m
RT: 11.237 min Scan# 1(
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Tgt Ion: 75 Resp: 7526(

Ion	Ratio	Lower	Upper
75	100		
77	41.8	20.7	62.1

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MS

Manual Integrations
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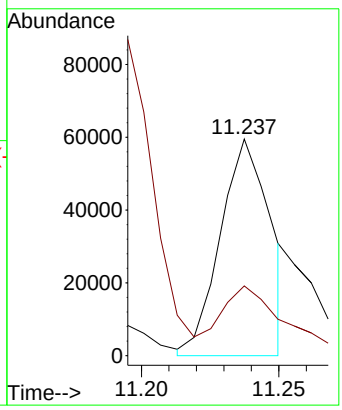
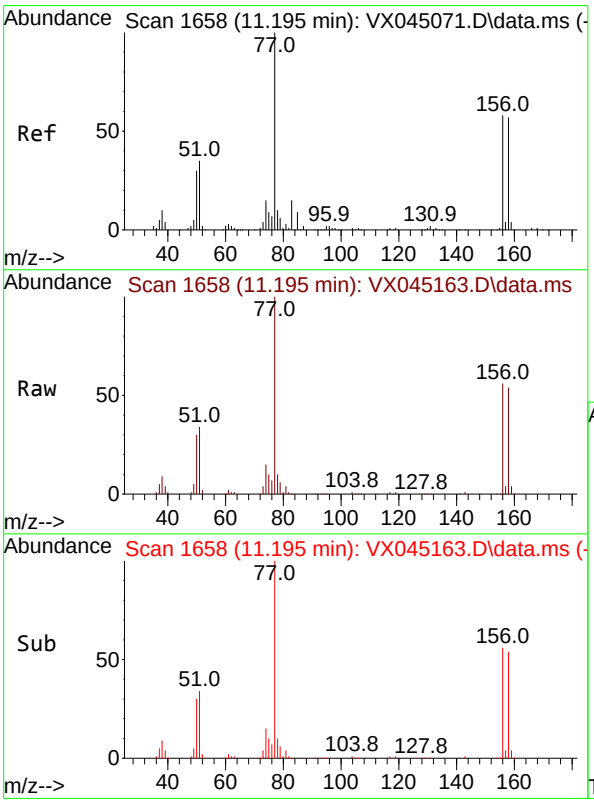
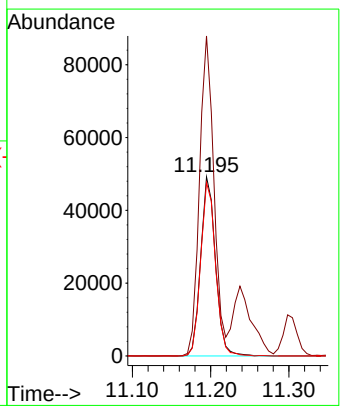


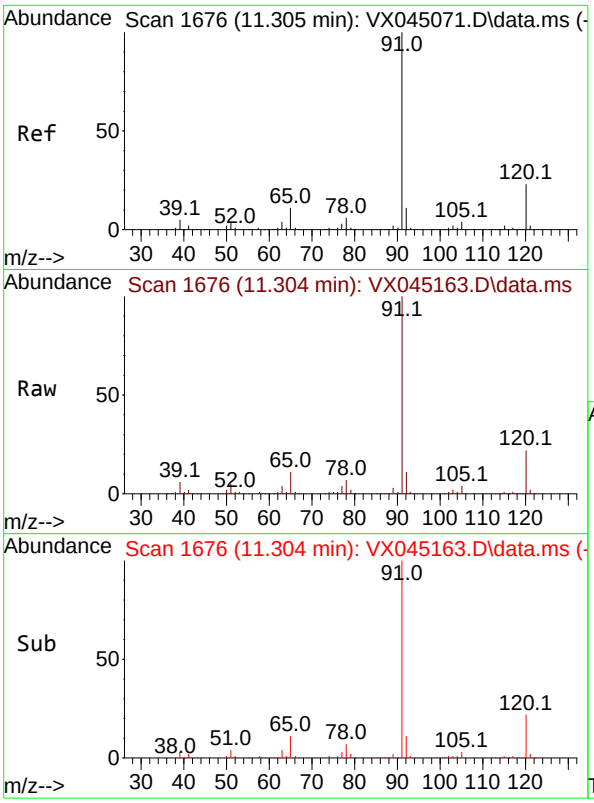


#77
Bromobenzene
Concen: 52.227 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Tgt Ion:156 Resp: 64652

Ion	Ratio	Lower	Upper
156	100		
77	173.8	85.8	257.4
158	97.2	48.4	145.2





#78
n-propylbenzene
Concen: 56.356 ug/l
RT: 11.304 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Tgt Ion: 91 Resp: 33401

Ion	Ratio	Lower	Upper
91	100		
120	21.9	11.2	33.6

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MS

Manual Integrations
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Reviewed By :John Carlone 03/10/2025
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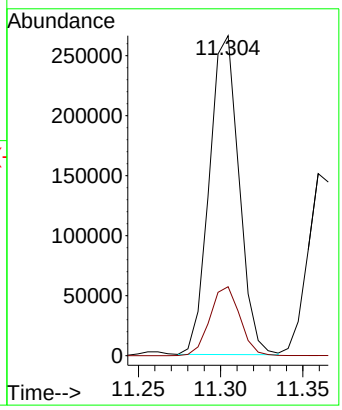
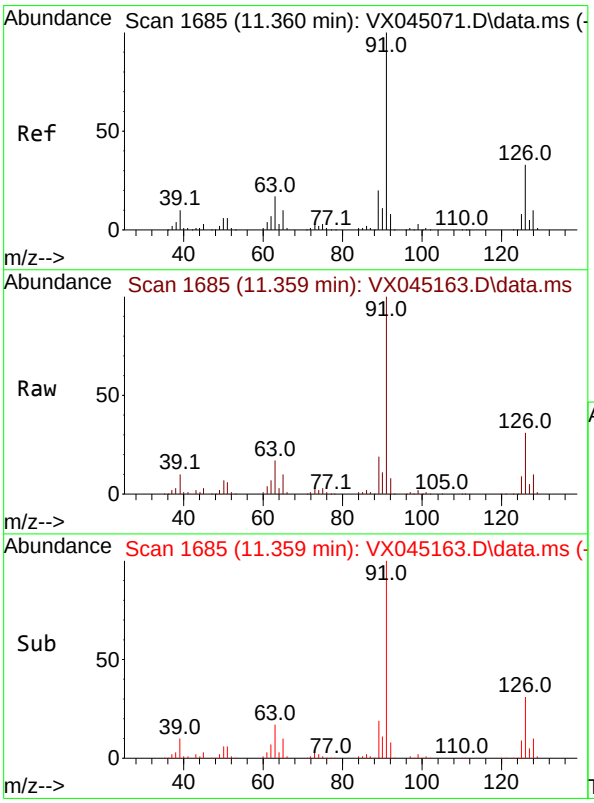
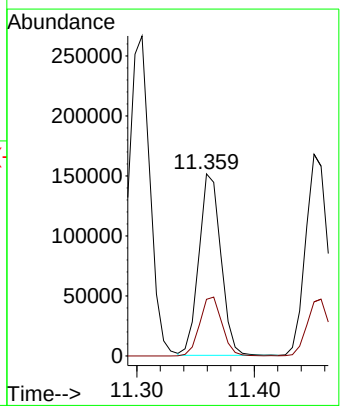


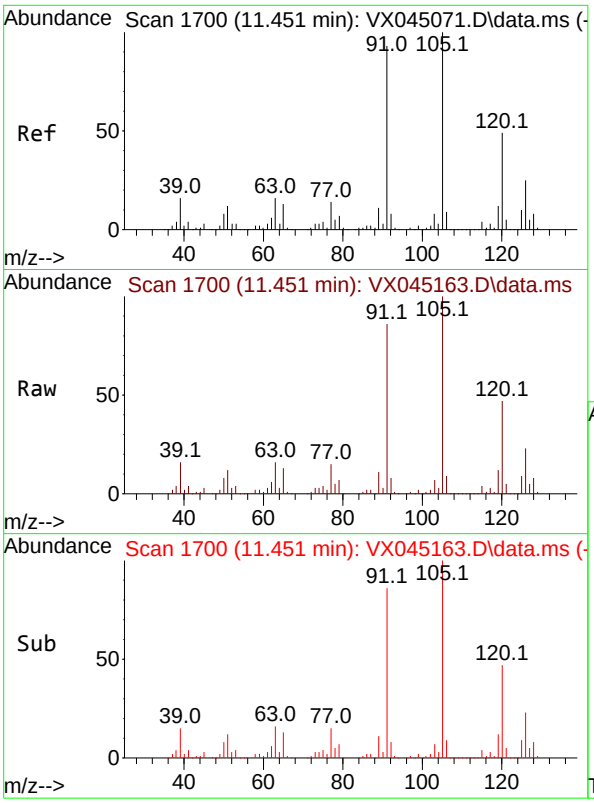


#79
2-Chlorotoluene
Concen: 52.161 ug/l
RT: 11.359 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Tgt Ion: 91 Resp: 196885

Ion	Ratio	Lower	Upper
91	100		
126	33.0	16.4	49.4





#80
1,3,5-Trimethylbenzene
Concen: 54.826 ug/l
RT: 11.451 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Tgt Ion:105 Resp: 23259

Ion	Ratio	Lower	Upper
105	100		
120	47.6	24.1	72.2

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MS

Manual Integrations
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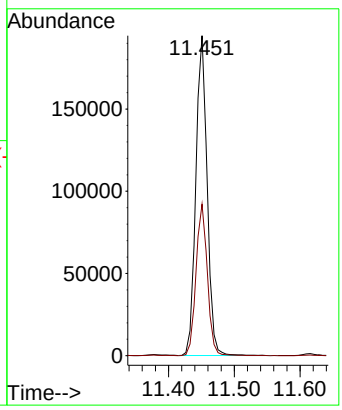
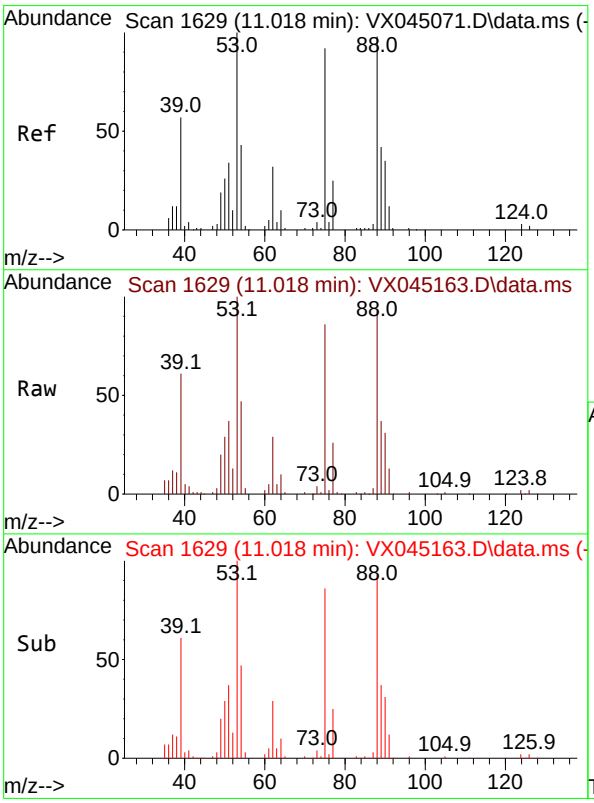
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

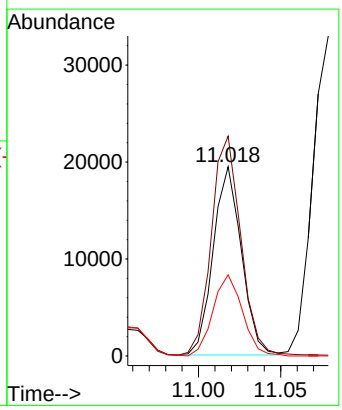


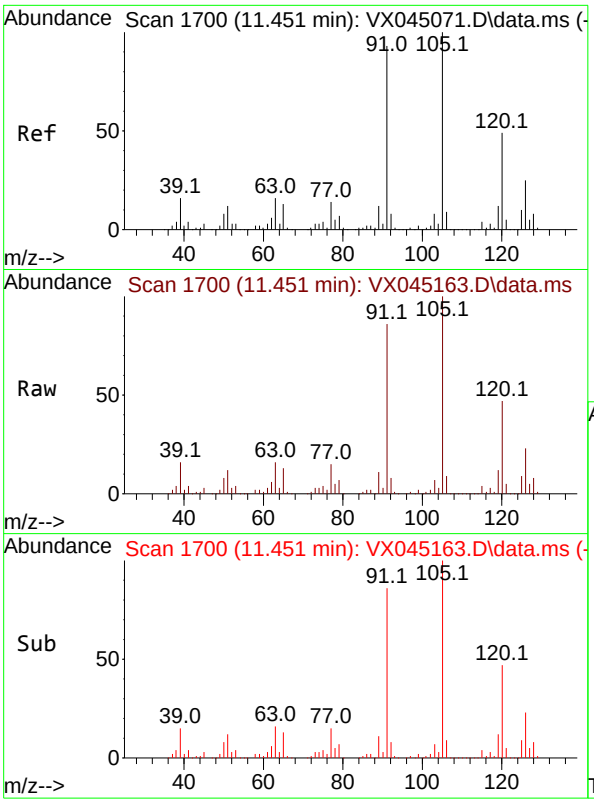


#81
trans-1,4-Dichloro-2-butene
Concen: 50.887 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Tgt Ion: 75 Resp: 23264

Ion	Ratio	Lower	Upper
75	100		
53	122.9	88.5	132.7
89	44.8	36.2	54.4





#82
4-Chlorotoluene
Concen: 54.023 ug/l
RT: 11.451 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

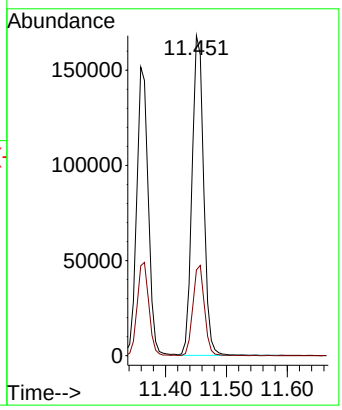
Tgt Ion: 91 Resp: 22223

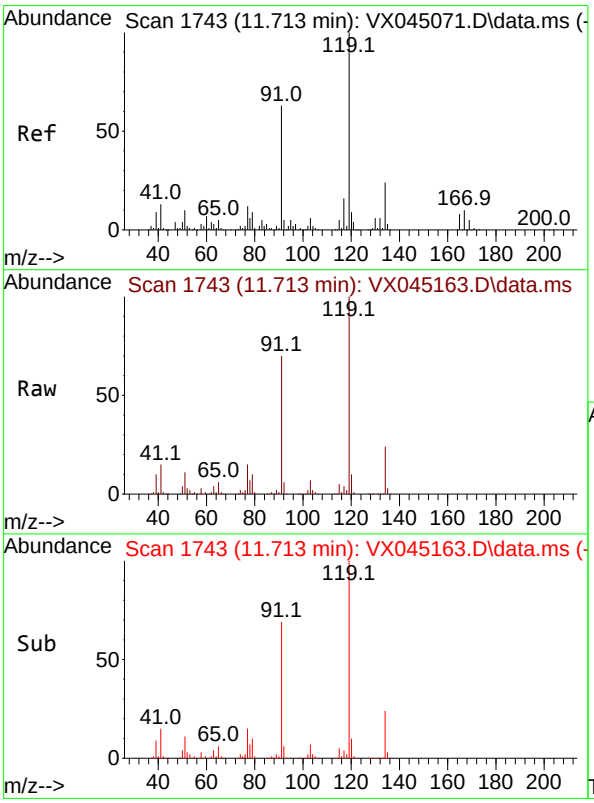
Ion	Ratio	Lower	Upper
91	100		
126	28.2	14.1	42.4

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

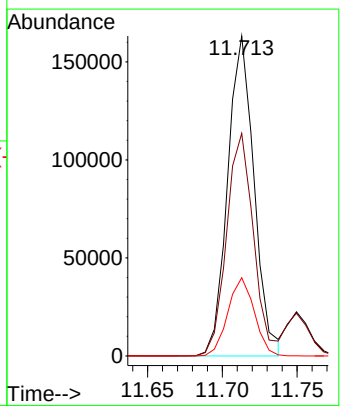


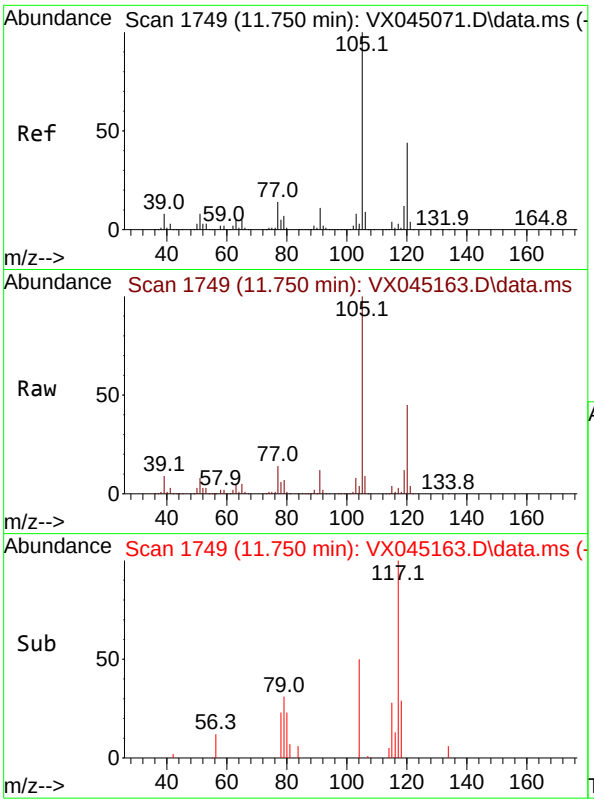


#83
tert-Butylbenzene
Concen: 46.003 ug/l
RT: 11.713 min Scan# 1743
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Tgt Ion:119 Resp: 200520

Ion	Ratio	Lower	Upper
119	100		
91	71.1	30.7	92.1
134	24.4	11.7	35.0





#84
1,2,4-Trimethylbenzene
Concen: 54.611 ug/l
RT: 11.750 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Tgt Ion:105 Resp: 23311

Ion	Ratio	Lower	Upper
105	100		
120	44.2	22.1	66.1

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MS

Manual Integrations
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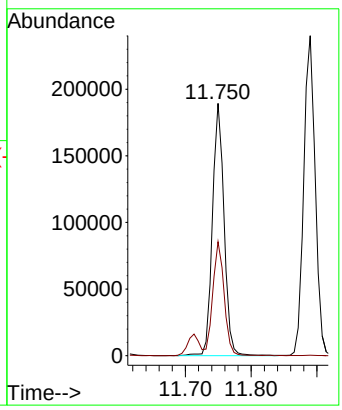
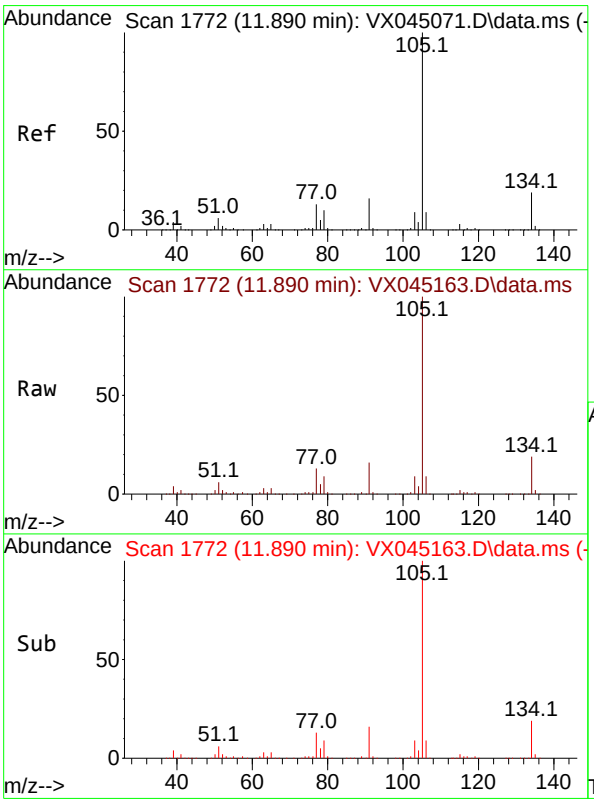
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

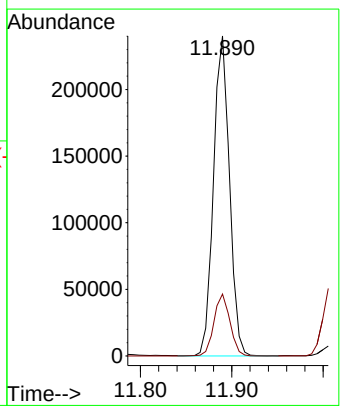


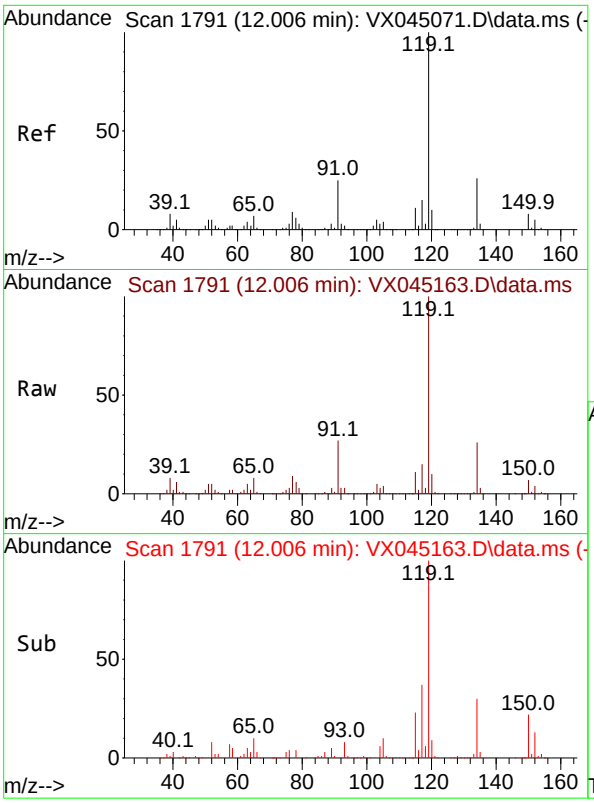


#85
sec-Butylbenzene
Concen: 55.852 ug/l
RT: 11.890 min Scan# 1772
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Tgt Ion:105 Resp: 291621

Ion	Ratio	Lower	Upper
105	100		
134	19.3	9.8	29.4





#86
p-Isopropyltoluene
Concen: 55.603 ug/l
RT: 12.006 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Tgt Ion:119 Resp: 23462

Ion	Ratio	Lower	Upper
119	100		
134	26.2	12.9	38.6
91	25.8	12.7	38.0

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MS

Manual Integrations
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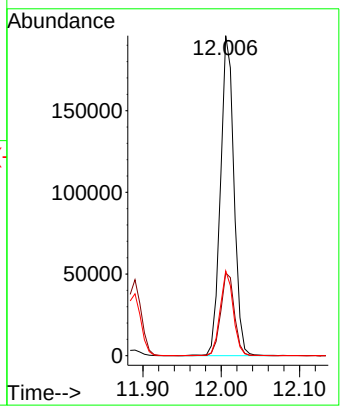
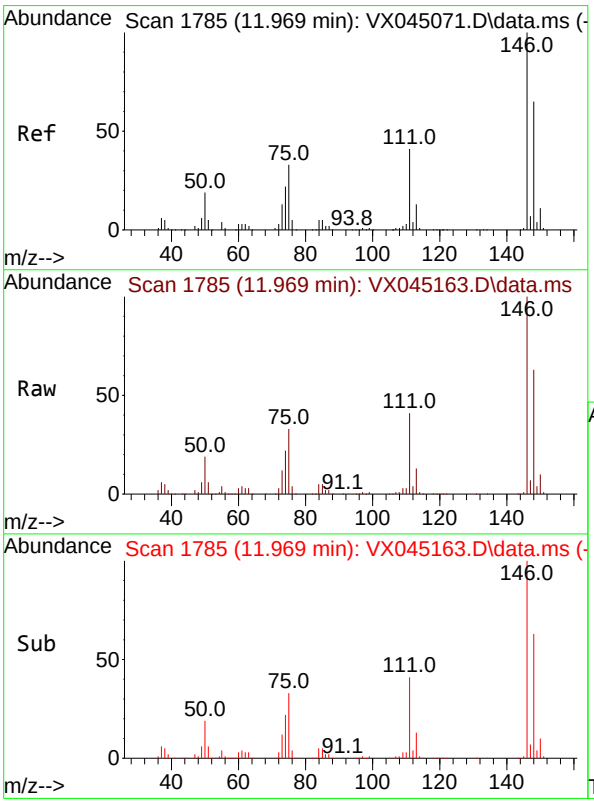
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

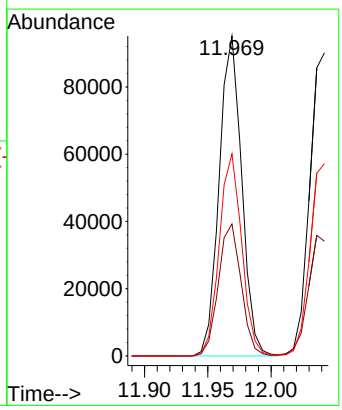


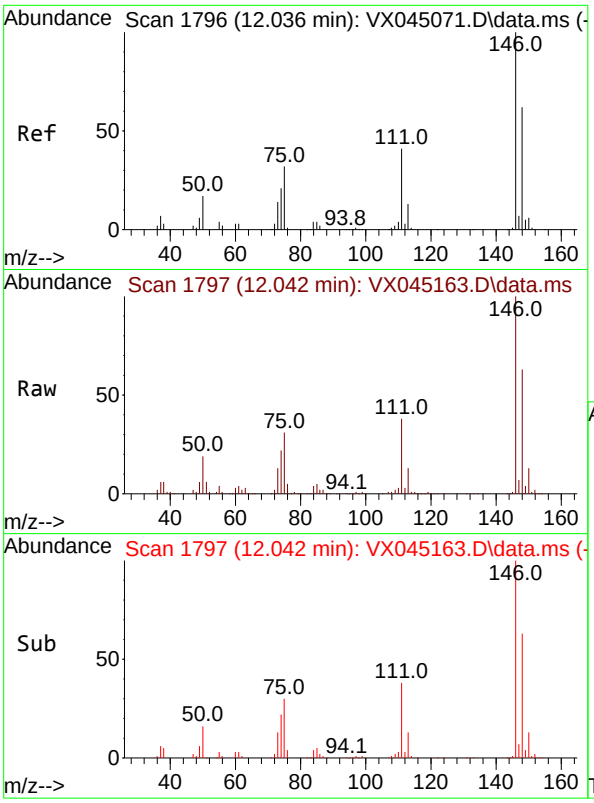


#87
1,3-Dichlorobenzene
Concen: 53.341 ug/l
RT: 11.969 min Scan# 1785
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Tgt Ion:146 Resp: 117796

Ion	Ratio	Lower	Upper
146	100		
111	41.7	21.1	63.4
148	63.0	31.9	95.7





#88
1,4-Dichlorobenzene
Concen: 51.585 ug/l
RT: 12.042 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Tgt Ion:146 Resp: 11525

Ion	Ratio	Lower	Upper
146	100		
111	40.5	20.2	60.5
148	64.0	31.9	95.9

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MS

Manual Integrations
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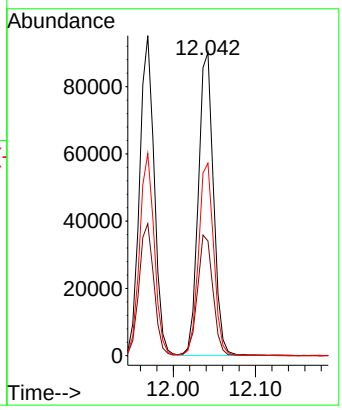
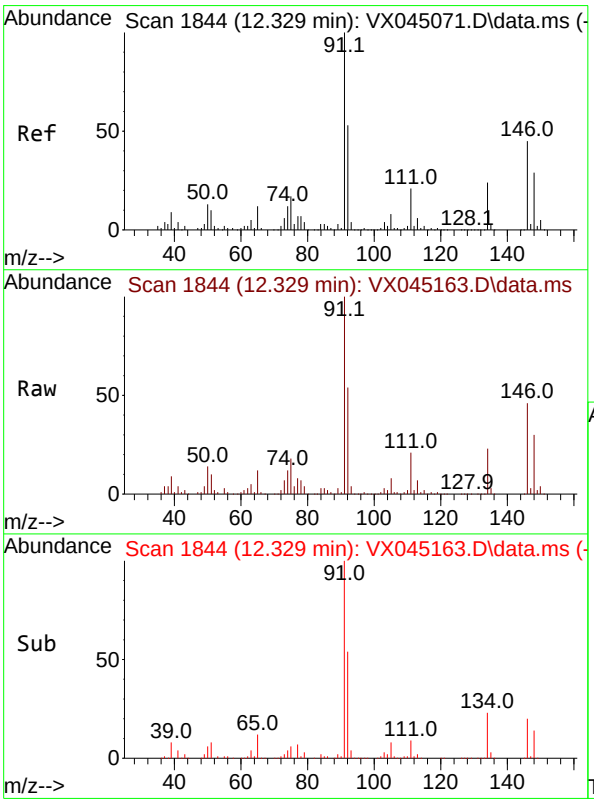
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

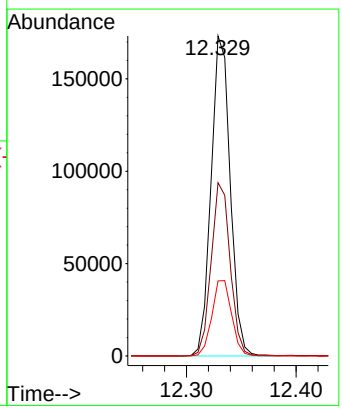


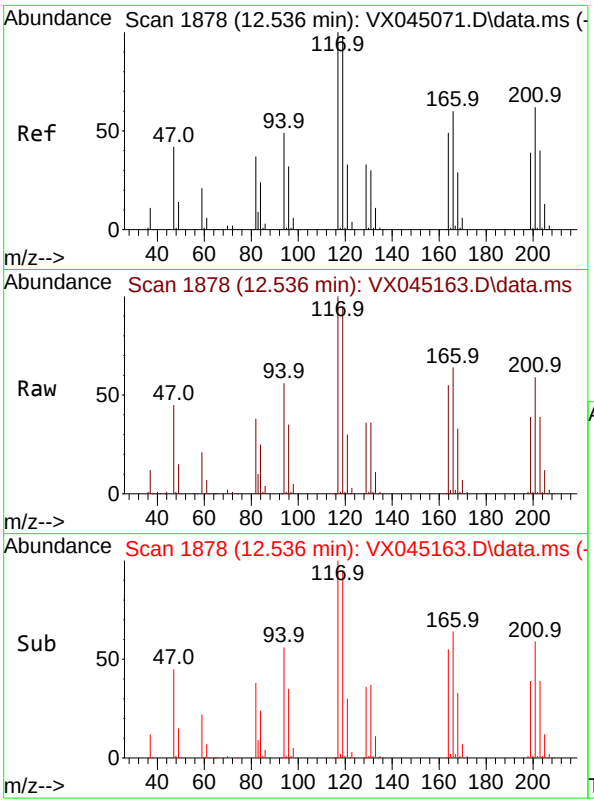


#89
n-Butylbenzene
Concen: 57.787 ug/l
RT: 12.329 min Scan# 1844
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Tgt Ion: 91 Resp: 210010

Ion	Ratio	Lower	Upper
91	100		
92	53.9	26.7	80.0
134	24.3	12.2	36.6





#90
Hexachloroethane
Concen: 50.874 ug/l
RT: 12.536 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Tgt Ion:117 Resp: 3882

Ion	Ratio	Lower	Upper
117	100		
201	63.7	31.9	95.9

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MS

Manual Integrations
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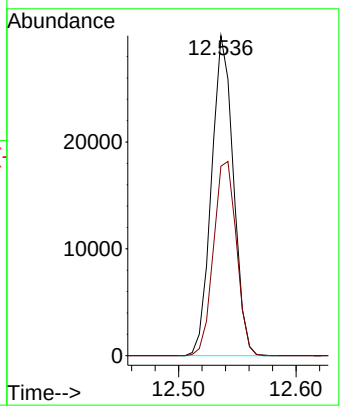
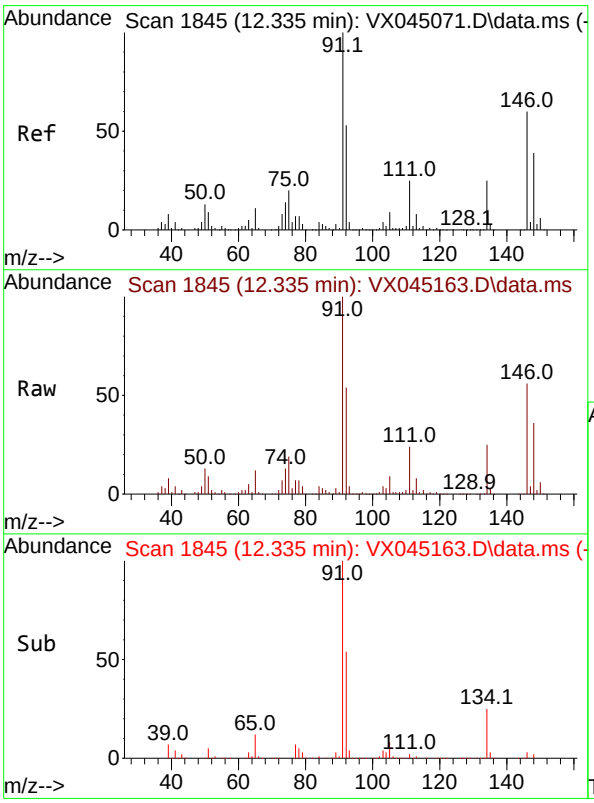
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

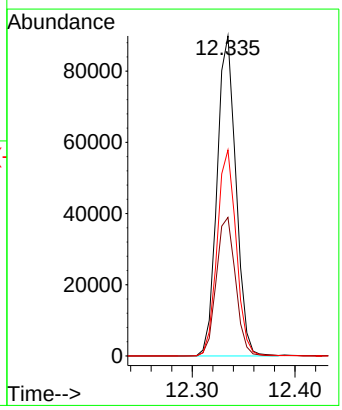


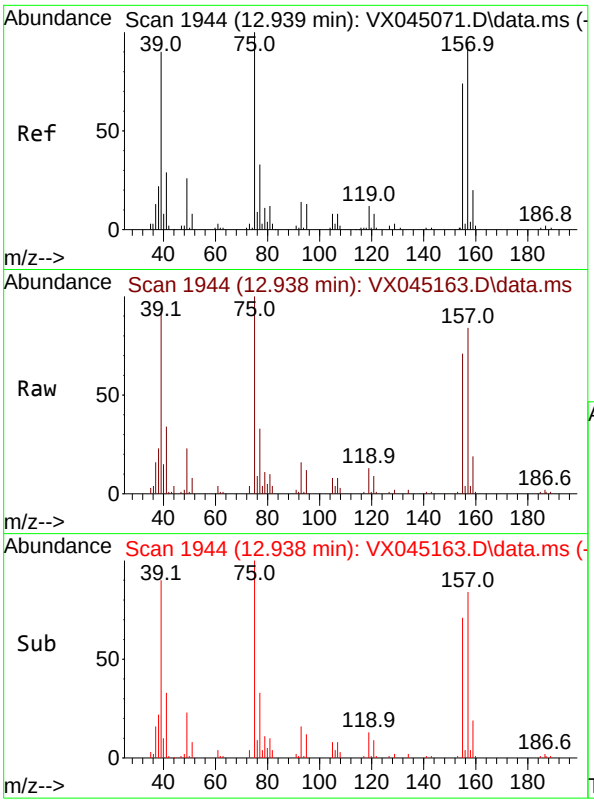


#91
1,2-Dichlorobenzene
Concen: 51.761 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Tgt Ion:146 Resp: 114665

Ion	Ratio	Lower	Upper
146	100		
111	44.2	21.6	65.0
148	64.9	31.9	95.9





#92
1,2-Dibromo-3-Chloropropane
Concen: 24.536 ug/l
RT: 12.938 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Tgt Ion: 75 Resp: 920

Ion	Ratio	Lower	Upper
75	100		
155	81.2	39.6	118.7
157	94.5	51.1	153.4

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MS

Manual Integrations
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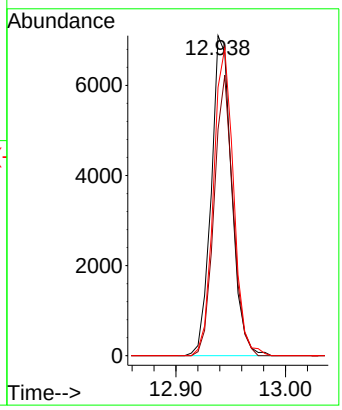
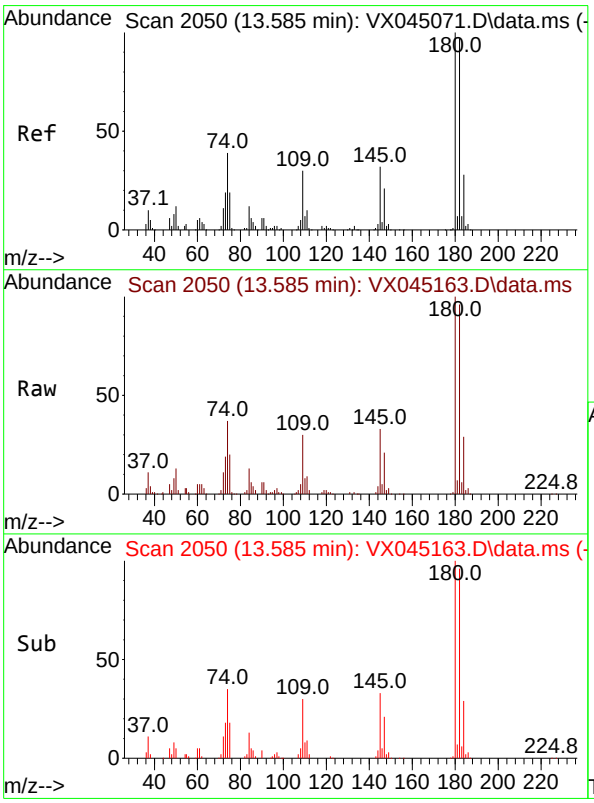
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

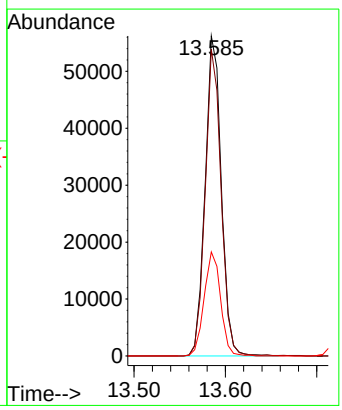


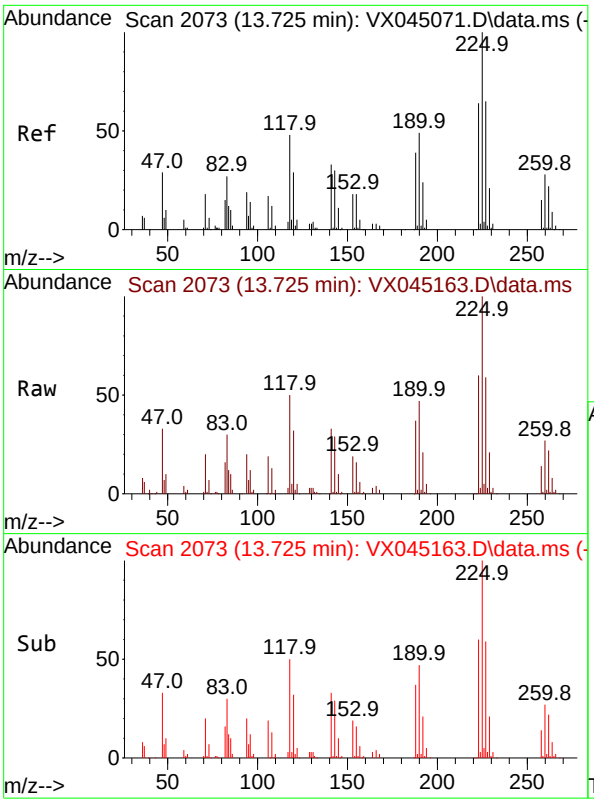


#93
1,2,4-Trichlorobenzene
Concen: 54.535 ug/l
RT: 13.585 min Scan# 2050
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Tgt Ion:180 Resp: 68791

Ion	Ratio	Lower	Upper
180	100		
182	94.4	47.3	141.9
145	33.2	16.3	48.9





#94
Hexachlorobutadiene
Concen: 54.226 ug/l
RT: 13.725 min Scan# 2(
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Tgt Ion:225 Resp: 2804

Ion	Ratio	Lower	Upper
225	100		
223	63.6	31.9	95.7
227	60.8	31.4	94.0

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MS

Manual Integrations
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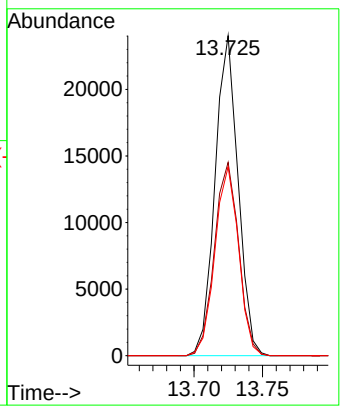
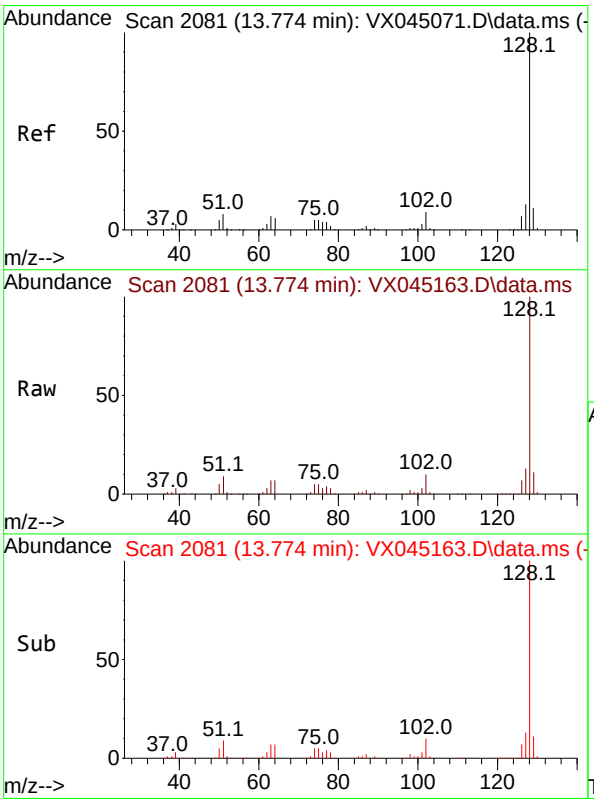
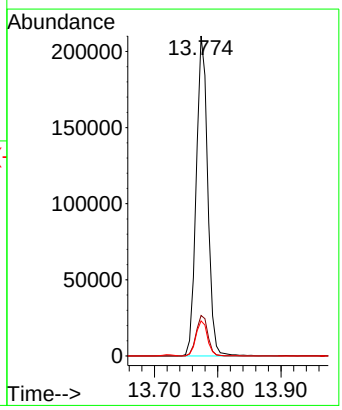


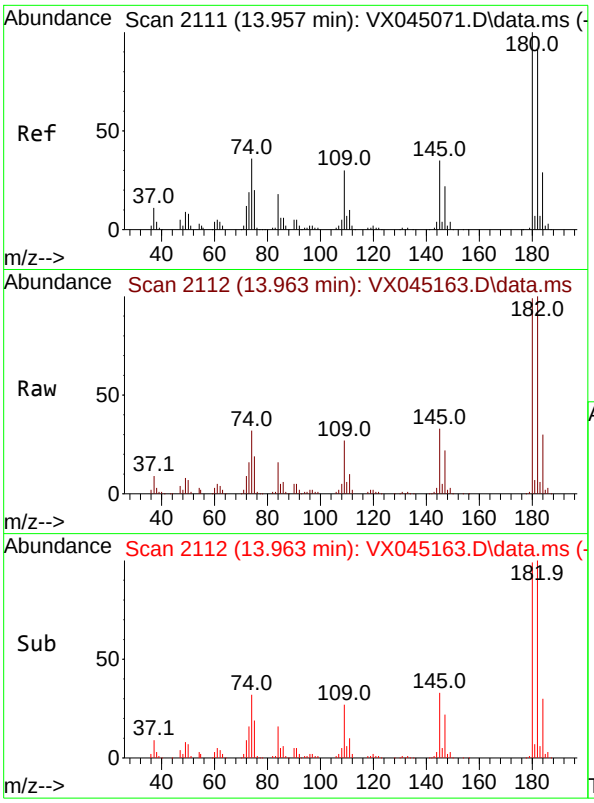


#95
Naphthalene
Concen: 54.845 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. -0.000 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Tgt Ion:128 Resp: 265803

Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.3	15.5
129	11.1	8.7	13.1

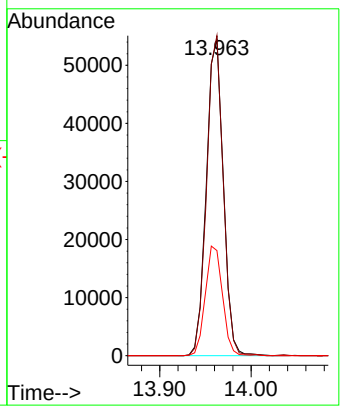




#96
1,2,3-Trichlorobenzene
Concen: 52.700 ug/l
RT: 13.963 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX045163.D
Acq: 06 Mar 2025 13:09

Tgt Ion:180 Resp: 7012

Ion	Ratio	Lower	Upper
180	100		
182	98.5	47.5	142.6
145	35.1	17.0	50.9



Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MS

Manual Integrations
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Supervised By :Mahesh Dadoda 03/10/2025

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	03/05/25
Project:	Former Schlumberger STC PTC Site # D3868221	Date Received:	03/05/25
Client Sample ID:	BR-05-465-030525MSD	SDG No.:	Q1501
Lab Sample ID:	Q1501-06MSD	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045164.D	1		03/06/25 13:33	VX030625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	43.3		0.34	1.00	ug/L
75-35-4	1,1-Dichloroethene	73.0		0.26	1.00	ug/L
75-34-3	1,1-Dichloroethane	48.8		0.23	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	48.8		0.25	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	49.4		0.19	1.00	ug/L
71-43-2	Benzene	49.0		0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	49.8		0.24	1.00	ug/L
79-01-6	Trichloroethene	91.5		0.32	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	15.6		0.21	1.00	ug/L
127-18-4	Tetrachloroethene	85.3		0.25	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.2		70 (74) - 130 (125)	98%	SPK: 50
1868-53-7	Dibromofluoromethane	0	*	70 (75) - 130 (124)	0%	SPK: 50
2037-26-5	Toluene-d8	48.1		70 (86) - 130 (113)	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.8		70 (77) - 130 (121)	98%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	101000	5.55			
540-36-3	1,4-Difluorobenzene	183000	6.757			
3114-55-4	Chlorobenzene-d5	155000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	68400	12.018			

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\VX030625\
Data File : VX045164.D
Acq On : 06 Mar 2025 13:33
Operator : JC/MD
Sample : Q1501-06MSD
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 07 00:41:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MSD

Manual Integrations APPROVED

Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	100565	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	182698	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	154927	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	68360	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	78636	49.159	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 98.320%			
35) Dibromofluoromethane	0.000	113	0d	0.000	ug/l	
Spiked Amount 50.000	Range 75 - 124		Recovery = 0.000%#			
50) Toluene-d8	8.647	98	212901	48.071	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 96.140%			
62) 4-Bromofluorobenzene	11.079	95	71643	48.816	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 97.640%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	52592	41.546	ug/l	96
3) Chloromethane	1.307	50	67681	43.689	ug/l	100
4) Vinyl Chloride	1.374	62	66508	43.277	ug/l	97
5) Bromomethane	1.593	94	27968	46.294	ug/l	96
6) Chloroethane	1.672	64	37111	52.353	ug/l	99
7) Trichlorofluoromethane	1.874	101	94521	46.461	ug/l	100
8) Diethyl Ether	2.136	74	36224	45.522	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.319	101	54209	46.379	ug/l	99
10) Methyl Iodide	2.447	142	73533	50.342	ug/l	99
11) Tert butyl alcohol	2.977	59	59447	196.197	ug/l	99
12) 1,1-Dichloroethene	2.313	96	90255	73.038	ug/l	96
13) Acrolein	2.233	56	16708	47.702	ug/l	98
14) Allyl chloride	2.660	41	111224	50.564	ug/l	98
15) Acrylonitrile	3.062	53	192121	236.583	ug/l	100
16) Acetone	2.380	43	261029	351.705	ug/l	100
17) Carbon Disulfide	2.502	76	86177	26.183	ug/l	99
18) Methyl Acetate	2.709	43	4472	2.505	ug/l #	88
19) Methyl tert-butyl Ether	3.117	73	204923	49.428	ug/l	100
20) Methylene Chloride	2.782	84	68883	46.854	ug/l	98
21) trans-1,2-Dichloroethene	3.087	96	60413	49.486	ug/l	97
22) Diisopropyl ether	3.757	45	212844	47.578	ug/l #	84
24) 1,1-Dichloroethane	3.605	63	122367	48.807	ug/l	100
25) 2-Butanone	4.556	43	316746	283.527	ug/l	99
26) 2,2-Dichloropropane	4.465	77	77718	66.088	ug/l	97
27) cis-1,2-Dichloroethene	4.489	96	73559	48.810	ug/l	96
28) Bromochloromethane	4.891	49	56433	47.224	ug/l	100
29) Tetrahydrofuran	5.001	42	186941	249.177	ug/l	99
30) Chloroform	5.086	83	121146	48.631	ug/l	99
31) Cyclohexane	5.464	56	98498	45.259	ug/l	98
32) 1,1,1-Trichloroethane	5.379	97	99374	49.391	ug/l	98
36) 1,1-Dichloropropene	5.690	75	80938	48.310	ug/l	100
38) Carbon Tetrachloride	5.672	117	80499	47.327	ug/l	99
39) Methylcyclohexane	7.373	83	90498	45.080	ug/l	98
40) Benzene	6.031	78	259017	48.959	ug/l	98
41) Methacrylonitrile	4.916	41	59324	50.821	ug/l	97
42) 1,2-Dichloroethane	6.080	62	94946	49.838	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
Data File : VX045164.D
Acq On : 06 Mar 2025 13:33
Operator : JC/MD
Sample : Q1501-06MSD
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 07 00:41:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MSD

Manual Integrations APPROVED

Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
44) Trichloroethene	7.123	130	113651	91.488 ug/l	99
45) 1,2-Dichloropropane	7.428	63	65772	48.354 ug/l	98
46) Dibromomethane	7.580	93	48250	50.186 ug/l	99
47) Bromodichloromethane	7.818	83	65772	34.877 ug/l	98
49) 1,4-Dioxane	7.659	88	29006	858.601 ug/l #	94
51) 4-Methyl-2-Pentanone	8.574	43	554203	258.557 ug/l	99
52) Toluene	8.714	92	180949	58.295 ug/l	99
53) t-1,3-Dichloropropene	8.976	75	80501	51.062 ug/l	100
54) cis-1,3-Dichloropropene	8.366	75	92567	50.352 ug/l	98
55) 1,1,2-Trichloroethane	9.147	97	19996	15.648 ug/l	97
57) 1,3-Dichloropropane	9.305	76	107755	48.727 ug/l	98
58) 2-Chloroethyl Vinyl ether	8.238	63	266560	281.323 ug/l	99
59) 2-Hexanone	9.427	43	411304	264.842 ug/l	99
60) Dibromochloromethane	9.519	129	54948	41.126 ug/l	99
61) 1,2-Dibromoethane	9.610	107	62043	48.636 ug/l	100
64) Tetrachloroethene	9.269	164	84629	85.290 ug/l	99
65) Chlorobenzene	10.079	112	163317	49.819 ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.159	131	45565	41.737 ug/l	98
67) Ethyl Benzene	10.189	91	291242	50.987 ug/l	99
68) m/p-Xylenes	10.299	106	215055	102.845 ug/l	100
69) o-Xylene	10.640	106	106073	50.296 ug/l	99
70) Styrene	10.653	104	175907	51.549 ug/l	99
71) Bromoform	10.799	173	39363	47.814 ug/l #	99
73) Isopropylbenzene	10.957	105	270349	50.668 ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	73469m	46.175 ug/l	
77) Bromobenzene	11.195	156	62298	49.485 ug/l	100
78) n-propylbenzene	11.299	91	313137	51.952 ug/l	99
79) 2-Chlorotoluene	11.360	91	187387	48.816 ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	219930	50.977 ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	22368	48.110 ug/l	93
82) 4-Chlorotoluene	11.451	91	210926	50.418 ug/l	100
83) tert-Butylbenzene	11.713	119	191439	43.186 ug/l	90
84) 1,2,4-Trimethylbenzene	11.750	105	224549	51.727 ug/l	100
85) sec-Butylbenzene	11.890	105	274996	51.789 ug/l	99
86) p-Isopropyltoluene	12.006	119	222566	51.865 ug/l	100
87) 1,3-Dichlorobenzene	11.969	146	111489	49.643 ug/l	100
88) 1,4-Dichlorobenzene	12.036	146	109759	48.307 ug/l	99
89) n-Butylbenzene	12.329	91	198557	53.723 ug/l	99
90) Hexachloroethane	12.536	117	38087	49.070 ug/l	98
91) 1,2-Dichlorobenzene	12.335	146	110193	48.912 ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.939	75	6556	17.187 ug/l	96
93) 1,2,4-Trichlorobenzene	13.585	180	64085	49.957 ug/l	99
94) Hexachlorobutadiene	13.725	225	25380	48.257 ug/l	98
95) Naphthalene	13.774	128	258663	52.481 ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	68914	50.923 ug/l	98

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

Quantitation Report (QT Reviewed)

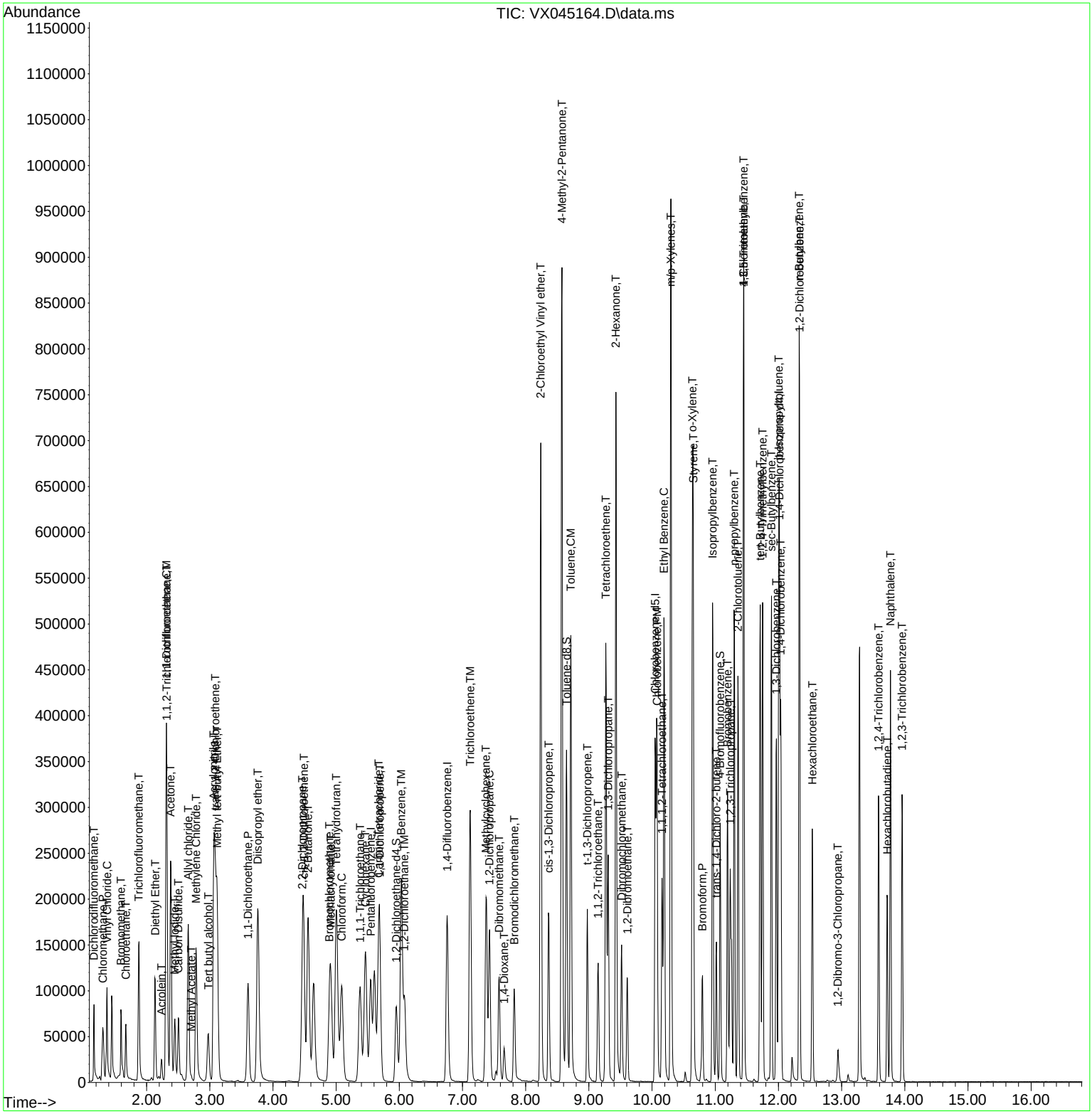
Sample Results: **VX045164.D**

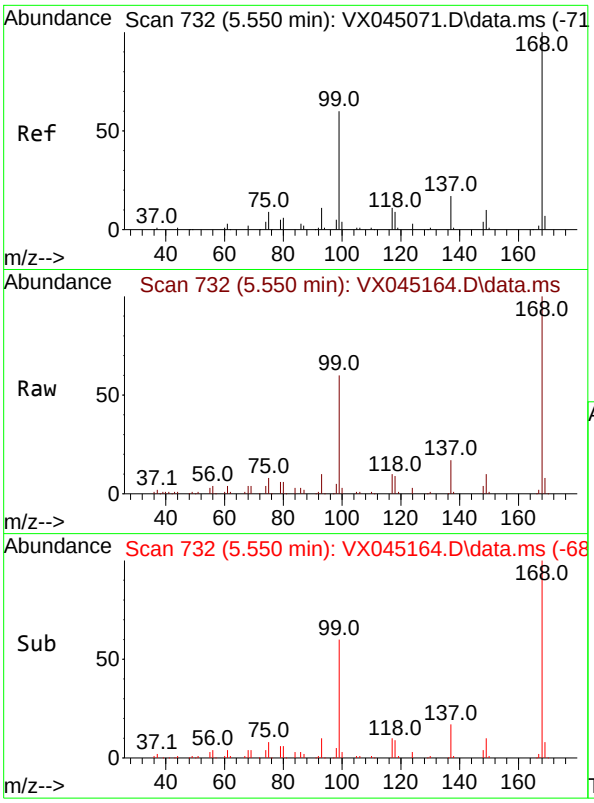
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030625\
Data File : VX045164.D
Acq On : 06 Mar 2025 13:33
Operator : JC/MD
Sample : Q1501-06MSD
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 07 00:41:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X022825W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 28 06:45:16 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MSD

Manual Integrations
APPROVED
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

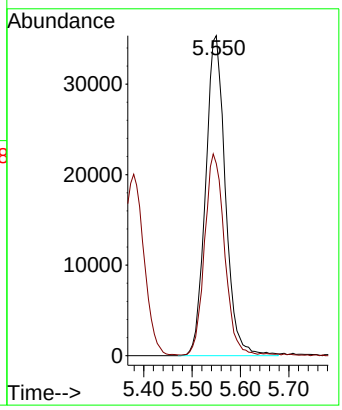
Tgt Ion:168 Resp: 10056

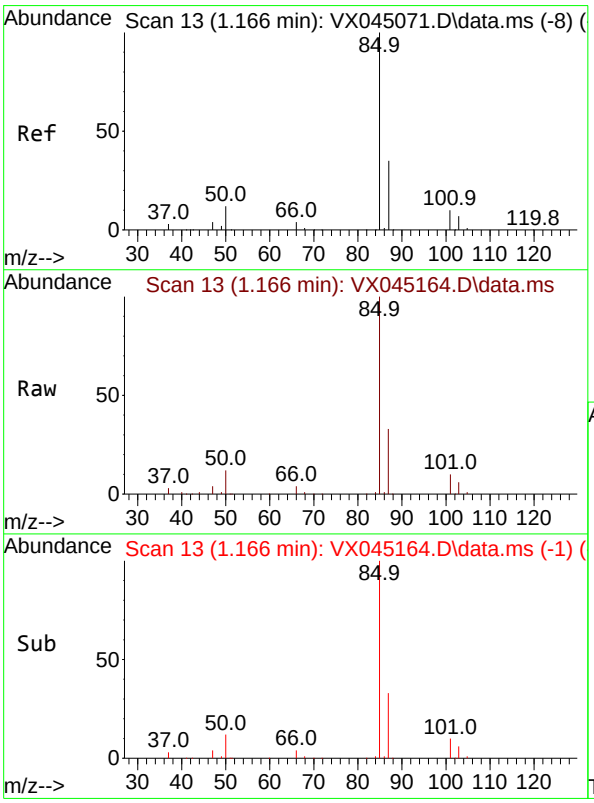
Ion	Ratio	Lower	Upper
168	100		
99	59.8	48.2	72.4

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

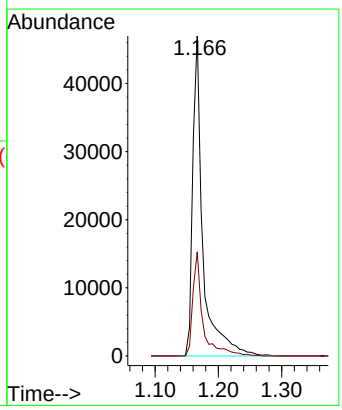


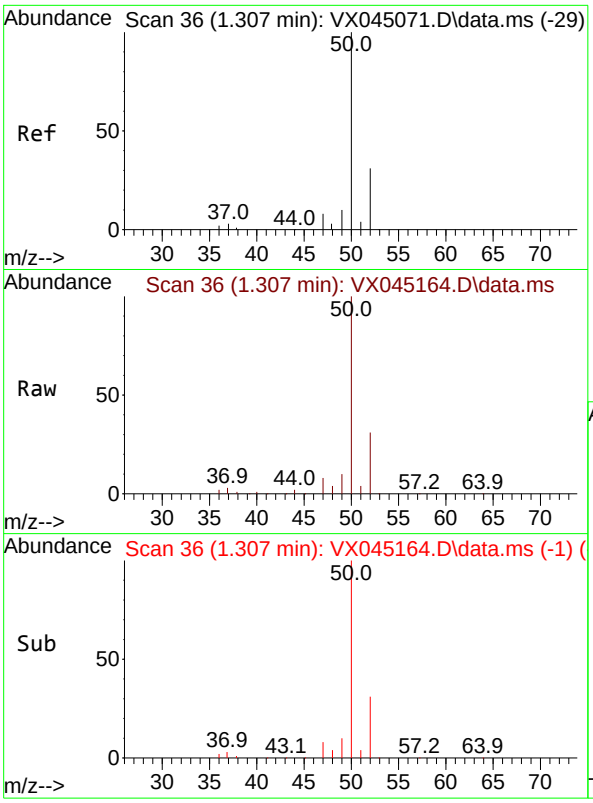


#2
Dichlorodifluoromethane
Concen: 41.546 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion: 85 Resp: 52592

Ion	Ratio	Lower	Upper
85	100		
87	32.5	17.4	52.3





#3
Chloromethane
Concen: 43.689 ug/l
RT: 1.307 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

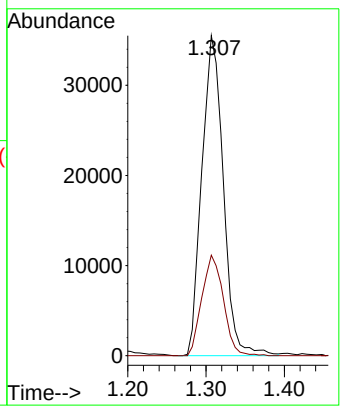
Tgt Ion: 50 Resp: 6768

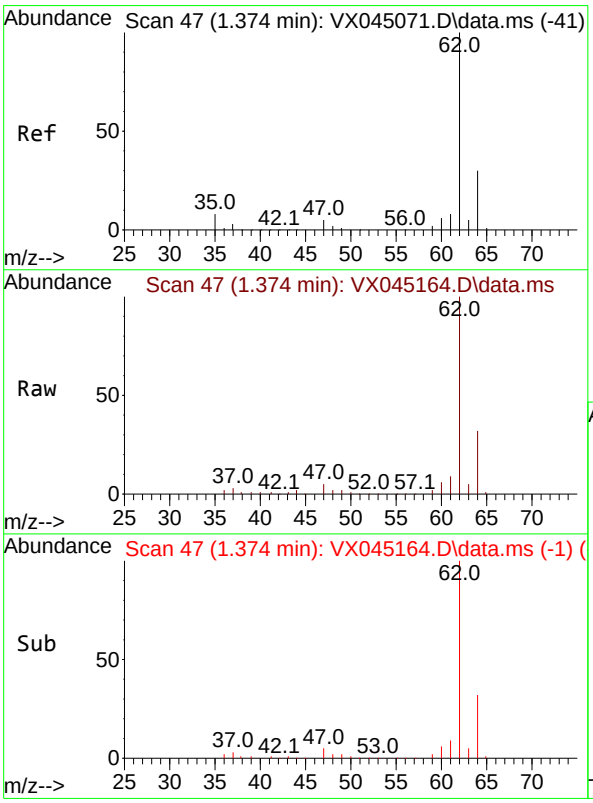
Ion	Ratio	Lower	Upper
50	100		
52	31.4	25.0	37.4

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

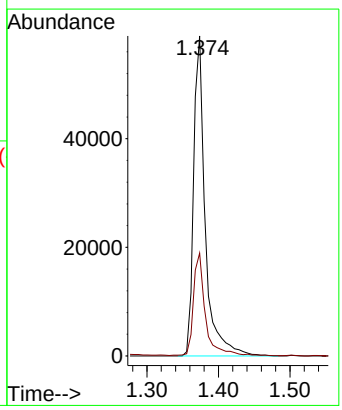


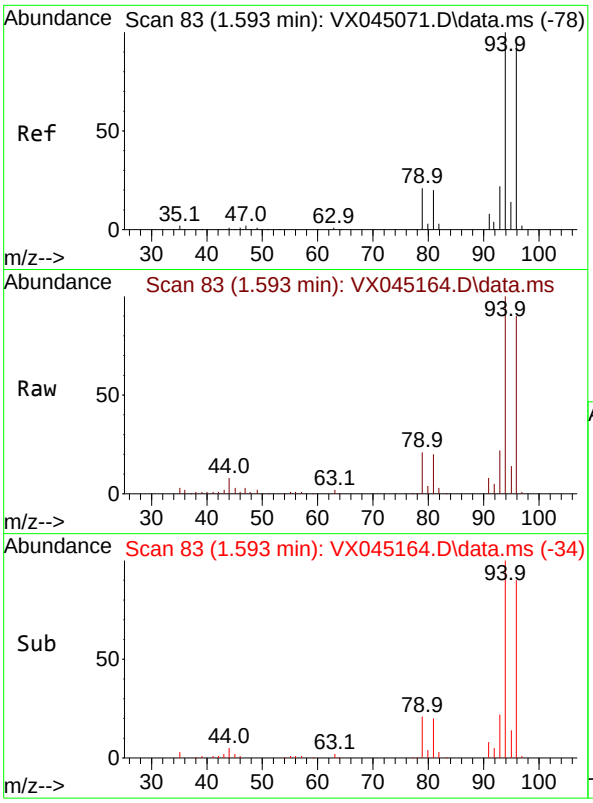


#4
Vinyl Chloride
Concen: 43.277 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion: 62 Resp: 66508

Ion	Ratio	Lower	Upper
62	100		
64	32.1	24.3	36.5





#5
Bromomethane
Concen: 46.294 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

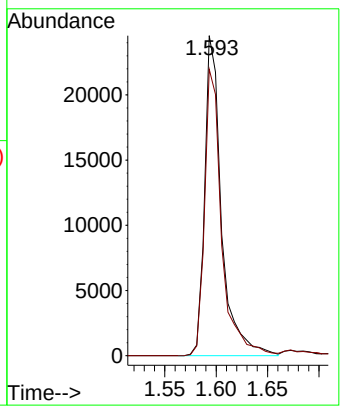
Tgt Ion: 94 Resp: 2796

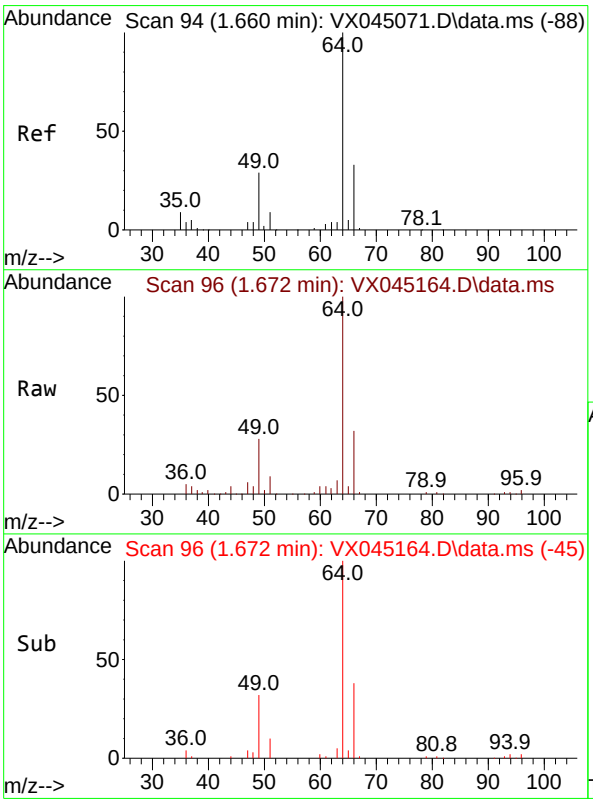
Ion	Ratio	Lower	Upper
94	100		
96	89.5	75.0	112.4

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

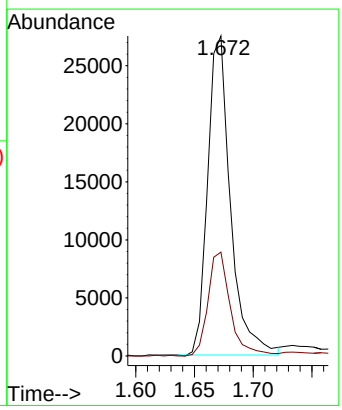


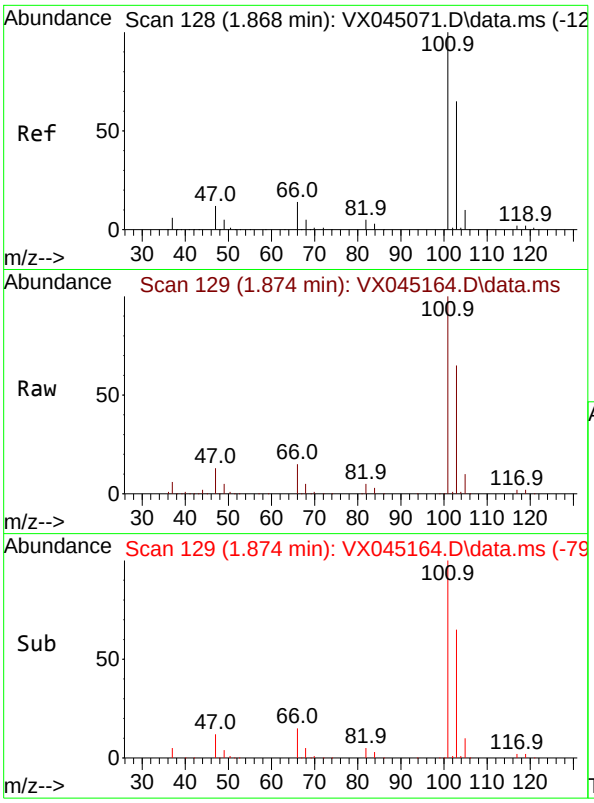


#6
Chloroethane
Concen: 52.353 ug/l
RT: 1.672 min Scan# 96
Delta R.T. 0.012 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion: 64 Resp: 37111

Ion	Ratio	Lower	Upper
64	100		
66	32.5	26.7	40.1





#7
Trichlorofluoromethane
Concen: 46.461 ug/l
RT: 1.874 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

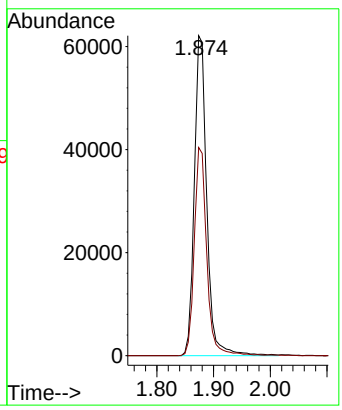
Tgt Ion:101 Resp: 9452

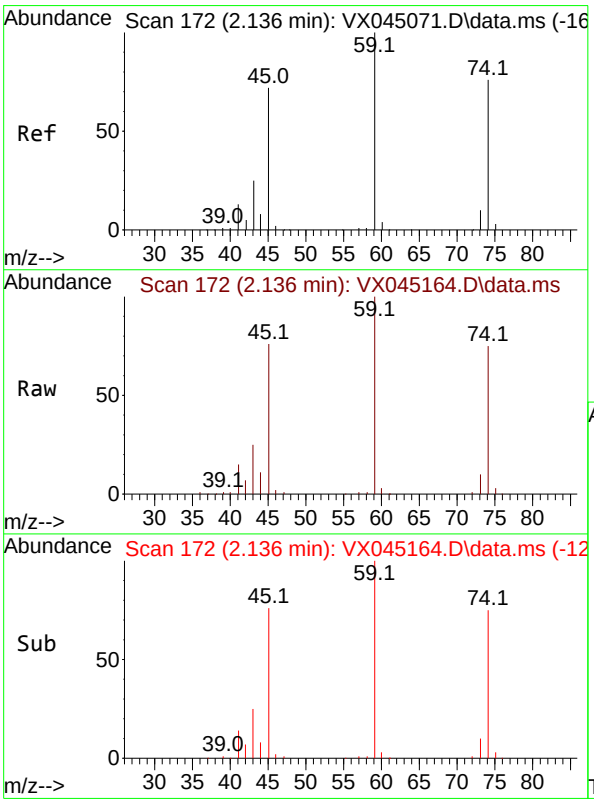
Ion	Ratio	Lower	Upper
101	100		
103	65.0	52.1	78.1

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

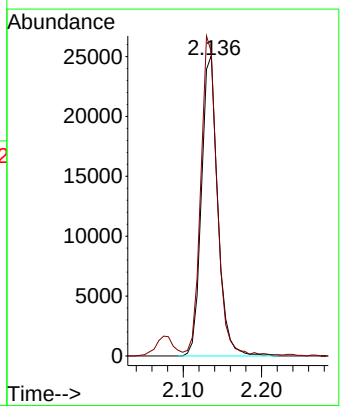


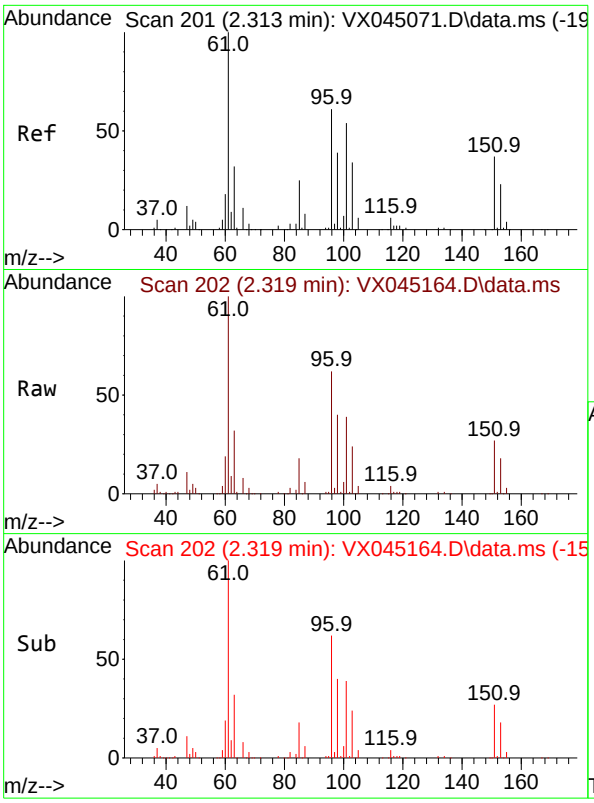


#8
Diethyl Ether
Concen: 45.522 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion: 74 Resp: 36224

Ion	Ratio	Lower	Upper
74	100		
45	106.3	51.5	154.5





#9
1,1,2-Trichlorotrifluoroethane
Concen: 46.379 ug/l
RT: 2.319 min Scan# 2(
Delta R.T. 0.006 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

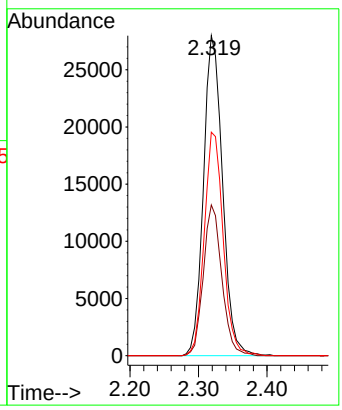
Tgt Ion:101 Resp: 5420

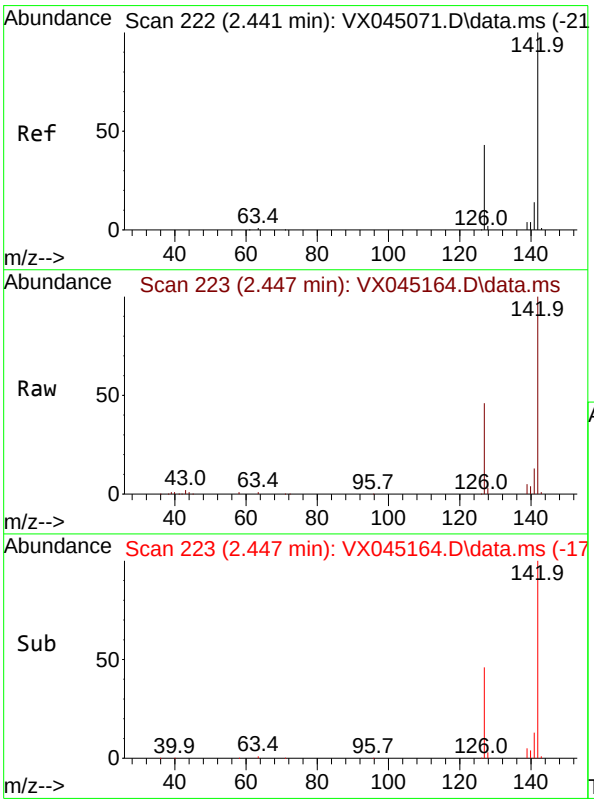
Ion	Ratio	Lower	Upper
101	100		
85	45.5	36.2	54.4
151	69.1	56.4	84.6

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

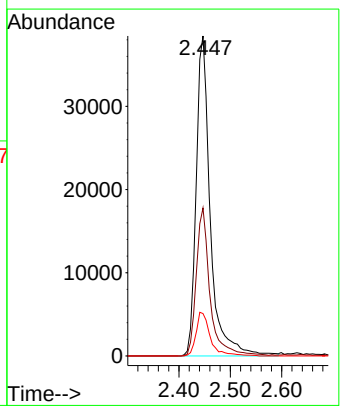


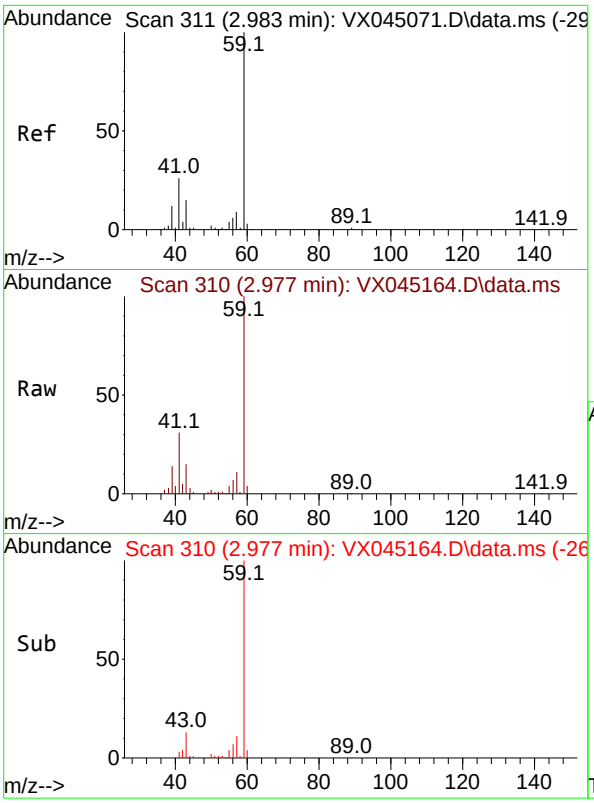


#10
Methyl Iodide
Concen: 50.342 ug/l
RT: 2.447 min Scan# 223
Delta R.T. 0.006 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion:142 Resp: 73533

Ion	Ratio	Lower	Upper
142	100		
127	45.2	35.4	53.2
141	13.8	11.6	17.4





#11
Tert butyl alcohol
Concen: 196.197 ug/l
RT: 2.977 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

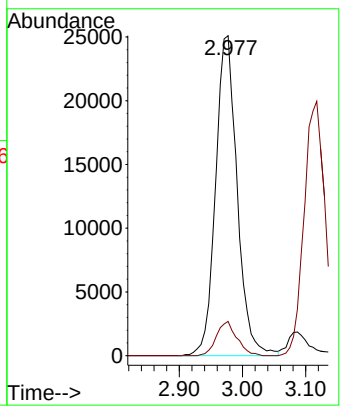
Tgt Ion: 59 Resp: 5944

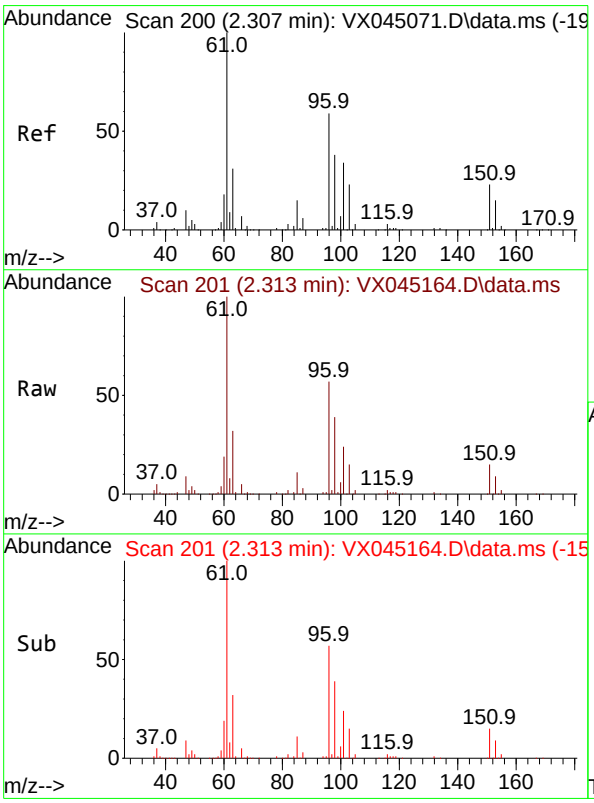
Ion	Ratio	Lower	Upper
59	100		
57	10.2	7.8	11.8

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

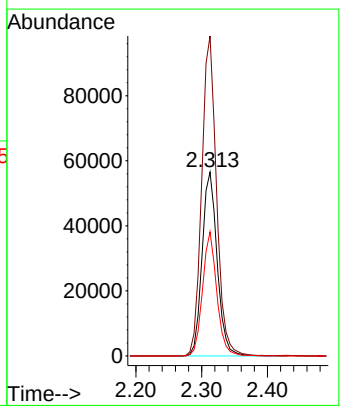


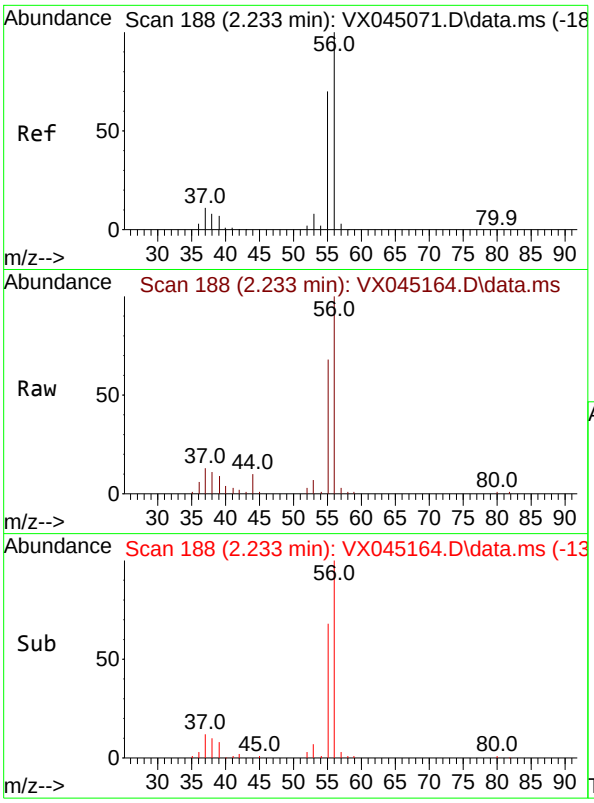


#12
1,1-Dichloroethene
Concen: 73.038 ug/l
RT: 2.313 min Scan# 201
Delta R.T. 0.006 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion: 96 Resp: 90255

Ion	Ratio	Lower	Upper
96	100		
61	174.0	134.6	202.0
98	67.5	51.0	76.6





#13
Acrolein
Concen: 47.702 ug/l
RT: 2.233 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion: 56 Resp: 1670

Ion	Ratio	Lower	Upper
56	100		
55	72.2	56.2	84.4

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MSD

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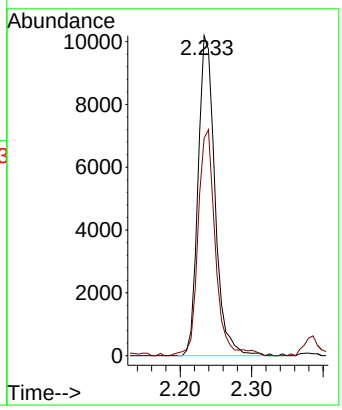
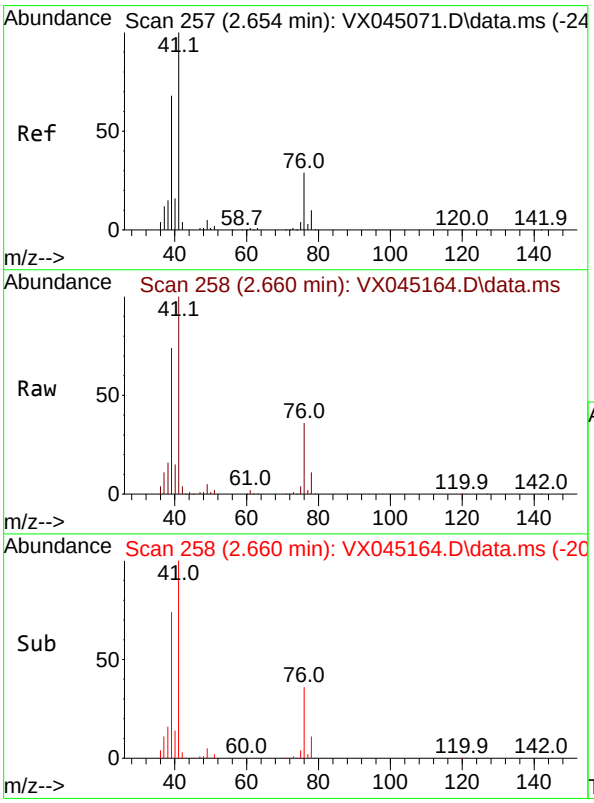
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

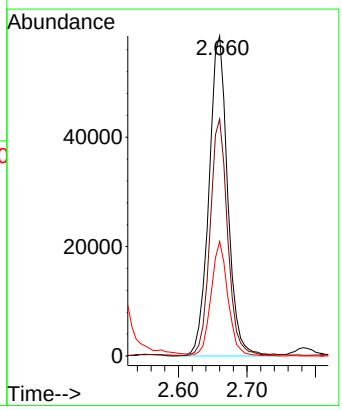


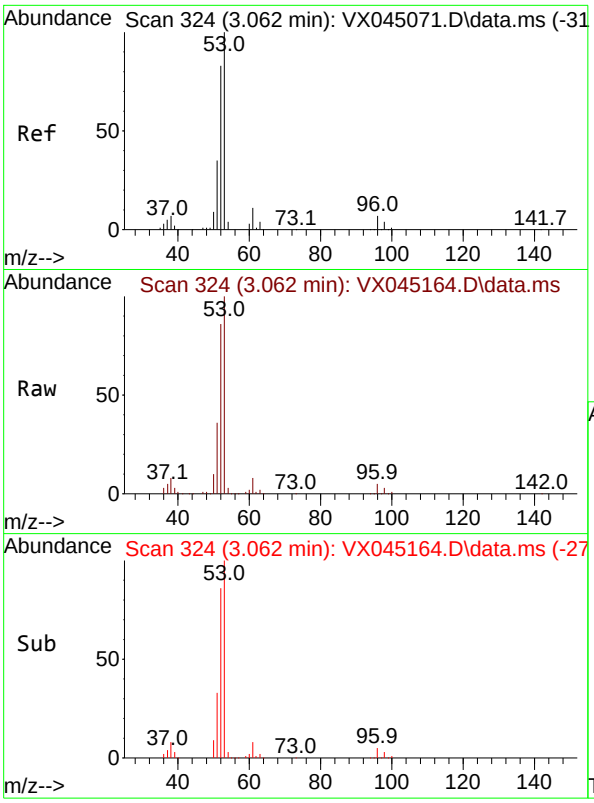


#14
Allyl chloride
Concen: 50.564 ug/l
RT: 2.660 min Scan# 258
Delta R.T. 0.006 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion: 41 Resp: 111224

Ion	Ratio	Lower	Upper
41	100		
39	68.8	53.8	80.8
76	32.4	25.2	37.8





#15
Acrylonitrile
Concen: 236.583 ug/l
RT: 3.062 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion: 53 Resp: 19212

Ion	Ratio	Lower	Upper
53	100		
52	83.1	66.2	99.2
51	36.4	29.0	43.4

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MSD

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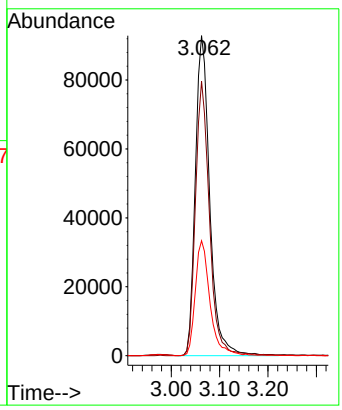
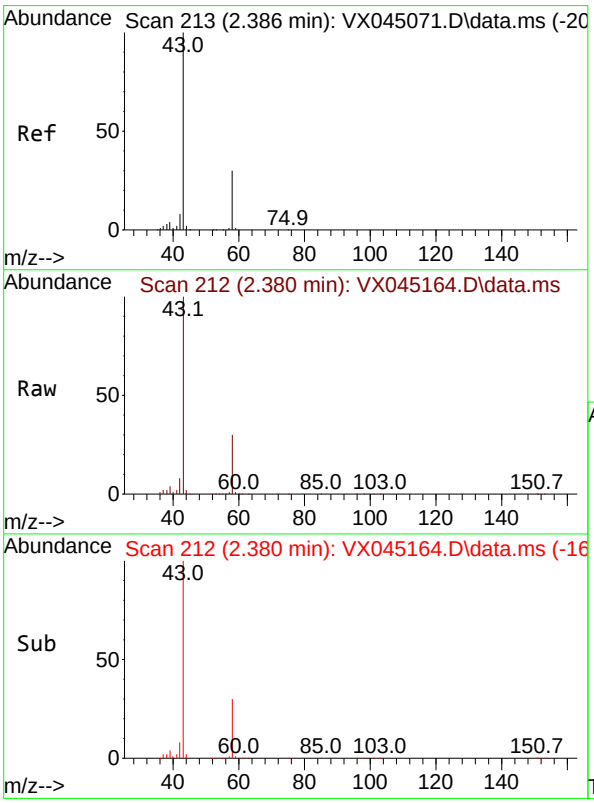
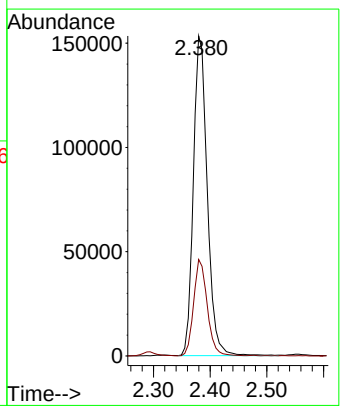


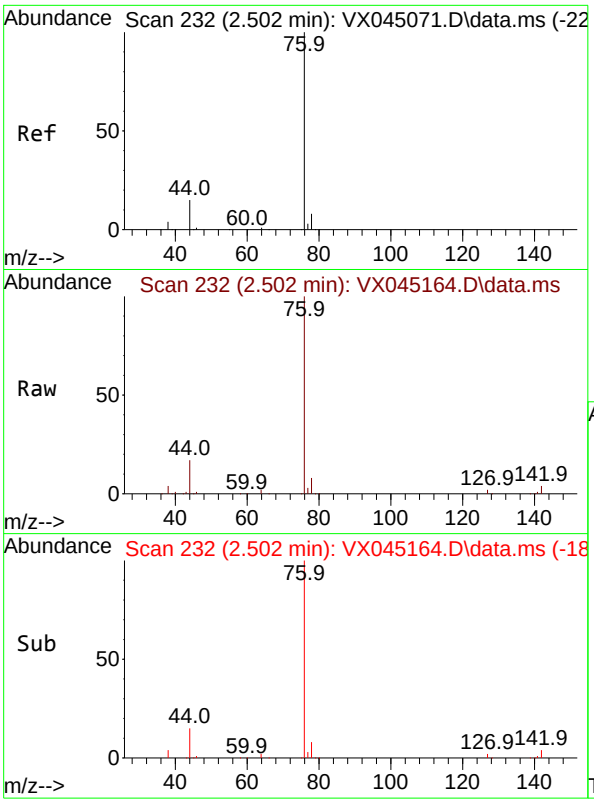


#16
Acetone
Concen: 351.705 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion: 43 Resp: 261029

Ion	Ratio	Lower	Upper
43	100		
58	30.1	24.2	36.4





#17
Carbon Disulfide
Concen: 26.183 ug/l
RT: 2.502 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion: 76 Resp: 8617

Ion	Ratio	Lower	Upper
76	100		
78	8.5	6.6	9.8

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MSD

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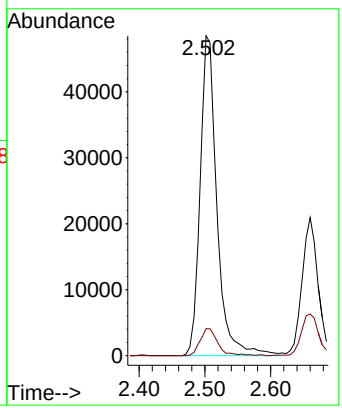
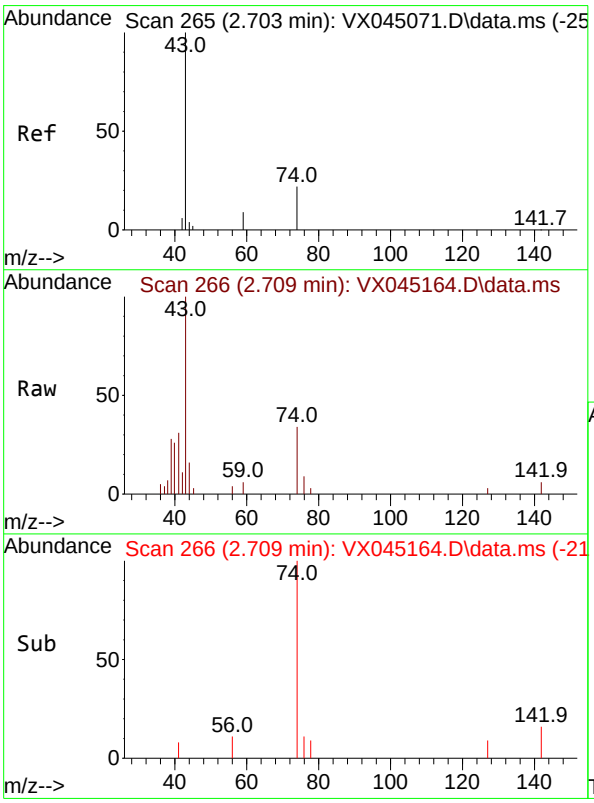
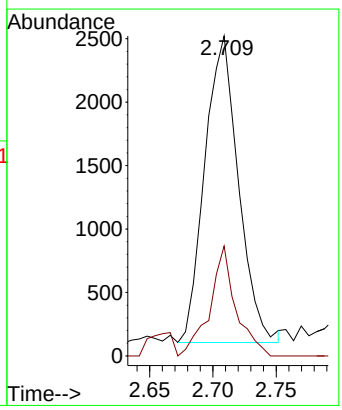


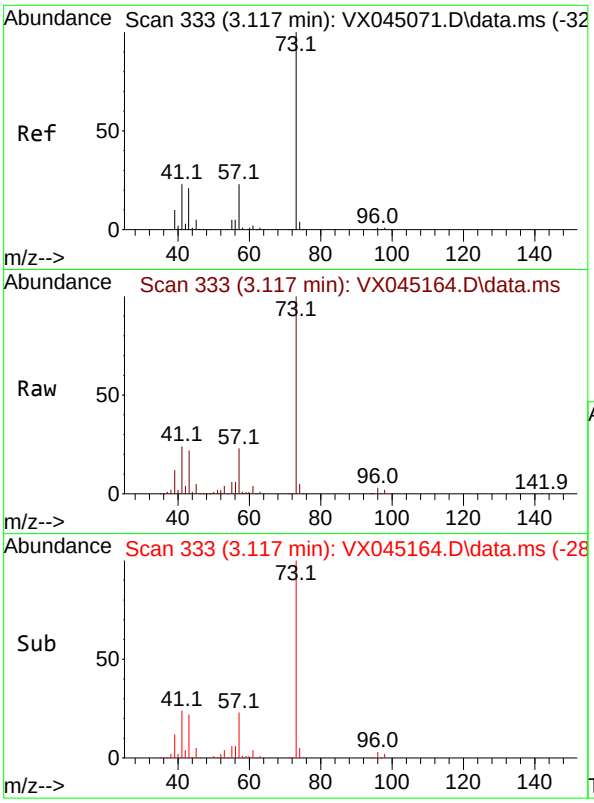


#18
Methyl Acetate
Concen: 2.505 ug/l
RT: 2.709 min Scan# 266
Delta R.T. 0.006 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion: 43 Resp: 4472

Ion	Ratio	Lower	Upper
43	100		
74	27.5	17.4	26.2#





#19
Methyl tert-butyl Ether
Concen: 49.428 ug/l
RT: 3.117 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion: 73 Resp: 20492

Ion	Ratio	Lower	Upper
73	100		
57	23.0	18.5	27.7

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MSD

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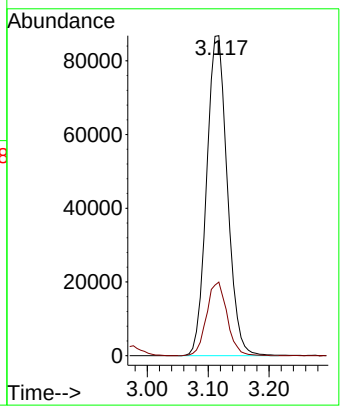
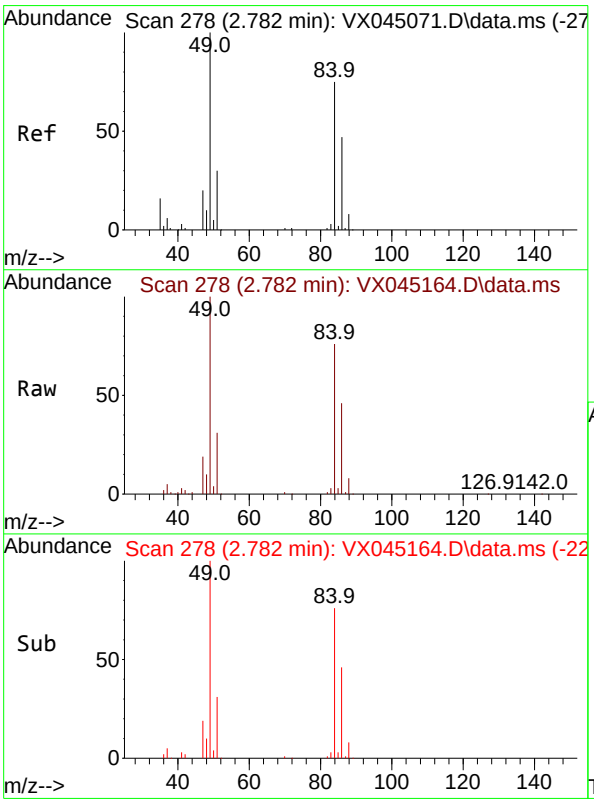
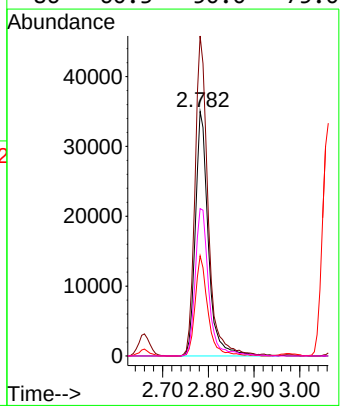


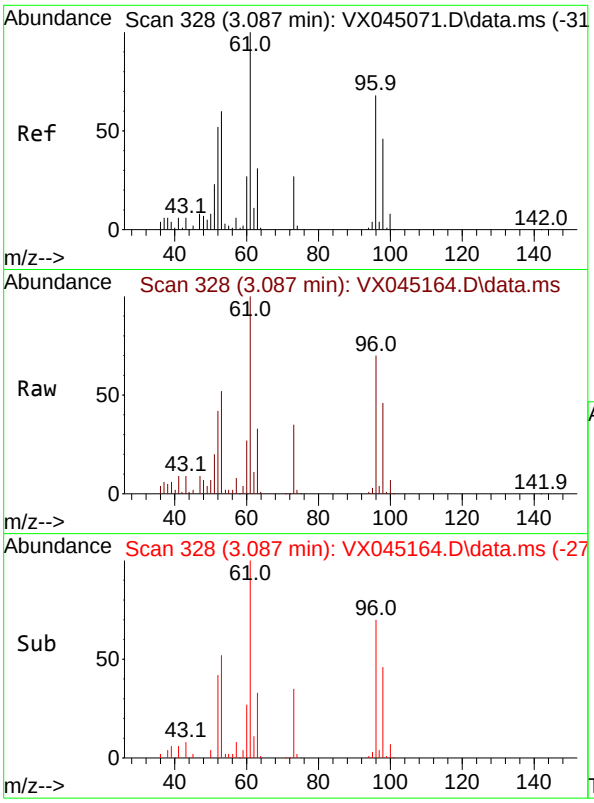


#20
Methylene Chloride
Concen: 46.854 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion: 84 Resp: 68883

Ion	Ratio	Lower	Upper
84	100		
49	130.9	106.5	159.7
51	40.9	32.1	48.1
86	60.3	50.0	75.0





#21
trans-1,2-Dichloroethene
Concen: 49.486 ug/l
RT: 3.087 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion: 96 Resp: 6041

Ion	Ratio	Lower	Upper
96	100		
61	142.8	117.0	175.4
98	65.1	53.4	80.2

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MSD

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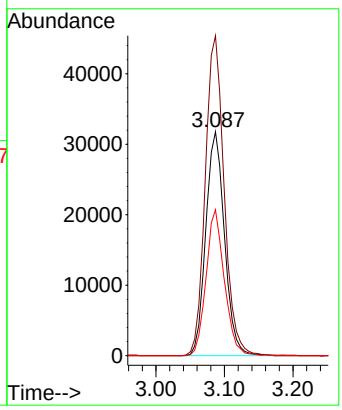
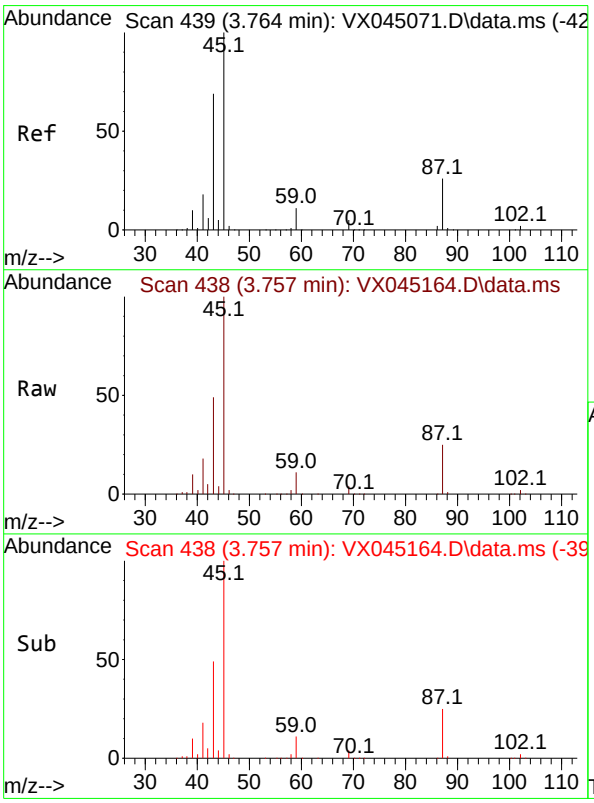
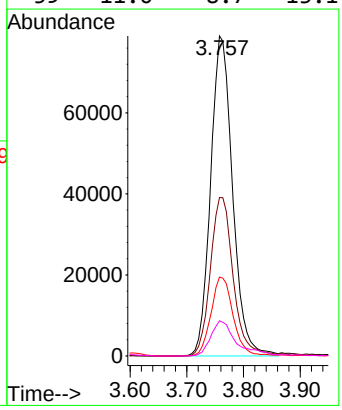


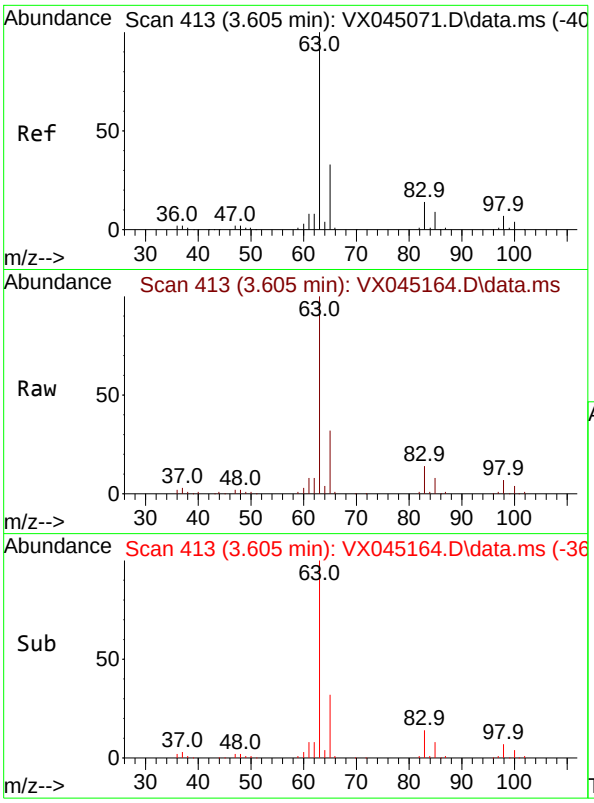


#22
Diisopropyl ether
Concen: 47.578 ug/l
RT: 3.757 min Scan# 438
Delta R.T. -0.006 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion: 45 Resp: 212844

Ion	Ratio	Lower	Upper
45	100		
43	49.5	54.9	82.3#
87	24.7	21.0	31.4
59	11.0	8.7	13.1





#24
1,1-Dichloroethane
Concen: 48.807 ug/l
RT: 3.605 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion: 63 Resp: 12236

Ion	Ratio	Lower	Upper
63	100		
98	7.0	3.4	10.2
100	4.4	2.1	6.5

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MSD

Manual Integrations
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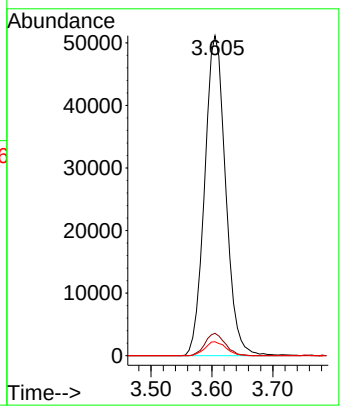
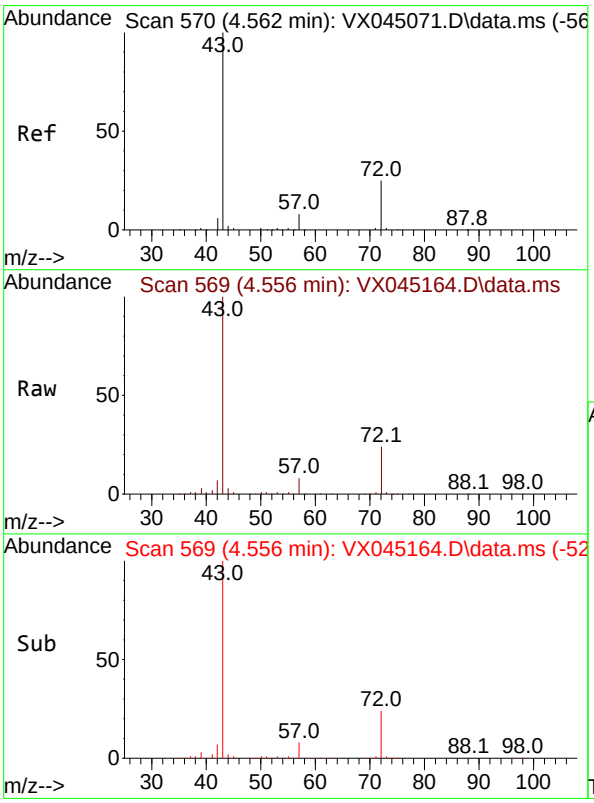
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

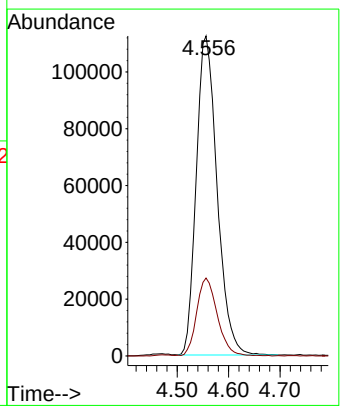


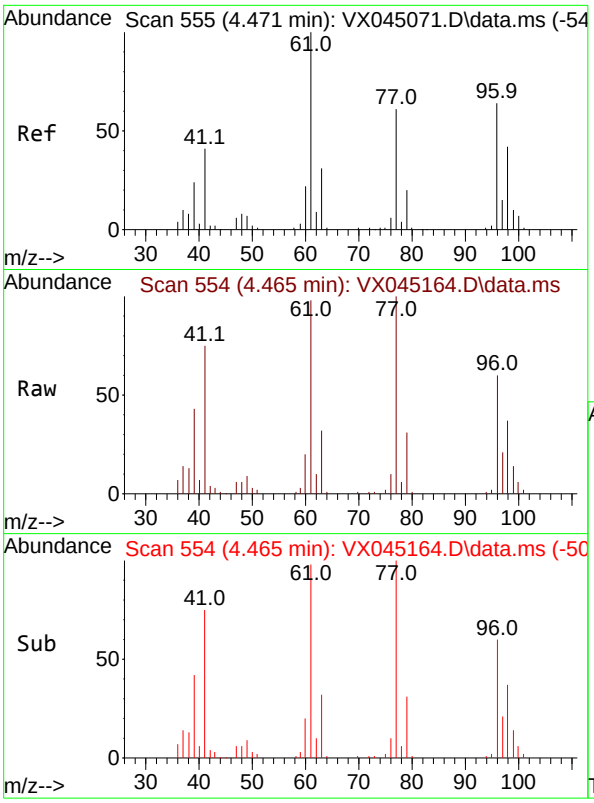


#25
2-Butanone
Concen: 283.527 ug/l
RT: 4.556 min Scan# 569
Delta R.T. -0.006 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion: 43 Resp: 316746

Ion	Ratio	Lower	Upper
43	100		
72	24.3	20.0	30.0





#26
2,2-Dichloropropane
Concen: 66.088 ug/l
RT: 4.465 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion: 77 Resp: 7771

Ion	Ratio	Lower	Upper
77	100		
97	23.1	12.4	37.0

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MSD

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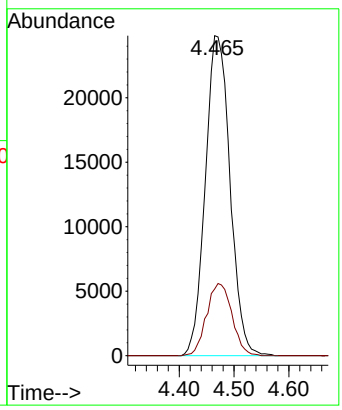
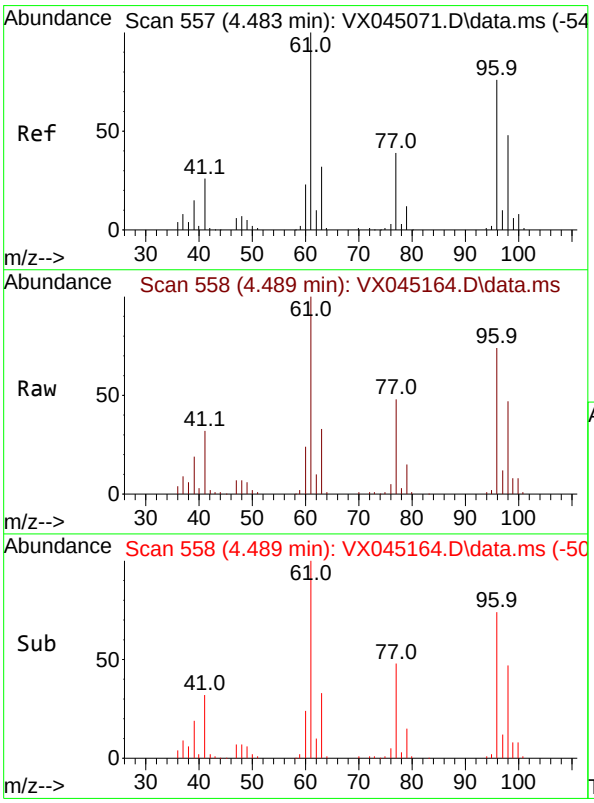
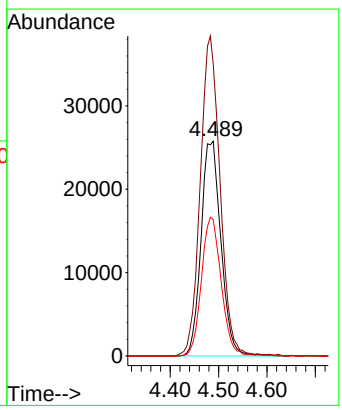


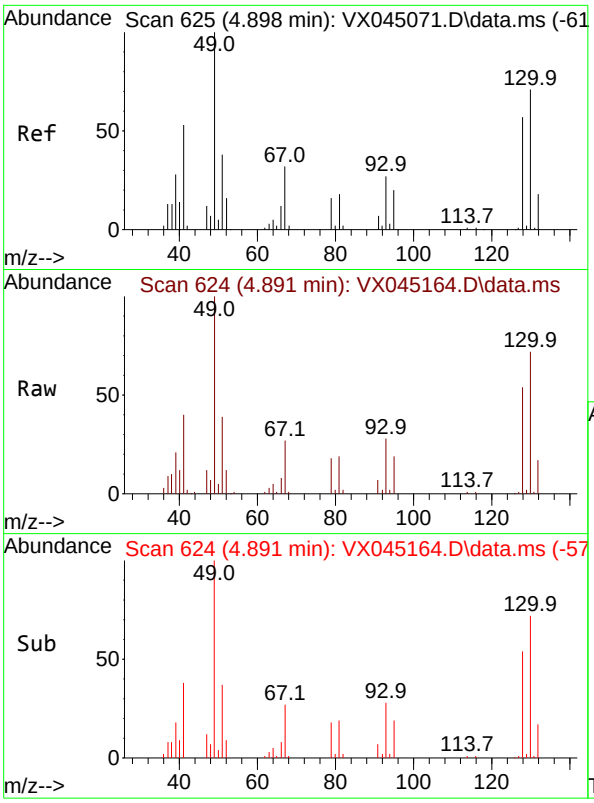


#27
cis-1,2-Dichloroethene
Concen: 48.810 ug/l
RT: 4.489 min Scan# 558
Delta R.T. 0.006 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion: 96 Resp: 73559

Ion	Ratio	Lower	Upper
96	100		
61	148.4	0.0	283.2
98	64.0	0.0	128.0





#28
Bromochloromethane
Concen: 47.224 ug/l
RT: 4.891 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion: 49 Resp: 5643

Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	3.4
130	70.1	56.1	84.1

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MSD

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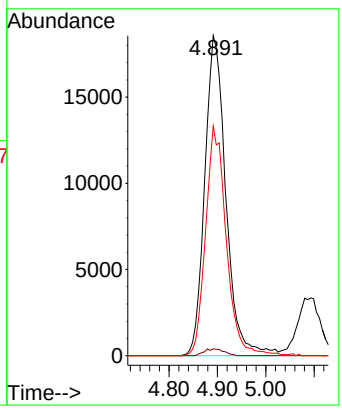
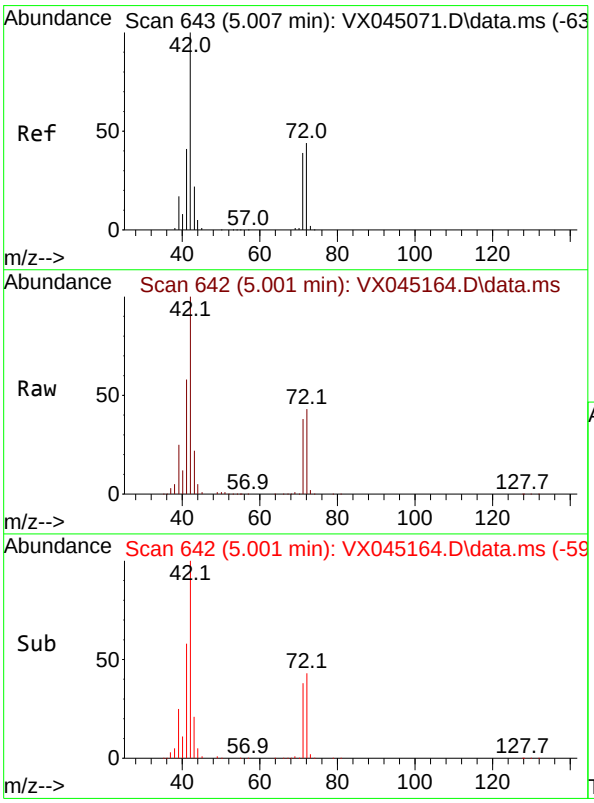
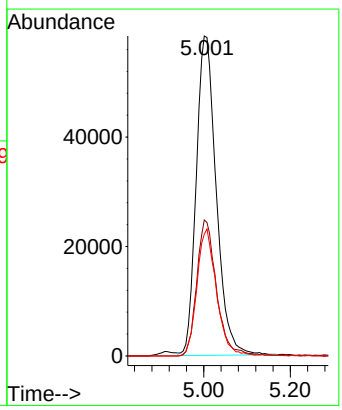


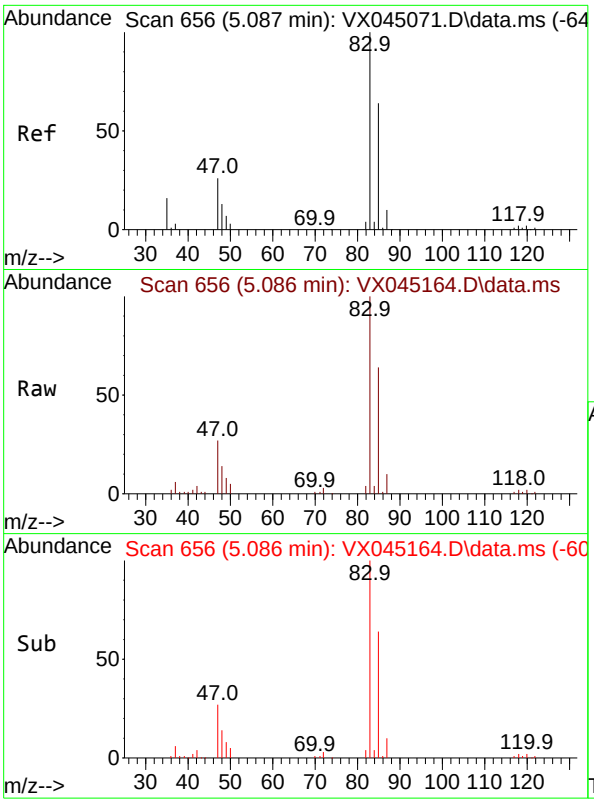


#29
Tetrahydrofuran
Concen: 249.177 ug/l
RT: 5.001 min Scan# 642
Delta R.T. -0.006 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion: 42 Resp: 186941

Ion	Ratio	Lower	Upper
42	100		
72	42.3	34.1	51.1
71	38.8	31.4	47.0





#30
Chloroform
Concen: 48.631 ug/l
RT: 5.086 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion: 83 Resp: 12114

Ion	Ratio	Lower	Upper
83	100		
85	63.7	51.4	77.2

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MSD

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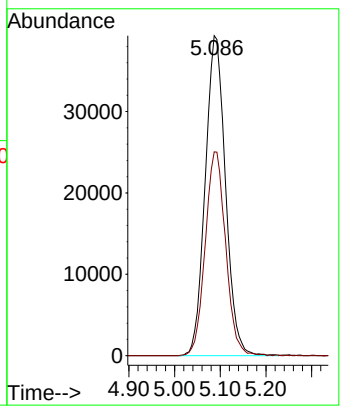
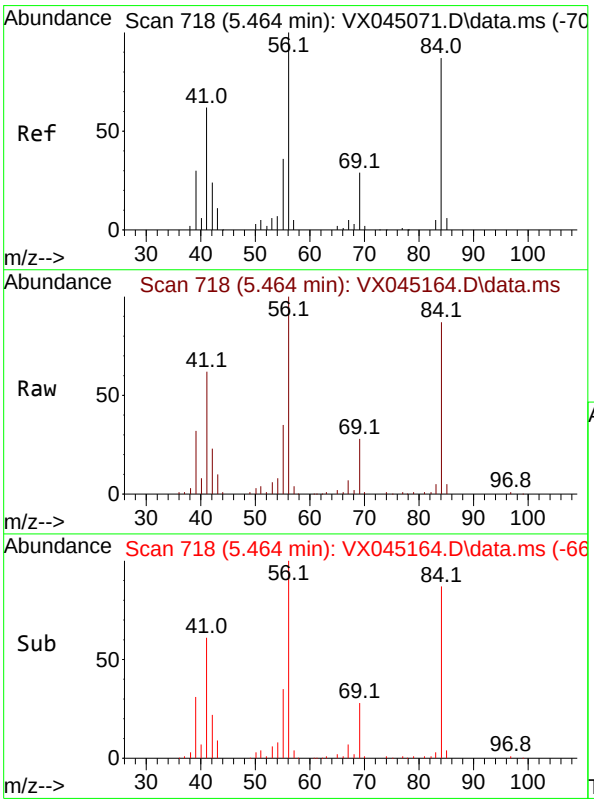
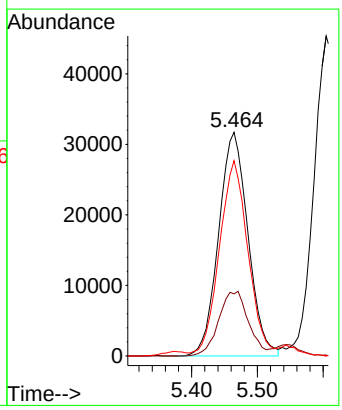


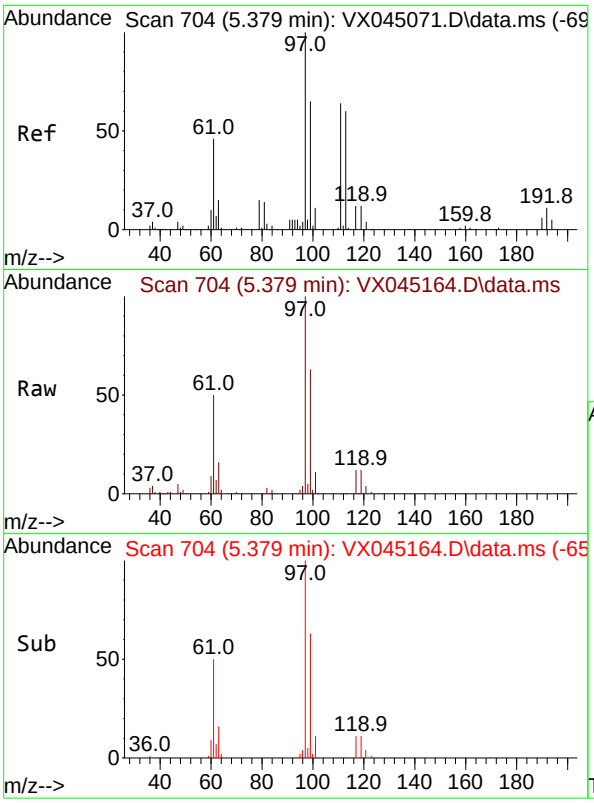


#31
Cyclohexane
Concen: 45.259 ug/l
RT: 5.464 min Scan# 718
Delta R.T. 0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion: 56 Resp: 98498

Ion	Ratio	Lower	Upper
56	100		
69	27.8	23.4	35.2
84	85.4	69.4	104.2





#32
1,1,1-Trichloroethane
Concen: 49.391 ug/l
RT: 5.379 min Scan# 7(
Delta R.T. 0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion: 97 Resp: 9937

Ion	Ratio	Lower	Upper
97	100		
99	62.7	51.6	77.4
61	49.1	38.4	57.6

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MSD

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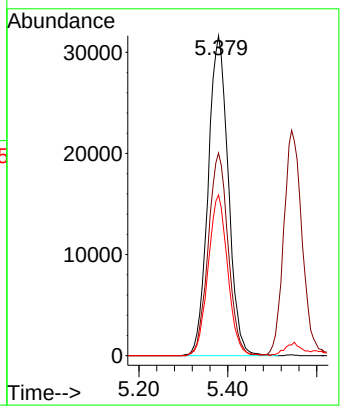
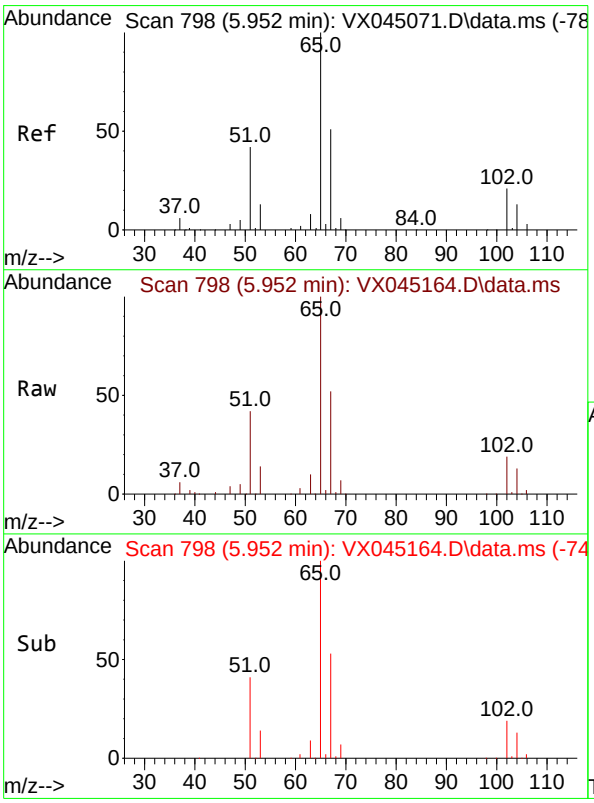
Supervised By :Mahesh Dadoda 03/10/2025

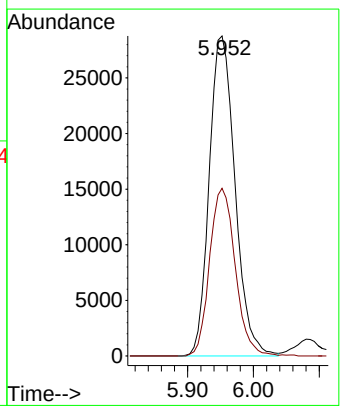


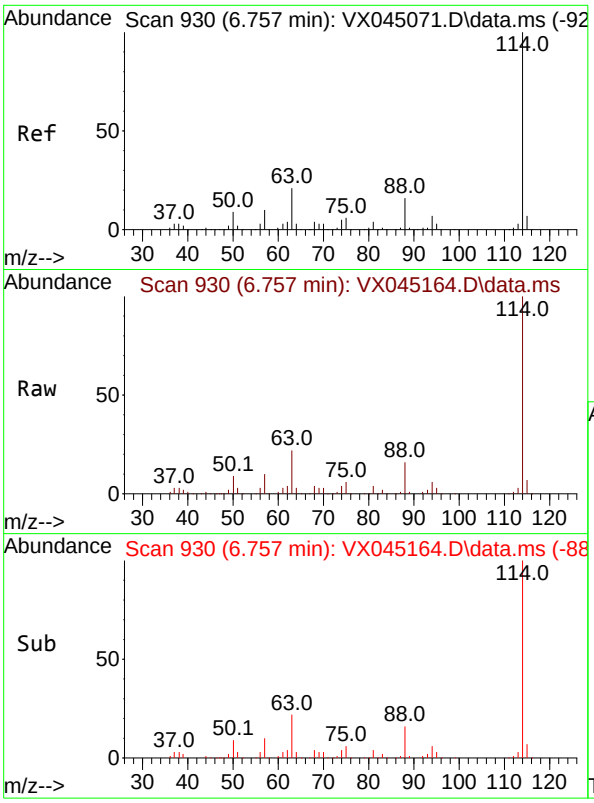


#33
1,2-Dichloroethane-d4
Concen: 49.159 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion: 65 Resp: 78636

Ion	Ratio	Lower	Upper
65	100		
67	52.1	0.0	106.2





#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion:114 Resp: 18269

Ion	Ratio	Lower	Upper
114	100		
63	22.5	0.0	41.8
88	15.5	0.0	32.8

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MSD

Manual Integrations
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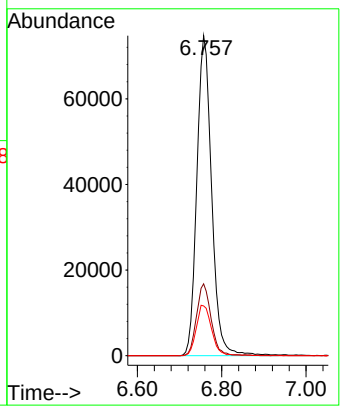
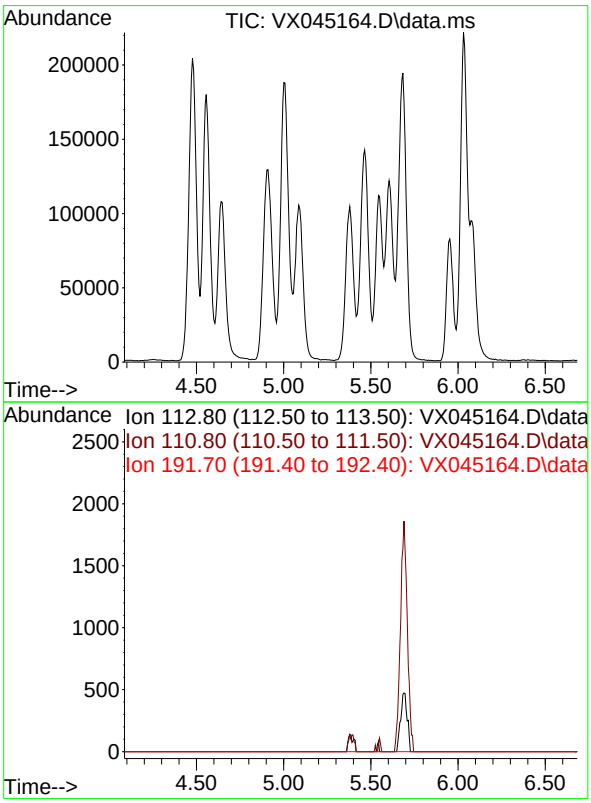
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025



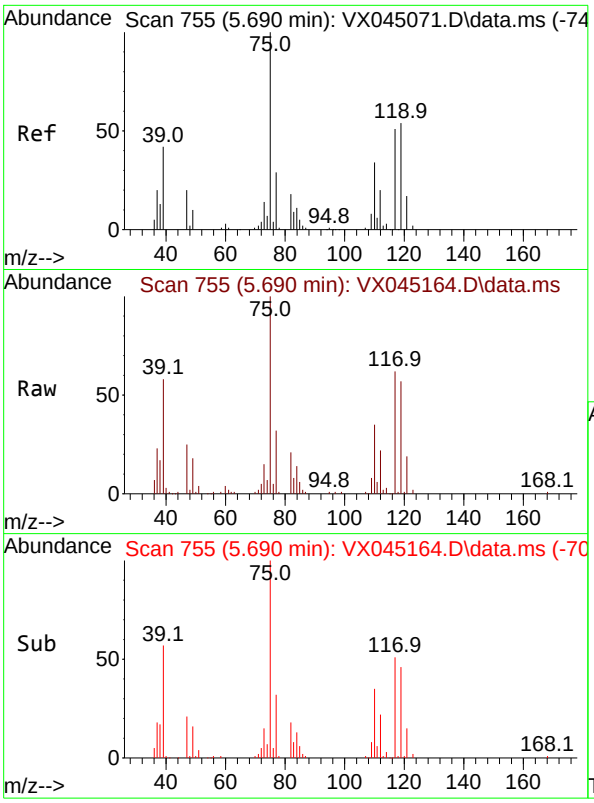


#35
Dibromofluoromethane
Concen: 0.000 ug/l
Expected RT: 5.39 min

Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion: 113

Sig	Exp Ratio
113	100
111	102.2
192	17.9



#36
1,1-Dichloropropene
Concen: 48.310 ug/l
RT: 5.690 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion: 75 Resp: 8093

Ion	Ratio	Lower	Upper
75	100		
110	33.8	16.9	50.6
77	31.1	24.5	36.7

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MSD

Manual Integrations
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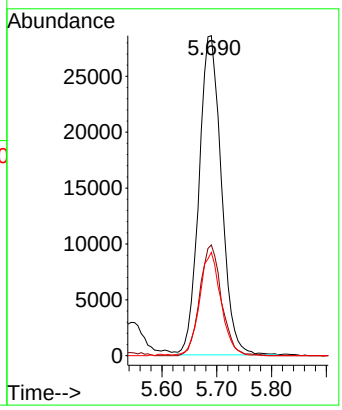
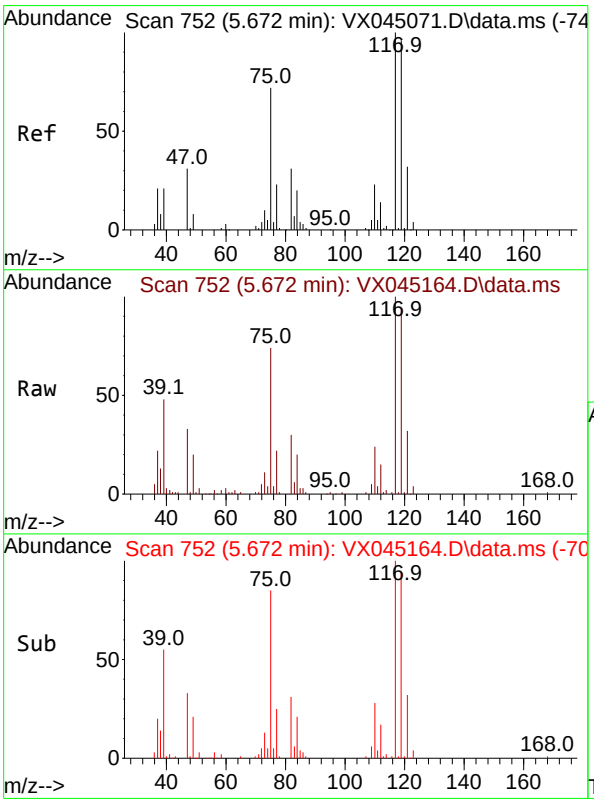
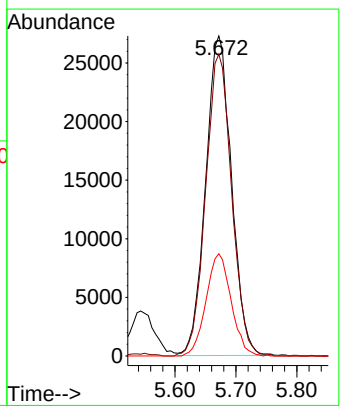


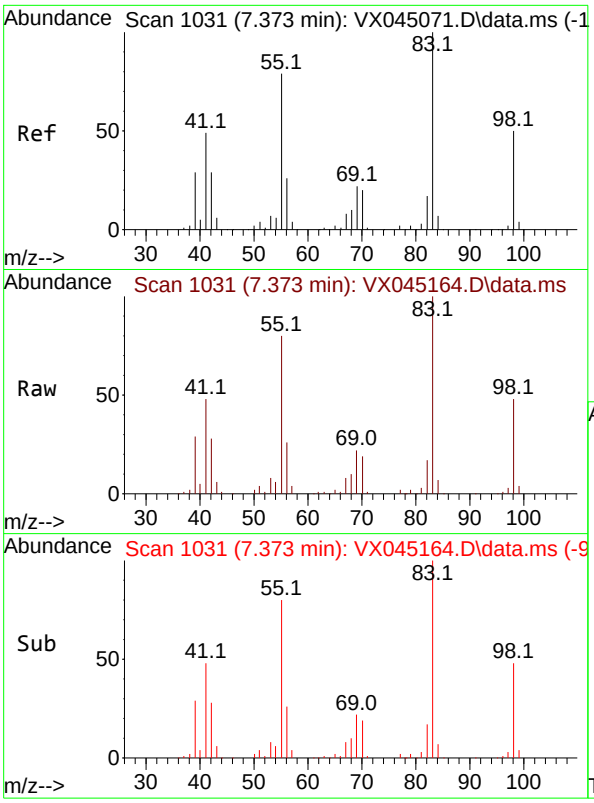


#38
Carbon Tetrachloride
Concen: 47.327 ug/l
RT: 5.672 min Scan# 752
Delta R.T. 0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion:117 Resp: 80499

Ion	Ratio	Lower	Upper
117	100		
119	94.5	76.7	115.1
121	32.0	25.5	38.3





#39
Methylcyclohexane
Concen: 45.080 ug/l
RT: 7.373 min Scan# 1(
Delta R.T. 0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion: 83 Resp: 9049

Ion	Ratio	Lower	Upper
83	100		
55	80.2	63.0	94.4
98	47.6	39.7	59.5

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MSD

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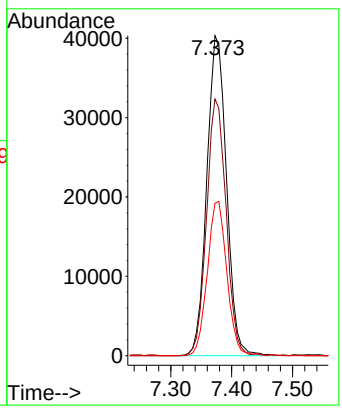
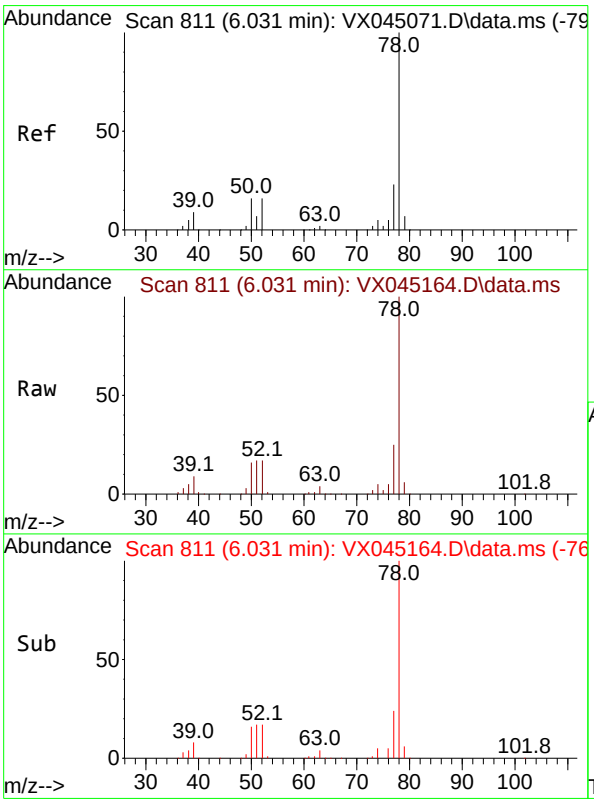
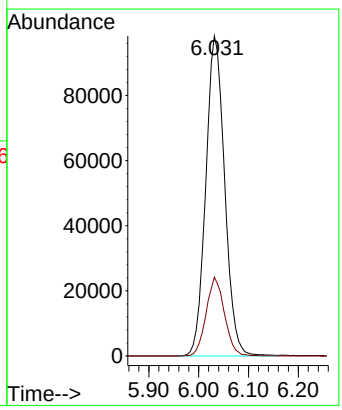


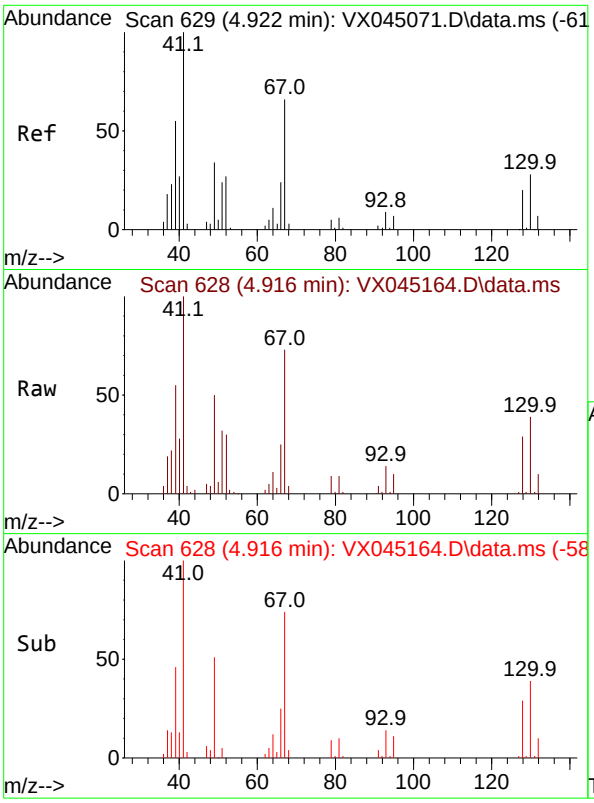


#40
Benzene
Concen: 48.959 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion: 78 Resp: 259017

Ion	Ratio	Lower	Upper
78	100		
77	24.6	18.8	28.2





#41
Methacrylonitrile
Concen: 50.821 ug/l
RT: 4.916 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion: 41 Resp: 5932

Ion	Ratio	Lower	Upper
41	100		
39	57.1	44.6	67.0
67	69.9	53.9	80.9
52	31.6	23.3	34.9

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MSD

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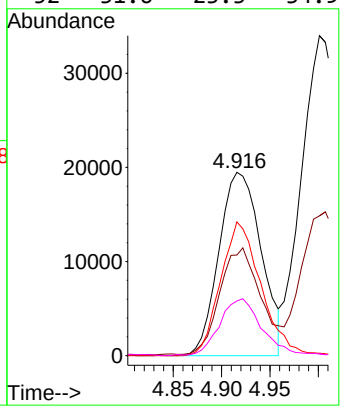
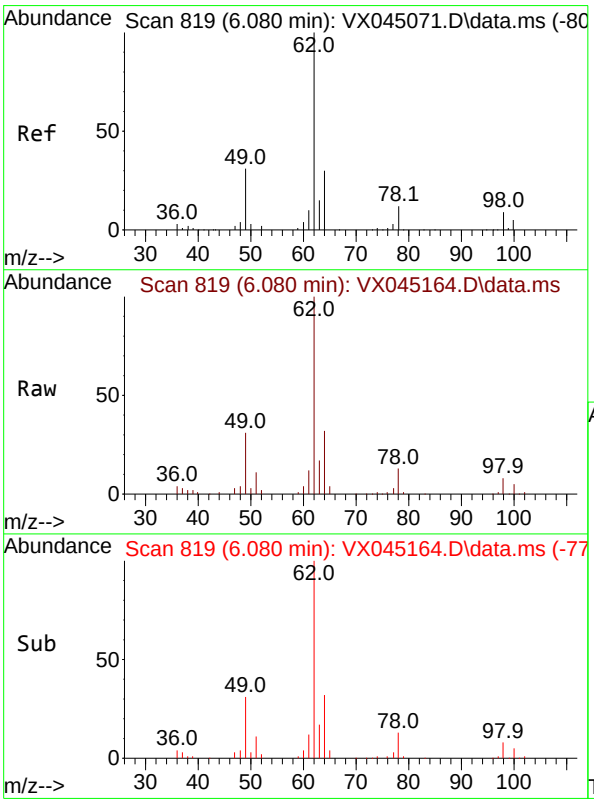
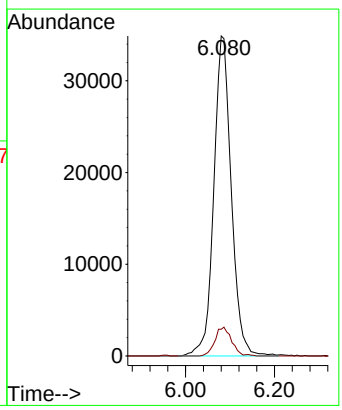


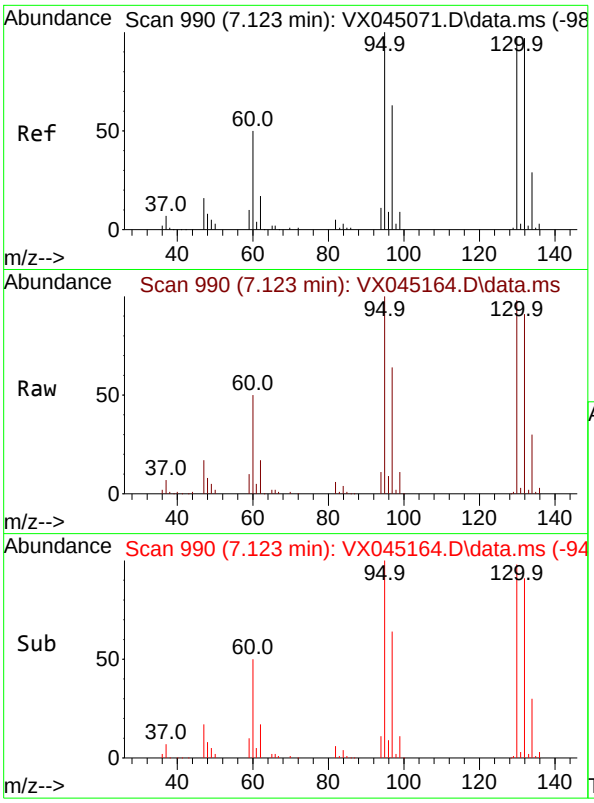


#42
1,2-Dichloroethane
Concen: 49.838 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion: 62 Resp: 94946

Ion	Ratio	Lower	Upper
62	100		
98	8.6	0.0	18.2





#44
Trichloroethene
Concen: 91.488 ug/l
RT: 7.123 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion:130 Resp: 11365

Ion	Ratio	Lower	Upper
130	100		
95	101.9	0.0	205.0

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MSD

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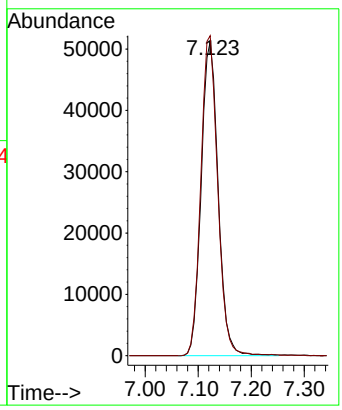
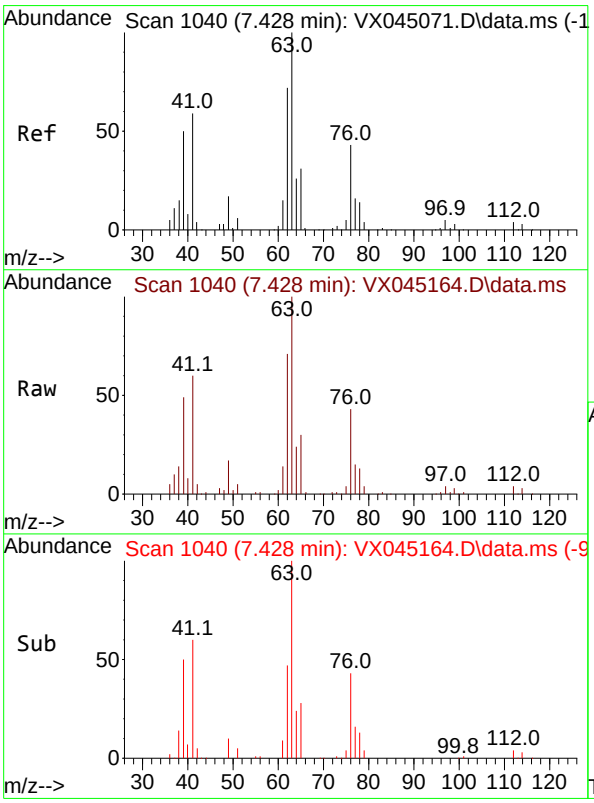
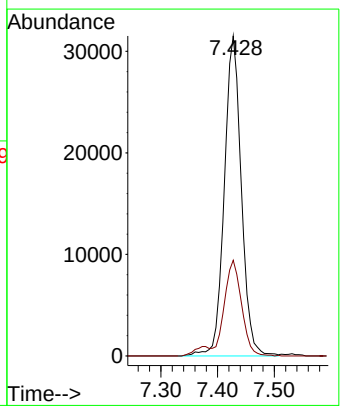


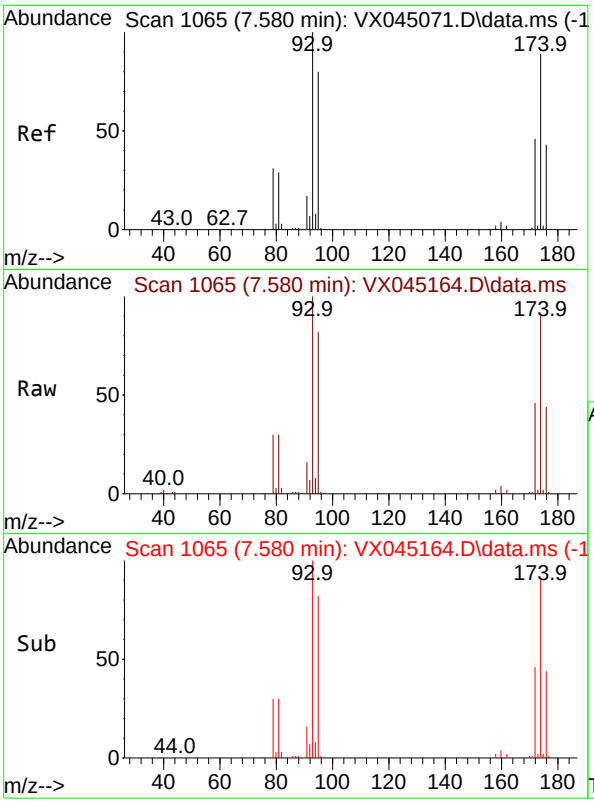


#45
1,2-Dichloropropane
Concen: 48.354 ug/l
RT: 7.428 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion: 63 Resp: 65772

Ion	Ratio	Lower	Upper
63	100		
65	29.9	24.7	37.1





#46
Dibromomethane
Concen: 50.186 ug/l
RT: 7.580 min Scan# 1(
Delta R.T. 0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion: 93 Resp: 4825(

Ion	Ratio	Lower	Upper
93	100		
95	82.3	65.8	98.8
174	89.0	72.2	108.2

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MSD

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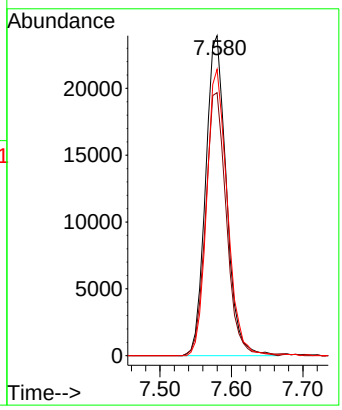
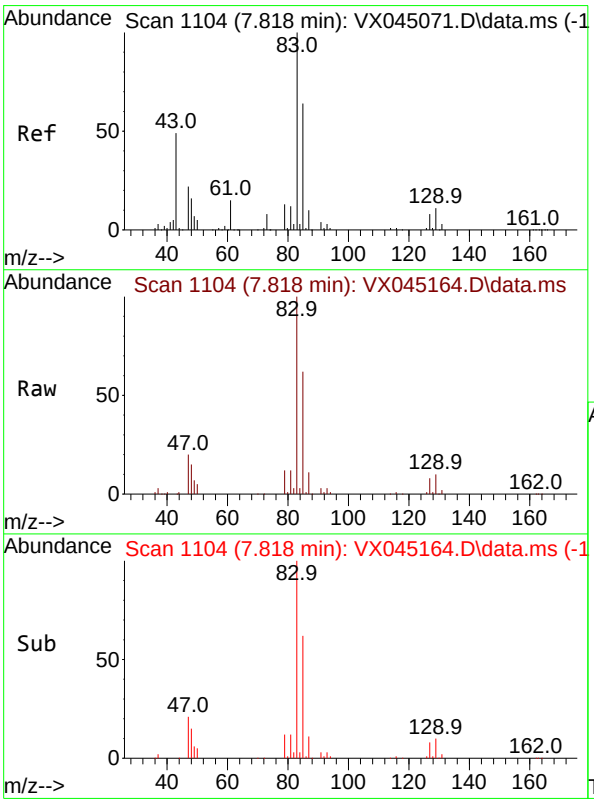
Supervised By :Mahesh Dadoda 03/10/2025

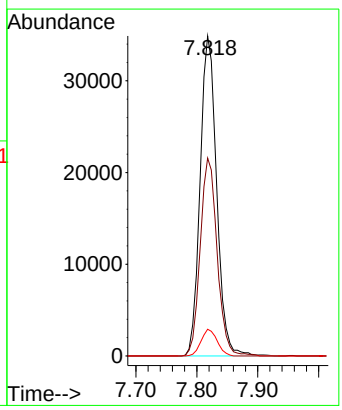


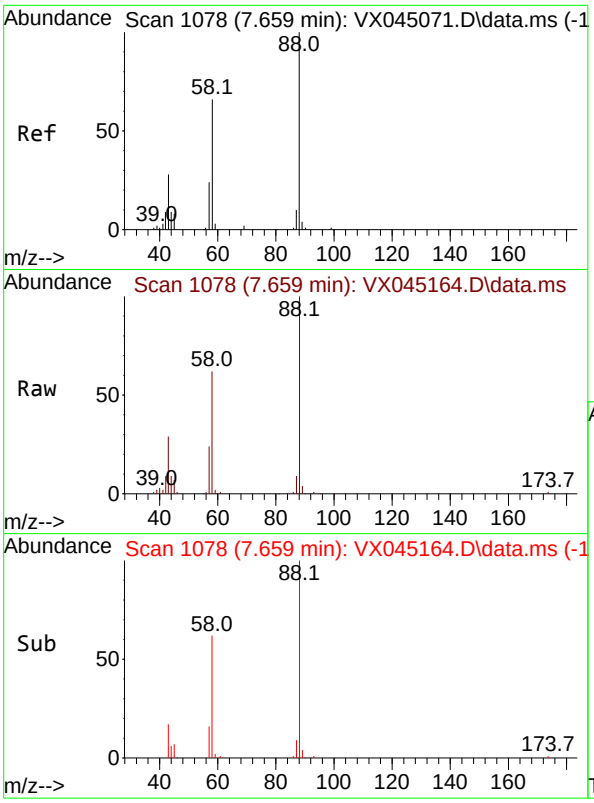


#47
Bromodichloromethane
Concen: 34.877 ug/l
RT: 7.818 min Scan# 1104
Delta R.T. -0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion: 83 Resp: 65772

Ion	Ratio	Lower	Upper
83	100		
85	61.9	51.1	76.7
127	8.3	6.4	9.6





#49
1,4-Dioxane
Concen: 858.601 ug/l
RT: 7.659 min Scan# 1(
Delta R.T. 0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion: 88 Resp: 2900(

Ion	Ratio	Lower	Upper
88	100		
43	28.5	28.7	43.1#
58	67.7	55.8	83.8

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MSD

Manual Integrations
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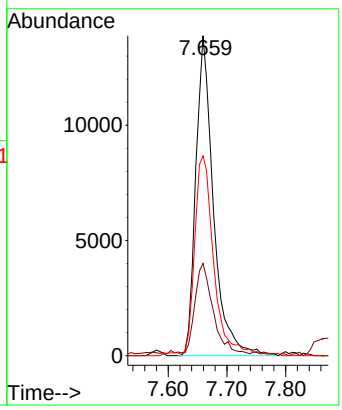
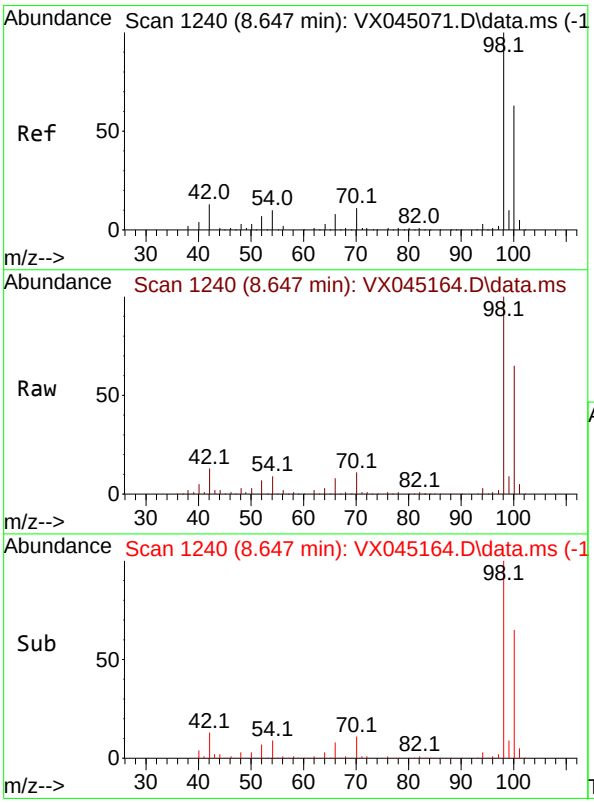
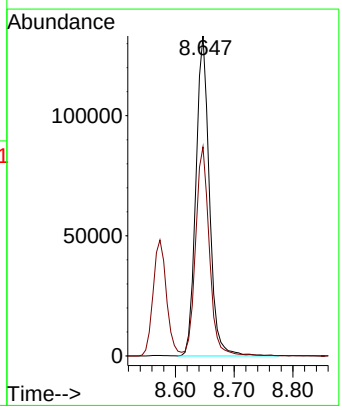


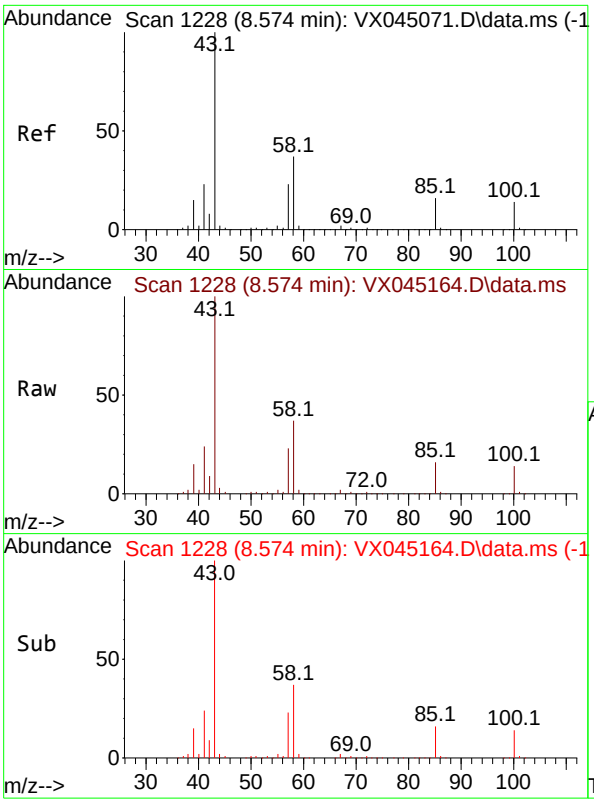


#50
Toluene-d8
Concen: 48.071 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion: 98 Resp: 212901

Ion	Ratio	Lower	Upper
98	100		
100	66.1	52.0	78.0





#51
4-Methyl-2-Pentanone
Concen: 258.557 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion: 43 Resp: 55420

Ion	Ratio	Lower	Upper
43	100		
58	37.3	29.2	43.8

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MSD

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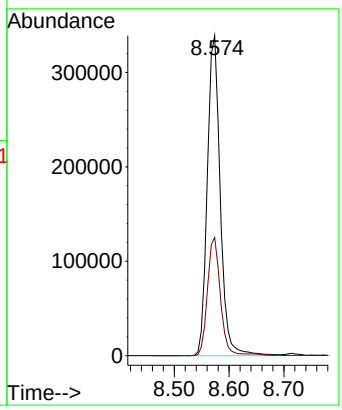
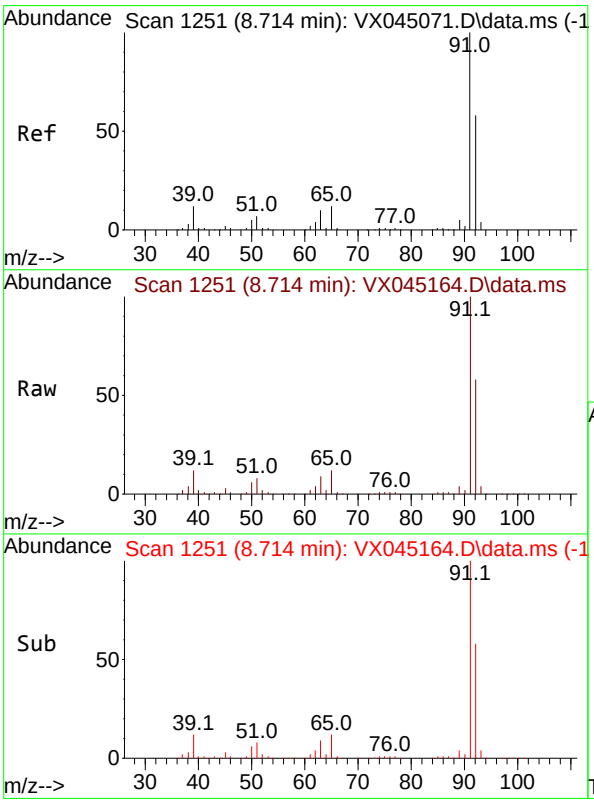
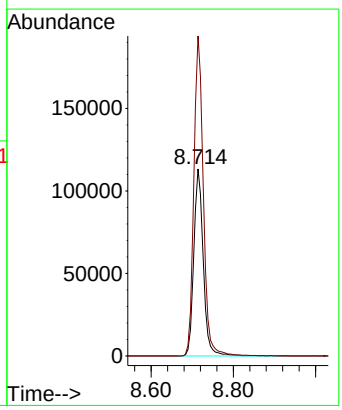


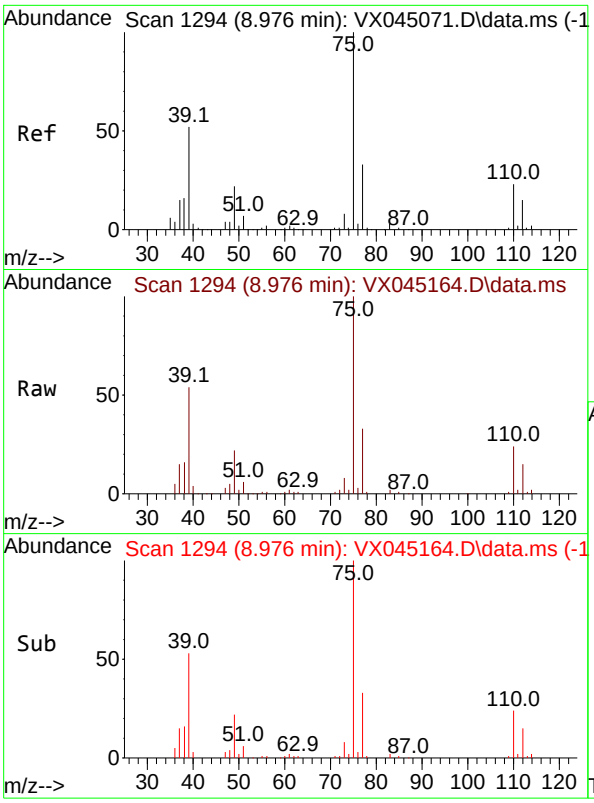


#52
Toluene
Concen: 58.295 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion: 92 Resp: 180949

Ion	Ratio	Lower	Upper
92	100		
91	171.8	138.9	208.3





#53
t-1,3-Dichloropropene
Concen: 51.062 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion: 75 Resp: 8050

Ion	Ratio	Lower	Upper
75	100		
77	32.9	26.5	39.7

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MSD

Manual Integrations
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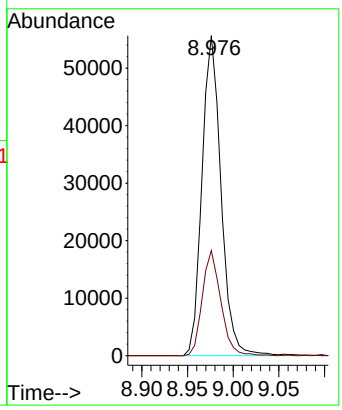
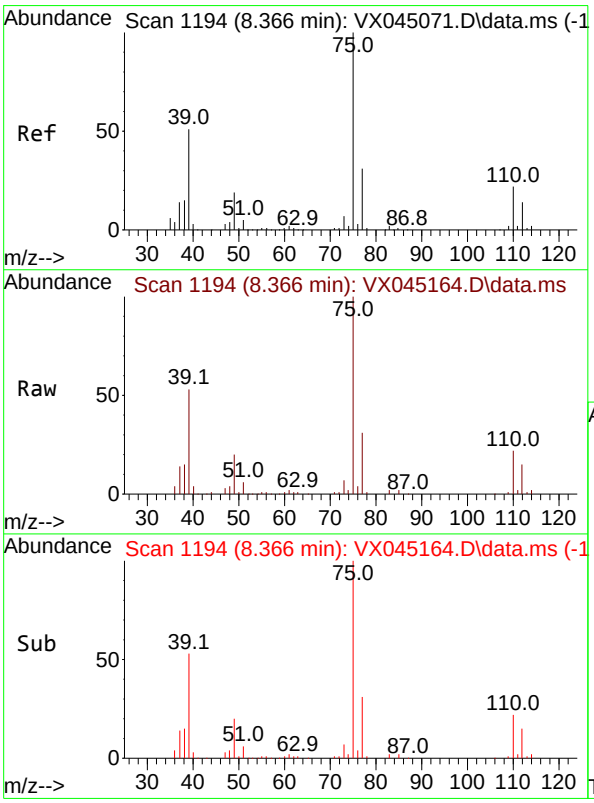
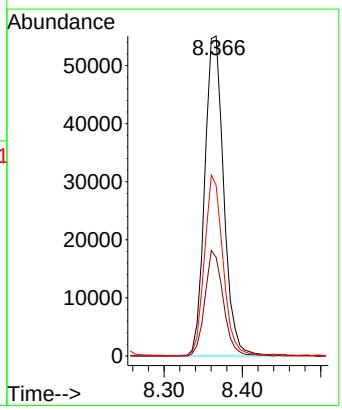


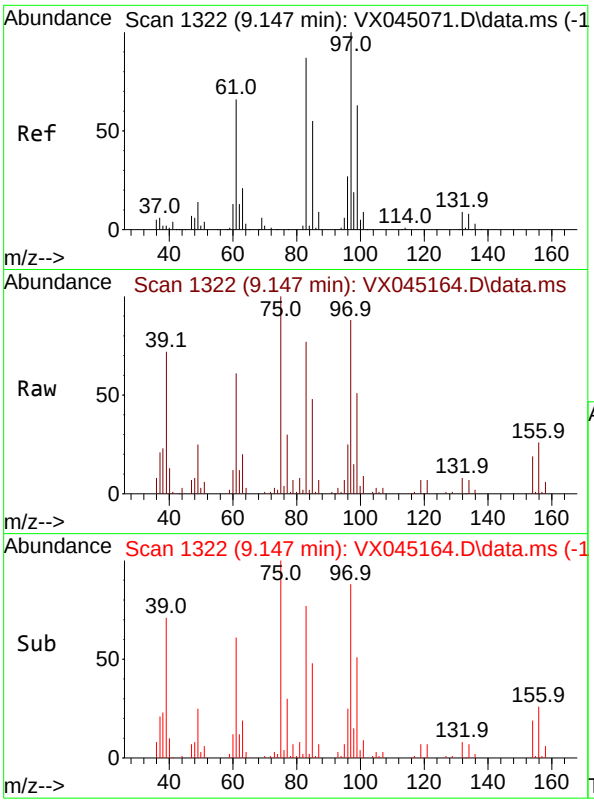


#54
cis-1,3-Dichloropropene
Concen: 50.352 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. -0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion: 75 Resp: 92567

Ion	Ratio	Lower	Upper
75	100		
77	30.8	24.7	37.1
39	53.2	40.7	61.1





#55
1,1,2-Trichloroethane
Concen: 15.648 ug/l
RT: 9.147 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion: 97 Resp: 1999

Ion	Ratio	Lower	Upper
97	100		
83	87.8	69.4	104.2
85	54.6	44.1	66.1
99	58.7	50.7	76.1

Instrument :
MSVOA_X
ClientSampleId :
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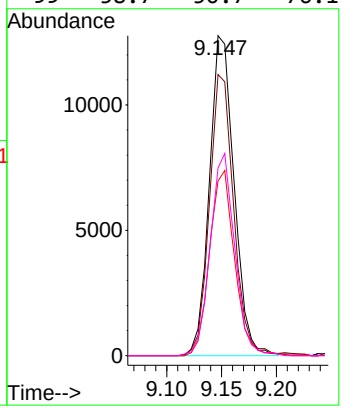
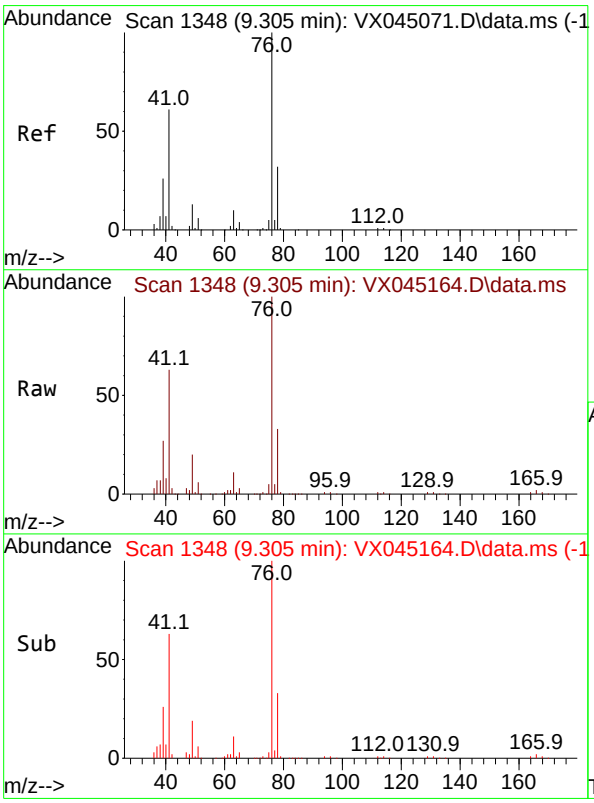
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

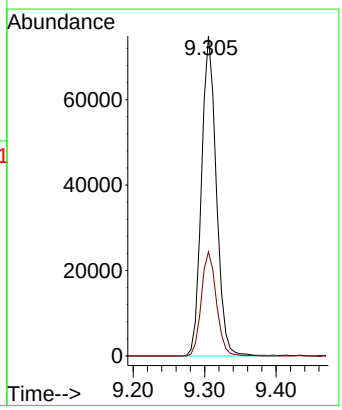


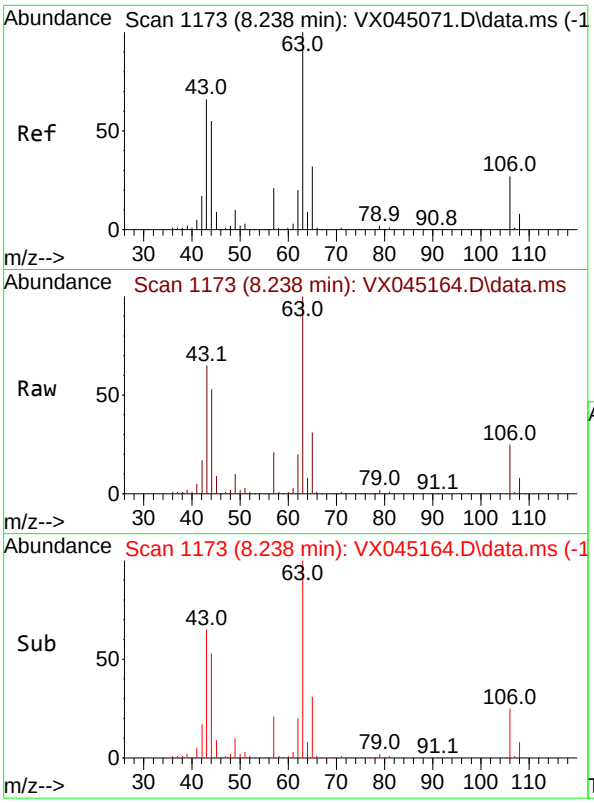


#57
1,3-Dichloropropane
Concen: 48.727 ug/l
RT: 9.305 min Scan# 1348
Delta R.T. 0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion: 76 Resp: 107755

Ion	Ratio	Lower	Upper
76	100		
78	33.1	25.5	38.3





#58
2-Chloroethyl Vinyl ether
Concen: 281.323 ug/l
RT: 8.238 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion: 63 Resp: 26656

Ion	Ratio	Lower	Upper
63	100		
106	26.2	21.5	32.3

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MSD

Manual Integrations
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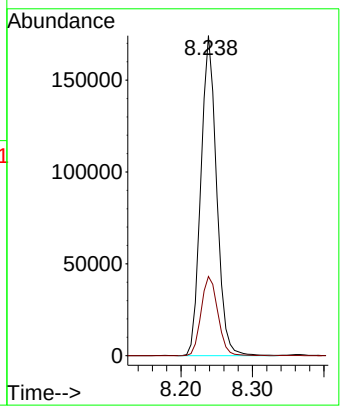
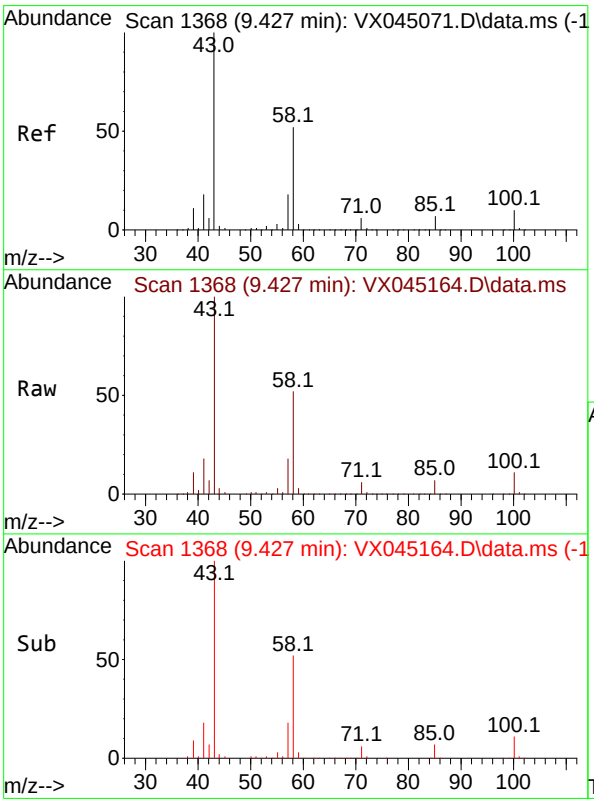
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

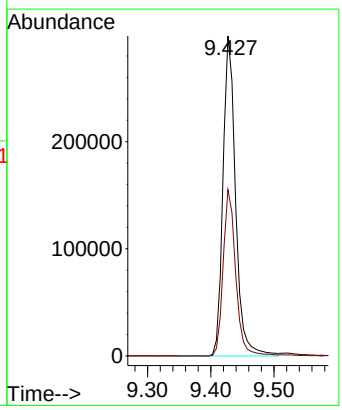


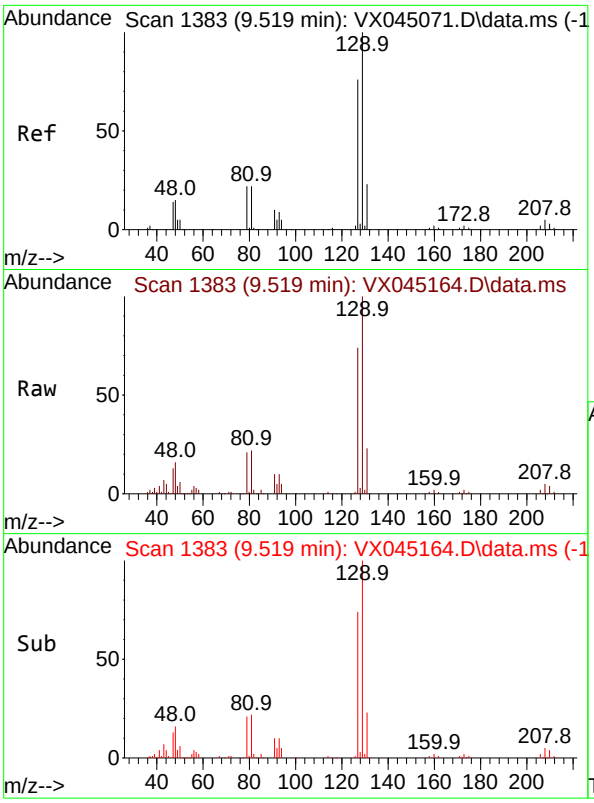


#59
2-Hexanone
Concen: 264.842 ug/l
RT: 9.427 min Scan# 1368
Delta R.T. -0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion: 43 Resp: 411304

Ion	Ratio	Lower	Upper
43	100		
58	52.2	25.9	77.6





#60
Dibromochloromethane
Concen: 41.126 ug/l
RT: 9.519 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion:129 Resp: 5494

Ion	Ratio	Lower	Upper
129	100		
127	75.9	38.5	115.5

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MSD

Manual Integrations
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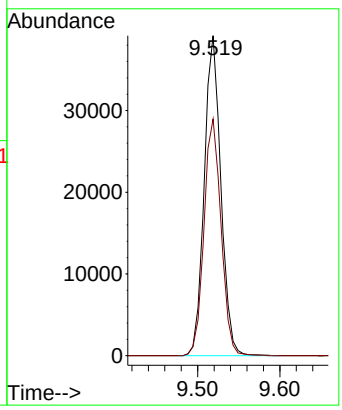
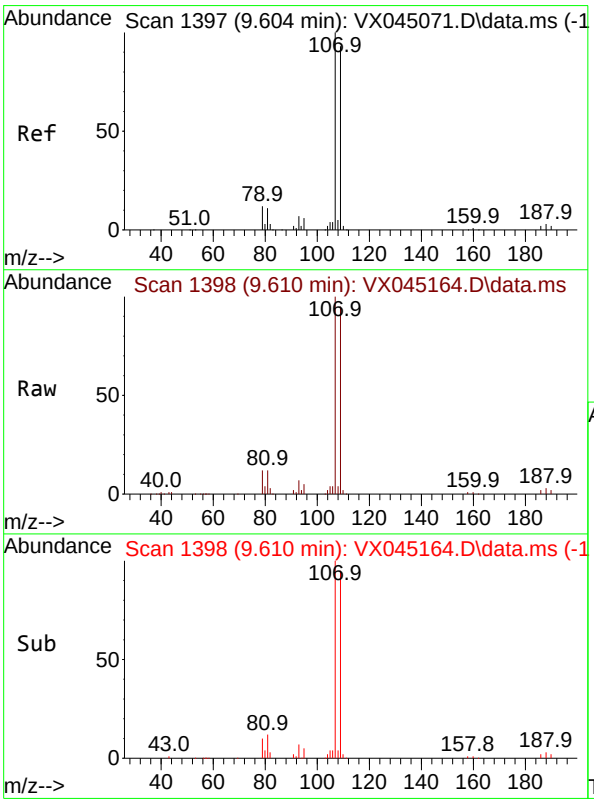
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

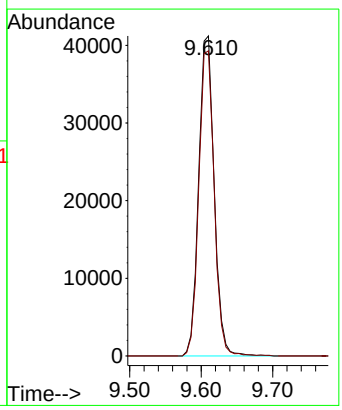


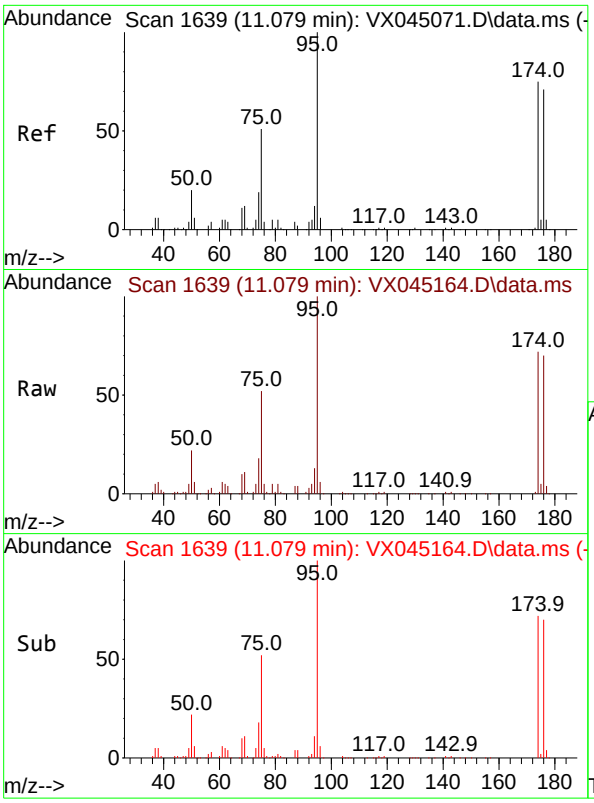


#61
1,2-Dibromoethane
Concen: 48.636 ug/l
RT: 9.610 min Scan# 1398
Delta R.T. 0.006 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion:107 Resp: 62043

Ion	Ratio	Lower	Upper
107	100		
109	94.9	76.1	114.1





#62
4-Bromofluorobenzene
Concen: 48.816 ug/l
RT: 11.079 min Scan# 1(
Delta R.T. 0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion: 95 Resp: 7164

Ion	Ratio	Lower	Upper
95	100		
174	72.4	0.0	148.2
176	70.3	0.0	141.4

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MSD

Manual Integrations
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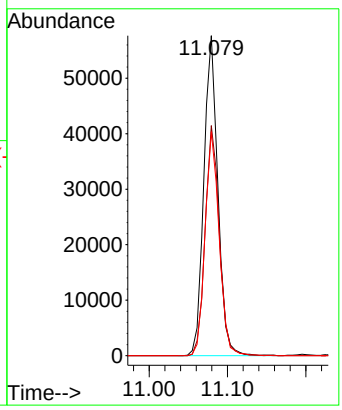
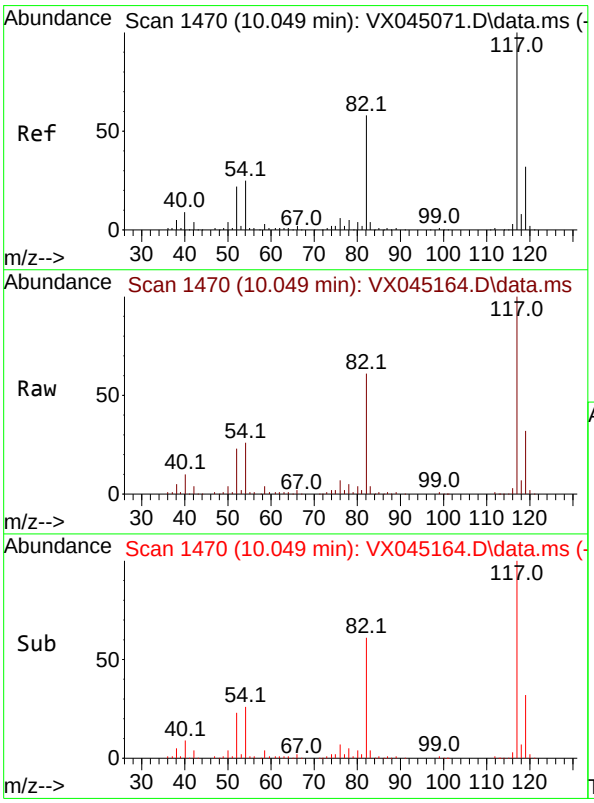
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

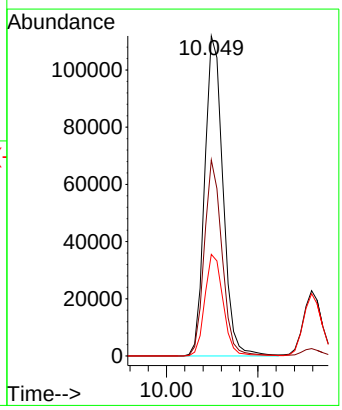


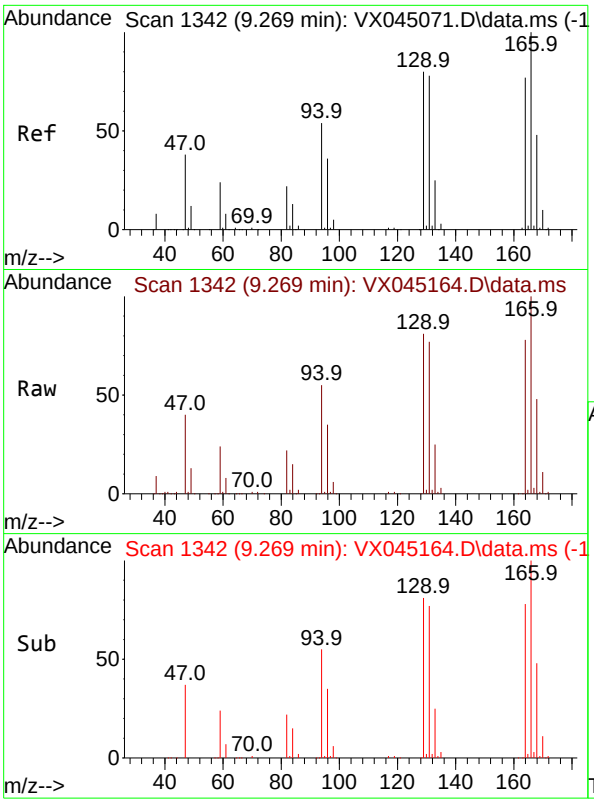


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion:117 Resp: 154927

Ion	Ratio	Lower	Upper
117	100		
82	61.3	46.3	69.5
119	31.7	25.7	38.5





#64
Tetrachloroethene
Concen: 85.290 ug/l
RT: 9.269 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion:164 Resp: 8462

Ion	Ratio	Lower	Upper
164	100		
166	128.3	103.6	155.4
129	103.8	82.7	124.1
131	99.0	80.5	120.7

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MSD

Manual Integrations
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Reviewed By :John Carlone 03/10/2025
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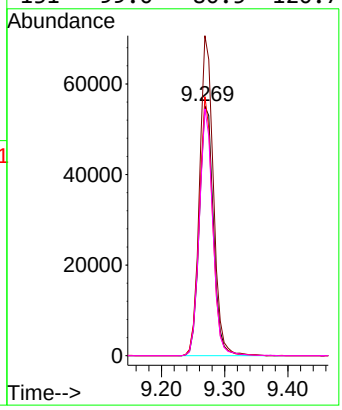
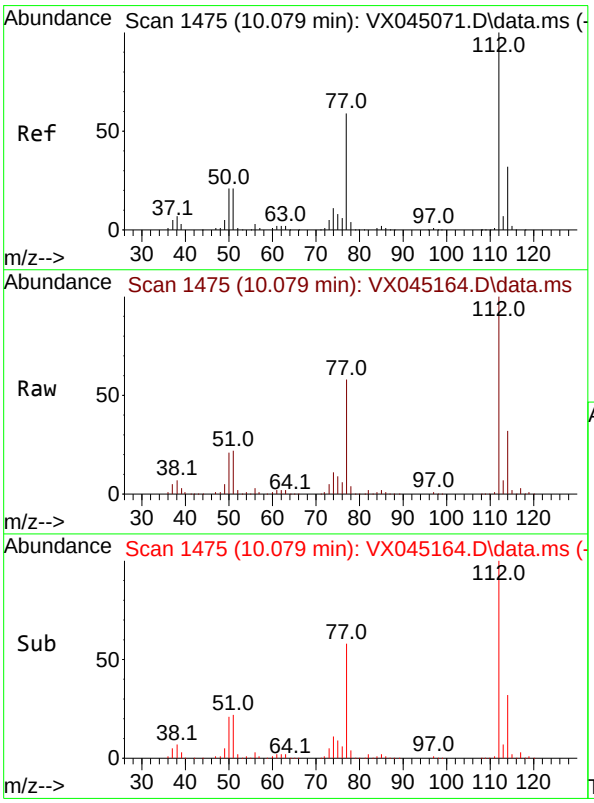
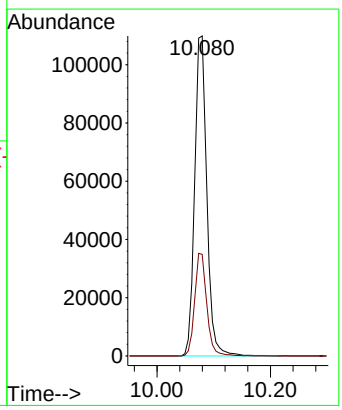


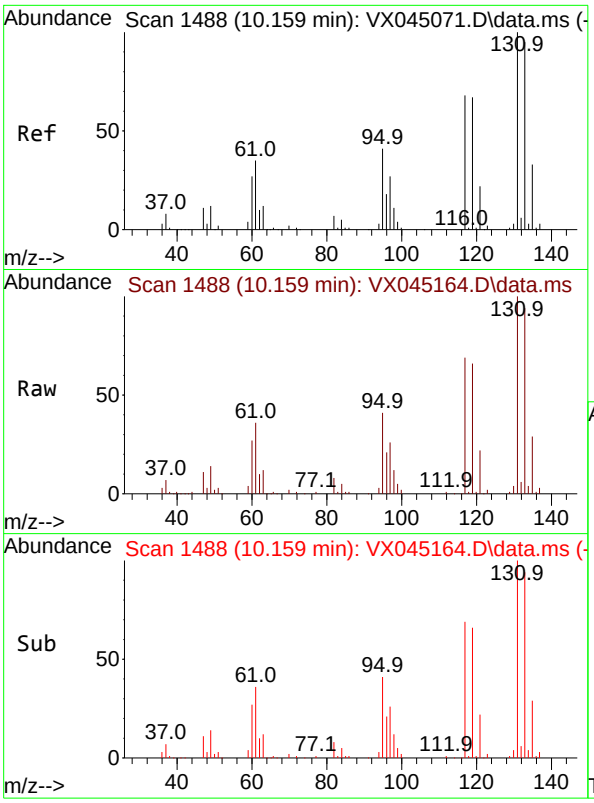


#65
Chlorobenzene
Concen: 49.819 ug/l
RT: 10.079 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion:112 Resp: 163317

Ion	Ratio	Lower	Upper
112	100		
114	31.8	26.0	39.0





#66
1,1,1,2-Tetrachloroethane
Concen: 41.737 ug/l
RT: 10.159 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion:131 Resp: 4556

Ion	Ratio	Lower	Upper
131	100		
133	94.4	48.6	145.9
119	66.4	33.9	101.7

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MSD

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Reviewed By :John Carlone 03/10/2025
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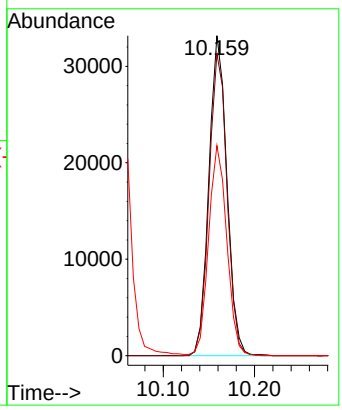
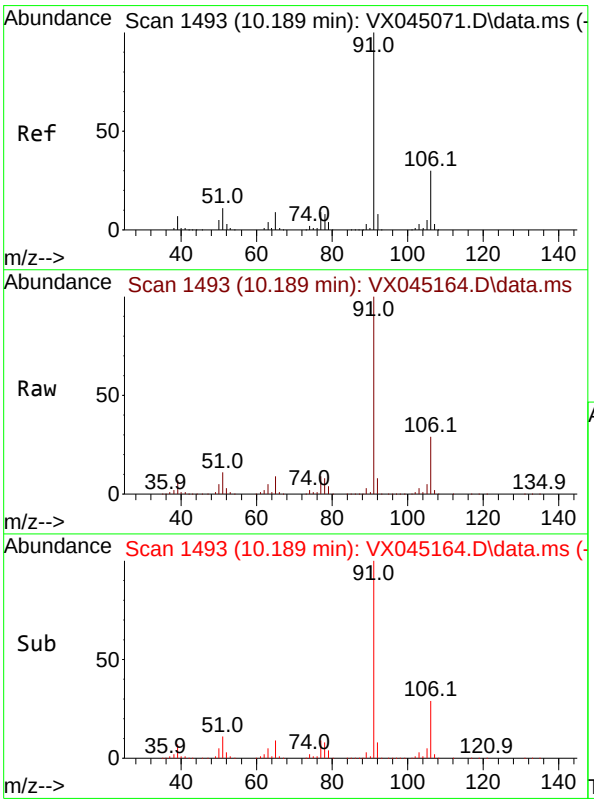
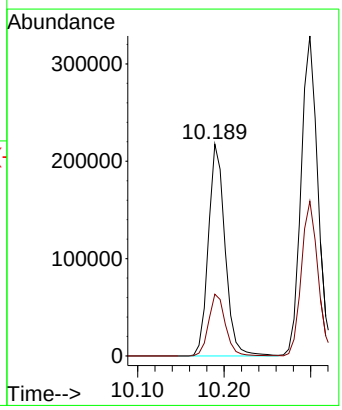


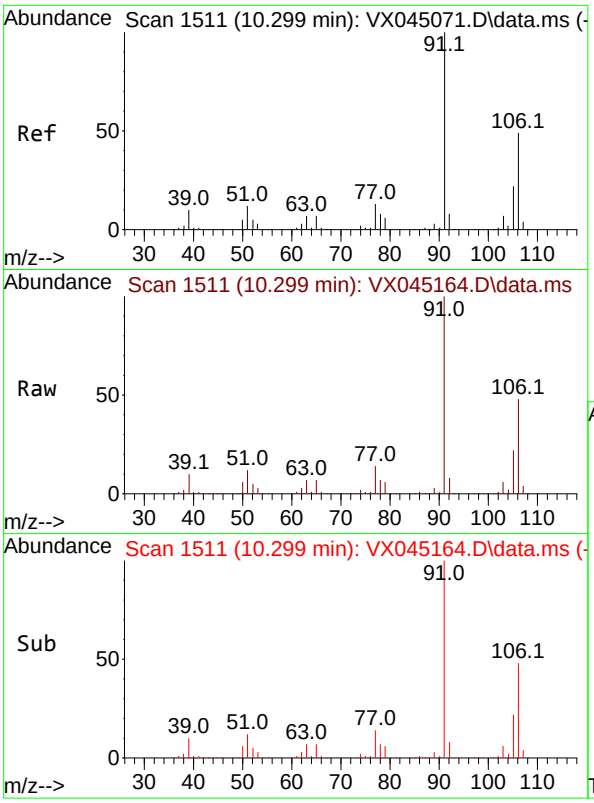


#67
Ethyl Benzene
Concen: 50.987 ug/l
RT: 10.189 min Scan# 1493
Delta R.T. 0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion: 91 Resp: 291242

Ion	Ratio	Lower	Upper
91	100		
106	29.2	23.9	35.9





#68
m/p-Xylenes
Concen: 102.845 ug/l
RT: 10.299 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion:106 Resp: 21505

Ion	Ratio	Lower	Upper
106	100		
91	207.1	165.4	248.0

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MSD

Manual Integrations
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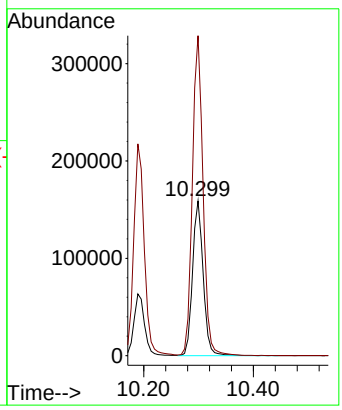
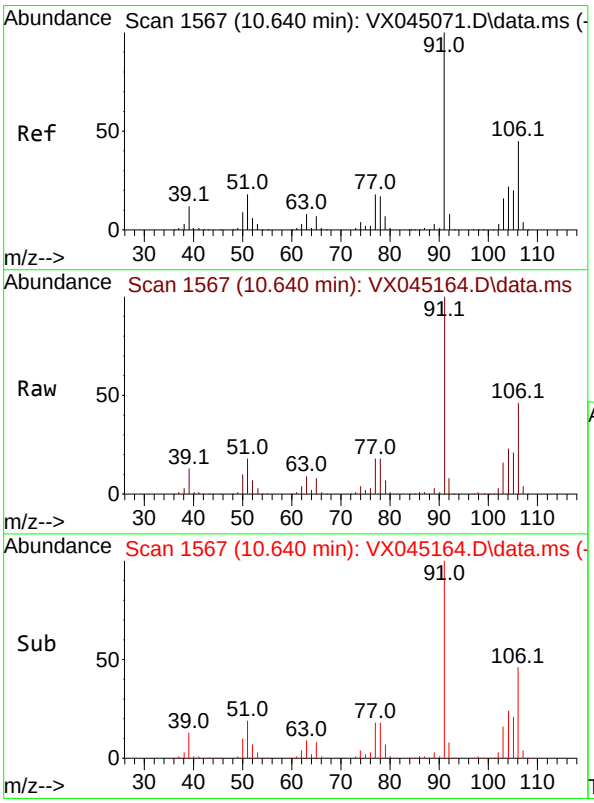
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

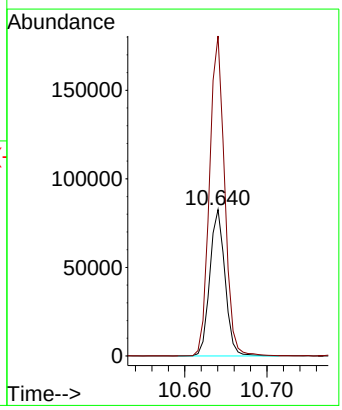


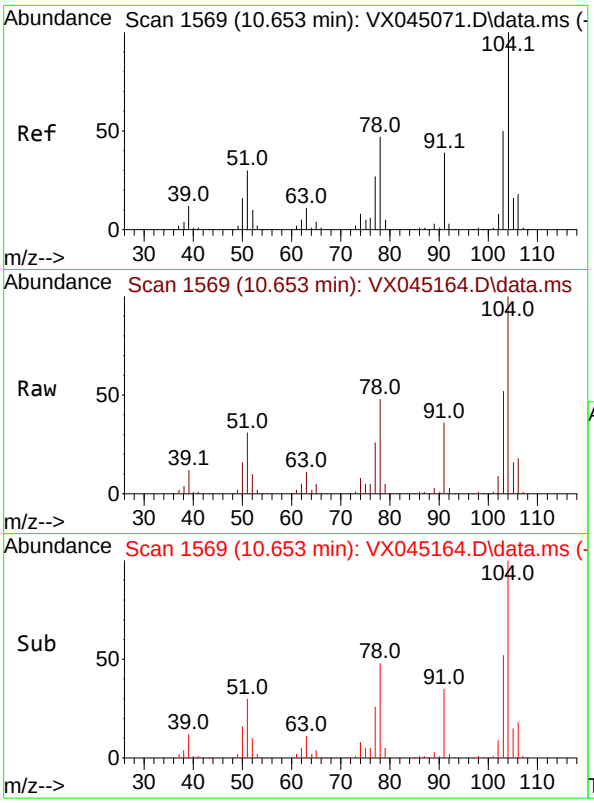


#69
o-Xylene
Concen: 50.296 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion:106 Resp: 106073

Ion	Ratio	Lower	Upper
106	100		
91	218.1	109.9	329.6





#70
Styrene
Concen: 51.549 ug/l
RT: 10.653 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion:104 Resp: 17590

Ion	Ratio	Lower	Upper
104	100		
78	53.5	42.2	63.4
103	55.4	43.8	65.8

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MSD

Manual Integrations
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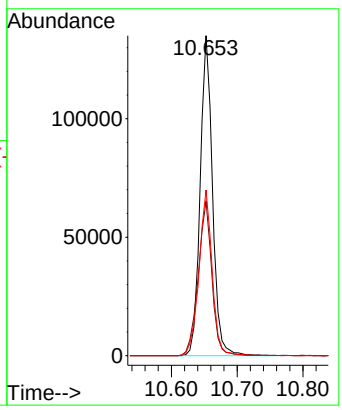
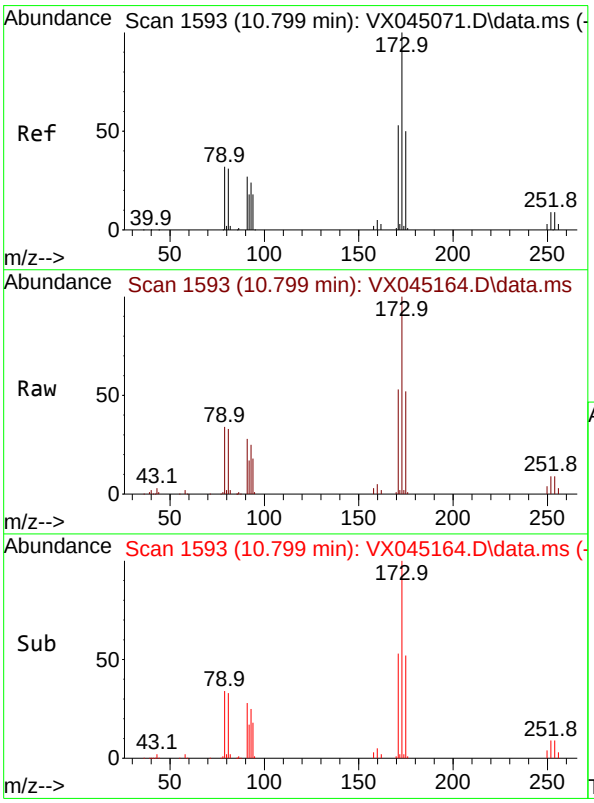
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

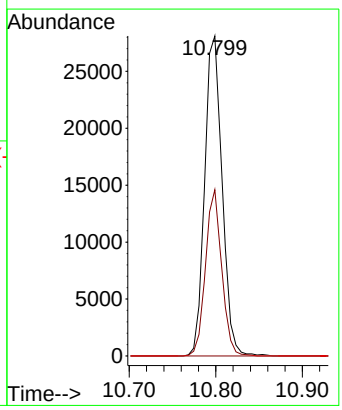


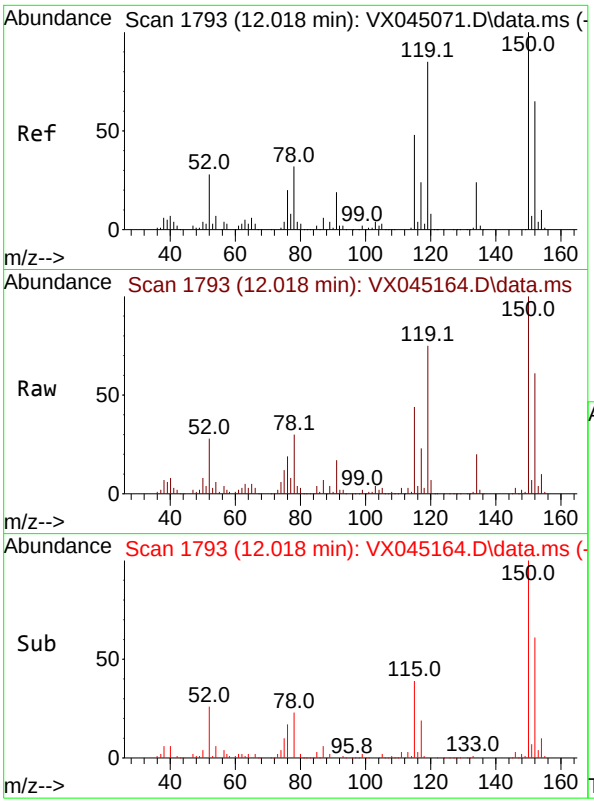


#71
Bromoform
Concen: 47.814 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. 0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion:173 Resp: 39363

Ion	Ratio	Lower	Upper
173	100		
175	48.2	24.6	73.6
254	0.0	0.0	0.0





#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion:152 Resp: 6836

Ion	Ratio	Lower	Upper
152	100		
115	86.3	44.2	132.6
150	174.3	0.0	349.0

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MSD

Manual Integrations
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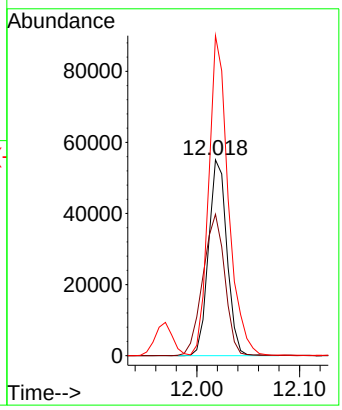
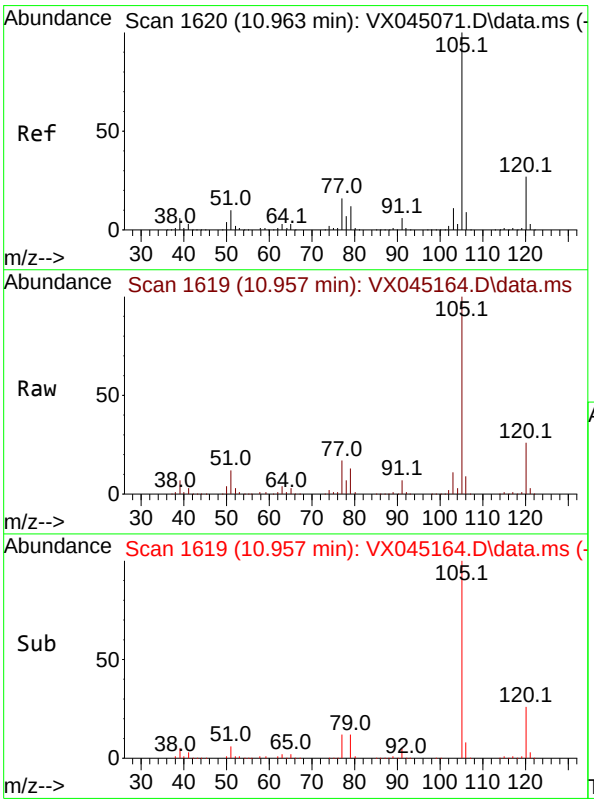
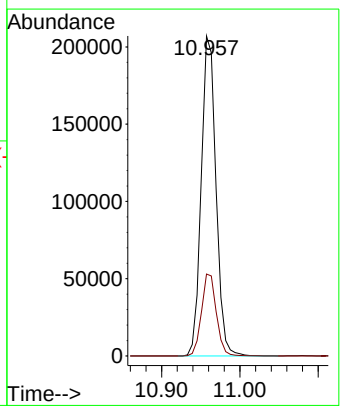


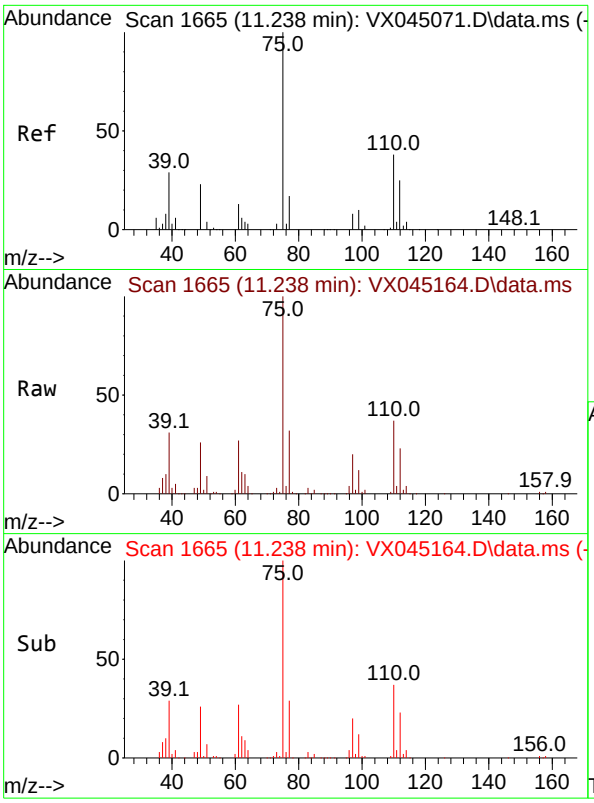


#73
Isopropylbenzene
Concen: 50.668 ug/l
RT: 10.957 min Scan# 1619
Delta R.T. -0.006 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion:105 Resp: 270349

Ion	Ratio	Lower	Upper
105	100		
120	25.8	13.2	39.5





#76
1,2,3-Trichloropropane
Concen: 46.175 ug/l m
RT: 11.238 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion: 75 Resp: 7346

Ion	Ratio	Lower	Upper
75	100		
77	41.7	20.7	62.1

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MSD

Manual Integrations
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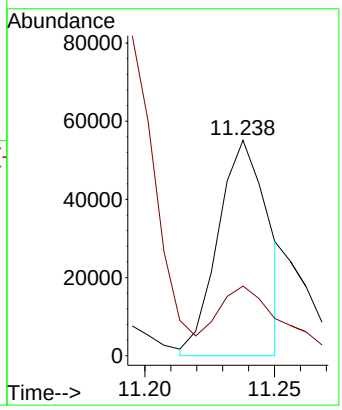
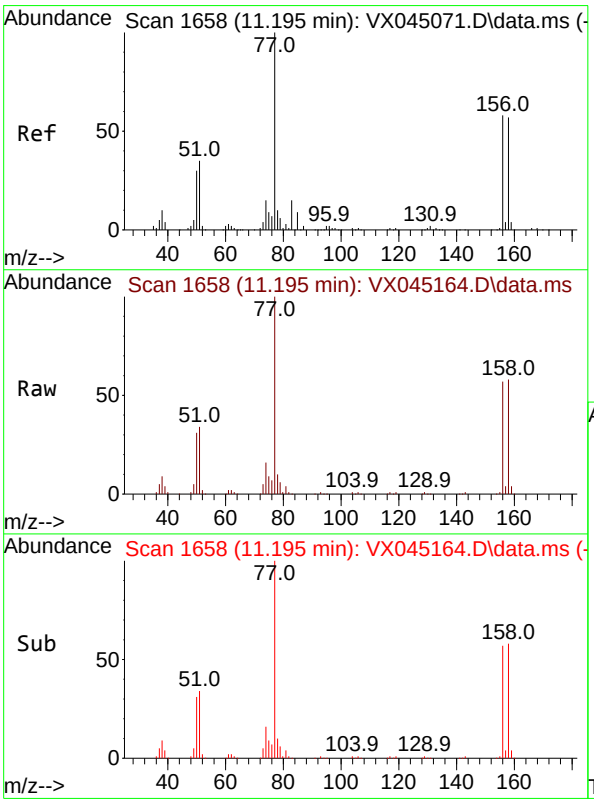
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

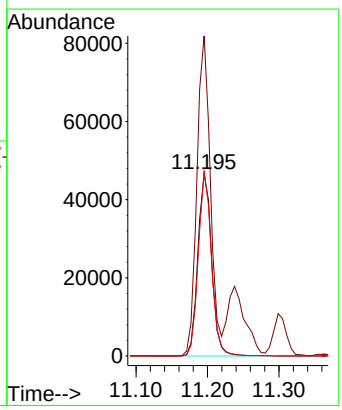


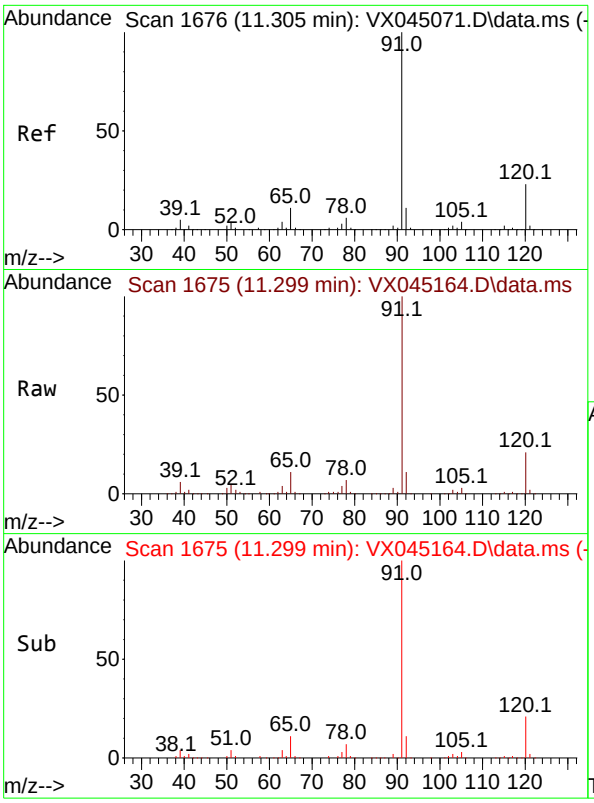


#77
Bromobenzene
Concen: 49.485 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. 0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion:156 Resp: 62298

Ion	Ratio	Lower	Upper
156	100		
77	172.0	85.8	257.4
158	96.9	48.4	145.2





#78
n-propylbenzene
Concen: 51.952 ug/l
RT: 11.299 min Scan# 1(
Delta R.T. -0.006 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

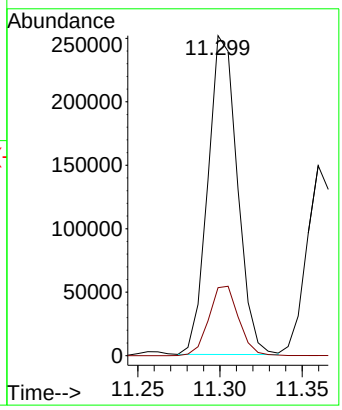
Tgt Ion: 91 Resp: 31313

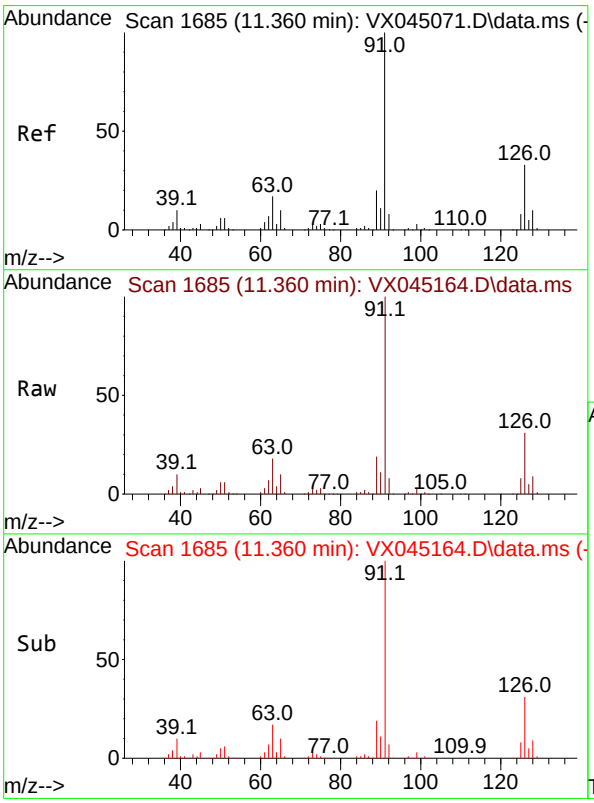
Ion	Ratio	Lower	Upper
91	100		
120	22.1	11.2	33.6

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

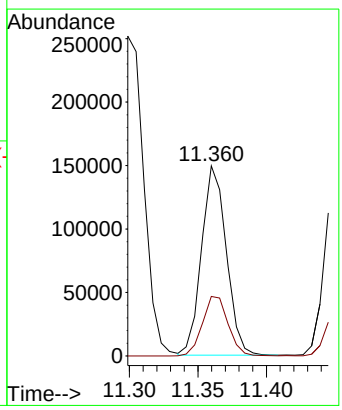


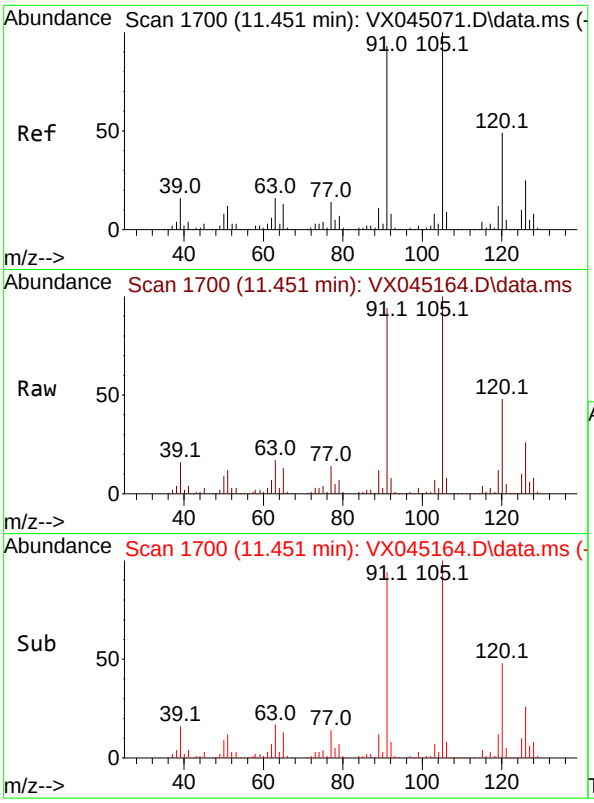


#79
2-Chlorotoluene
Concen: 48.816 ug/l
RT: 11.360 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion: 91 Resp: 187387

Ion	Ratio	Lower	Upper
91	100		
126	32.8	16.4	49.4





#80
1,3,5-Trimethylbenzene
Concen: 50.977 ug/l
RT: 11.451 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion:105 Resp: 21993

Ion	Ratio	Lower	Upper
105	100		
120	47.2	24.1	72.2

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MSD

Manual Integrations
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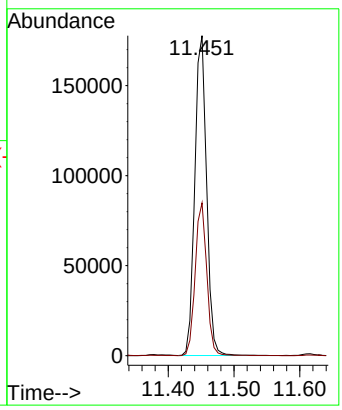
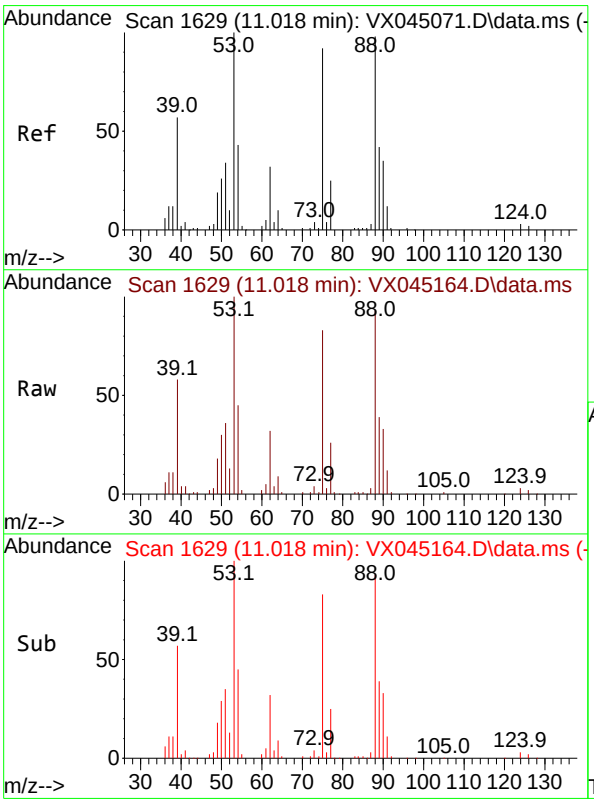
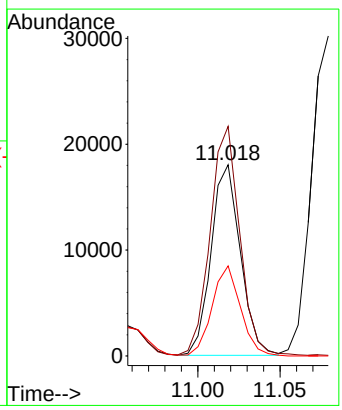


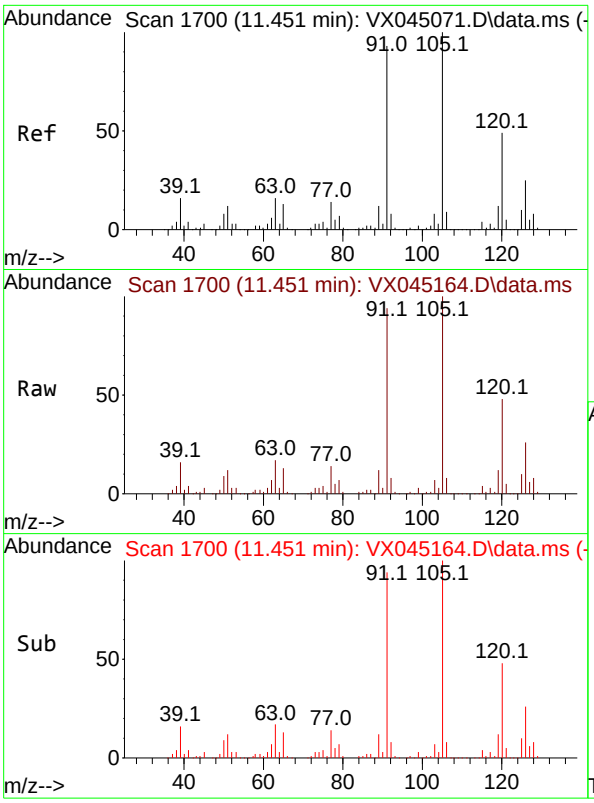


#81
trans-1,4-Dichloro-2-butene
Concen: 48.110 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. 0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion: 75 Resp: 22368

Ion	Ratio	Lower	Upper
75	100		
53	120.5	88.5	132.7
89	45.9	36.2	54.4





#82
4-Chlorotoluene
Concen: 50.418 ug/l
RT: 11.451 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion: 91 Resp: 21092

Ion	Ratio	Lower	Upper
91	100		
126	28.2	14.1	42.4

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/10/2025
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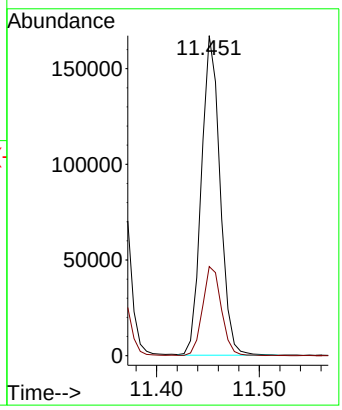
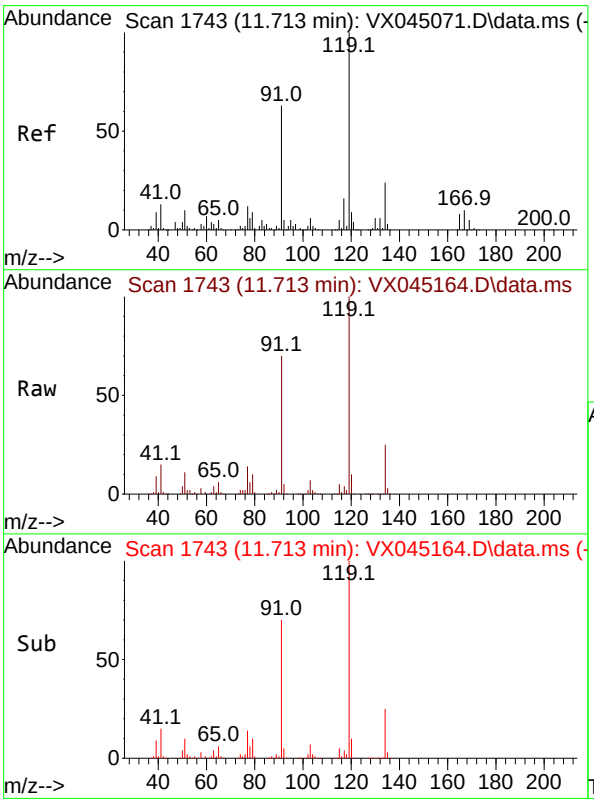
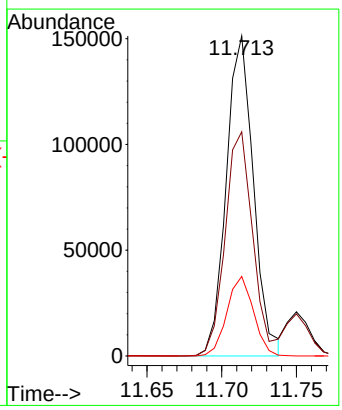


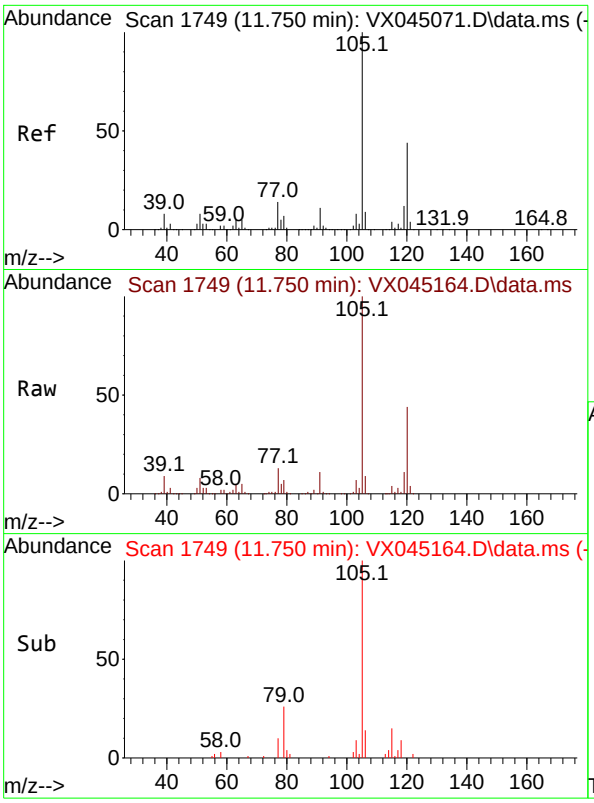


#83
tert-Butylbenzene
Concen: 43.186 ug/l
RT: 11.713 min Scan# 1743
Delta R.T. 0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion:119 Resp: 191439

Ion	Ratio	Lower	Upper
119	100		
91	71.8	30.7	92.1
134	24.2	11.7	35.0





#84
1,2,4-Trimethylbenzene
Concen: 51.727 ug/l
RT: 11.750 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

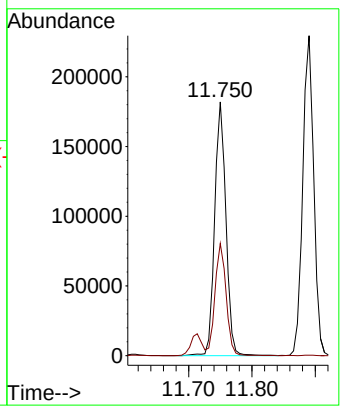
Tgt Ion:105 Resp: 22454

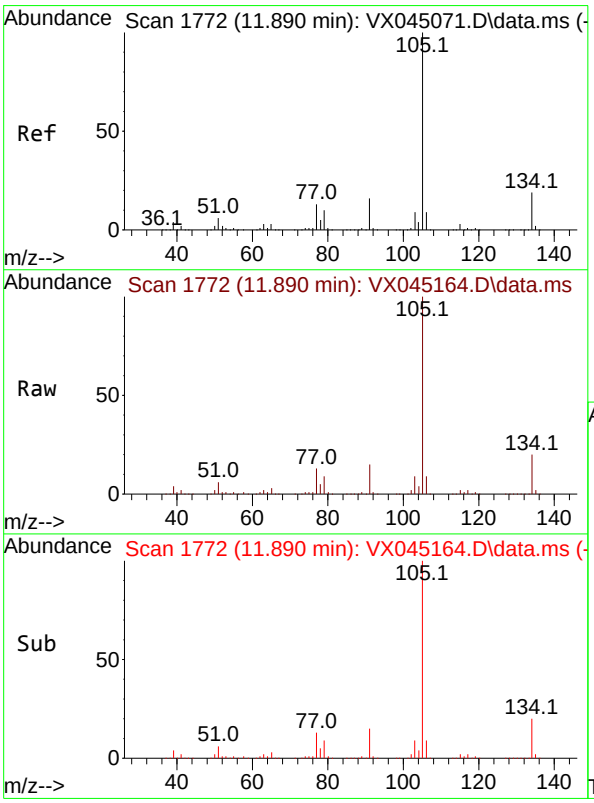
Ion	Ratio	Lower	Upper
105	100		
120	43.9	22.1	66.1

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

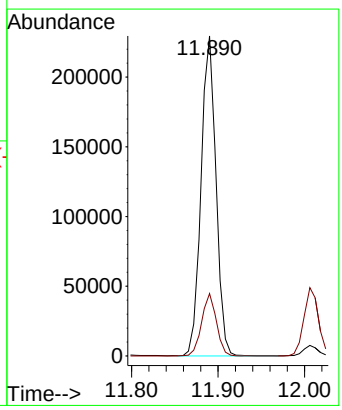


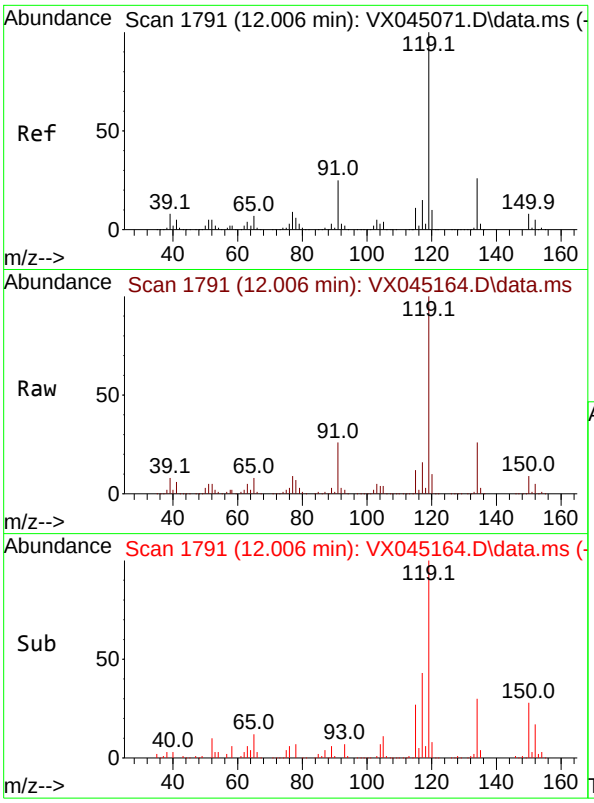


#85
sec-Butylbenzene
Concen: 51.789 ug/l
RT: 11.890 min Scan# 1772
Delta R.T. 0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion:105 Resp: 274996

Ion	Ratio	Lower	Upper
105	100		
134	19.2	9.8	29.4





#86
p-Isopropyltoluene
Concen: 51.865 ug/l
RT: 12.006 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

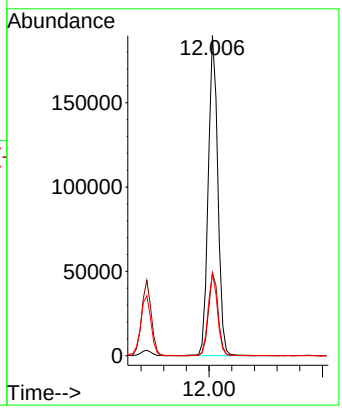
Tgt Ion:119 Resp: 22256

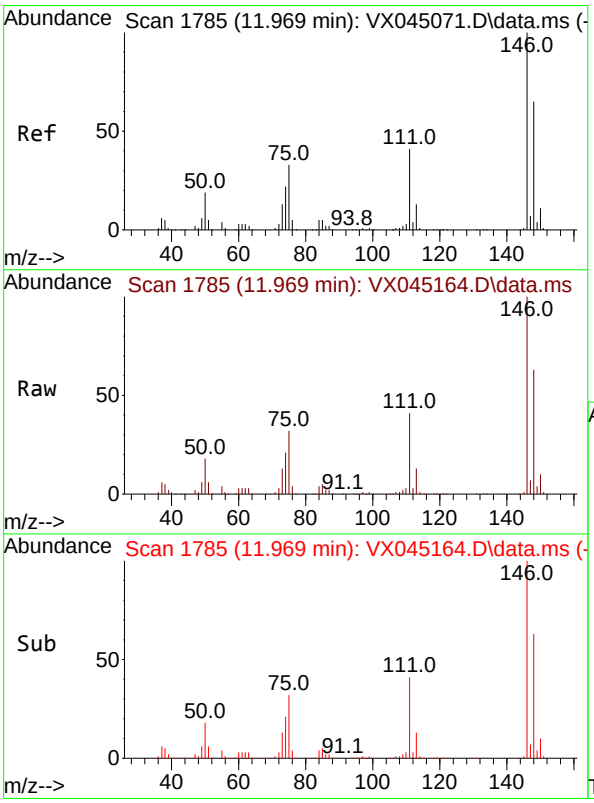
Ion	Ratio	Lower	Upper
119	100		
134	25.8	12.9	38.6
91	25.3	12.7	38.0

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

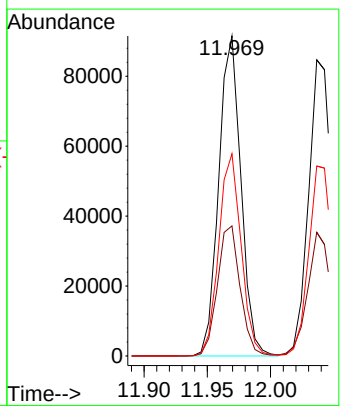


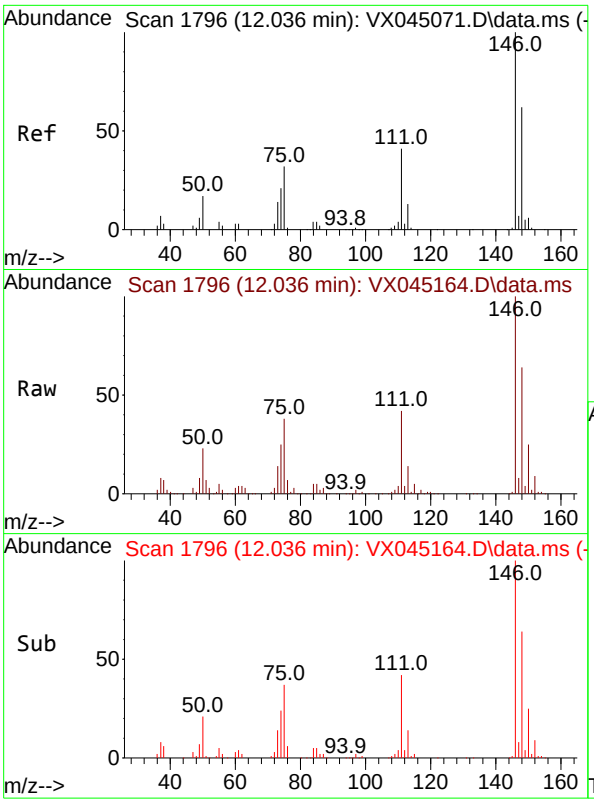


#87
1,3-Dichlorobenzene
Concen: 49.643 ug/l
RT: 11.969 min Scan# 1785
Delta R.T. 0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion:146 Resp: 111489

Ion	Ratio	Lower	Upper
146	100		
111	41.8	21.1	63.4
148	63.8	31.9	95.7





#88
1,4-Dichlorobenzene
Concen: 48.307 ug/l
RT: 12.036 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

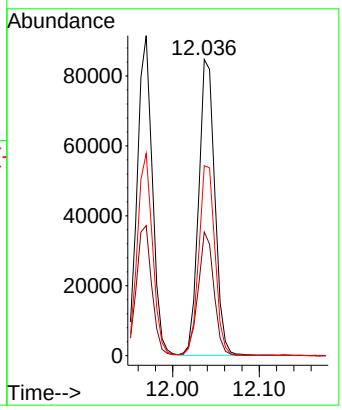
Tgt Ion:146 Resp: 10975

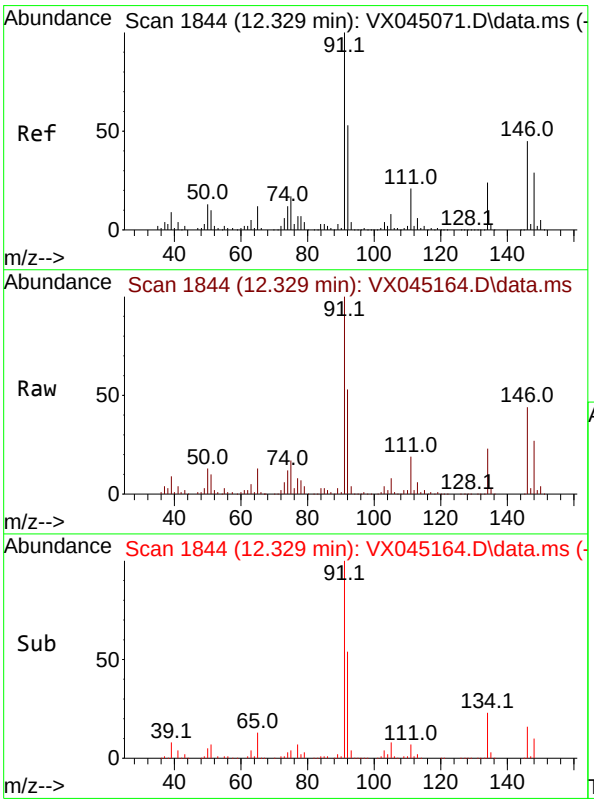
Ion	Ratio	Lower	Upper
146	100		
111	40.9	20.2	60.5
148	64.5	31.9	95.9

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

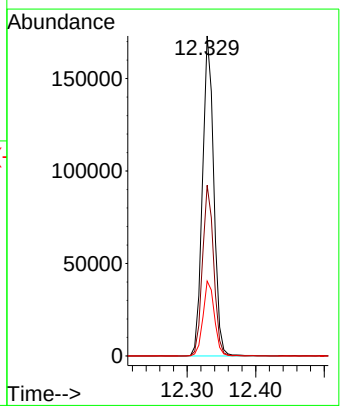


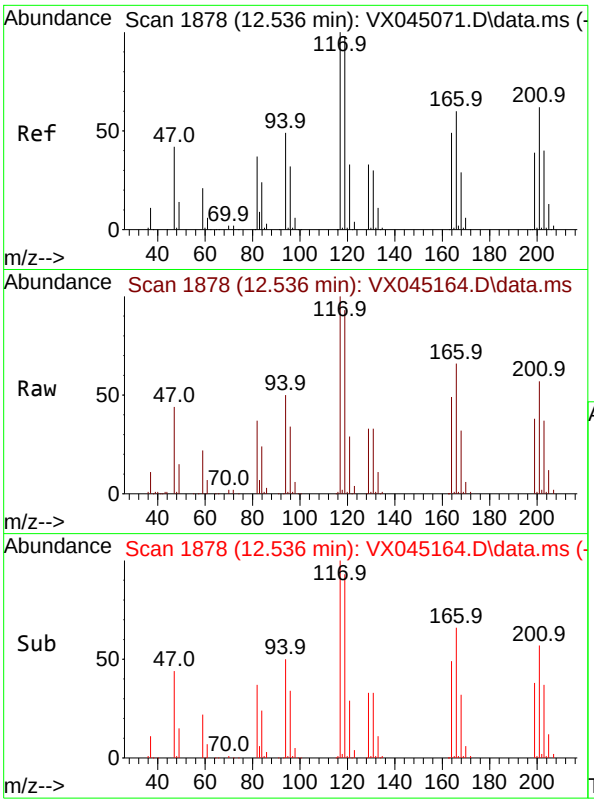


#89
n-Butylbenzene
Concen: 53.723 ug/l
RT: 12.329 min Scan# 1844
Delta R.T. -0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion: 91 Resp: 198557

Ion	Ratio	Lower	Upper
91	100		
92	53.1	26.7	80.0
134	23.6	12.2	36.6





#90
Hexachloroethane
Concen: 49.070 ug/l
RT: 12.536 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion:117 Resp: 3808

Ion	Ratio	Lower	Upper
117	100		
201	62.5	31.9	95.9

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MSD

Manual Integrations
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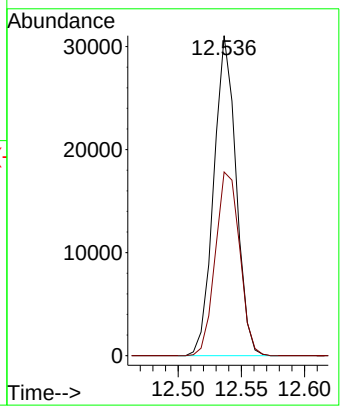
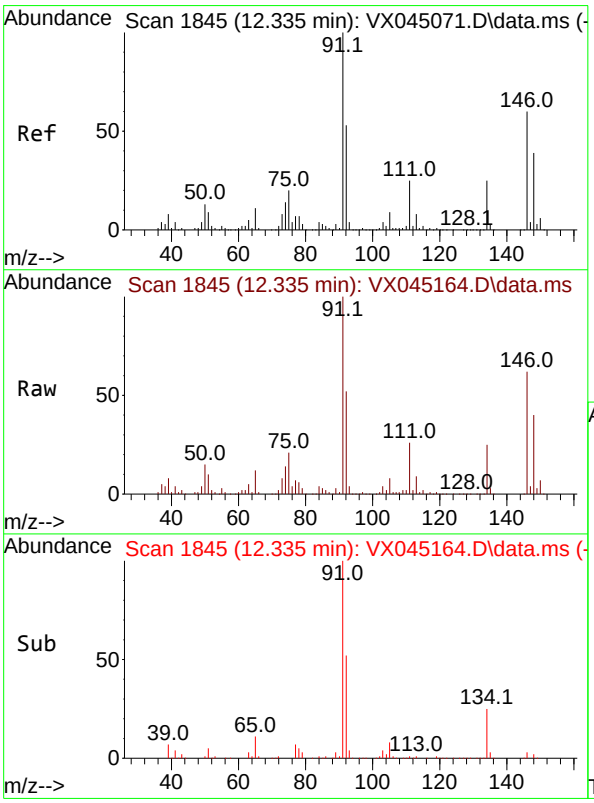
Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

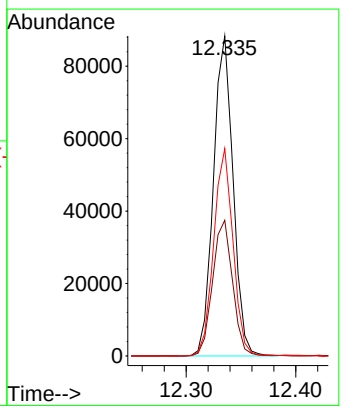


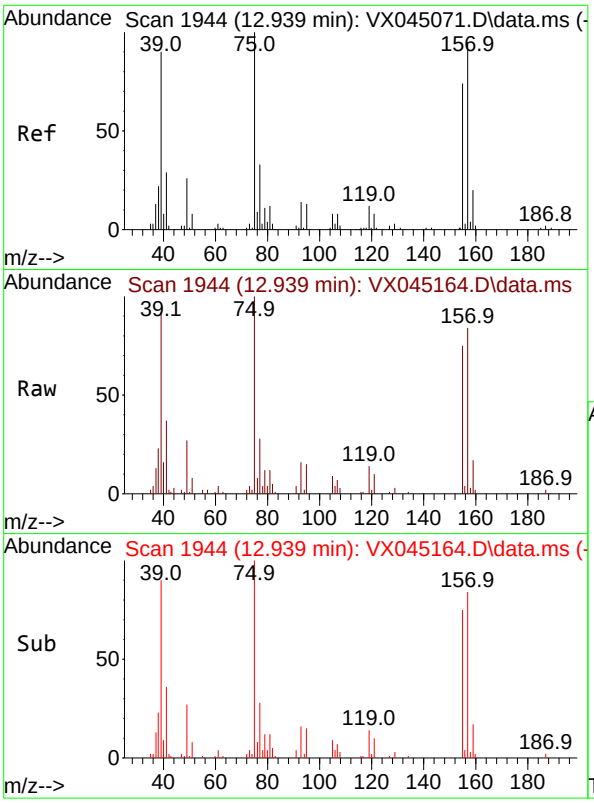


#91
1,2-Dichlorobenzene
Concen: 48.912 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion:146 Resp: 110193

Ion	Ratio	Lower	Upper
146	100		
111	43.2	21.6	65.0
148	63.9	31.9	95.9





#92
1,2-Dibromo-3-Chloropropane
Concen: 17.187 ug/l
RT: 12.939 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion: 75 Resp: 655

Ion	Ratio	Lower	Upper
75	100		
155	77.0	39.6	118.7
157	96.5	51.1	153.4

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MSD

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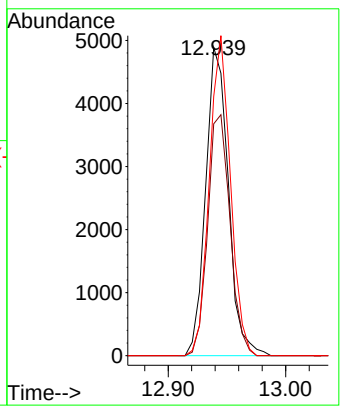
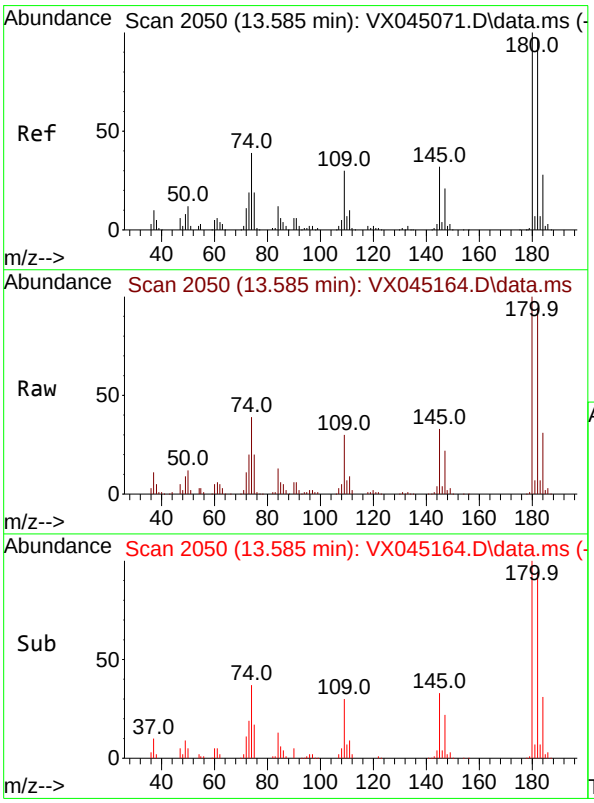
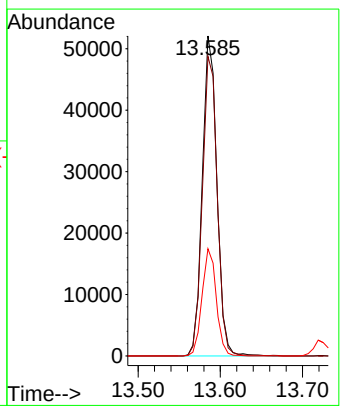


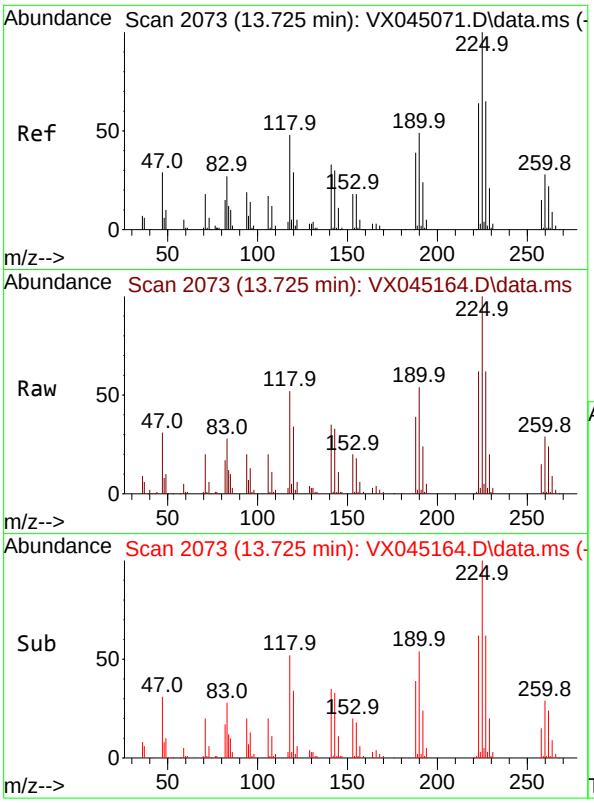


#93
1,2,4-Trichlorobenzene
Concen: 49.957 ug/l
RT: 13.585 min Scan# 2050
Delta R.T. 0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion:180 Resp: 64085

Ion	Ratio	Lower	Upper
180	100		
182	95.3	47.3	141.9
145	32.7	16.3	48.9





#94
Hexachlorobutadiene
Concen: 48.257 ug/l
RT: 13.725 min Scan# 2(
Delta R.T. 0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion:225 Resp: 2538(

Ion	Ratio	Lower	Upper
225	100		
223	61.6	31.9	95.7
227	63.0	31.4	94.0

Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MSD

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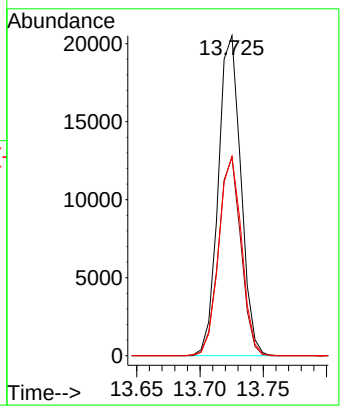
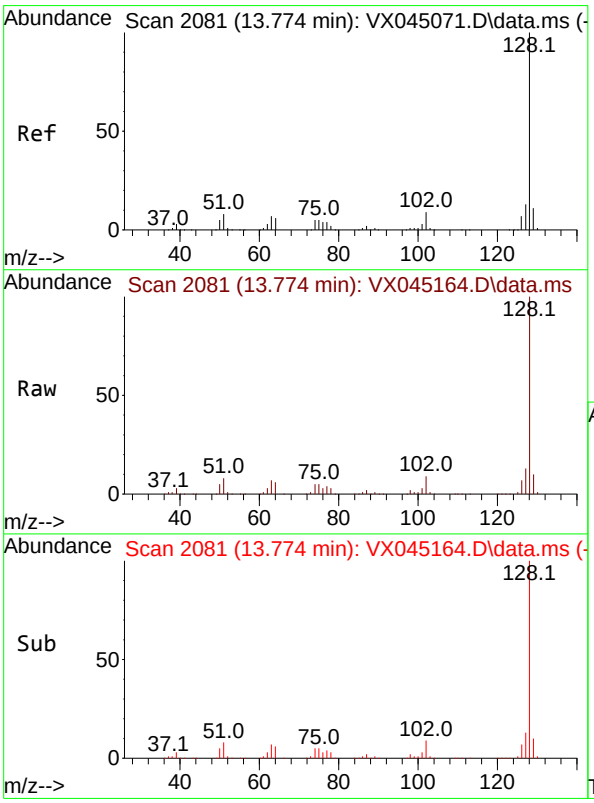
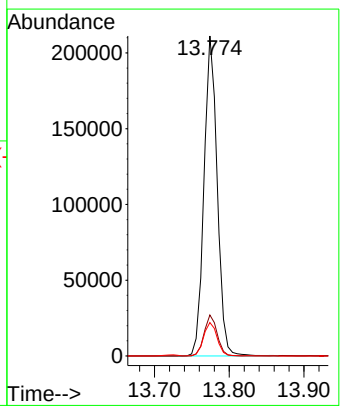


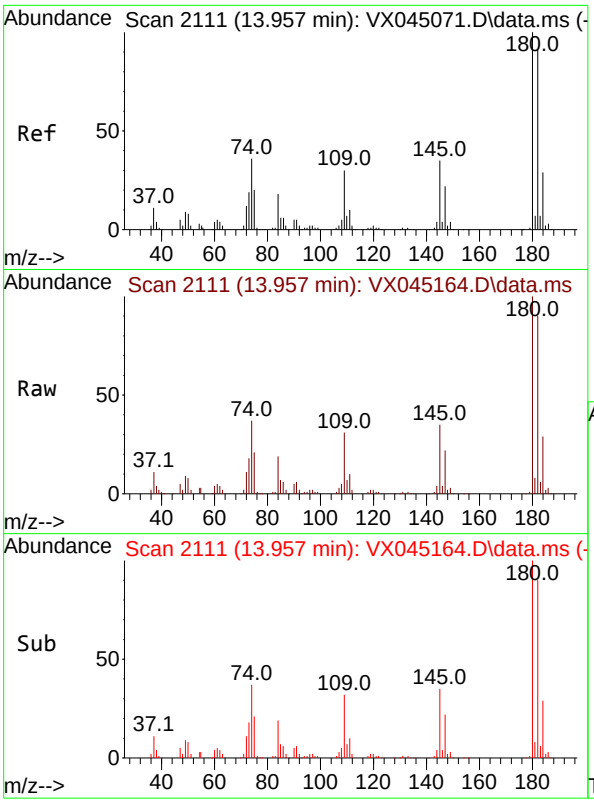


#95
Naphthalene
Concen: 52.481 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. 0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion:128 Resp: 258663

Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.3	15.5
129	10.7	8.7	13.1

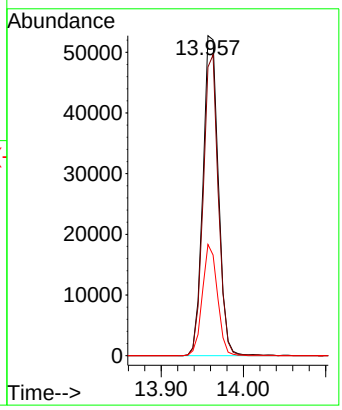




#96
1,2,3-Trichlorobenzene
Concen: 50.923 ug/l
RT: 13.957 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX045164.D
Acq: 06 Mar 2025 13:33

Tgt Ion:180 Resp: 6891

Ion	Ratio	Lower	Upper
180	100		
182	92.2	47.5	142.6
145	33.9	17.0	50.9



Instrument :
MSVOA_X
ClientSampleId :
BR-05-465-030525MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 03/10/2025
Supervised By :Mahesh Dadoda 03/10/2025

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

Manual Integration Report

Sequence:	VX022825	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VX045068.D	1,2,3-Trichloropropane	JOHN	2/28/2025 10:05:09 AM	MMDadoda	2/28/2025 11:09:31 AM	Peak Integrated by Software
VSTDICC001	VX045068.D	1,4-Dichlorobenzene	JOHN	2/28/2025 10:05:09 AM	MMDadoda	2/28/2025 11:09:31 AM	Peak Integrated by Software
VSTDICC001	VX045068.D	Carbon Tetrachloride	JOHN	2/28/2025 10:05:09 AM	MMDadoda	2/28/2025 11:09:31 AM	Peak Integrated by Software
VSTDICC001	VX045068.D	Chloroethane	JOHN	2/28/2025 10:05:09 AM	MMDadoda	2/28/2025 11:09:31 AM	Peak Integrated by Software
VSTDICC001	VX045068.D	Ethyl Acetate	JOHN	2/28/2025 10:05:09 AM	MMDadoda	2/28/2025 11:09:31 AM	Peak Integrated by Software
VSTDICC001	VX045068.D	Methacrylonitrile	JOHN	2/28/2025 10:05:09 AM	MMDadoda	2/28/2025 11:09:31 AM	Peak Integrated by Software
VSTDICC001	VX045068.D	Methyl methacrylate	JOHN	2/28/2025 10:05:09 AM	MMDadoda	2/28/2025 11:09:31 AM	Peak Integrated by Software
VSTDICC005	VX045069.D	1,2,3-Trichloropropane	JOHN	2/28/2025 10:05:14 AM	MMDadoda	2/28/2025 11:09:31 AM	Peak Integrated by Software
VSTDICC005	VX045069.D	Tert butyl alcohol	JOHN	2/28/2025 10:05:14 AM	MMDadoda	2/28/2025 11:09:31 AM	Peak Integrated by Software
VSTDICC020	VX045070.D	1,2,3-Trichloropropane	JOHN	2/28/2025 10:05:21 AM	MMDadoda	2/28/2025 11:09:33 AM	Peak Integrated by Software
VSTDICCC050	VX045071.D	1,2,3-Trichloropropane	JOHN	2/28/2025 10:05:25 AM	MMDadoda	2/28/2025 11:09:35 AM	Peak Integrated by Software
VSTDICC100	VX045072.D	1,2,3-Trichloropropane	JOHN	2/28/2025 10:05:30 AM	MMDadoda	2/28/2025 11:09:37 AM	Peak Integrated by Software
VSTDICC150	VX045073.D	1,2,3-Trichloropropane	JOHN	2/28/2025 10:05:33 AM	MMDadoda	2/28/2025 11:09:42 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VX022825	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICV050	VX045075.D	1,2,3-Trichloropropane	JOHN	2/28/2025 10:05:38 AM	MMDadoda	2/28/2025 11:09:44 AM	Peak Integrated by Software
VSTDCCC050	VX045077.D	1,2,3-Trichloropropane	JOHN	3/3/2025 8:20:45 AM	MMDadoda	3/3/2025 1:49:43 PM	Peak Integrated by Software
VSTDCCC050	VX045077.D	Tert butyl alcohol	JOHN	3/3/2025 8:20:45 AM	MMDadoda	3/3/2025 1:49:43 PM	Peak Integrated by Software
VSTDCCC050	VX045098.D	1,2,3-Trichloropropane	JOHN	3/3/2025 8:20:59 AM	MMDadoda	3/3/2025 1:49:50 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VX030525	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VX045127.D	1,2,3-Trichloropropane	JOHN	3/6/2025 8:19:47 AM	MMDadoda	3/6/2025 2:56:18 PM	Peak Integrated by Software
VX0305WBS01	VX045130.D	1,2,3-Trichloropropane	JOHN	3/6/2025 8:19:51 AM	MMDadoda	3/6/2025 2:56:16 PM	Peak Integrated by Software
VSTDCCC050	VX045153.D	1,2,3-Trichloropropane	JOHN	3/6/2025 8:21:33 AM	MMDadoda	3/6/2025 2:56:19 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VX030625	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VX045155.D	1,2,3-Trichloropropane	JOHN	3/10/2025 9:41:16 AM	MMDadoda	3/10/2025 2:26:53 PM	Peak Integrated by Software
VX0306WBS01	VX045158.D	1,2,3-Trichloropropane	JOHN	3/10/2025 9:41:21 AM	MMDadoda	3/10/2025 2:26:53 PM	Peak Integrated by Software
Q1501-05MS	VX045163.D	1,2,3-Trichloropropane	JOHN	3/10/2025 9:41:30 AM	MMDadoda	3/10/2025 2:26:56 PM	Peak Integrated by Software
Q1501-06MSD	VX045164.D	1,2,3-Trichloropropane	JOHN	3/10/2025 9:41:34 AM	MMDadoda	3/10/2025 2:26:57 PM	Peak Integrated by Software
VSTDCCC050	VX045181.D	1,2,3-Trichloropropane	JOHN	3/10/2025 9:42:04 AM	MMDadoda	3/10/2025 2:27:00 PM	Peak Integrated by Software

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX022825

Review By	Mahesh Dadoda	Review On	2/28/2025 11:09:50 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	2/28/2025 11:11:09 AM		
SubDirectory	VX022825	HP Acquire Method		HP Processing Method	82X022825W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133187,VP133189
Initial Calibration Stds	VP133194,VP133195,VP133196,VP133197,VP133198,VP133199
CCC	VP133188,VP133190
Internal Standard/PEM	
ICV/I.BLK	VP133200
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr #	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX045067.D	28 Feb 2025 01:03	JC/MD	Ok
2	VSTDICC001	VX045068.D	28 Feb 2025 01:27	JC/MD	Ok,M
3	VSTDICC005	VX045069.D	28 Feb 2025 02:13	JC/MD	Ok,M
4	VSTDICC020	VX045070.D	28 Feb 2025 02:37	JC/MD	Ok,M
5	VSTDICCC050	VX045071.D	28 Feb 2025 03:00	JC/MD	Ok,M
6	VSTDICC100	VX045072.D	28 Feb 2025 03:23	JC/MD	Ok,M
7	VSTDICC150	VX045073.D	28 Feb 2025 03:47	JC/MD	Ok,M
8	IBLK	VX045074.D	28 Feb 2025 04:10	JC/MD	Ok
9	VSTDICV050	VX045075.D	28 Feb 2025 04:33	JC/MD	Ok,M
10	BFB	VX045076.D	28 Feb 2025 10:03	JC/MD	Ok
11	VSTDCCC050	VX045077.D	28 Feb 2025 10:32	JC/MD	Ok,M
12	VX0228MBL01	VX045078.D	28 Feb 2025 11:00	JC/MD	Ok
13	VX0228WBL01	VX045079.D	28 Feb 2025 11:23	JC/MD	Ok
14	VX0228WBS01	VX045080.D	28 Feb 2025 11:46	JC/MD	Ok,M
15	VX0228WBSD01	VX045081.D	28 Feb 2025 12:13	JC/MD	Ok,M
16	Q1401-03	VX045082.D	28 Feb 2025 12:37	JC/MD	Ok
17	Q1401-06	VX045083.D	28 Feb 2025 13:00	JC/MD	Ok
18	Q1423-01	VX045084.D	28 Feb 2025 13:23	JC/MD	Ok
19	Q1423-03	VX045085.D	28 Feb 2025 13:47	JC/MD	Ok
20	Q1403-01	VX045086.D	28 Feb 2025 14:10	JC/MD	Ok
21	Q1403-02	VX045087.D	28 Feb 2025 14:33	JC/MD	Ok

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX022825

Review By	Mahesh Dadoda	Review On	2/28/2025 11:09:50 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	2/28/2025 11:11:09 AM		
SubDirectory	VX022825	HP Acquire Method		HP Processing Method	82X022825W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133187,VP133189
Initial Calibration Stds	VP133194,VP133195,VP133196,VP133197,VP133198,VP133199
CCC	VP133188,VP133190
Internal Standard/PEM	
ICV/I.BLK	VP133200
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1435-01	VX045088.D	28 Feb 2025 14:57	JC/MD	Ok
23	Q1403-04	VX045089.D	28 Feb 2025 15:20	JC/MD	Ok
24	Q1462-02	VX045090.D	28 Feb 2025 15:44	JC/MD	Ok
25	Q1469-01	VX045091.D	28 Feb 2025 16:07	JC/MD	Ok
26	Q1469-02	VX045092.D	28 Feb 2025 16:31	JC/MD	Ok
27	Q1469-03	VX045093.D	28 Feb 2025 16:54	JC/MD	Ok
28	Q1469-04	VX045094.D	28 Feb 2025 17:17	JC/MD	Ok
29	Q1403-03	VX045095.D	28 Feb 2025 17:41	JC/MD	Ok
30	Q1462-01	VX045096.D	28 Feb 2025 18:04	JC/MD	Ok,M
31	IBLK	VX045097.D	28 Feb 2025 18:27	JC/MD	Ok
32	VSTDCCC050	VX045098.D	28 Feb 2025 18:50	JC/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX030525

Review By	John Carlone	Review On	3/6/2025 8:28:41 AM		
Supervise By	Mahesh Dadoda	Supervise On	3/6/2025 2:56:36 PM		
SubDirectory	VX030525	HP Acquire Method		HP Processing Method	82X022825W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133217
Initial Calibration Stds	
CCC	VP133218,VP133219
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr #	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX045126.D	05 Mar 2025 08:40	JC/MD	Ok
2	VSTDCCC050	VX045127.D	05 Mar 2025 09:12	JC/MD	Ok,M
3	VX0305MBL01	VX045128.D	05 Mar 2025 09:39	JC/MD	Ok
4	VX0305WBL01	VX045129.D	05 Mar 2025 10:03	JC/MD	Ok
5	VX0305WBS01	VX045130.D	05 Mar 2025 10:26	JC/MD	Ok,M
6	VX0305MBS01	VX045131.D	05 Mar 2025 10:53	JC/MD	Ok,M
7	Q1480-17	VX045132.D	05 Mar 2025 11:16	JC/MD	Ok
8	Q1448-04ME	VX045133.D	05 Mar 2025 11:40	JC/MD	Ok
9	IBLK	VX045134.D	05 Mar 2025 12:03	JC/MD	Ok
10	VX0305WBSD01	VX045135.D	05 Mar 2025 12:26	JC/MD	Ok,M
11	Q1478-04DL	VX045136.D	05 Mar 2025 12:50	JC/MD	Ok
12	Q1478-06DL	VX045137.D	05 Mar 2025 13:13	JC/MD	Ok
13	Q1478-02DL	VX045138.D	05 Mar 2025 13:36	JC/MD	Not Ok
14	Q1478-08	VX045139.D	05 Mar 2025 13:59	JC/MD	Not Ok
15	VX0305MBSD01	VX045140.D	05 Mar 2025 14:23	JC/MD	Ok,M
16	Q1448-04MEDL	VX045141.D	05 Mar 2025 14:46	JC/MD	Not Ok
17	IBLK	VX045142.D	05 Mar 2025 15:09	JC/MD	Ok
18	Q1478-08	VX045143.D	05 Mar 2025 15:32	JC/MD	Not Ok
19	Q1478-02DL	VX045144.D	05 Mar 2025 15:56	JC/MD	Ok
20	Q1478-08	VX045145.D	05 Mar 2025 16:19	JC/MD	Ok
21	Q1501-03	VX045146.D	05 Mar 2025 16:42	JC/MD	Ok

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX030525

Review By	John Carlone	Review On	3/6/2025 8:28:41 AM		
Supervise By	Mahesh Dadoda	Supervise On	3/6/2025 2:56:36 PM		
SubDirectory	VX030525	HP Acquire Method		HP Processing Method	82X022825W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133217
Initial Calibration Stds	
CCC	VP133218,VP133219
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1501-07	VX045147.D	05 Mar 2025 17:05	JC/MD	Ok
23	Q1501-04	VX045148.D	05 Mar 2025 17:28	JC/MD	Not Ok
24	Q1488-15	VX045149.D	05 Mar 2025 17:52	JC/MD	Ok
25	Q1488-13	VX045150.D	05 Mar 2025 18:15	JC/MD	Ok
26	Q1488-14	VX045151.D	05 Mar 2025 18:38	JC/MD	Dilution
27	Q1494-01	VX045152.D	05 Mar 2025 19:01	JC/MD	ReRun
28	VSTDCCC050	VX045153.D	05 Mar 2025 19:24	JC/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX030625

Review By	John Carlone	Review On	3/10/2025 9:58:48 AM		
Supervise By	Mahesh Dadoda	Supervise On	3/10/2025 2:27:03 PM		
SubDirectory	VX030625	HP Acquire Method		HP Processing Method	82X022825W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133226
Initial Calibration Stds	
CCC	VP133227,VP133228
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr #	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX045154.D	06 Mar 2025 09:09	JC/MD	Ok
2	VSTDCCC050	VX045155.D	06 Mar 2025 09:56	JC/MD	Ok,M
3	VX0306MBL01	VX045156.D	06 Mar 2025 10:23	JC/MD	Ok
4	VX0306WBL01	VX045157.D	06 Mar 2025 10:46	JC/MD	Ok
5	VX0306WBS01	VX045158.D	06 Mar 2025 11:10	JC/MD	Ok,M
6	Q1501-01	VX045159.D	06 Mar 2025 11:36	JC/MD	Ok
7	Q1501-02	VX045160.D	06 Mar 2025 12:00	JC/MD	Ok
8	Q1488-14DL	VX045161.D	06 Mar 2025 12:23	JC/MD	Ok,M
9	Q1501-04	VX045162.D	06 Mar 2025 12:46	JC/MD	ReRun
10	Q1501-05MS	VX045163.D	06 Mar 2025 13:09	JC/MD	Ok,M
11	Q1501-06MSD	VX045164.D	06 Mar 2025 13:33	JC/MD	Ok,M
12	Q1484-06	VX045165.D	06 Mar 2025 13:56	JC/MD	Ok
13	Q1494-01	VX045166.D	06 Mar 2025 14:19	JC/MD	Ok
14	Q1501-04RE	VX045167.D	06 Mar 2025 14:43	JC/MD	Confirms
15	PB166989TB	VX045168.D	06 Mar 2025 15:06	JC/MD	Ok
16	Q1481-02	VX045169.D	06 Mar 2025 15:29	JC/MD	Ok,M
17	Q1488-02	VX045170.D	06 Mar 2025 15:52	JC/MD	Ok
18	Q1488-04	VX045171.D	06 Mar 2025 16:16	JC/MD	Ok
19	Q1488-06	VX045172.D	06 Mar 2025 16:39	JC/MD	Ok
20	Q1488-08	VX045173.D	06 Mar 2025 17:02	JC/MD	Ok
21	Q1488-10	VX045174.D	06 Mar 2025 17:25	JC/MD	Ok

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX030625

Review By	John Carlone	Review On	3/10/2025 9:58:48 AM		
Supervise By	Mahesh Dadoda	Supervise On	3/10/2025 2:27:03 PM		
SubDirectory	VX030625	HP Acquire Method		HP Processing Method	82X022825W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133226
Initial Calibration Stds	
CCC	VP133227,VP133228
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1488-12	VX045175.D	06 Mar 2025 17:49	JC/MD	Ok
23	Q1490-02	VX045176.D	06 Mar 2025 18:12	JC/MD	Ok
24	Q1494-04	VX045177.D	06 Mar 2025 18:35	JC/MD	Ok
25	Q1494-06	VX045178.D	06 Mar 2025 18:59	JC/MD	Ok
26	Q1494-08	VX045179.D	06 Mar 2025 19:22	JC/MD	Ok
27	Q1478-15	VX045180.D	06 Mar 2025 19:45	JC/MD	Ok
28	VSTDCCC050	VX045181.D	06 Mar 2025 20:09	JC/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX022825

Review By	Mahesh Dadoda	Review On	2/28/2025 11:09:50 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	2/28/2025 11:11:09 AM		
SubDirectory	VX022825	HP Acquire Method		HP Processing Method	82X022825W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133187,VP133189
Initial Calibration Stds	VP133194,VP133195,VP133196,VP133197,VP133198,VP133199
CCC	VP133188,VP133190
Internal Standard/PEM	
ICV/I.BLK	VP133200
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr #	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX045067.D	28 Feb 2025 01:03		JC/MD	Ok
2	VSTDICC001	VSTDICC001	VX045068.D	28 Feb 2025 01:27		JC/MD	Ok,M
3	VSTDICC005	VSTDICC005	VX045069.D	28 Feb 2025 02:13		JC/MD	Ok,M
4	VSTDICC020	VSTDICC020	VX045070.D	28 Feb 2025 02:37		JC/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VX045071.D	28 Feb 2025 03:00		JC/MD	Ok,M
6	VSTDICC100	VSTDICC100	VX045072.D	28 Feb 2025 03:23		JC/MD	Ok,M
7	VSTDICC150	VSTDICC150	VX045073.D	28 Feb 2025 03:47		JC/MD	Ok,M
8	IBLK	IBLK	VX045074.D	28 Feb 2025 04:10		JC/MD	Ok
9	VSTDICV050	ICVVX022825	VX045075.D	28 Feb 2025 04:33		JC/MD	Ok,M
10	BFB	BFB	VX045076.D	28 Feb 2025 10:03		JC/MD	Ok
11	VSTDCCC050	VSTDCCC050	VX045077.D	28 Feb 2025 10:32	V12668	JC/MD	Ok,M
12	VX0228MBL01	VX0228MBL01	VX045078.D	28 Feb 2025 11:00		JC/MD	Ok
13	VX0228WBL01	VX0228WBL01	VX045079.D	28 Feb 2025 11:23		JC/MD	Ok
14	VX0228WBS01	VX0228WBS01	VX045080.D	28 Feb 2025 11:46		JC/MD	Ok,M
15	VX0228WBSD01	VX0228WBSD01	VX045081.D	28 Feb 2025 12:13		JC/MD	Ok,M
16	Q1401-03	BP-VPB-192-GW-840-8	VX045082.D	28 Feb 2025 12:37	vial B pH<2	JC/MD	Ok
17	Q1401-06	BP-VPB-192-GW-900-9	VX045083.D	28 Feb 2025 13:00	vial B pH<2	JC/MD	Ok
18	Q1423-01	BP-VPB-192-TB-20250	VX045084.D	28 Feb 2025 13:23	vial B pH<2 TB	JC/MD	Ok

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX022825

Review By	Mahesh Dadoda	Review On	2/28/2025 11:09:50 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	2/28/2025 11:11:09 AM		
SubDirectory	VX022825	HP Acquire Method		HP Processing Method	82X022825W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133187,VP133189
Initial Calibration Stds	VP133194,VP133195,VP133196,VP133197,VP133198,VP133199
CCC	VP133188,VP133190
Internal Standard/PEM	
ICV/I.BLK	VP133200
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q1423-03	BP-VPB-192-EB-20250	VX045085.D	28 Feb 2025 13:47	vial B pH<2 EB	JC/MD	Ok
20	Q1403-01	Storage-Blank-SOIL-RE	VX045086.D	28 Feb 2025 14:10	vial B pH<2	JC/MD	Ok
21	Q1403-02	Storage-Blank-WATER-	VX045087.D	28 Feb 2025 14:33	vial B pH<2	JC/MD	Ok
22	Q1435-01	286107	VX045088.D	28 Feb 2025 14:57	vial A pH<2	JC/MD	Ok
23	Q1403-04	Storage-Blank-SAMPLE	VX045089.D	28 Feb 2025 15:20	vial B pH<2	JC/MD	Ok
24	Q1462-02	FB	VX045090.D	28 Feb 2025 15:44	vial A pH<2 FB	JC/MD	Ok
25	Q1469-01	Storage-Blank-SOIL-RE	VX045091.D	28 Feb 2025 16:07	vial A pH<2	JC/MD	Ok
26	Q1469-02	Storage-Blank-WATER-	VX045092.D	28 Feb 2025 16:31	vial A pH<2	JC/MD	Ok
27	Q1469-03	Storage-Blank-WATER-	VX045093.D	28 Feb 2025 16:54	vial A pH<2	JC/MD	Ok
28	Q1469-04	Storage-Blank-SAMPLE	VX045094.D	28 Feb 2025 17:17	vial A pH<2	JC/MD	Ok
29	Q1403-03	Storage-Blank-WATER-	VX045095.D	28 Feb 2025 17:41	vial B pH<2	JC/MD	Ok
30	Q1462-01	MW2	VX045096.D	28 Feb 2025 18:04	vial A pH<2	JC/MD	Ok,M
31	IBLK	IBLK	VX045097.D	28 Feb 2025 18:27		JC/MD	Ok
32	VSTDCCC050	VSTDCCC050EC	VX045098.D	28 Feb 2025 18:50		JC/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX030525

Review By	John Carlone	Review On	3/6/2025 8:28:41 AM		
Supervise By	Mahesh Dadoda	Supervise On	3/6/2025 2:56:36 PM		
SubDirectory	VX030525	HP Acquire Method		HP Processing Method	82X022825W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133217
Initial Calibration Stds	
CCC	VP133218,VP133219
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	VX045126.D	05 Mar 2025 08:40		JC/MD	Ok
2	VSTDCCC050	VSTDCCC050	VX045127.D	05 Mar 2025 09:12	pH#Lot#V12668	JC/MD	Ok,M
3	VX0305MBL01	VX0305MBL01	VX045128.D	05 Mar 2025 09:39		JC/MD	Ok
4	VX0305WBL01	VX0305WBL01	VX045129.D	05 Mar 2025 10:03		JC/MD	Ok
5	VX0305WBS01	VX0305WBS01	VX045130.D	05 Mar 2025 10:26		JC/MD	Ok,M
6	VX0305MBS01	VX0305MBS01	VX045131.D	05 Mar 2025 10:53		JC/MD	Ok,M
7	Q1480-17	TP-3	VX045132.D	05 Mar 2025 11:16		JC/MD	Ok
8	Q1448-04ME	P3ME	VX045133.D	05 Mar 2025 11:40		JC/MD	Ok
9	IBLK	IBLK	VX045134.D	05 Mar 2025 12:03		JC/MD	Ok
10	VX0305WBSD01	VX0305WBSD01	VX045135.D	05 Mar 2025 12:26		JC/MD	Ok,M
11	Q1478-04DL	IDW-AQ-DRUM-616-02	VX045136.D	05 Mar 2025 12:50	vial B pH<2	JC/MD	Ok
12	Q1478-06DL	IDW-AQ-DRUM-614-02	VX045137.D	05 Mar 2025 13:13	vial B pH<2	JC/MD	Ok
13	Q1478-02DL	IDW-AQ-DRUM-610-02	VX045138.D	05 Mar 2025 13:36	Not req.	JC/MD	Not Ok
14	Q1478-08	IDW-AQ-DRUM-612-02	VX045139.D	05 Mar 2025 13:59	Need lower dilution	JC/MD	Not Ok
15	VX0305MBSD01	VX0305MBSD01	VX045140.D	05 Mar 2025 14:23		JC/MD	Ok,M
16	Q1448-04MEDL	P3MEDL	VX045141.D	05 Mar 2025 14:46	Not req.	JC/MD	Not Ok
17	IBLK	IBLK	VX045142.D	05 Mar 2025 15:09		JC/MD	Ok
18	Q1478-08	IDW-AQ-DRUM-612-02	VX045143.D	05 Mar 2025 15:32	Need lower dilution	JC/MD	Not Ok

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX030525

Review By	John Carlone	Review On	3/6/2025 8:28:41 AM		
Supervise By	Mahesh Dadoda	Supervise On	3/6/2025 2:56:36 PM		
SubDirectory	VX030525	HP Acquire Method		HP Processing Method	82X022825W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133217
Initial Calibration Stds	
CCC	VP133218,VP133219
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q1478-02DL	IDW-AQ-DRUM-610-02	VX045144.D	05 Mar 2025 15:56	vial B pH<2	JC/MD	Ok
20	Q1478-08	IDW-AQ-DRUM-612-02	VX045145.D	05 Mar 2025 16:19	vial A pH<2	JC/MD	Ok
21	Q1501-03	EB01-030525	VX045146.D	05 Mar 2025 16:42	vial A pH<2 EB	JC/MD	Ok
22	Q1501-07	TB01-030525	VX045147.D	05 Mar 2025 17:05	vial A pH<2 TB	JC/MD	Ok
23	Q1501-04	BR-05-465-030525	VX045148.D	05 Mar 2025 17:28	Need Straight Run	JC/MD	Not Ok
24	Q1488-15	TB03042025	VX045149.D	05 Mar 2025 17:52	vial A pH<2 TB	JC/MD	Ok
25	Q1488-13	ENV-102-GW01	VX045150.D	05 Mar 2025 18:15	vial A pH<2	JC/MD	Ok
26	Q1488-14	ENV-104-GW01	VX045151.D	05 Mar 2025 18:38	vial A pH<2 Need 4X	JC/MD	Dilution
27	Q1494-01	PURGE-WATER	VX045152.D	05 Mar 2025 19:01	vial A pH<2 E flag in previous sample	JC/MD	ReRun
28	VSTDCCC050	VSTDCCC050EC	VX045153.D	05 Mar 2025 19:24		JC/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX030625

Review By	John Carlone	Review On	3/10/2025 9:58:48 AM		
Supervise By	Mahesh Dadoda	Supervise On	3/10/2025 2:27:03 PM		
SubDirectory	VX030625	HP Acquire Method		HP Processing Method	82X022825W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133226
Initial Calibration Stds	
CCC	VP133227,VP133228
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	VX045154.D	06 Mar 2025 09:09		JC/MD	Ok
2	VSTDCCC050	VSTDCCC050	VX045155.D	06 Mar 2025 09:56	pH#Lot#V12668	JC/MD	Ok,M
3	VX0306MBL01	VX0306MBL01	VX045156.D	06 Mar 2025 10:23		JC/MD	Ok
4	VX0306WBL01	VX0306WBL01	VX045157.D	06 Mar 2025 10:46		JC/MD	Ok
5	VX0306WBS01	VX0306WBS01	VX045158.D	06 Mar 2025 11:10		JC/MD	Ok,M
6	Q1501-01	MW-16B-87.5-030425	VX045159.D	06 Mar 2025 11:36	vial A pH<2	JC/MD	Ok
7	Q1501-02	MW-16B-87.5-030425-I	VX045160.D	06 Mar 2025 12:00	vial A pH<2	JC/MD	Ok
8	Q1488-14DL	ENV-104-GW01DL	VX045161.D	06 Mar 2025 12:23	vial B pH<2	JC/MD	Ok,M
9	Q1501-04	BR-05-465-030525	VX045162.D	06 Mar 2025 12:46	vial A pH<2 Surrogate Fail	JC/MD	ReRun
10	Q1501-05MS	BR-05-465-030525MS	VX045163.D	06 Mar 2025 13:09	vial A pH<2	JC/MD	Ok,M
11	Q1501-06MSD	BR-05-465-030525MSD	VX045164.D	06 Mar 2025 13:33	vial A pH<2	JC/MD	Ok,M
12	Q1484-06	TR-OTR-COMP-01	VX045165.D	06 Mar 2025 13:56	vial A pH#5.0	JC/MD	Ok
13	Q1494-01	PURGE-WATER	VX045166.D	06 Mar 2025 14:19	vial B pH<2	JC/MD	Ok
14	Q1501-04RE	BR-05-465-030525RE	VX045167.D	06 Mar 2025 14:43	vial B pH<2 Surrogate Fail	JC/MD	Confirms
15	PB166989TB	PB166989TB	VX045168.D	06 Mar 2025 15:06		JC/MD	Ok
16	Q1481-02	WC-K1311	VX045169.D	06 Mar 2025 15:29	vial A pH#5.0	JC/MD	Ok,M
17	Q1488-02	ENV-101-SB01	VX045170.D	06 Mar 2025 15:52	vial A pH#5.0	JC/MD	Ok
18	Q1488-04	ENV-101-SB02	VX045171.D	06 Mar 2025 16:16	vial A pH#5.0	JC/MD	Ok

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX030625

Review By	John Carlone	Review On	3/10/2025 9:58:48 AM		
Supervise By	Mahesh Dadoda	Supervise On	3/10/2025 2:27:03 PM		
SubDirectory	VX030625	HP Acquire Method		HP Processing Method	82X022825W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133226
Initial Calibration Stds	
CCC	VP133227,VP133228
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q1488-06	ENV-102-SB01	VX045172.D	06 Mar 2025 16:39	vial A pH#5.0	JC/MD	Ok
20	Q1488-08	ENV-102-SB02	VX045173.D	06 Mar 2025 17:02	vial A pH#5.0	JC/MD	Ok
21	Q1488-10	ENV-104-SB01	VX045174.D	06 Mar 2025 17:25	vial A pH#5.0	JC/MD	Ok
22	Q1488-12	ENV-104-SB02	VX045175.D	06 Mar 2025 17:49	vial A pH#5.0	JC/MD	Ok
23	Q1490-02	CLAY-SLUDGE-DRUM	VX045176.D	06 Mar 2025 18:12	vial A pH#5.0	JC/MD	Ok
24	Q1494-04	ASPHALT-SOIL	VX045177.D	06 Mar 2025 18:35	vial A pH#5.0	JC/MD	Ok
25	Q1494-06	SOIL	VX045178.D	06 Mar 2025 18:59	vial A pH#5.0	JC/MD	Ok
26	Q1494-08	SOIL-COMP	VX045179.D	06 Mar 2025 19:22	vial A pH#5.0	JC/MD	Ok
27	Q1478-15	IDW-SO-DRUM-582-02	VX045180.D	06 Mar 2025 19:45	vial A pH#5.0	JC/MD	Ok
28	VSTDCCC050	VSTDCCC050EC	VX045181.D	06 Mar 2025 20:09		JC/MD	Ok,M

M : Manual Integration

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Prep Standard - Chemical Standard Summary

Order ID : Q1501

Test : VOCMS Group3

Prepbatch ID :

Sequence ID/Qc Batch ID: VX030525,VX030625,

Standard ID :
VP131746,VP131767,VP132035,VP132096,VP133036,VP133174,VP133178,VP133217,VP133218,VP133219,VP133226,VP133227,VP133228,

Chemical ID :
V13391,V13457,V13460,V13465,V13466,V13706,V14154,V14175,V14176,V14289,V14433,V14439,V14521,V14522,V14613,V14614,V14624,V14630,V14631,V14632,V14633,V14722,V14723,V14724,V14744,V14754,V14809,V14814,V14842,V14872,V14873,V14874,V14875,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	VP133217	03/05/2025	03/06/2025	John Carlone	None	None	Mahesh Dadoda 03/07/2025

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	VP133218	03/05/2025	03/06/2025	John Carlone	None	None	Mahesh Dadoda 03/07/2025

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	VP133219	03/05/2025	03/06/2025	John Carlone	None	None	Mahesh Dadoda 03/07/2025

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
589	BFB TUNE CHECK	VP133226	03/06/2025	03/07/2025	John Carlone	None	None	Mahesh Dadoda 03/11/2025

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
620	50 PPB CCC, 8260-Water	VP133227	03/06/2025	03/07/2025	John Carlone	None	None	Mahesh Dadoda 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
620	50 PPB CCC, 8260-Water	VP133228	03/06/2025	03/07/2025	John Carlone	None	None	Mahesh Dadoda 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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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

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95319 / Revised Additions Mix (Min = 5)	091724	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 #
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

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

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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	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

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

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 #
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

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

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.	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	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.: 23I0762004
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

5 V14

Exp 02/14/25

ANAB ISO 17034 Accredite
AR-1539 Certificate Number
https://Absolutestandards.cor

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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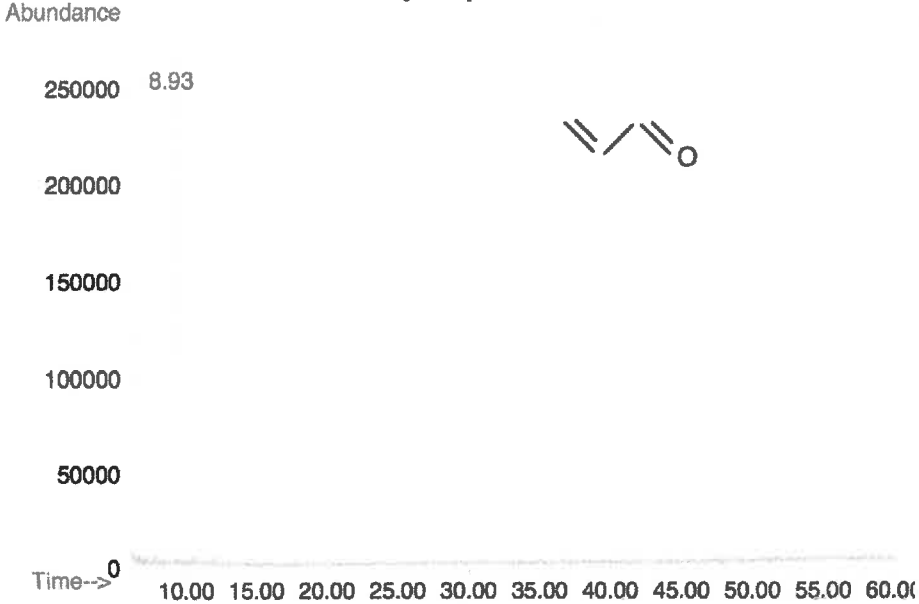

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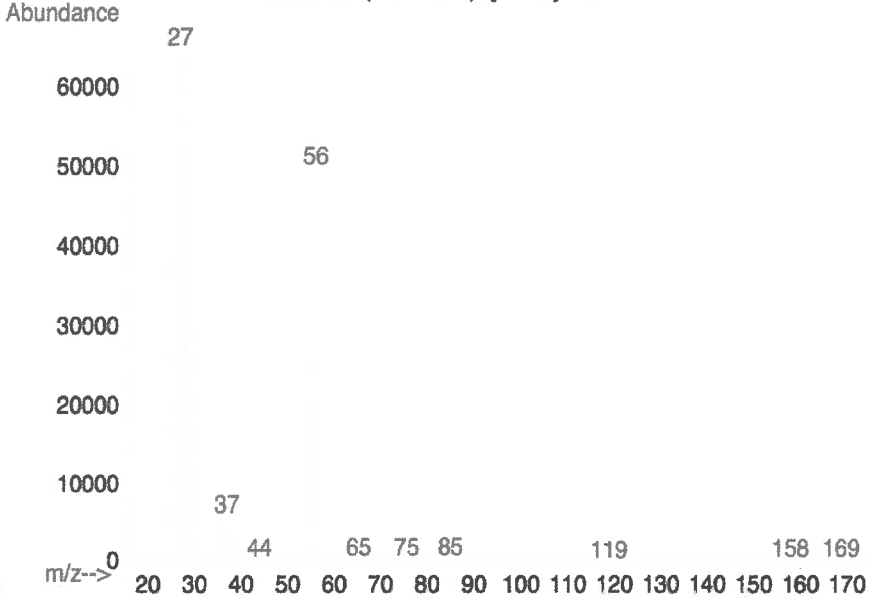

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, 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. Hamden CT, 06514	Emergency Telephone International	**1-352-323-3500**
		Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

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 V14

ANAB ISO 17034 Accredite
AR-1539 Certificate Number
https://Absolutestandards.cor

Exp 02/14/25

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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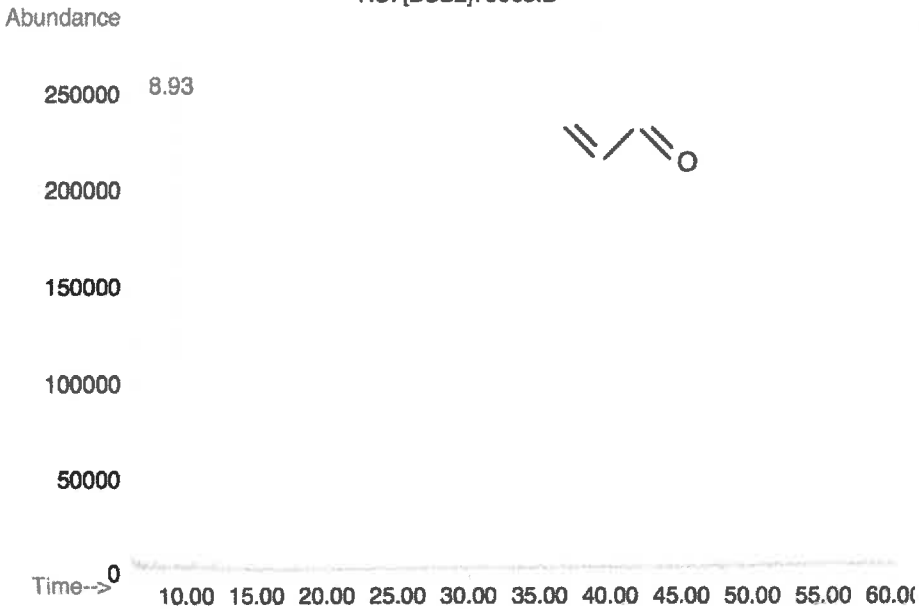

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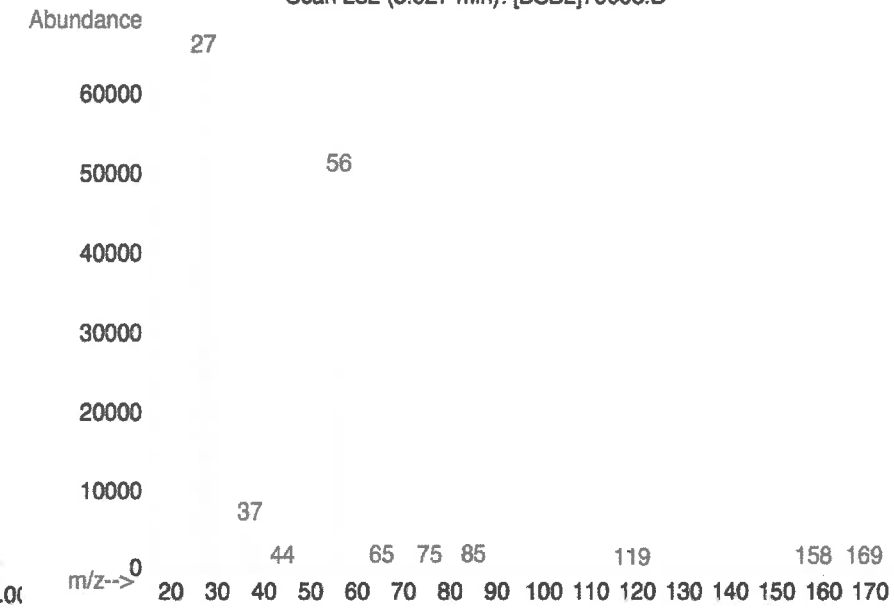

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, 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
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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. Hamden CT, 06514	Emergency Telephone International	**1-352-323-3500**
		Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

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 V14

ANAB ISO 17034 Accredite
AR-1539 Certificate Number
https://Absolutestandards.cor

Exp 02/14/25

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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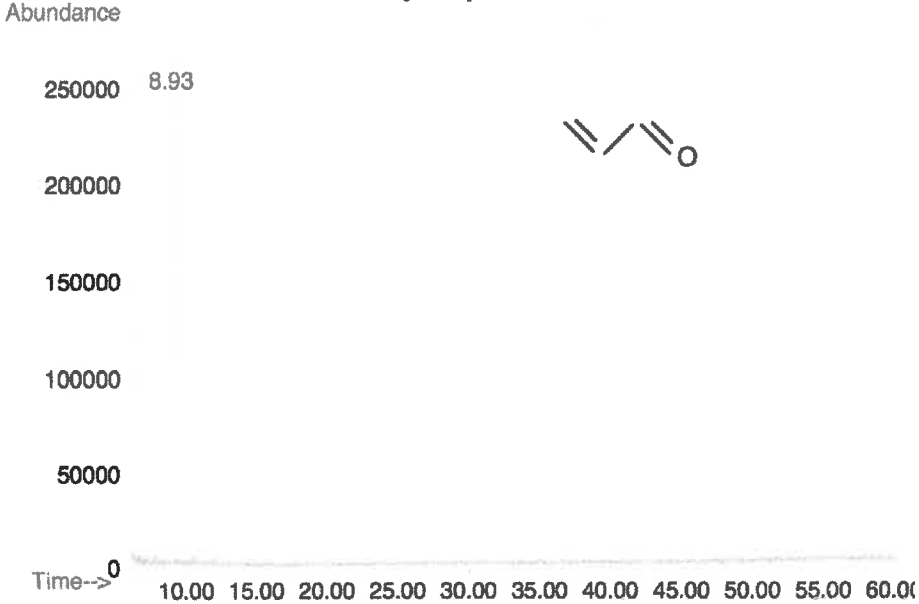

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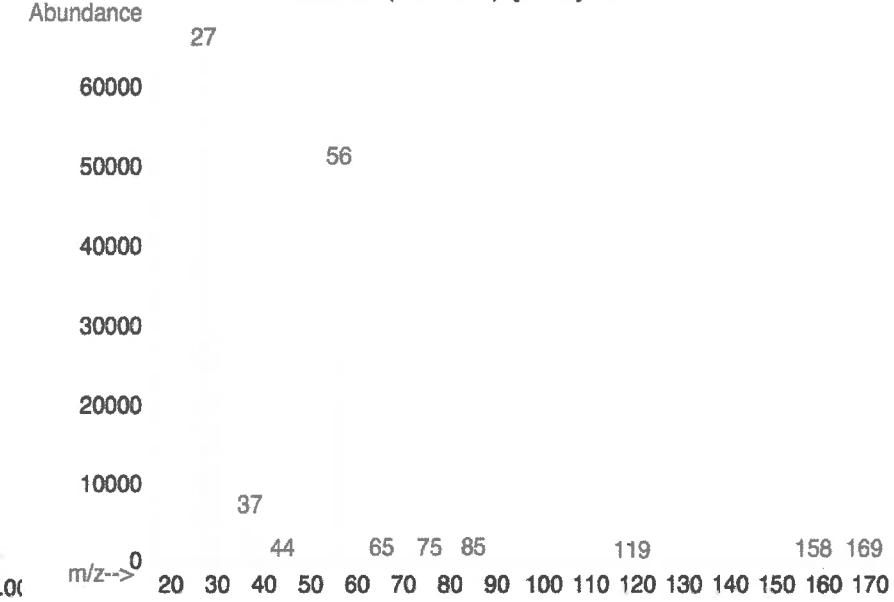

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, 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. Hamden CT, 06514	Emergency Telephone International	**1-352-323-3500**
		Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

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 V14

Exp 02/14/25

ANAB ISO 17034 Accredite
AR-1539 Certificate Number
https://Absolutestandards.cor

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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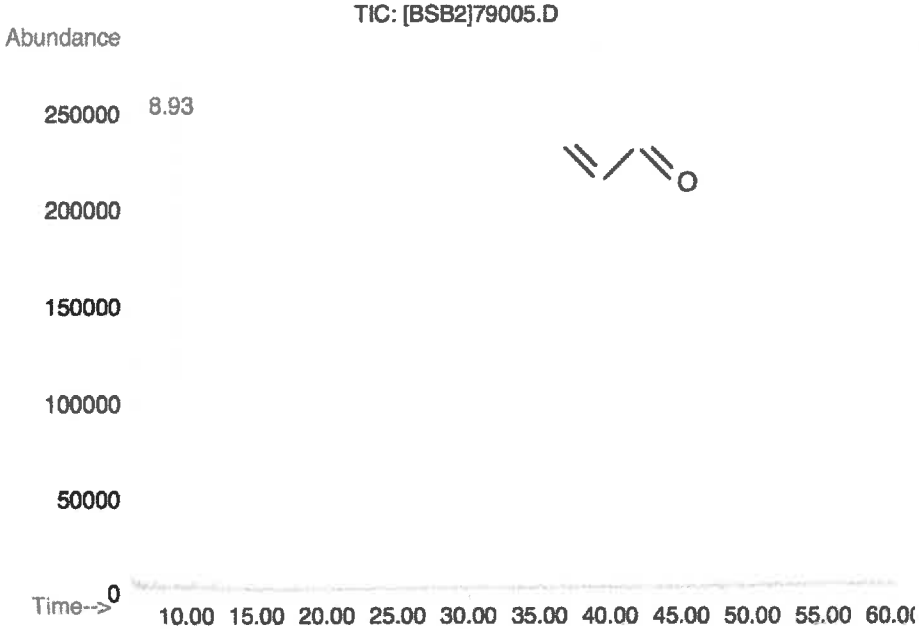

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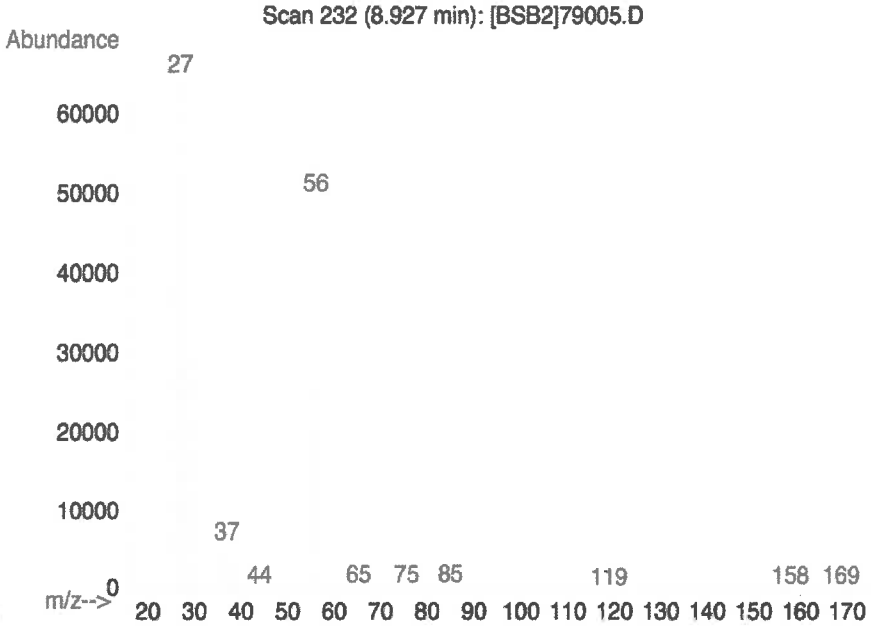

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GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

P271	**Use in ventilated area**	**H315**	**Causes skin and eye irritation.**
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.
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Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

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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

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CERTIFIED WEIGHT REPORT

Part Number: 95317
Lot Number: 021624
Description: Universal VOA Megamix
59 components
Expiration Date: 021627
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 6UTB
Weight(s) shown below were combined and diluted to (mL): 100.0

Solvent(s):	Lot#
Methanol	EG359-USQ12

5E-05 Balance Uncertainty
0.021 Flask Uncertainty

Formulated By: Prashant Chauhan — 021624 DATE
Reviewed By: Pedro L. Rentas — 021624 DATE

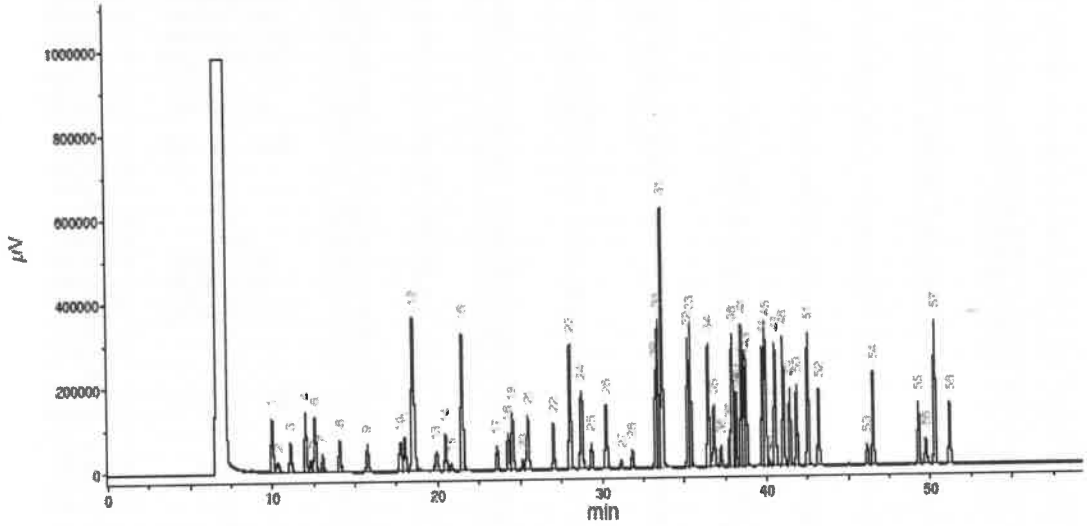
Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(µg/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached 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)	MKBF6041V	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)	IK16CAS0000	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)	SHBF6718V	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)	16930	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	40017.6	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-02-6	N/A	N/A
39. Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	29.7	87-68-3	0.02 ppm (0.24mg/m3/8H)	orl-rat 82mg/kg
40. 1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.1	22.9	630-20-6	N/A	orl-rat 670mg/kg
41. 1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	79-34-5	5 ppm (35mg/m3/8H)(skin)	orl-rat 800mg/kg
42. 1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (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 750mg/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 1384mg/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-Dichloroethane	11.10
4	Acetonitrile	12.00
5	Iodomethane	12.31
6	Allyl chloride	12.56
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethene	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.74
11	cis-1,2-Dichloroethene	18.00
12	Methacrylonitrile/Methyl acrylate/Chloroform	18.49
13	Isobutanol/1,1,1-Trichloroethane	19.91
14	1,1-Dichloropropene	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.49
17	Trichloroethene	22.58
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	33.66
32	o-Xylene	35.22
33	Styrene	35.38
34	Isopropylbenzene/Bromoform	36.48
35	cis-1,4-Dichloro-2-Butene	36.80
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,3-Trichloropropane	37.77
38	n-Propylbenzene	37.93
39	trans-1,4-Dichloro-2-Butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.50
42	2-Chlorotoluene	38.62
43	4-Chlorotoluene	38.77
44	tert-Butylbenzene	38.76
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 Date Prepared/Revised	**1-352-323-3500** 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
59 components
Expiration Date: 021627
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 6UTB
Weight(s) shown below were combined and diluted to (mL): 100.0

Solvent(s):	Lot#
Methanol	EG359-USQ12

5E-05 Balance Uncertainty
0.021 Flask Uncertainty

Formulated By: Prashant Chauhan — 021624 DATE
Reviewed By: Pedro L. Rentas — 021624 DATE

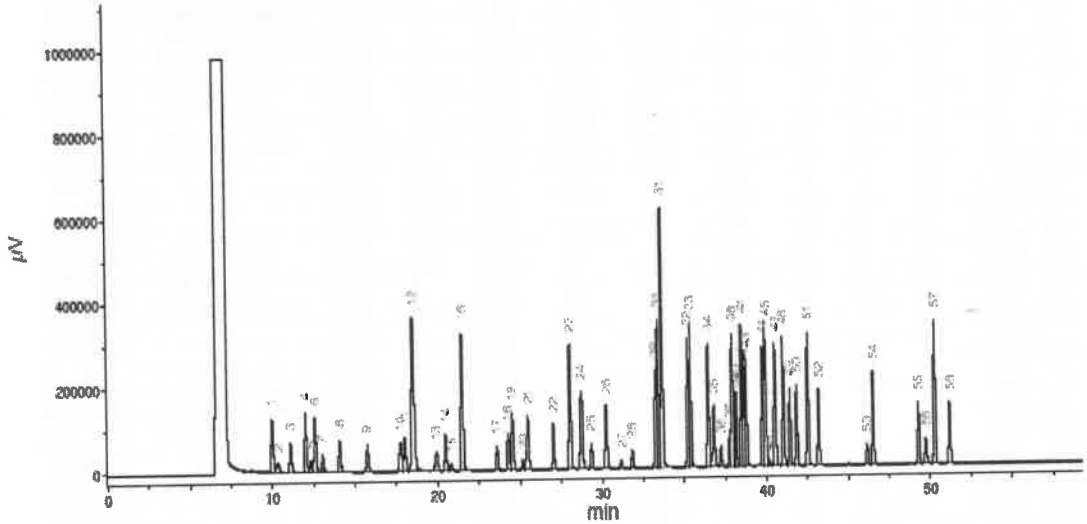
Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(µg/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached 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)	MKBF6041V	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)	IK16CAS0000	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)	SHBF6718V	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)	16930	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	40017.6	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-02-6	N/A	N/A
39. Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	29.7	87-68-3	0.02 ppm (0.24mg/m3/8H)	orl-rat 82mg/kg
40. 1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.1	22.9	630-20-6	N/A	orl-rat 670mg/kg
41. 1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	79-34-5	5 ppm (35mg/m3/8H)(skin)	orl-rat 800mg/kg
42. 1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (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 750mg/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 1384mg/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-Dichloroethane	11.10
4	Acetonitrile	12.00
5	Iodomethane	12.31
6	Allyl chloride	12.56
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethene	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.74
11	cis-1,2-Dichloroethene	18.00
12	Methacrylonitrile/Methyl acrylate/Chloroform	18.49
13	Isobutanol/1,1,1-Trichloroethane	19.91
14	1,1-Dichloropropene	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.49
17	Trichloroethene	22.58
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	33.66
32	o-Xylene	35.22
33	Styrene	35.38
34	Isopropylbenzene/Bromoform	36.48
35	cis-1,4-Dichloro-2-Butene	36.80
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,3-Trichloropropane	37.77
38	n-Propylbenzene	37.93
39	trans-1,4-Dichloro-2-Butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.50
42	2-Chlorotoluene	38.62
43	4-Chlorotoluene	38.77
44	tert-Butylbenzene	38.76
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.57
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 Date Prepared/Revised	**1-352-323-3500** 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.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 09/17/24 2 vial

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

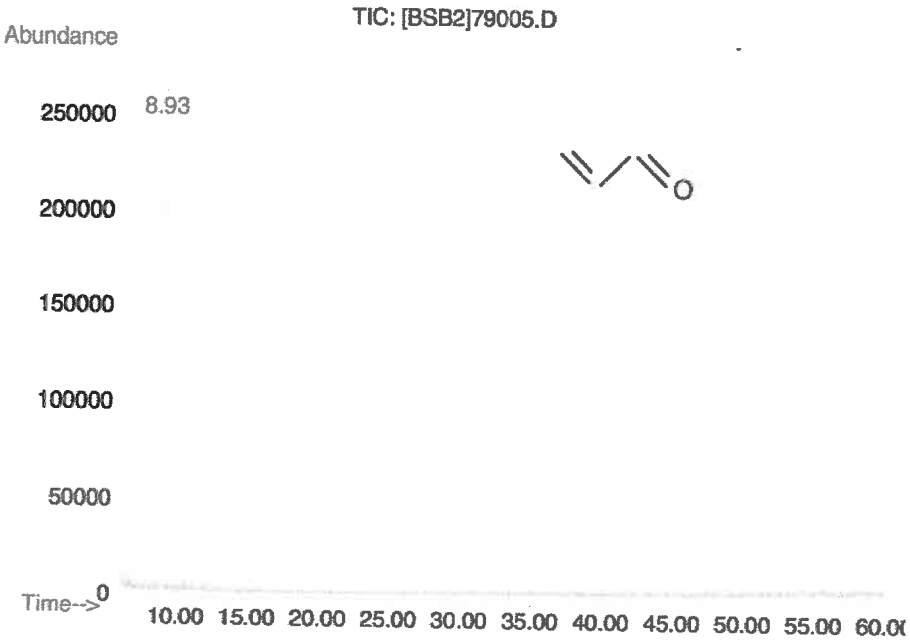
Weight(s) shown below were combined and diluted to (mL): 10.0

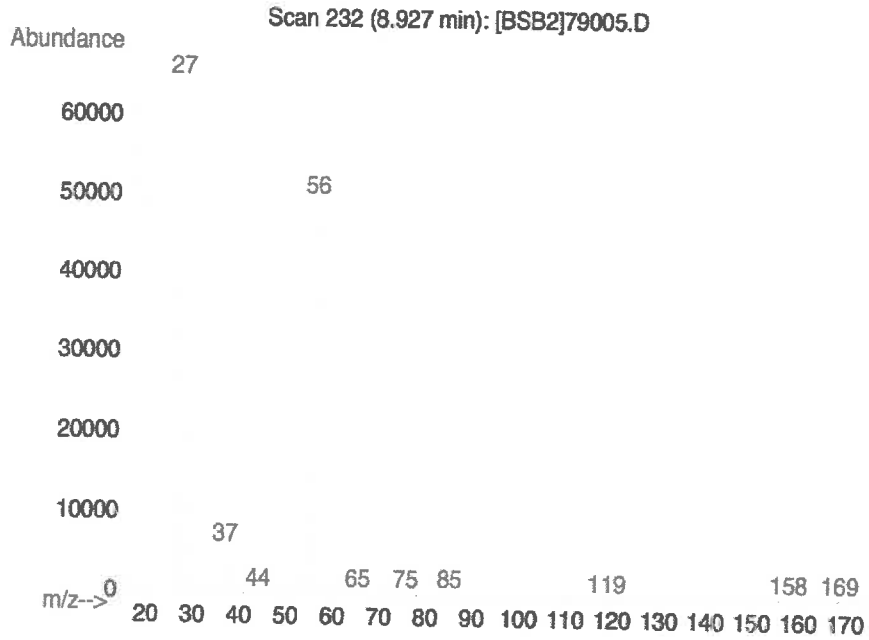
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Formulated By:	Justin Dippold	091424 DATE
Reviewed By:	Pedro L. Rentas	091424 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05175	5008.9	52.5	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are 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.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 09/16/24 2 vial

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

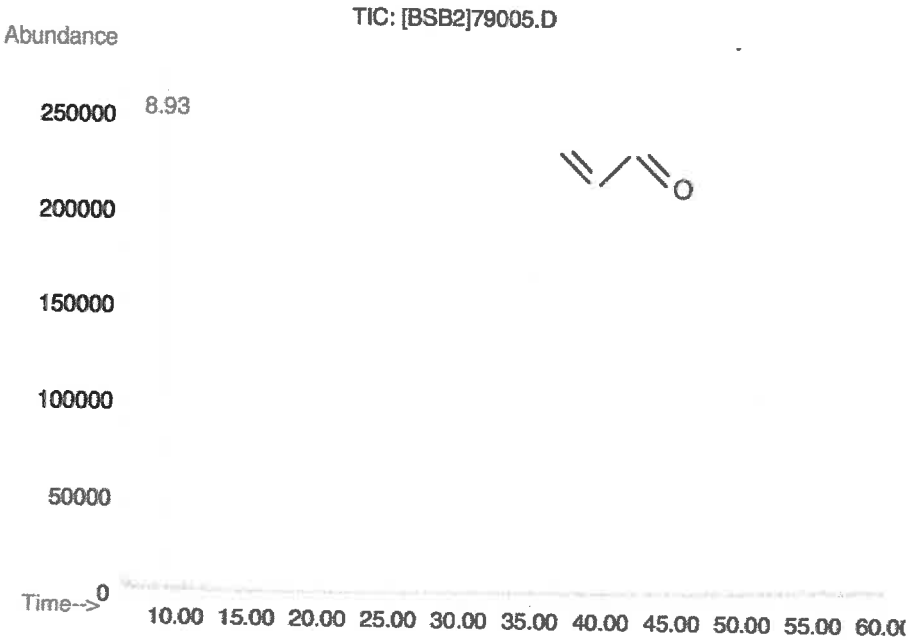
Solvent(s): **Lot#**
Water 072324Q

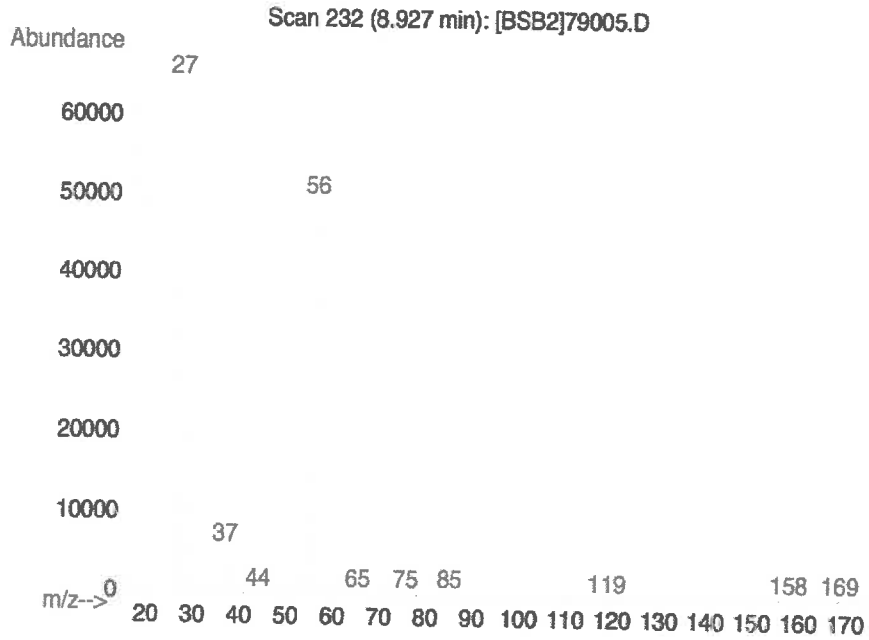
Weight(s) shown below were combined and diluted to (mL): 10.0 — 5E-05 Balance Uncertainty; 0.001 Flask Uncertainty

Formulated By:	Justin Dippold	091424 DATE
Reviewed By:	Pedro L. Rentas	091424 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05175	5008.9	52.5	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.). Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are 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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Certified Reference Material CRM

Exp 12/6/24
20 vial

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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): **Lot#**
Methanol EJ143-US

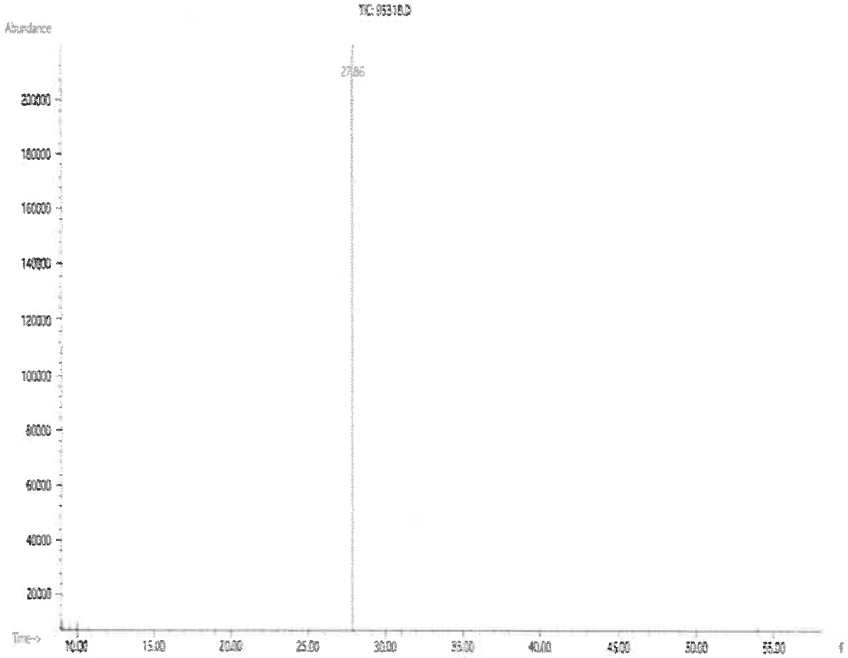
V14630 to
V14649

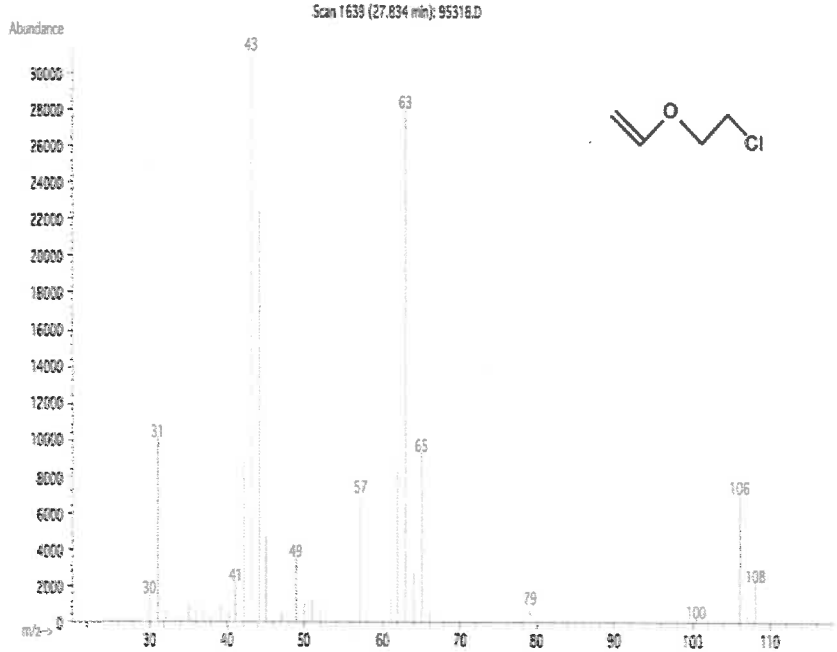
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

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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Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International Date Prepared/Revised	**1-352-323-3500** January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

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20 vial

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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): **Lot#**
Methanol EJ143-US

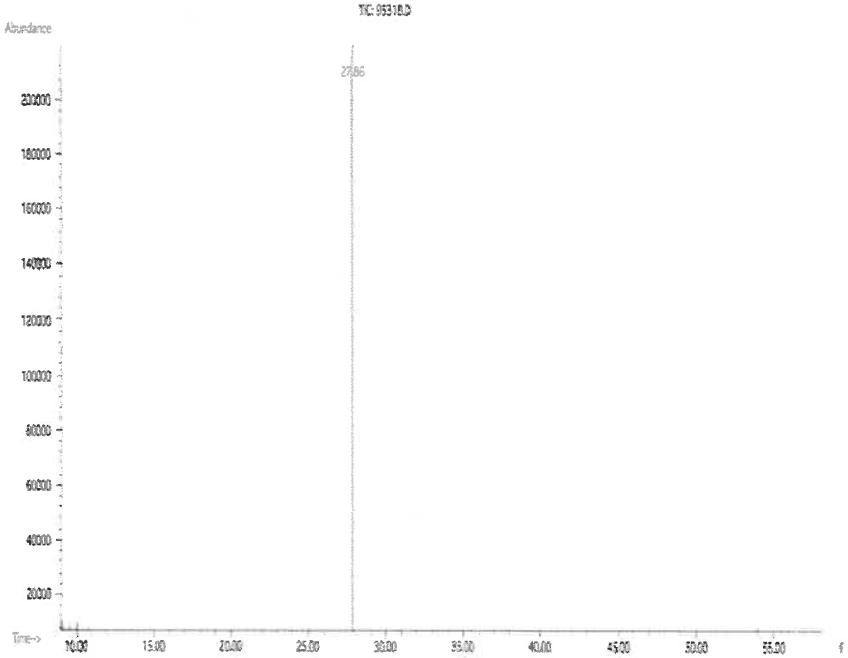
V14630 to
V14649

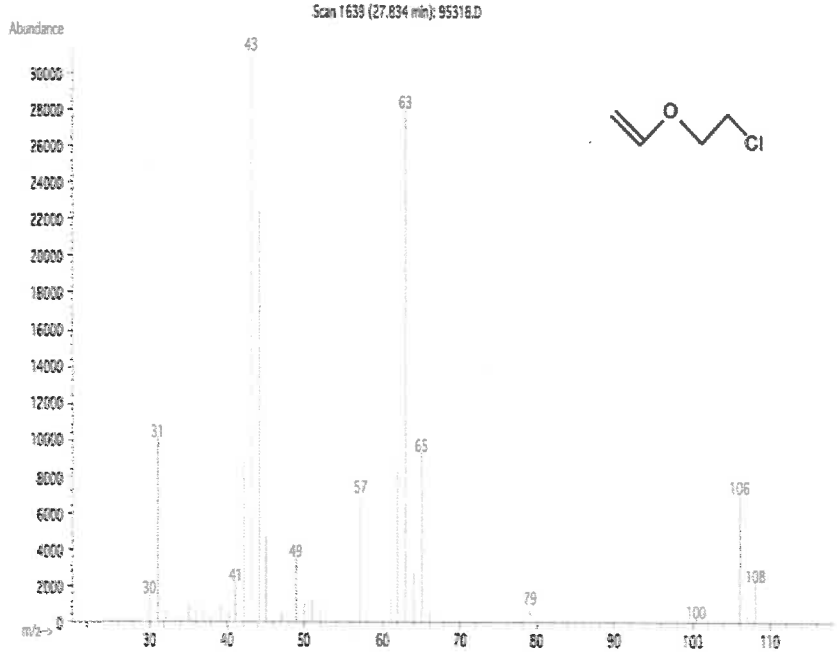
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

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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Safety Data Sheet (SDS) GHS/OSHA Compliant

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IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International Date Prepared/Revised	**1-352-323-3500** January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
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.
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Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

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LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

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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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): **Lot#**
Methanol EJ143-US

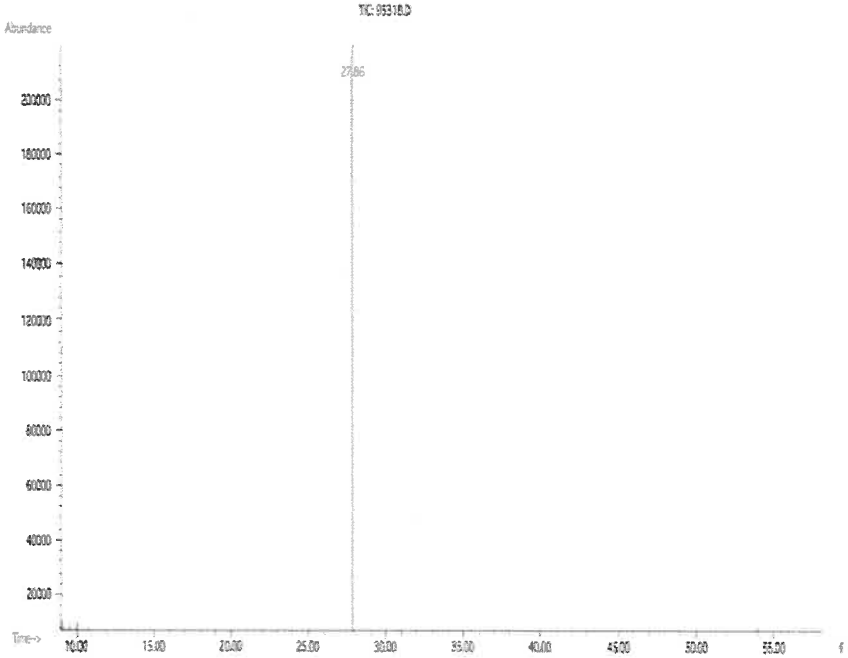
V14630 to
V14649

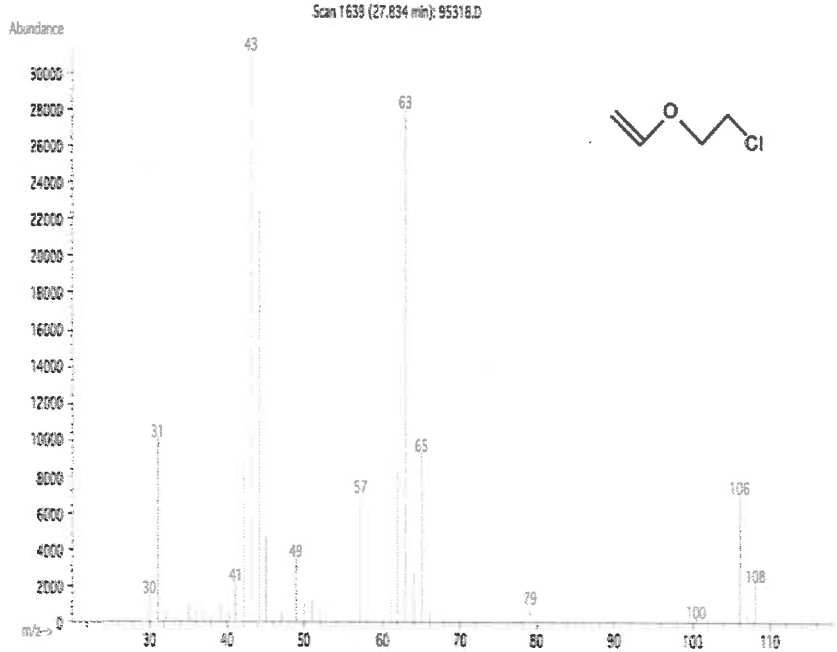
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

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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GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

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Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
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If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
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Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Exp 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): **Lot#**
Methanol EJ143-US

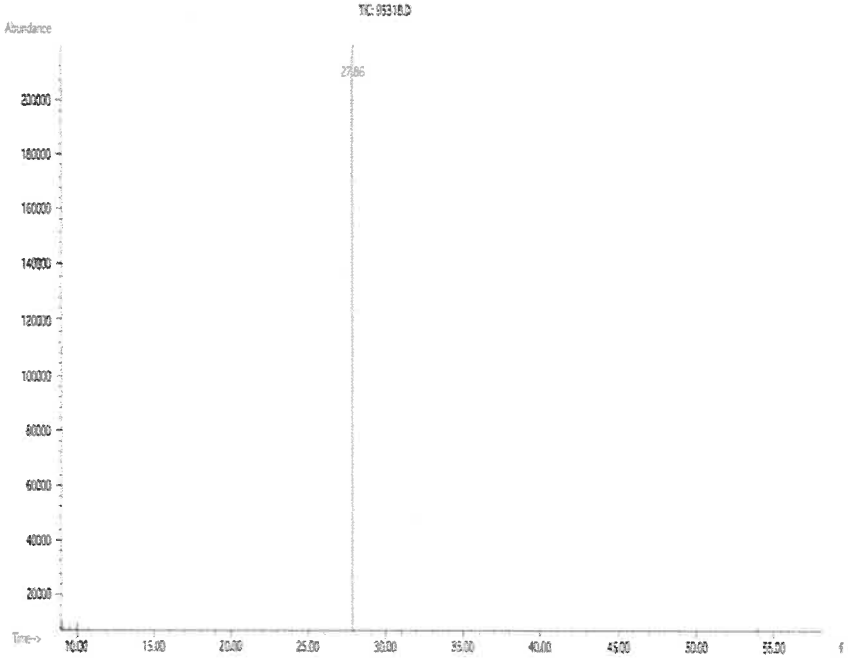
V14630 to
V14649

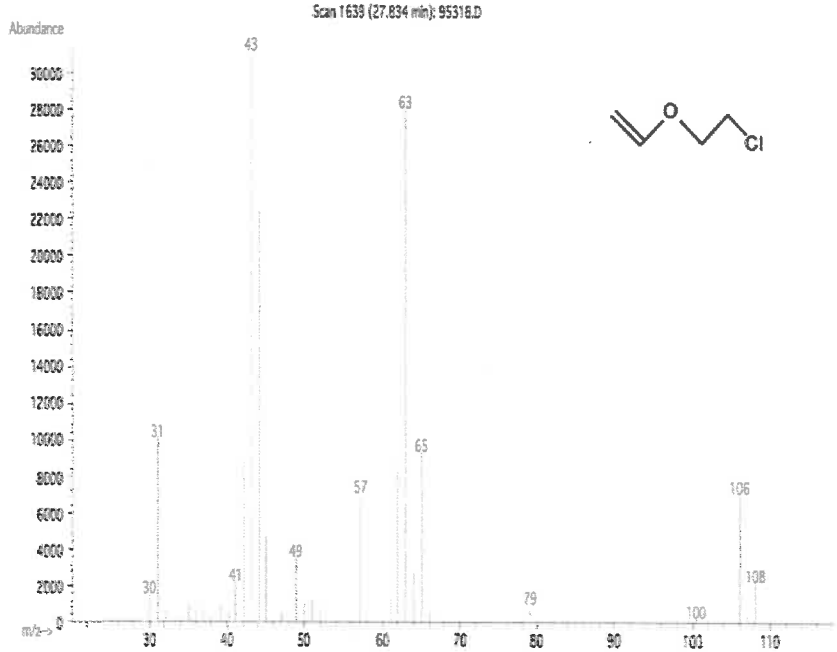
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

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.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Absolute Standards Inc.
PO Box 5585
Hamden, CT 06518-0585
Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International Date Prepared/Revised	**1-352-323-3500** January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
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Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
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Toxic if absorbed through skin. Causes skin irritation.
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Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

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DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

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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.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ilac-MRA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30067 **Lot No.:** A0191805

Description : 4-Bromofluorobenzene Standard

4-Bromofluorobenzene Standard 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Bromo-4-fluorobenzene (BFB)	460-00-4	184975	99%	2,483.9 µg/mL	+/- 139.5488

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol

CAS # 67-56-1

Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

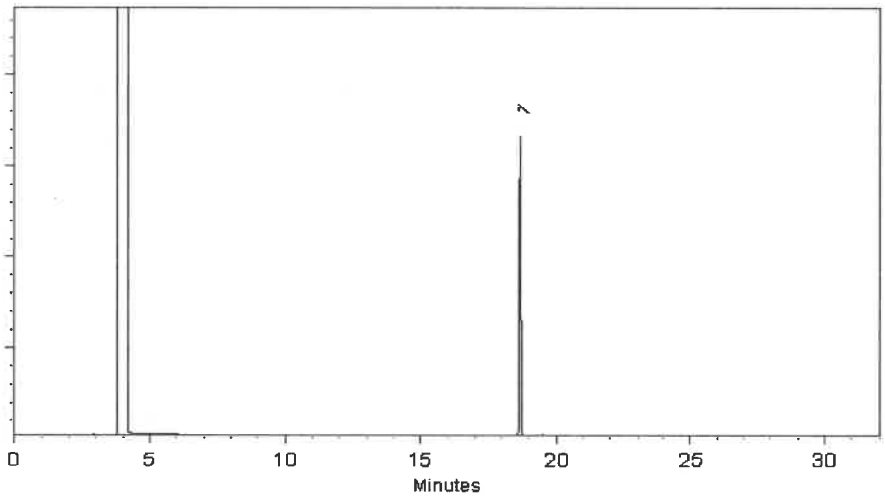
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Alicia Leathers - Operation Technician I

Date Mixed: 17-Nov-2022 **Balance Serial #** B251644995

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 21-Nov-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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. : 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.)

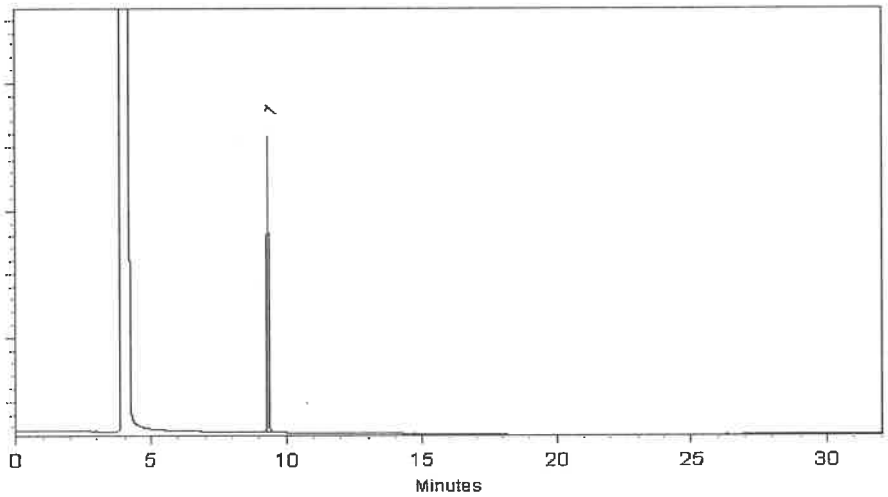
Inj. Temp:
200°C

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:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** 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.)

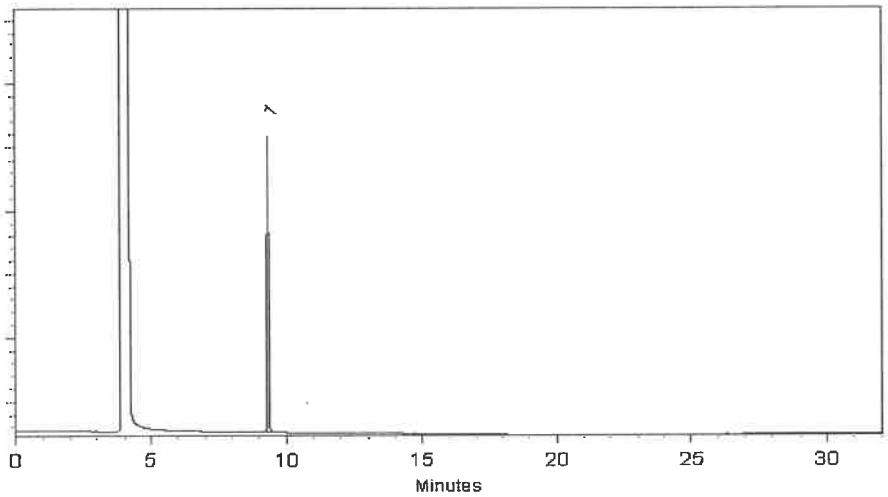
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



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Date Mixed: 29-Dec-2022 **Balance Serial #** B707717271

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Date Passed: 03-Jan-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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- 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:

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chromatographic plus

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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.)

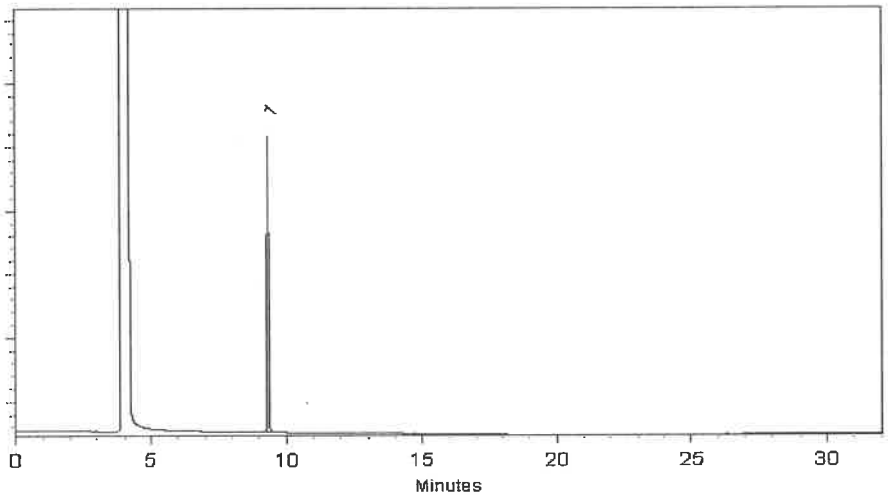
Inj. Temp:
200°C

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:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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ACCREDITED ISO 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. : 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.)

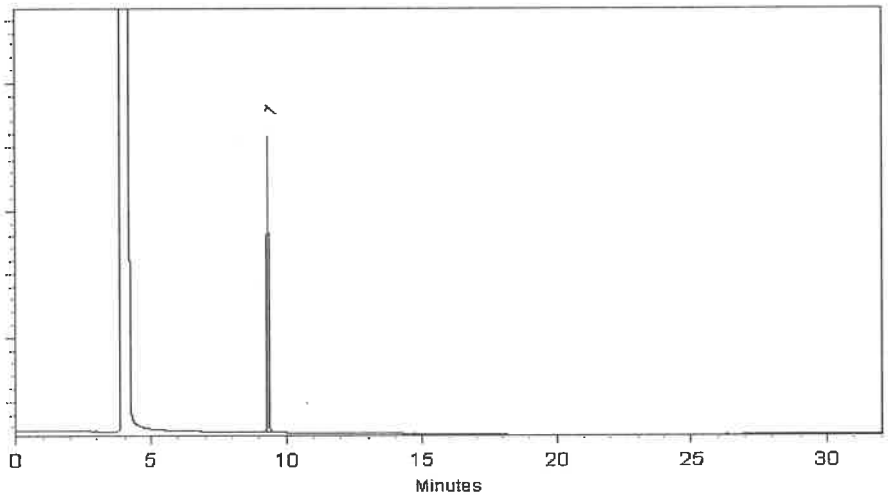
Inj. Temp:
200°C

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.
- 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.
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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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ilac-MRA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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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- 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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Manufacturing Notes:

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Handling Notes:

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ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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.)

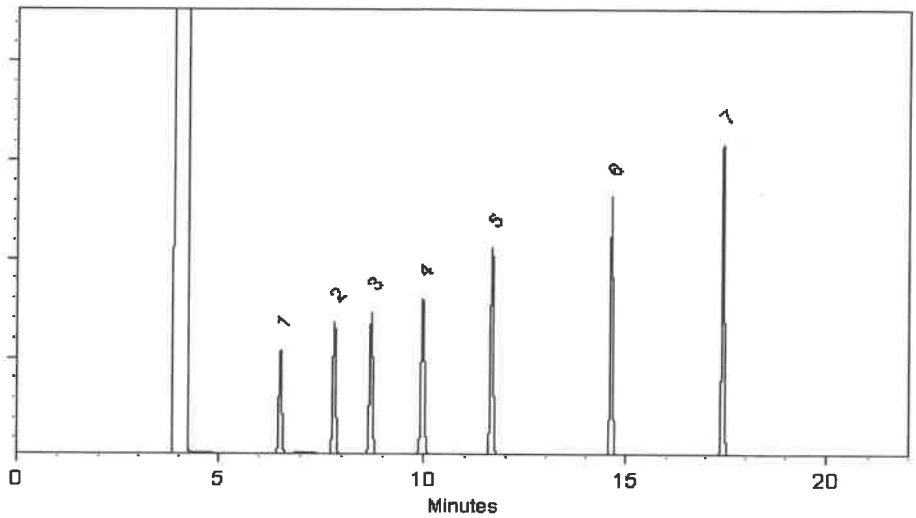
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



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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.
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Purity Notes:

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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
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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

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Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

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Carrier Gas:
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Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

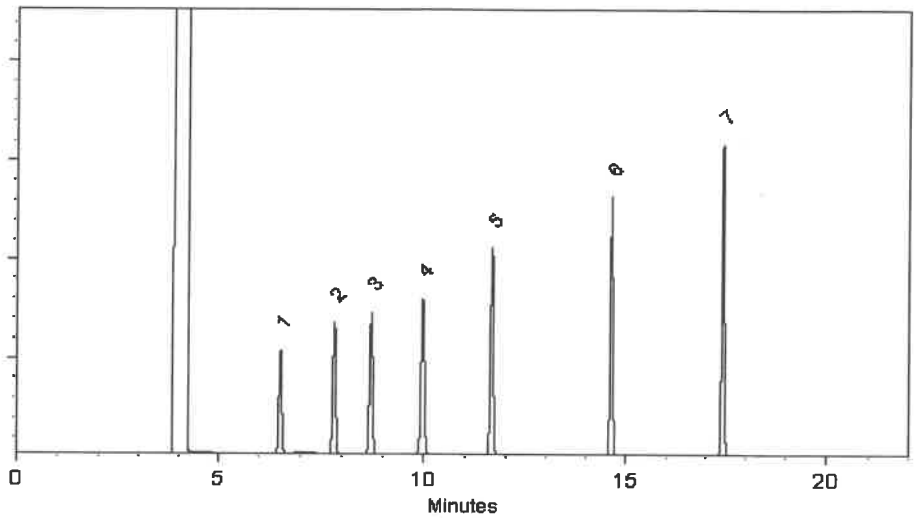
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



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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:

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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ilac-MRA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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Catalog No. : 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:

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- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Rec 12/17/24

CERTIFIED REFERENCE MATERIAL

30 v14

Certificate of Analysis

chromatographic plus

v14697-to-14726

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** 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.)

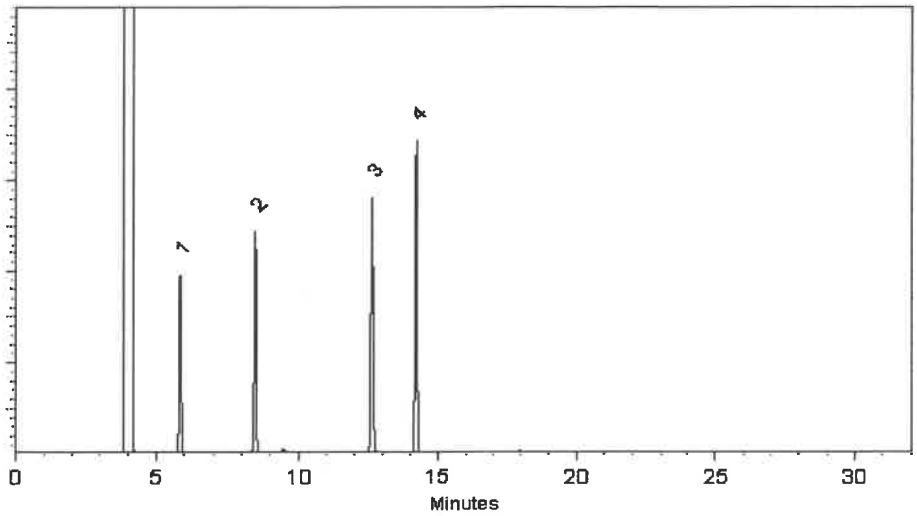
Inj. Temp:
200°C

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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CERTIFIED REFERENCE MATERIAL

30 v14

Certificate of Analysis

chromatographic plus

v14697-to-14726

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** 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.)

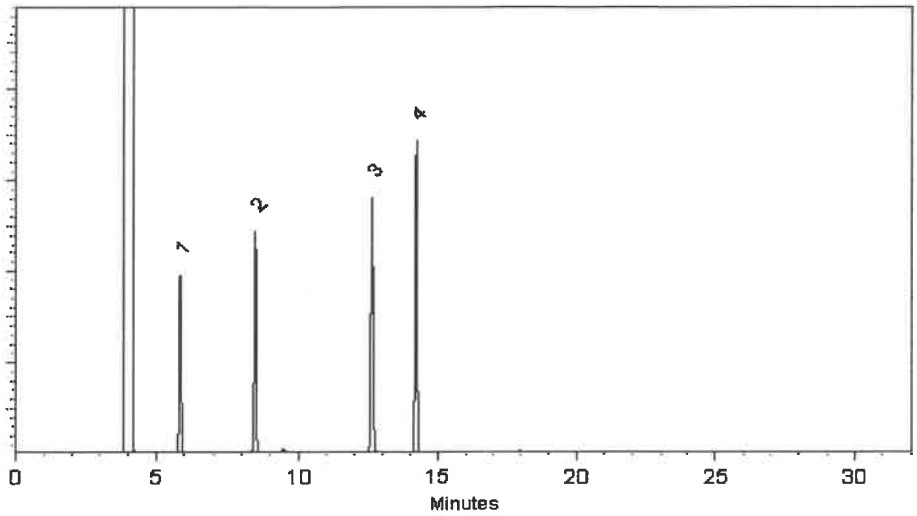
Inj. Temp:
200°C

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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CERTIFIED REFERENCE MATERIAL

30 v14

Certificate of Analysis

chromatographic plus

V14697-to-14726

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0210618

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBQ8504	99%	5,014.8 µg/mL	+/- 173.2883
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	5,012.4 µg/mL	+/- 173.2054
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	5,011.6 µg/mL	+/- 173.1777
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,013.0 µg/mL	+/- 173.2261

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)

CAS # 67-56-1/7732-18-5

Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

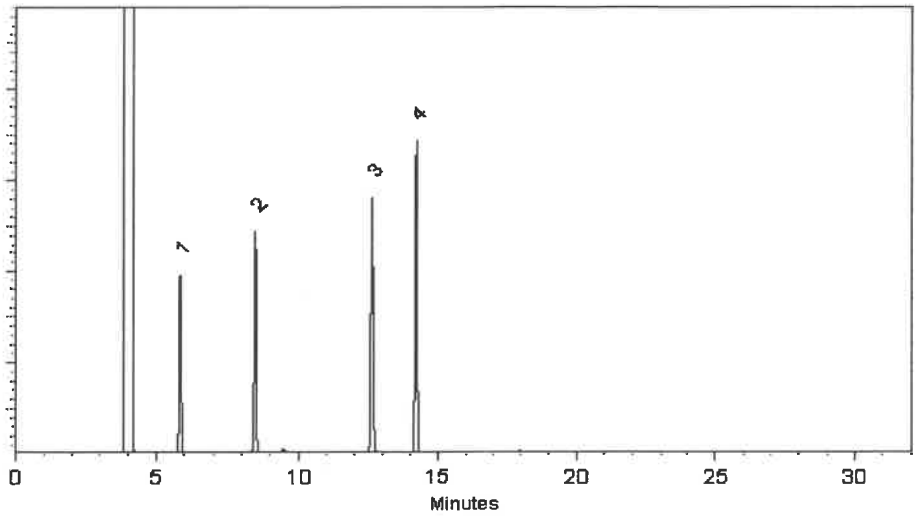
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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Rec 12/17/24

CERTIFIED REFERENCE MATERIAL

30 Vial

Certificate of Analysis

chromatographic plus

V14727 to V14756

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 **Lot No.:** A0216826

Description : 502.2 Calibration Mix #1

502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2031 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00022922	99%	2,000.9 µg/mL	+/- 112.4144
2	Chloromethane (methyl chloride)	74-87-3	00022694	99%	2,000.7 µg/mL	+/- 112.3998
3	Vinyl chloride	75-01-4	00015559	99%	2,000.3 µg/mL	+/- 112.3779
4	Bromomethane (methyl bromide)	74-83-9	00017022	99%	2,001.8 µg/mL	+/- 112.4650
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,000.1 µg/mL	+/- 112.3700
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCJ8658	99%	2,000.7 µg/mL	+/- 112.3992

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol

CAS # 67-56-1

Purity 99%

Quality Confirmation Test

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

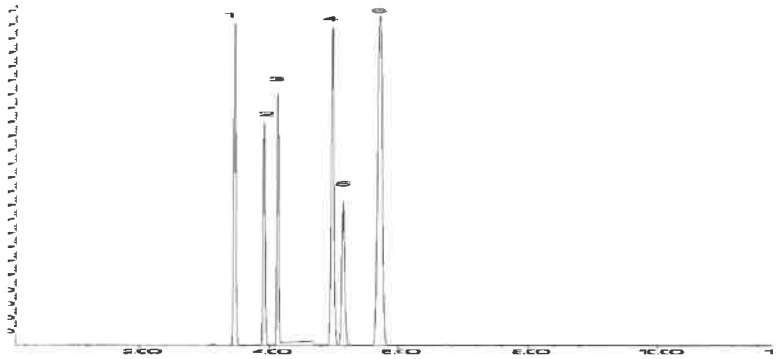
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD

Split Vent:
Split ratio 10:1

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 23-Sep-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 04-Oct-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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Rec 12/17/24

CERTIFIED REFERENCE MATERIAL

30 Vial

Certificate of Analysis

chromatographic plus

V14727 to V14756

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 **Lot No.:** A0216826

Description : 502.2 Calibration Mix #1

502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2031 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00022922	99%	2,000.9 µg/mL	+/- 112.4144
2	Chloromethane (methyl chloride)	74-87-3	00022694	99%	2,000.7 µg/mL	+/- 112.3998
3	Vinyl chloride	75-01-4	00015559	99%	2,000.3 µg/mL	+/- 112.3779
4	Bromomethane (methyl bromide)	74-83-9	00017022	99%	2,001.8 µg/mL	+/- 112.4650
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,000.1 µg/mL	+/- 112.3700
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCJ8658	99%	2,000.7 µg/mL	+/- 112.3992

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

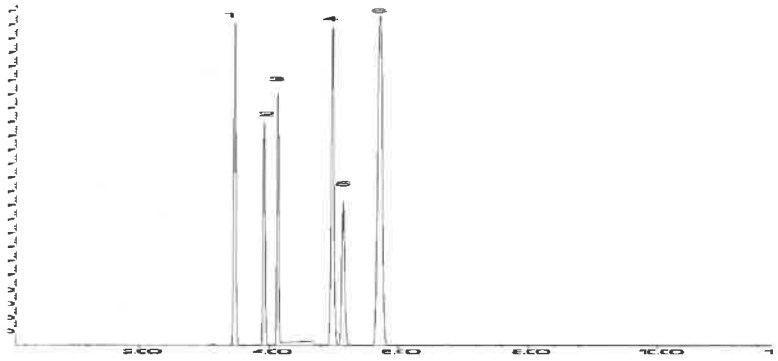
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD

Split Vent:
Split ratio 10:1

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 23-Sep-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 04-Oct-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
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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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- 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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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

J14842 to 14846

ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30470 **Lot No.:** A0217535

Description : tert-Butanol Standard

tert-Butanol Std 50,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	tert-Butanol (TBA)	75-65-0	SHBQ8002-1	99%	50,007.5 µg/mL	+/- 717.6137

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol

CAS # 67-56-1

Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

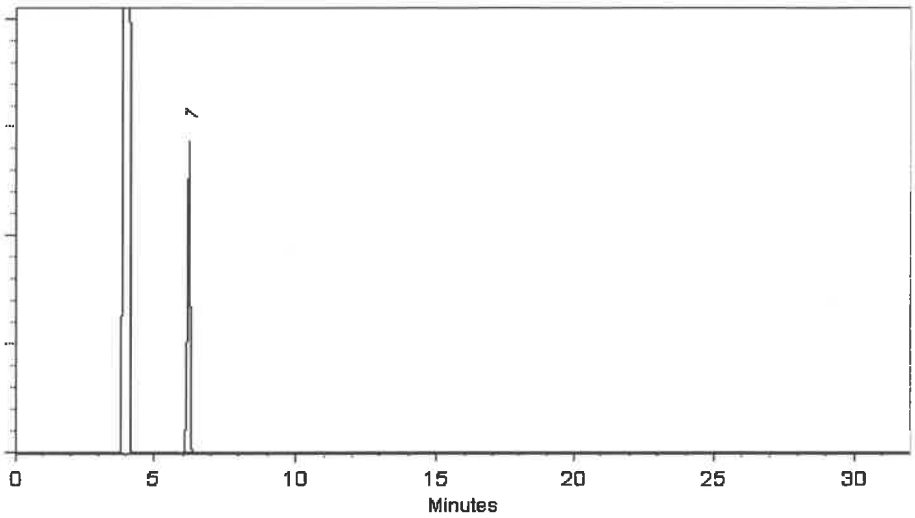
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Aaron Enyart - Operations Tech I

Date Mixed: 07-Oct-2024 **Balance Serial #** B251644995

Brittany Federinko - Operations Tech I

Date Passed: 09-Oct-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

Zoe 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.)

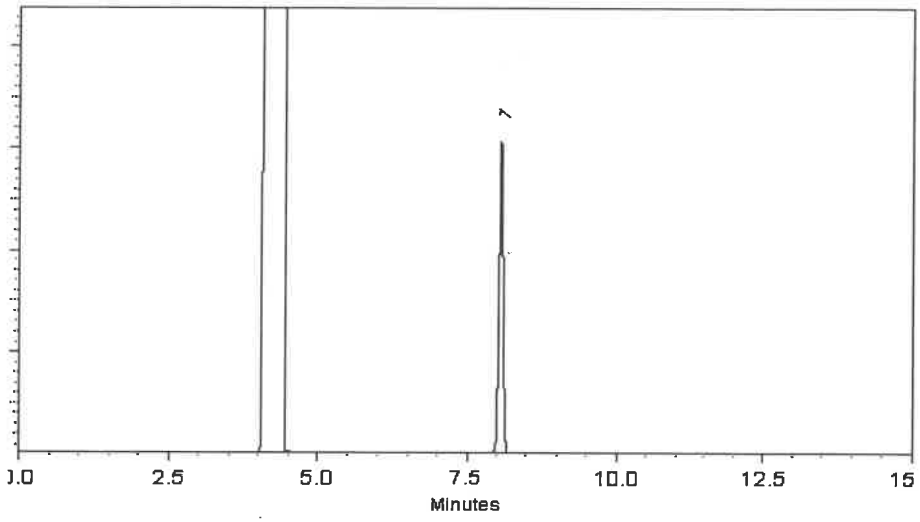
Inj. Temp:
200°C

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.

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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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RESTEK
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www.restek.com

20 Vinyl 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

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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)
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CAS # 67-56-1
Purity 99%

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@ 8°C/min. (hold 5 min.)

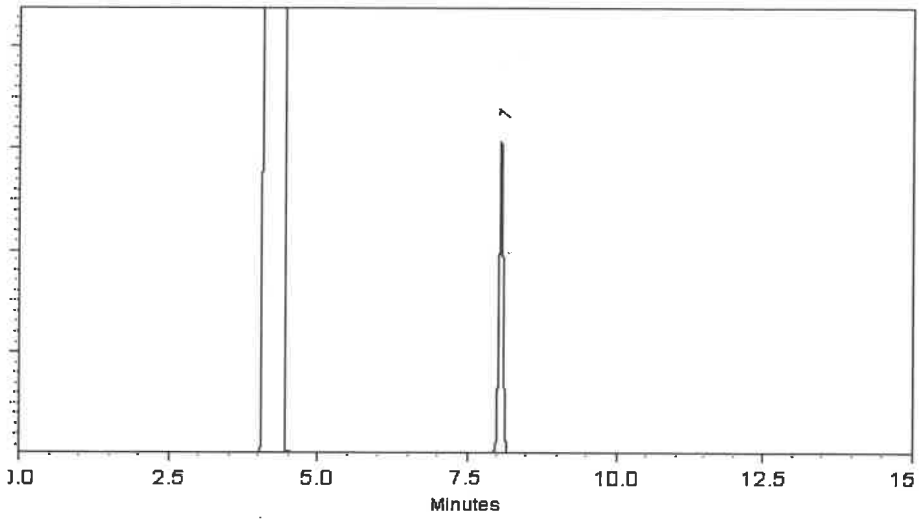
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



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Ethan Winiarski - Operations Tech I

Date Mixed: 24-Dec-2024 **Balance Serial #** 1127510105

Dillan Murphy - Operations Technician I

Date Passed: 02-Jan-2025

REVIEWED
By Jennifer Pollon at 7:12 am, Jan 06, 2025

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

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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

Jamie Ethier
Vice President Global Quality

SHIPPING DOCUMENTS

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

ALLIANCE PROJECT NO. Q1501
QUOTE NO.
COC Number 2045854

CLIENT INFORMATION (REPORT TO BE SENT TO:)

COMPANY: Jacobs
ADDRESS: 412 Mt Kemble Ave Suite #110
CITY Morristown STATE: NJ ZIP: 07960
ATTENTION: John Yuhante (John.Yuhante@Jacobs.com)
PHONE: (281) 414-1719 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: STC PTC
PROJECT NO.: D38682221 LOCATION: Princeton Junction
PROJECT MANAGER: Mary Murphy
e-mail: Mary.Murphy@Jacobs.com
PHONE: (201) 936-0586 FAX:

CLIENT BILLING INFORMATION

BILL TO: Mary Murphy PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) Rush TAT (48 hr) DAYS*
HARDCOPY (DATA PACKAGE): DAYS*
EDD: DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
- ☐ Level 2 (Results + QC)
- ☒ Level 3 (Results + QC + Raw Data)
- ☐ Level 4 (QC + Full Raw Data)
- ☐ NJ Reduced
- ☐ US EPA CLP
- ☐ NYS ASP A
- ☐ NYS ASP B
- ☐ Other
- ☐ EDD FORMAT

ANALYSIS

1: Site Specific VOCs (8260D) 2: 1,4 DXN (8270E-SIM) 3. 4 5 6 7 8 9

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1 (A/E)	2 (E)	3	4	5	6	7	8	9	COMMENTS
1.	MW-16B-87.5-030425	GW		X	3/4/25	1625	3	2	1								
2.	MW-16B-87.5-030425-FD	GW		X	3/4/25	1630	3	2	1								
3.	EB01-030525	DI		X	3/5/25	0800	3	2	1								
4.	BR-05-465-030525	GW		X	3/5/25	1130	9	6	3								MS/MSD
5.	TB01-030525	DI		X	3/5/25	1530	2	2									
6.																	
7.																	
8.																	
9.																	
10.																	

← Specify Preservatives: A-HCl, B-HN03, C-H2SO4, D-NaOH, E-ICE, F-OTHER

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1.	3-5-25 1535	1.
RELINQUISHED BY SAMPLER: 2.	DATE/TIME:	RECEIVED BY: 2.
RELINQUISHED BY SAMPLER: 3.	DATE/TIME:	RECEIVED BY: 3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 2.5 °C
Comments: See work order for list of site specific VOCs

Page 1 of 1

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete ☐ YES ☐ NO

WHITE - ALLIANCE COPY FOR RETURN TO CLIENT YELLOW - ALLIANCE COPY PINK - SAMPLER COPY

284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1501 JACO05
Client Name : JACOBS Engineering Grou
Client Contact : John Ynfante
Invoice Name : JACOBS Engineering Grou
Invoice Contact : John Ynfante

Order Date : 3/5/2025 3:36:00 PM
Project Name : Former Schlumberger STC
Receive DateTime : 3/5/2025 3:35:00 PM
Purchase Order :

Project Mgr :
Report Type : Level 4
EDD Type : CH2MHILL
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD		FAX DATE	DUE DATES
Q1501-01	MW-16B-87.5-030425	Water	03/04/2025	16:25						
					VOCMS Group3		8260-Low	2 Bus. Days		
Q1501-02	MW-16B-87.5-030425-FD	Water	03/04/2025	16:30						
					VOCMS Group3		8260-Low	2 Bus. Days		
Q1501-03	~~EB-01-030525~~ EB01-030525	Water	03/05/2025	08:00						
					VOCMS Group3		8260-Low	2 Bus. Days		
Q1501-04	BR-05-465-030525	Water	03/05/2025	11:30						
					VOCMS Group3		8260-Low	2 Bus. Days		
Q1501-05	Q1501-04MS	Water	03/05/2025	11:30						
					VOCMS Group3		8260-Low	2 Bus. Days		
Q1501-06	Q1501-04MSD	Water	03/05/2025	11:30						
					VOCMS Group3		8260-Low	2 Bus. Days		
Q1501-07	TB01-030525	Water	03/05/2025	13:30						
					VOCMS Group3		8260-Low	2 Bus. Days		

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID :	Q1501 JACO05	**Order Date :**	3/5/2025 3:36:00 PM	**Project Mgr :**	
Client Name :	JACOBS Engineering Grou	**Project Name :**	Former Schlumberger STC	**Report Type :**	Level 4
Client Contact :	John Ynfante	**Receive DateTime :**	3/5/2025 3:35:00 PM	**EDD Type :**	CH2MHILL
Invoice Name :	JACOBS Engineering Grou	**Purchase Order :**		**Hard Copy Date :**	
Invoice Contact :	John Ynfante			**Date Signoff :**	

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES

Relinguished By : [signature]
Date / Time : 3-5-25 16:00

Received By : [signature]
Date / Time : 03/05/25 16:00 [illegible]
Storage Area : VOA Refridgerator Room