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 : Q1697

ATTENTION : John Ynfante

Laboratory Certification ID # 20012

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Cover Page

Order ID : Q1697

Project ID : Former Schlumberger STC PTC Site D3868221

Client : JACOBS Engineering Group, Inc.

Lab Sample Number	Client Sample Number
Q1697-01	MW-19B-72-040125
Q1697-02	IW-01-55-040125
Q1697-03	IW-02-55-040125
Q1697-04	IW-02-55-040125-FD
Q1697-05	IW-03-55-040125
Q1697-06	TB-01-040125
Q1697-13	MW-19B-72-040125
Q1697-14	IW-01-55-040125
Q1697-15	IW-02-55-040125
Q1697-16	IW-02-55-040125-FD
Q1697-17	IW-03-55-040125

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 9:59 am, Apr 14, 2025

Date: 4/8/2025

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 # Q1697
Test Name: VOCMS Group3

A. Number of Samples and Date of Receipt:
11 Water samples were received on 04/01/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Alkalinity, Anions Group1, Dissolved ICP-Group2, Dissolved Metals Group3, Mercury, Metals Group4, Metals ICP-TAL, METALS-TAL, SVOC-SIMGroup1, TDS, VOC-TRACE-SFAM and VOCMS Group3. This data package contains results for VOCMS Group3.

C. Analytical Techniques:
The analysis performed on instrument MSVOA_X were done using GC column DB-624UI 20m 0.18mm 1.0 um. Cat#121-1324UIThe analysis of VOCMS 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.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The RPD met criteria .
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.

Samples IW-02-55-040125, IW-02-55-040125-FD and IW-03-55-040125 were diluted due to past history of thissample containing high amounts of Trichloroethene.

Samples MW-19B-72-040125 and IW-01-55-040125 were diluted due to high concentrations.

E. Additional Comments:

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Samples for MS/MSD for VOC analysis were not provided with this set of samples. The Blank Spike Duplicate is reported with the data.
Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

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

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

Signature_____ **APPROVED**
By Nimisha Pandya, QA/QC Supervisor at 10:00 am, Apr 14, 2025

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

DATA REPORTING QUALIFIERS- ORGANIC

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

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

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: Q1697 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.			✓
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable range. The Blank Spike met requirements for all samples . The Blank Spike Duplicate met requirements for all samples .			✓
9.	Internal Standard Area/Retention Time Shift Meet Criteria Comments:			✓
10.	Analysis Holding Time Met If not met, list number of days exceeded for each sample:			✓

ADDITIONAL COMMENTS:

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

NA NO YES

Samples IW-02-55-040125, IW-02-55-040125-FD and IW-03-55-040125 were diluted due to past history of these sample containing high amounts of Trichloroethene.

Samples MW-19B-72-040125 and IW-01-55-040125 were diluted due to high concentrations.

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

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 9:51 am, Apr 14, 2025

Date

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q1697

	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:** 04/08/2025

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LAB CHRONICLE

OrderID:	Q1697	**OrderDate:**	4/2/2025 10:31:00 AM
Client:	JACOBS Engineering Group, Inc.	**Project:**	Former Schlumberger STC PTC Site D3868221
Contact:	John Ynfante	**Location:**	I31,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1697-01	**MW-19B-72-040125**	**Water**			**04/01/25**			**04/01/25**
			VOCMS Group3	8260-Low			04/02/25	
Q1697-01DL	**MW-19B-72-040125DL**	**Water**			**04/01/25**			**04/01/25**
			VOCMS Group3	8260-Low			04/02/25	
Q1697-02	**IW-01-55-040125**	**Water**			**04/01/25**			**04/01/25**
			VOCMS Group3	8260-Low			04/02/25	
Q1697-02DL	**IW-01-55-040125DL**	**Water**			**04/01/25**			**04/01/25**
			VOCMS Group3	8260-Low			04/02/25	
Q1697-03	**IW-02-55-040125**	**Water**			**04/01/25**			**04/01/25**
			VOCMS Group3	8260-Low			04/02/25	
Q1697-04	**IW-02-55-040125-FD**	**Water**			**04/01/25**			**04/01/25**
			VOCMS Group3	8260-Low			04/02/25	
Q1697-05	**IW-03-55-040125**	**Water**			**04/01/25**			**04/01/25**
			VOCMS Group3	8260-Low			04/02/25	
Q1697-06	**TB-01-040125**	**Water**			**04/01/25**			**04/01/25**
			VOCMS Group3	8260-Low			04/03/25	

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Hit Summary Sheet
SW-846

SDG No.: Q1697

Client: JACOBS Engineering Group, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	**MW-19B-72-040125**							
Q1697-01	MW-19B-72-04012	Water	Vinyl Chloride	8.80		0.26	1.00	ug/L
Q1697-01	MW-19B-72-04012	Water	1,1-Dichloroethene	85.9		0.23	1.00	ug/L
Q1697-01	MW-19B-72-04012	Water	1,1-Dichloroethane	21.3		0.23	1.00	ug/L
Q1697-01	MW-19B-72-04012	Water	cis-1,2-Dichloroethene	6000	E	0.19	1.00	ug/L
Q1697-01	MW-19B-72-04012	Water	1,1,1-Trichloroethane	32.0		0.20	1.00	ug/L
Q1697-01	MW-19B-72-04012	Water	Benzene	1.70		0.15	1.00	ug/L
Q1697-01	MW-19B-72-04012	Water	1,2-Dichloroethane	5.30		0.22	1.00	ug/L
Q1697-01	MW-19B-72-04012	Water	Trichloroethene	12900	E	0.090	1.00	ug/L
Q1697-01	MW-19B-72-04012	Water	Tetrachloroethene	740	E	0.23	1.00	ug/L
			Total Voc :	19800				
			Total Concentration:	19800				
Client ID:	**MW-19B-72-040125DL**							
Q1697-01DL	MW-19B-72-04012	Water	1,1-Dichloroethene	100	JD	46.0	200	ug/L
Q1697-01DL	MW-19B-72-04012	Water	cis-1,2-Dichloroethene	6900	D	38.0	200	ug/L
Q1697-01DL	MW-19B-72-04012	Water	Trichloroethene	17300	D	18.6	200	ug/L
Q1697-01DL	MW-19B-72-04012	Water	Tetrachloroethene	790	D	46.0	200	ug/L
			Total Voc :	25100				
			Total Concentration:	25100				
Client ID:	**IW-01-55-040125**							
Q1697-02	IW-01-55-040125	Water	1,1-Dichloroethene	8.60		0.23	1.00	ug/L
Q1697-02	IW-01-55-040125	Water	1,1-Dichloroethane	7.20		0.23	1.00	ug/L
Q1697-02	IW-01-55-040125	Water	cis-1,2-Dichloroethene	93.9		0.19	1.00	ug/L
Q1697-02	IW-01-55-040125	Water	Trichloroethene	340	E	0.090	1.00	ug/L
Q1697-02	IW-01-55-040125	Water	Tetrachloroethene	3.10		0.23	1.00	ug/L
			Total Voc :	453				
			Total Concentration:	453				
Client ID:	**IW-01-55-040125DL**							
Q1697-02DL	IW-01-55-040125D	Water	1,1-Dichloroethene	8.50	JD	2.30	10.0	ug/L
Q1697-02DL	IW-01-55-040125D	Water	cis-1,2-Dichloroethene	92.0	D	1.90	10.0	ug/L
Q1697-02DL	IW-01-55-040125D	Water	Trichloroethene	340	D	0.93	10.0	ug/L
			Total Voc :	441				
			Total Concentration:	441				
Client ID:	**IW-02-55-040125**							
Q1697-03	IW-02-55-040125	Water	1,1-Dichloroethene	8.50	J	2.30	10.0	ug/L
Q1697-03	IW-02-55-040125	Water	cis-1,2-Dichloroethene	360		1.90	10.0	ug/L
Q1697-03	IW-02-55-040125	Water	Trichloroethene	670		0.93	10.0	ug/L
			Total Voc :	1040				
			Total Concentration:	1040				

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Hit Summary Sheet
SW-846

SDG No.: Q1697

Client: JACOBS Engineering Group, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	**IW-02-55-040125-FD**							
Q1697-04	IW-02-55-040125-F	Water	1,1-Dichloroethene	7.50	J	2.30	10.0	ug/L
Q1697-04	IW-02-55-040125-F	Water	cis-1,2-Dichloroethene	320		1.90	10.0	ug/L
Q1697-04	IW-02-55-040125-F	Water	Trichloroethene	610		0.93	10.0	ug/L
			Total Voc :	938				
			Total Concentration:	938				
Client ID:	**IW-03-55-040125**							
Q1697-05	IW-03-55-040125	Water	1,1-Dichloroethene	11.3		2.30	10.0	ug/L
Q1697-05	IW-03-55-040125	Water	cis-1,2-Dichloroethene	560		1.90	10.0	ug/L
Q1697-05	IW-03-55-040125	Water	Trichloroethene	1100		0.93	10.0	ug/L
			Total Voc :	1670				
			Total Concentration:	1670				

QC SUMMARY

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

SDG No.: Q1697

Client: JACOBS Engineering Group, Inc.

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
Q1697-01	MW-19B-72-040125	1,2-Dichloroethane-d4	50	50.9	102	70 (74)	130 (125)
		Dibromofluoromethane	50	47.6	95	70 (75)	130 (124)
		Toluene-d8	50	44.5	89	70 (86)	130 (113)
		4-Bromofluorobenzene	50	48.3	97	70 (77)	130 (121)
Q1697-01DL	MW-19B-72-040125DL	1,2-Dichloroethane-d4	50	51.9	104	70 (74)	130 (125)
		Dibromofluoromethane	50	51.7	103	70 (75)	130 (124)
		Toluene-d8	50	50.5	101	70 (86)	130 (113)
		4-Bromofluorobenzene	50	50.9	102	70 (77)	130 (121)
Q1697-02	IW-01-55-040125	1,2-Dichloroethane-d4	50	51.7	103	70 (74)	130 (125)
		Dibromofluoromethane	50	51.8	104	70 (75)	130 (124)
		Toluene-d8	50	51.5	103	70 (86)	130 (113)
		4-Bromofluorobenzene	50	48.6	97	70 (77)	130 (121)
Q1697-02DL	IW-01-55-040125DL	1,2-Dichloroethane-d4	50	54.3	109	70 (74)	130 (125)
		Dibromofluoromethane	50	52.7	105	70 (75)	130 (124)
		Toluene-d8	50	50.8	102	70 (86)	130 (113)
		4-Bromofluorobenzene	50	48.3	97	70 (77)	130 (121)
Q1697-03	IW-02-55-040125	1,2-Dichloroethane-d4	50	53.0	106	70 (74)	130 (125)
		Dibromofluoromethane	50	51.4	103	70 (75)	130 (124)
		Toluene-d8	50	49.6	99	70 (86)	130 (113)
		4-Bromofluorobenzene	50	47.9	96	70 (77)	130 (121)
Q1697-04	IW-02-55-040125-FD	1,2-Dichloroethane-d4	50	52.1	104	70 (74)	130 (125)
		Dibromofluoromethane	50	50.0	100	70 (75)	130 (124)
		Toluene-d8	50	50.0	100	70 (86)	130 (113)
		4-Bromofluorobenzene	50	51.1	102	70 (77)	130 (121)
Q1697-05	IW-03-55-040125	1,2-Dichloroethane-d4	50	53.8	108	70 (74)	130 (125)
		Dibromofluoromethane	50	52.6	105	70 (75)	130 (124)
		Toluene-d8	50	50.8	102	70 (86)	130 (113)
		4-Bromofluorobenzene	50	50.2	100	70 (77)	130 (121)
Q1697-06	TB-01-040125	1,2-Dichloroethane-d4	50	53.7	107	70 (74)	130 (125)
		Dibromofluoromethane	50	51.6	103	70 (75)	130 (124)
		Toluene-d8	50	50.4	101	70 (86)	130 (113)
		4-Bromofluorobenzene	50	51.1	102	70 (77)	130 (121)
VX0402WBL01	VX0402WBL01	1,2-Dichloroethane-d4	50	51.8	104	70 (74)	130 (125)
		Dibromofluoromethane	50	51.0	102	70 (75)	130 (124)
		Toluene-d8	50	49.5	99	70 (86)	130 (113)
		4-Bromofluorobenzene	50	49.2	98	70 (77)	130 (121)
VX0402WBS01	VX0402WBS01	1,2-Dichloroethane-d4	50	50.0	100	70 (74)	130 (125)
		Dibromofluoromethane	50	50.0	100	70 (75)	130 (124)
		Toluene-d8	50	50.5	101	70 (86)	130 (113)
		4-Bromofluorobenzene	50	49.3	99	70 (77)	130 (121)
VX0403WBL01	VX0403WBL01	1,2-Dichloroethane-d4	50	53.2	106	70 (74)	130 (125)
		Dibromofluoromethane	50	52.6	105	70 (75)	130 (124)
		Toluene-d8	50	50.9	102	70 (86)	130 (113)
		4-Bromofluorobenzene	50	51.1	102	70 (77)	130 (121)
VX0403WBS01	VX0403WBS01	1,2-Dichloroethane-d4	50	48.8	98	70 (74)	130 (125)
		Dibromofluoromethane	50	48.5	97	70 (75)	130 (124)
		Toluene-d8	50	48.5	97	70 (86)	130 (113)
		4-Bromofluorobenzene	50	49.0	98	70 (77)	130 (121)
VX0403WBSD0	VX0403WBSD01	1,2-Dichloroethane-d4	50	50.4	101	70 (74)	130 (125)
		Dibromofluoromethane	50	50.4	101	70 (75)	130 (124)

( ) = LABORATORY INHOUSE LIMIT

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Surrogate Summary

SDG No.: Q1697

Client: JACOBS Engineering Group, Inc.

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
VX0403WBSD0	VX0403WBSD01	Toluene-d8	50	50.5	101	70 (86)	130 (113)
		4-Bromofluorobenzene	50	51.3	103	70 (77)	130 (121)

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1697

Client: JACOBS Engineering Group, Inc.

Analytical Method: SW8260-Low **Datafile :** VX045537.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0402WBS01	Vinyl chloride	20	18.0	ug/L	90			70 (65)	130 (117)	
	1,1-Dichloroethene	20	19.0	ug/L	95			70 (74)	130 (110)	
	1,1-Dichloroethane	20	19.0	ug/L	95			70 (78)	130 (112)	
	cis-1,2-Dichloroethene	20	19.0	ug/L	95			70 (77)	130 (110)	
	1,1,1-Trichloroethane	20	19.0	ug/L	95			70 (80)	130 (108)	
	Benzene	20	19.0	ug/L	95			70 (82)	130 (109)	
	1,2-Dichloroethane	20	19.0	ug/L	95			70 (80)	130 (115)	
	Trichloroethene	20	19.0	ug/L	95			70 (77)	130 (113)	
	1,1,2-Trichloroethane	20	19.0	ug/L	95			70 (83)	130 (112)	
	Tetrachloroethene	20	19.0	ug/L	95			70 (67)	130 (123)	

( ) = LABORATORY INHOUSE LIMIT

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Fax : 908 789 8922

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1697

Client: JACOBS Engineering Group, Inc.

Analytical Method: SW8260-Low **Datafile :** VX045563.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VX0403WBS01	Vinyl chloride	20	19.0	ug/L	95			70 (65)	130 (117)	
	1,1-Dichloroethene	20	19.0	ug/L	95			70 (74)	130 (110)	
	1,1-Dichloroethane	20	19.0	ug/L	95			70 (78)	130 (112)	
	cis-1,2-Dichloroethene	20	18.0	ug/L	90			70 (77)	130 (110)	
	1,1,1-Trichloroethane	20	18.0	ug/L	90			70 (80)	130 (108)	
	Benzene	20	19.0	ug/L	95			70 (82)	130 (109)	
	1,2-Dichloroethane	20	20.0	ug/L	100			70 (80)	130 (115)	
	Trichloroethene	20	18.0	ug/L	90			70 (77)	130 (113)	
	1,1,2-Trichloroethane	20	19.0	ug/L	95			70 (83)	130 (112)	
	Tetrachloroethene	20	18.0	ug/L	90			70 (67)	130 (123)	

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1697

Client: JACOBS Engineering Group, Inc.

Analytical Method: SW8260-Low **Datafile :** VX045567.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	Limits RPD
VX0403WBSD01	Vinyl chloride	20	19.0	ug/L	95	0		70 (65)	130 (117)	20 (20)
	1,1-Dichloroethene	20	19.0	ug/L	95	0		70 (74)	130 (110)	20 (20)
	1,1-Dichloroethane	20	18.0	ug/L	90	5		70 (78)	130 (112)	20 (20)
	cis-1,2-Dichloroethene	20	18.0	ug/L	90	0		70 (77)	130 (110)	20 (20)
	1,1,1-Trichloroethane	20	18.0	ug/L	90	0		70 (80)	130 (108)	20 (20)
	Benzene	20	19.0	ug/L	95	0		70 (82)	130 (109)	20 (20)
	1,2-Dichloroethane	20	19.0	ug/L	95	5		70 (80)	130 (115)	20 (20)
	Trichloroethene	20	19.0	ug/L	95	5		70 (77)	130 (113)	20 (20)
	1,1,2-Trichloroethane	20	20.0	ug/L	100	5		70 (83)	130 (112)	20 (20)
	Tetrachloroethene	20	19.0	ug/L	95	5		70 (67)	130 (123)	20 (20)

( ) = LABORATORY INHOUSE LIMIT

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX0402WBL01

Lab Name: CHEMTECH Contract: JACO05

Lab Code: CHEM Case No.: Q1697 SAS No.: Q1697 SDG NO.: Q1697

Lab File ID: VX045536.D Lab Sample ID: VX0402WBL01

Date Analyzed: 04/02/2025 Time Analyzed: 10:53

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

Instrument ID: MSVOA_X

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VX0402WBS01	VX0402WBS01	VX045537.D	04/02/2025
MW-19B-72-040125	Q1697-01	VX045539.D	04/02/2025
IW-01-55-040125	Q1697-02	VX045540.D	04/02/2025
MW-19B-72-040125DL	Q1697-01DL	VX045542.D	04/02/2025
IW-01-55-040125DL	Q1697-02DL	VX045543.D	04/02/2025
IW-02-55-040125	Q1697-03	VX045549.D	04/02/2025
IW-02-55-040125-FD	Q1697-04	VX045550.D	04/02/2025
IW-03-55-040125	Q1697-05	VX045551.D	04/02/2025

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX0403WBL01

Lab Name: CHEMTECH Contract: JACO05

Lab Code: CHEM Case No.: Q1697 SAS No.: Q1697 SDG NO.: Q1697

Lab File ID: VX045561.D Lab Sample ID: VX0403WBL01

Date Analyzed: 04/03/2025 Time Analyzed: 11:21

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
TB-01-040125	Q1697-06	VX045562.D	04/03/2025
VX0403WBS01	VX0403WBS01	VX045563.D	04/03/2025
VX0403WBSD01	VX0403WBSD01	VX045567.D	04/03/2025

COMMENTS:

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: JACO05

Lab Code: CHEM Case No.: Q1697 SAS No.: Q1697 SDG NO.: Q1697

Lab File ID: VX045524.D BFB Injection Date: 04/01/2025

Instrument ID: MSVOA_X BFB Injection Time: 16:15

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.6
75	30.0 - 60.0% of mass 95	58.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	0.8 (1.2) 1
174	50.0 - 100.0% of mass 95	66.8
175	5.0 - 9.0% of mass 174	5.2 (7.8) 1
176	95.0 - 101.0% of mass 174	65.3 (97.8) 1
177	5.0 - 9.0% of mass 176	4.4 (6.8) 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	VX045525.D	04/01/2025	17:06
VSTDICC005	VSTDICC005	VX045526.D	04/01/2025	17:29
VSTDICC020	VSTDICC020	VX045527.D	04/01/2025	17:52
VSTDICCC050	VSTDICCC050	VX045528.D	04/01/2025	18:15
VSTDICC100	VSTDICC100	VX045529.D	04/01/2025	18:38
VSTDICC150	VSTDICC150	VX045530.D	04/01/2025	19:02

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: JACO05

Lab Code: CHEM Case No.: Q1697 SAS No.: Q1697 SDG NO.: Q1697

Lab File ID: VX045533.D BFB Injection Date: 04/02/2025

Instrument ID: MSVOA_X BFB Injection Time: 09:30

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

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23
75	30.0 - 60.0% of mass 95	58
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7
173	Less than 2.0% of mass 174	0.8 (1.1) 1
174	50.0 - 100.0% of mass 95	69.7
175	5.0 - 9.0% of mass 174	5.4 (7.8) 1
176	95.0 - 101.0% of mass 174	67.2 (96.4) 1
177	5.0 - 9.0% of mass 176	5.1 (7.6) 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	VX045534.D	04/02/2025	10:02
VX0402WBL01	VX0402WBL01	VX045536.D	04/02/2025	10:53
VX0402WBS01	VX0402WBS01	VX045537.D	04/02/2025	11:16
MW-19B-72-040125	Q1697-01	VX045539.D	04/02/2025	12:07
IW-01-55-040125	Q1697-02	VX045540.D	04/02/2025	12:30
MW-19B-72-040125DL	Q1697-01DL	VX045542.D	04/02/2025	13:21
IW-01-55-040125DL	Q1697-02DL	VX045543.D	04/02/2025	13:44
IW-02-55-040125	Q1697-03	VX045549.D	04/02/2025	16:04
IW-02-55-040125-FD	Q1697-04	VX045550.D	04/02/2025	16:27
IW-03-55-040125	Q1697-05	VX045551.D	04/02/2025	16:51

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: JACO05

Lab Code: CHEM Case No.: Q1697 SAS No.: Q1697 SDG NO.: Q1697

Lab File ID: VX045558.D BFB Injection Date: 04/03/2025

Instrument ID: MSVOA_X BFB Injection Time: 10:01

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	22.2
75	30.0 - 60.0% of mass 95	56.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.2
173	Less than 2.0% of mass 174	0.9 (1.3) 1
174	50.0 - 100.0% of mass 95	67.5
175	5.0 - 9.0% of mass 174	5.1 (7.5) 1
176	95.0 - 101.0% of mass 174	65.9 (97.6) 1
177	5.0 - 9.0% of mass 176	4 (6.1) 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	VX045559.D	04/03/2025	10:30
VX0403WBL01	VX0403WBL01	VX045561.D	04/03/2025	11:21
TB-01-040125	Q1697-06	VX045562.D	04/03/2025	11:45
VX0403WBS01	VX0403WBS01	VX045563.D	04/03/2025	12:08
VX0403WBSD01	VX0403WBSD01	VX045567.D	04/03/2025	13:41

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: JACO05

Lab Code: CHEM Case No.: Q1697 SAS No.: Q1697 SDG NO.: Q1697

Lab File ID: VX045534.D Date Analyzed: 04/02/2025

Instrument ID: MSVOA_X Time Analyzed: 10:02

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	108331	5.54	186062	6.75	160517	10.05
UPPER LIMIT	216662	6.038	372124	7.251	321034	10.549
LOWER LIMIT	54165.5	5.038	93031	6.251	80258.5	9.549
EPA SAMPLE NO.						
MW-19B-72-040125	57807	5.55	116089	6.76	97826	10.05
MW-19B-72-040125DL	61305	5.54	119039	6.76	112137	10.06
IW-01-55-040125	60052	5.54	115456	6.76	105045	10.06
IW-01-55-040125DL	56974	5.55	110887	6.76	101352	10.06
IW-02-55-040125	61634	5.55	121248	6.76	109435	10.05
IW-02-55-040125-FD	66382	5.55	130300	6.76	120113	10.06
IW-03-55-040125	61354	5.54	118700	6.76	111274	10.05
VX0402WBL01	64793	5.54	125920	6.76	112849	10.05
VX0402WBS01	97242	5.55	172610	6.76	147227	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.: Q1697 SAS No.: Q1697 SDG NO.: Q1697

Lab File ID: VX045534.D Date Analyzed: 04/02/2025

Instrument ID: MSVOA_X Time Analyzed: 10:02

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

	IS4 AREA #	RT #				
12 HOUR STD	75751	12.018				
UPPER LIMIT	151502	12.518				
LOWER LIMIT	37875.5	11.518				
EPA SAMPLE NO.						
MW-19B-72-040125	43516	12.02				
MW-19B-72-040125DL	46922	12.02				
IW-01-55-040125	42637	12.02				
IW-01-55-040125DL	38867	12.02				
IW-02-55-040125	45454	12.02				
IW-02-55-040125-FD	51150	12.02				
IW-03-55-040125	47106	12.02				
VX0402WBL01	48101	12.02				
VX0402WBS01	68695	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.: Q1697 SAS No.: Q1697 SDG NO.: Q1697

Lab File ID: VX045559.D Date Analyzed: 04/03/2025

Instrument ID: MSVOA_X Time Analyzed: 10:30

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	95221	5.54	162684	6.76	143783	10.05
UPPER LIMIT	190442	6.044	325368	7.257	287566	10.549
LOWER LIMIT	47610.5	5.044	81342	6.257	71891.5	9.549
EPA SAMPLE NO.						
TB-01-040125	66672	5.54	129805	6.76	120558	10.05
VX0403WBL01	66309	5.55	126206	6.76	118586	10.05
VX0403WBS01	95034	5.54	168178	6.76	149052	10.05
VX0403WBSD01	95765	5.55	168463	6.76	148868	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.: Q1697 SAS No.: Q1697 SDG NO.: Q1697

Lab File ID: VX045559.D Date Analyzed: 04/03/2025

Instrument ID: MSVOA_X Time Analyzed: 10:30

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

	IS4 AREA #	RT #				
12 HOUR STD	66270	12.018				
UPPER LIMIT	132540	12.518				
LOWER LIMIT	33135	11.518				
EPA SAMPLE NO.						
TB-01-040125	51137	12.02				
VX0403WBL01	50130	12.02				
VX0403WBS01	68919	12.02				
VX0403WBSD01	66417	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
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:	04/01/25
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	04/01/25
Client Sample ID:	MW-19B-72-040125	SDG No.:	Q1697
Lab Sample ID:	Q1697-01	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
VX045539.D	1		04/02/25 12:07	VX040225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	8.80		0.26	1.00	ug/L
75-35-4	1,1-Dichloroethene	85.9		0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	21.3		0.23	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	6000	E	0.19	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	32.0		0.20	1.00	ug/L
71-43-2	Benzene	1.70		0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	5.30		0.22	1.00	ug/L
79-01-6	Trichloroethene	12900	E	0.090	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
127-18-4	Tetrachloroethene	740	E	0.23	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.9		70 (74) - 130 (125)	102%	SPK: 50
1868-53-7	Dibromofluoromethane	47.6		70 (75) - 130 (124)	95%	SPK: 50
2037-26-5	Toluene-d8	44.5		70 (86) - 130 (113)	89%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.3		70 (77) - 130 (121)	97%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	57800	5.55			
540-36-3	1,4-Difluorobenzene	116000	6.757			
3114-55-4	Chlorobenzene-d5	97800	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	43500	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

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045539.D
Acq On : 02 Apr 2025 12:07
Operator : JC/MD
Sample : Q1697-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
MW-19B-72-040125

Quant Time: Apr 03 01:49:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

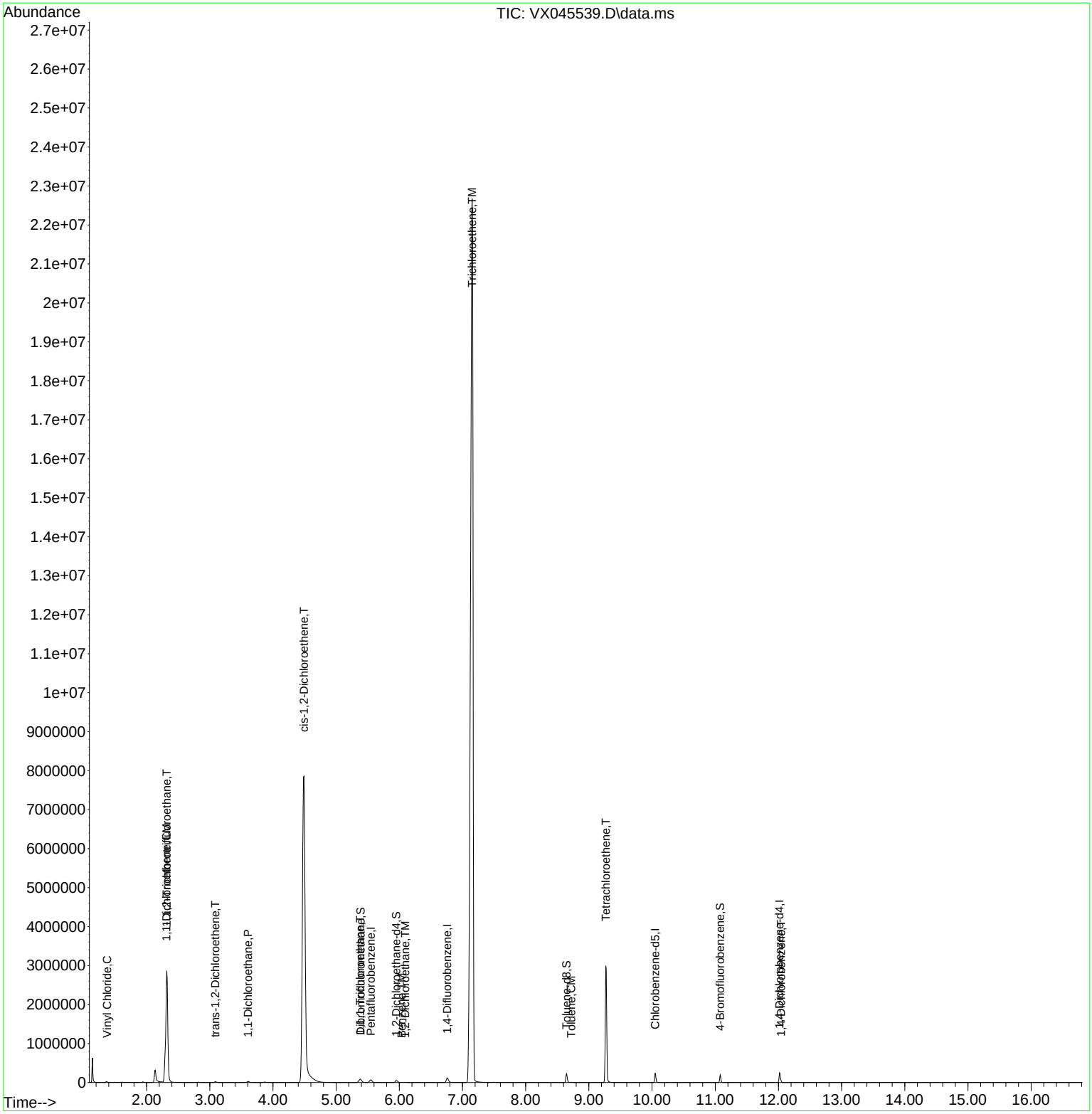
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	57807	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	116089	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	97826	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	43516	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	53760	50.854	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 101.700%			
35) Dibromofluoromethane	5.385	113	39238	47.639	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 95.280%			
50) Toluene-d8	8.647	98	127937	44.502	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 89.000%			
62) 4-Bromofluorobenzene	11.079	95	50572	48.294	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 96.580%			
Target Compounds						Qvalue
4) Vinyl Chloride	1.374	62	7167	8.818	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.319	101	1062783	1496.426	ug/l	98
12) 1,1-Dichloroethene	2.312	96	59590	85.868	ug/l	96
21) trans-1,2-Dichloroethene	3.087	96	7468	10.533	ug/l	92
24) 1,1-Dichloroethane	3.605	63	31180	21.256	ug/l	99
27) cis-1,2-Dichloroethene	4.489	96	5175672	5991.947	ug/l	93
32) 1,1,1-Trichloroethane	5.379	97	40840	31.977	ug/l	98
40) Benzene	6.037	78	5720	1.684	ug/l #	88
42) 1,2-Dichloroethane	6.092	62	7366	5.251	ug/l	97
44) Trichloroethene	7.153	130	10380152	12858.147	ug/l	92
52) Toluene	8.720	92	2533	1.232	ug/l	93
64) Tetrachloroethene	9.269	164	512834	742.505	ug/l	98
88) 1,4-Dichlorobenzene	12.042	146	13702	9.219	ug/l	96

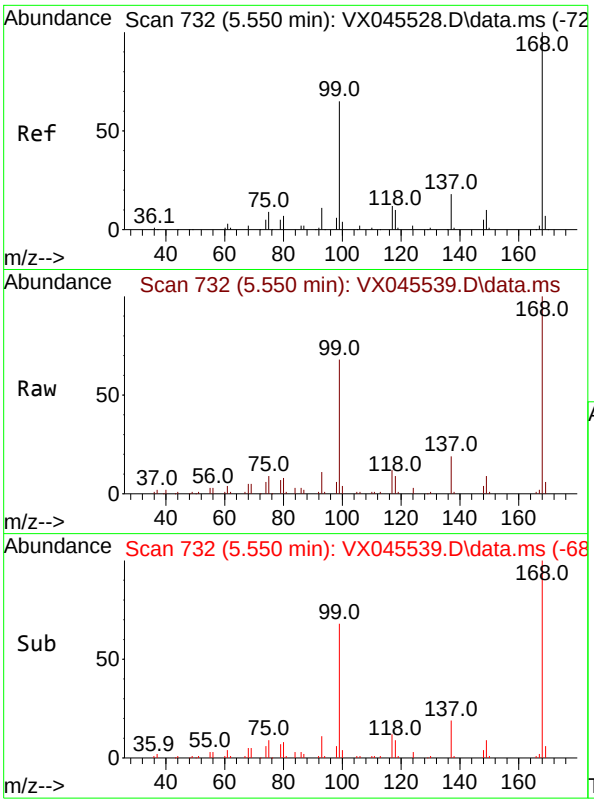
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045539.D
Acq On : 02 Apr 2025 12:07
Operator : JC/MD
Sample : Q1697-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
MW-19B-72-040125

Quant Time: Apr 03 01:49:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration



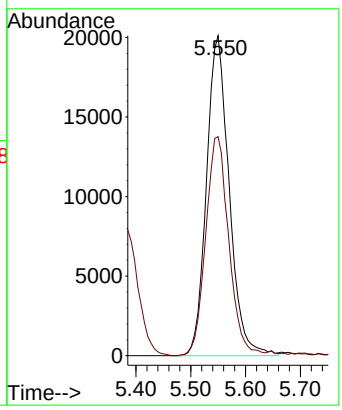


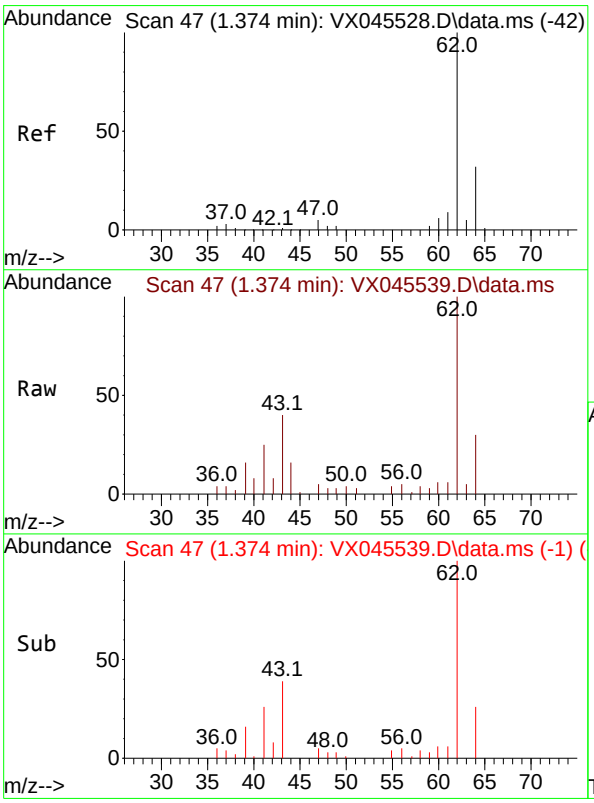
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045539.D
Acq: 02 Apr 2025 12:07

Instrument :
MSVOA_X
ClientSampleId :
MW-19B-72-040125

Tgt Ion:168 Resp: 57807

Ion	Ratio	Lower	Upper
168	100		
99	68.5	52.3	78.5

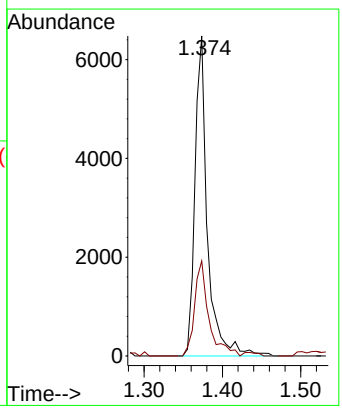


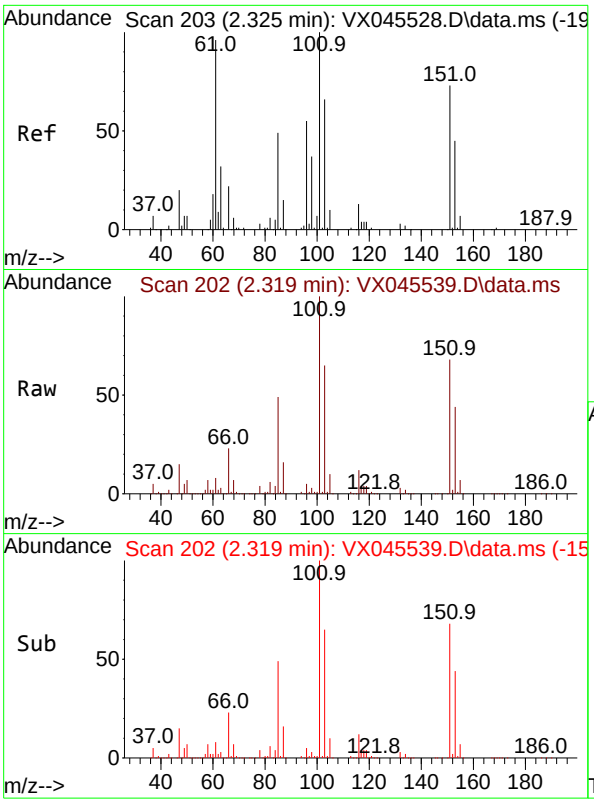


#4
Vinyl Chloride
Concen: 8.818 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX045539.D
Acq: 02 Apr 2025 12:07

Tgt Ion: 62 Resp: 7167

Ion	Ratio	Lower	Upper
62	100		
64	29.7	25.5	38.3



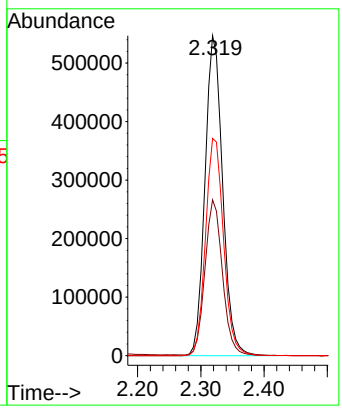


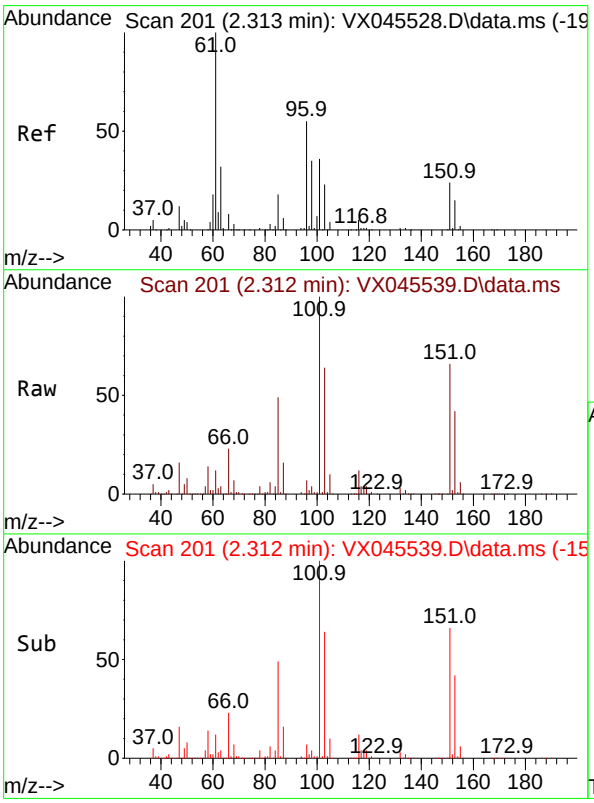
#9
1,1,2-Trichlorotrifluoroethane
Concen: 1496.426 ug/l
RT: 2.319 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX045539.D
Acq: 02 Apr 2025 12:07

Instrument :
MSVOA_X
ClientSampleId :
MW-19B-72-040125

Tgt Ion:101 Resp: 1062783

Ion	Ratio	Lower	Upper
101	100		
85	48.3	38.9	58.3
151	69.4	57.5	86.3

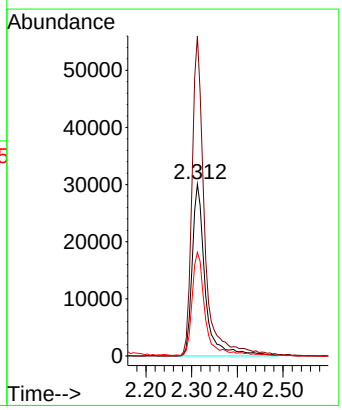


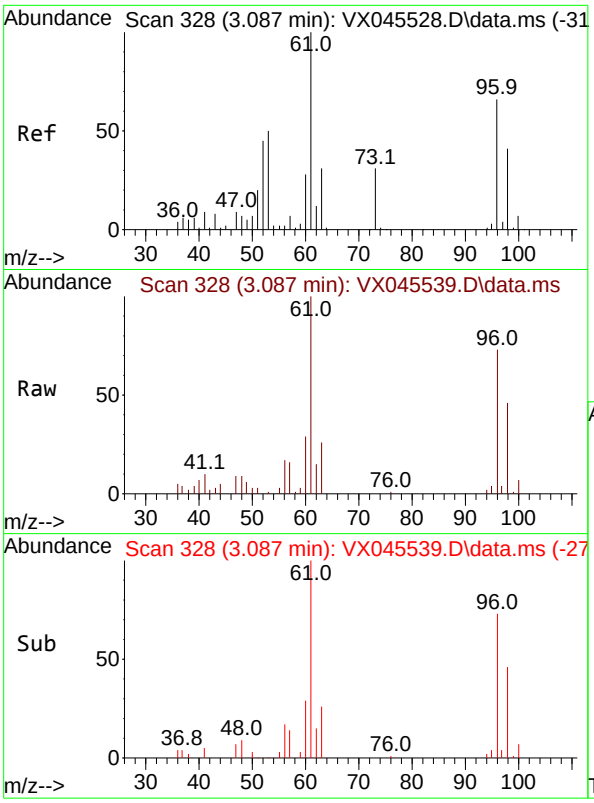


#12
1,1-Dichloroethene
Concen: 85.868 ug/l
RT: 2.312 min Scan# 201
Delta R.T. -0.000 min
Lab File: VX045539.D
Acq: 02 Apr 2025 12:07

Tgt Ion: 96 Resp: 59590

Ion	Ratio	Lower	Upper
96	100		
61	186.2	145.7	218.5
98	59.7	51.6	77.4



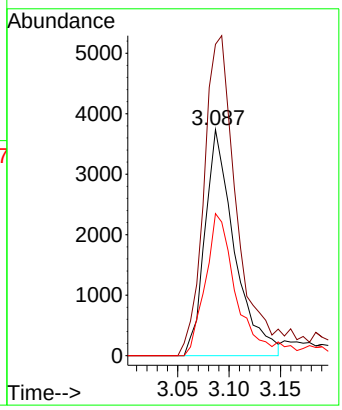


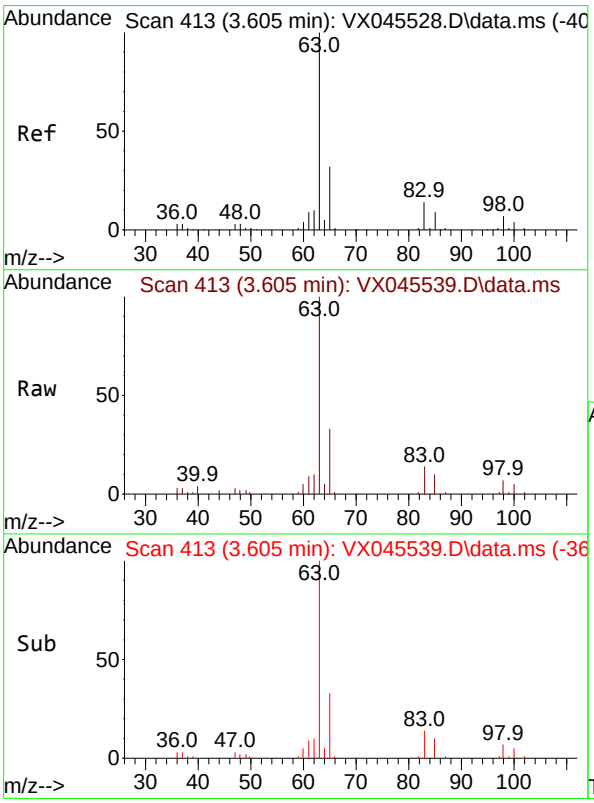
#21
trans-1,2-Dichloroethene
Concen: 10.533 ug/l
RT: 3.087 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045539.D
Acq: 02 Apr 2025 12:07

Instrument :
MSVOA_X
ClientSampleId :
MW-19B-72-040125

Tgt Ion: 96 Resp: 7468

Ion	Ratio	Lower	Upper
96	100		
61	137.7	121.0	181.6
98	62.9	49.7	74.5

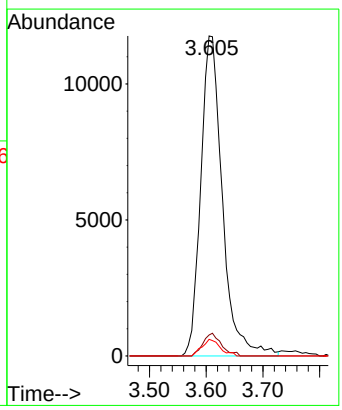


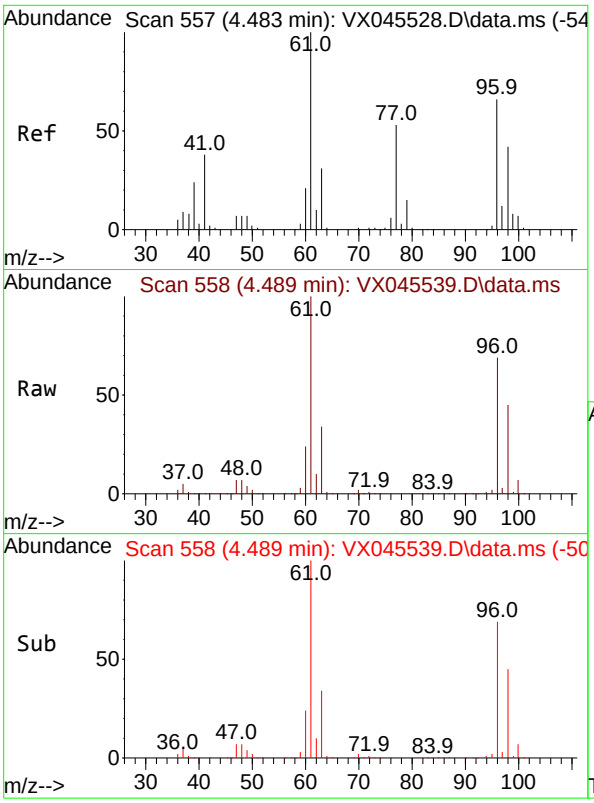


#24
1,1-Dichloroethane
Concen: 21.256 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX045539.D
Acq: 02 Apr 2025 12:07

Tgt Ion: 63 Resp: 31180

Ion	Ratio	Lower	Upper
63	100		
98	6.6	3.4	10.1
100	5.2	2.2	6.6



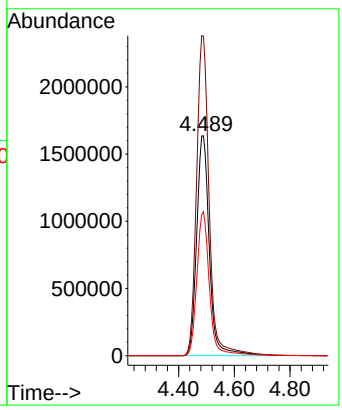


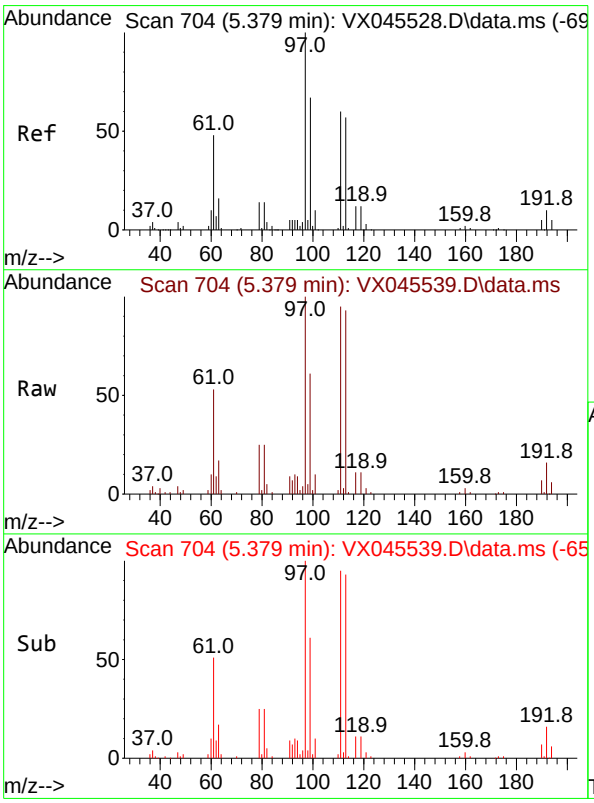
#27
cis-1,2-Dichloroethene
Concen: 5991.947 ug/l
RT: 4.489 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX045539.D
Acq: 02 Apr 2025 12:07

Instrument :
MSVOA_X
ClientSampleId :
MW-19B-72-040125

Tgt Ion: 96 Resp: 5175672

Ion	Ratio	Lower	Upper
96	100		
61	144.2	0.0	313.2
98	64.6	0.0	126.4

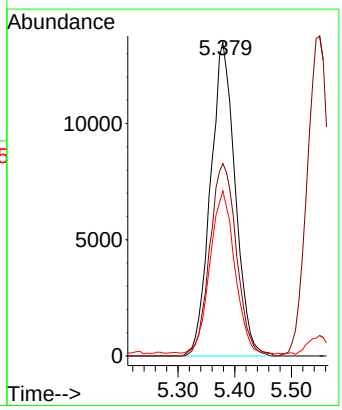


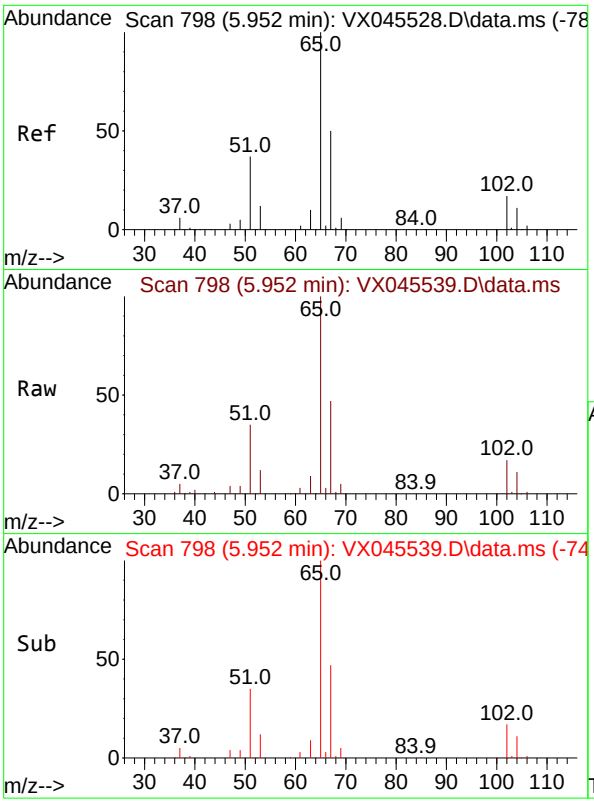


#32
1,1,1-Trichloroethane
Concen: 31.977 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.000 min
Lab File: VX045539.D
Acq: 02 Apr 2025 12:07

Tgt Ion: 97 Resp: 40840

Ion	Ratio	Lower	Upper
97	100		
99	65.8	51.7	77.5
61	52.4	41.0	61.4



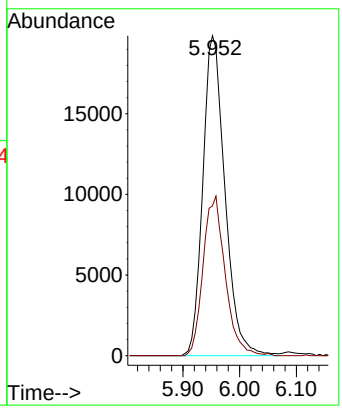


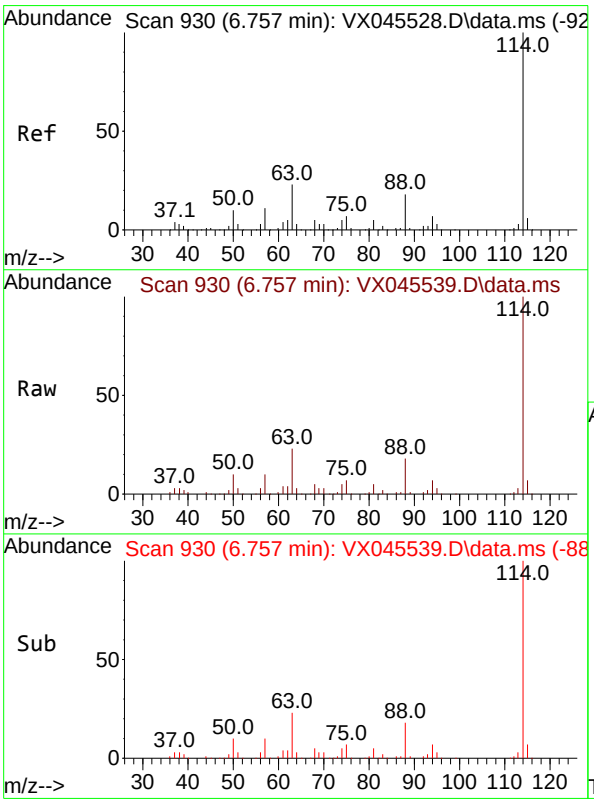
#33
1,2-Dichloroethane-d4
Concen: 50.854 ug/l
RT: 5.952 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045539.D
Acq: 02 Apr 2025 12:07

Instrument :
MSVOA_X
ClientSampleId :
MW-19B-72-040125

Tgt Ion: 65 Resp: 53760

Ion	Ratio	Lower	Upper
65	100		
67	49.9	0.0	99.0

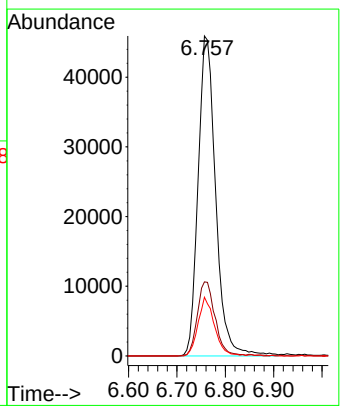


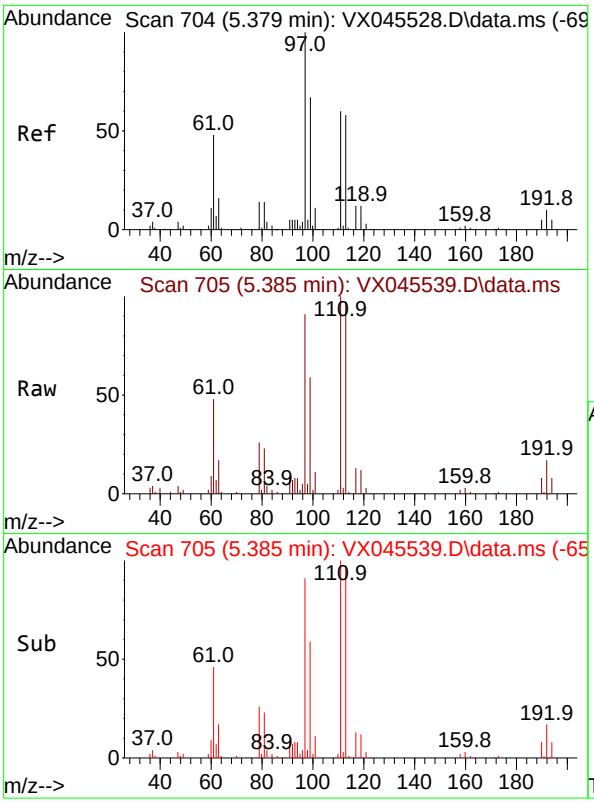


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX045539.D
Acq: 02 Apr 2025 12:07

Tgt Ion:114 Resp: 116089

Ion	Ratio	Lower	Upper
114	100		
63	23.2	0.0	46.8
88	18.4	0.0	35.4



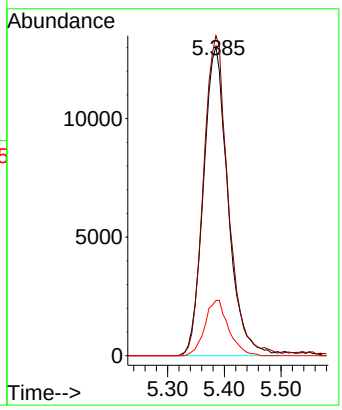


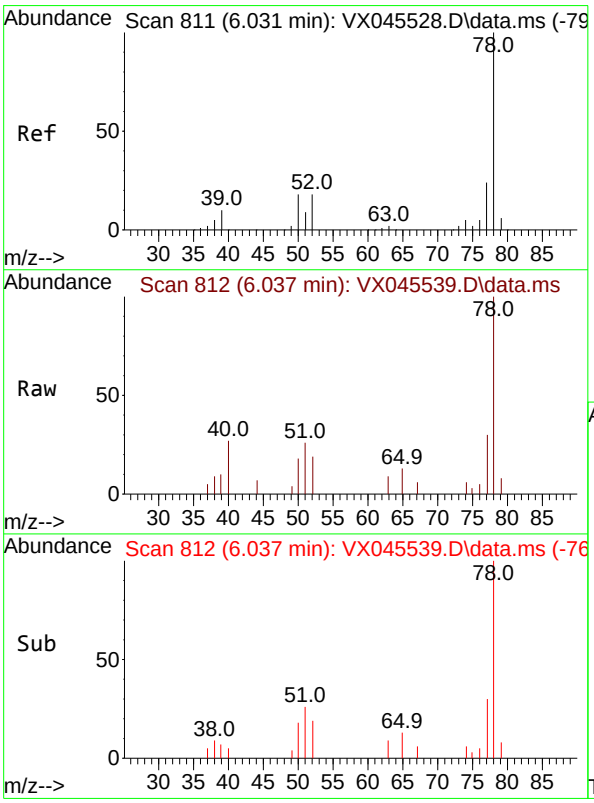
#35
Dibromofluoromethane
Concen: 47.639 ug/l
RT: 5.385 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX045539.D
Acq: 02 Apr 2025 12:07

Instrument :
MSVOA_X
ClientSampleId :
MW-19B-72-040125

Tgt Ion:113 Resp: 39238

Ion	Ratio	Lower	Upper
113	100		
111	104.2	81.8	122.6
192	17.3	13.8	20.6

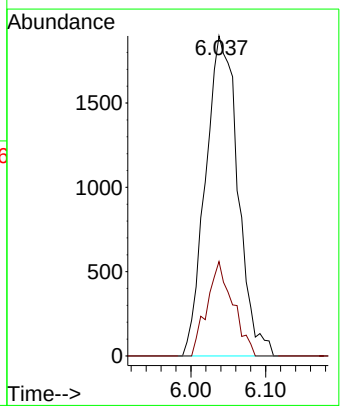


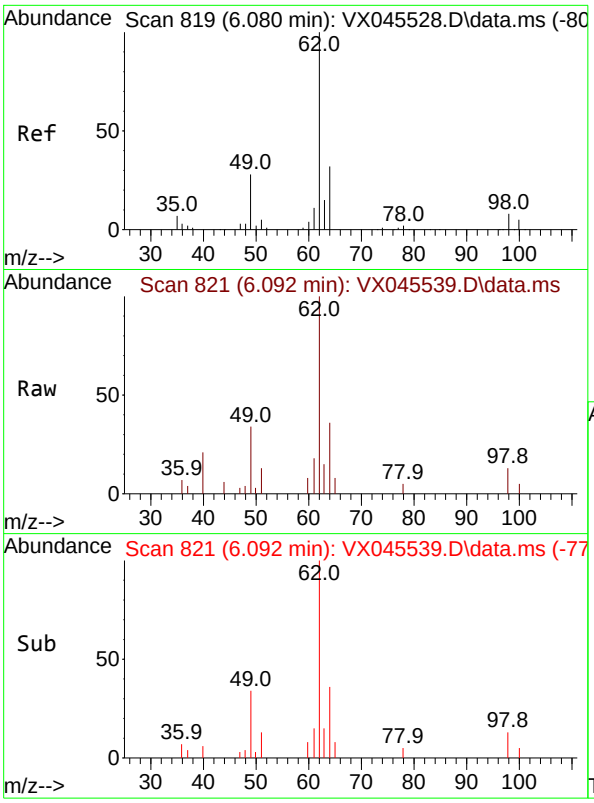


#40
Benzene
Concen: 1.684 ug/l
RT: 6.037 min Scan# 812
Delta R.T. 0.006 min
Lab File: VX045539.D
Acq: 02 Apr 2025 12:07

Tgt Ion: 78 Resp: 5720

Ion	Ratio	Lower	Upper
78	100		
77	29.5	19.0	28.6#



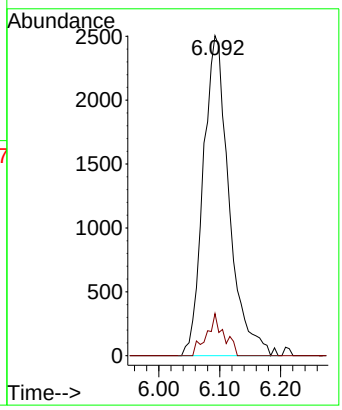


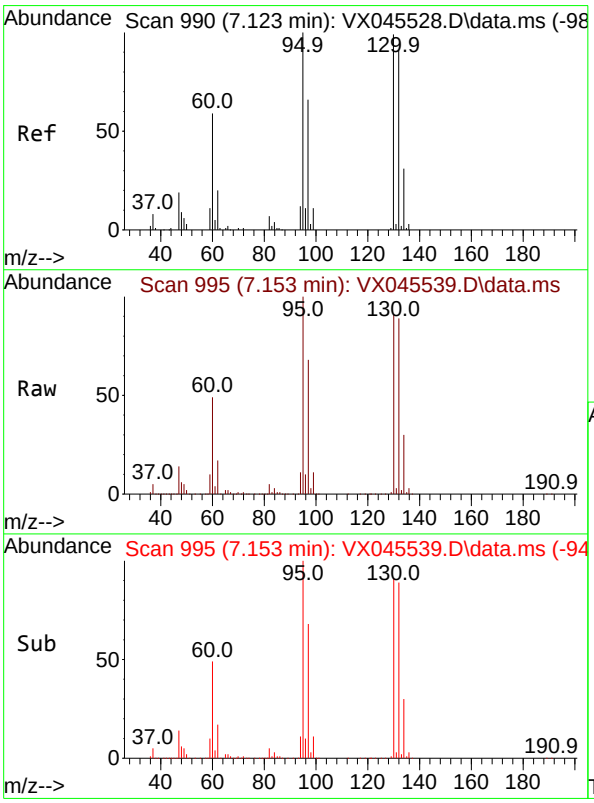
#42
1,2-Dichloroethane
Concen: 5.251 ug/l
RT: 6.092 min Scan# 8
Delta R.T. 0.012 min
Lab File: VX045539.D
Acq: 02 Apr 2025 12:07

Instrument :
MSVOA_X
ClientSampleId :
MW-19B-72-040125

Tgt Ion: 62 Resp: 7366

Ion	Ratio	Lower	Upper
62	100		
98	8.8	0.0	15.2

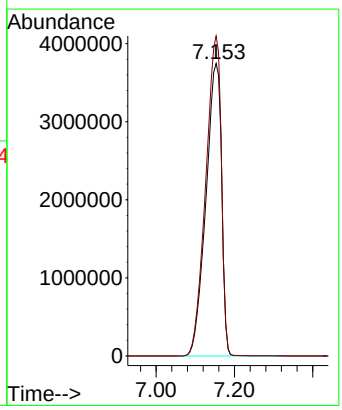


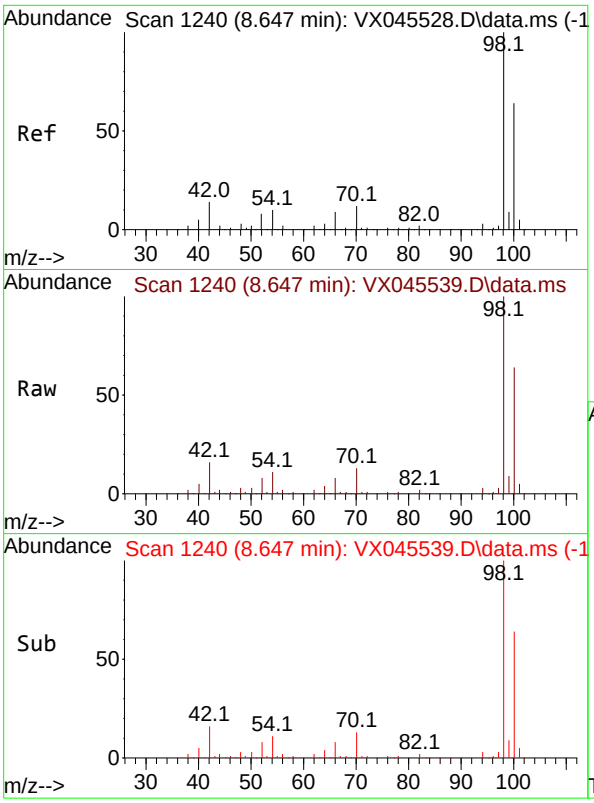


#44
Trichloroethene
Concen: 12858.147 ug/l
RT: 7.153 min Scan# 995
Delta R.T. 0.030 min
Lab File: VX045539.D
Acq: 02 Apr 2025 12:07

Tgt Ion:130 Resp:10380152

Ion	Ratio	Lower	Upper
130	100		
95	109.4	0.0	202.0



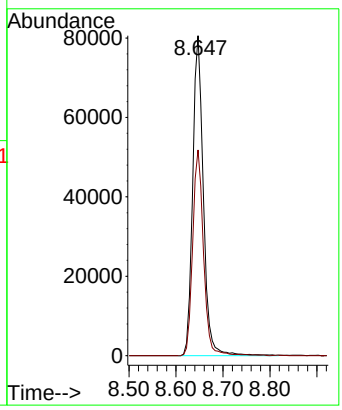


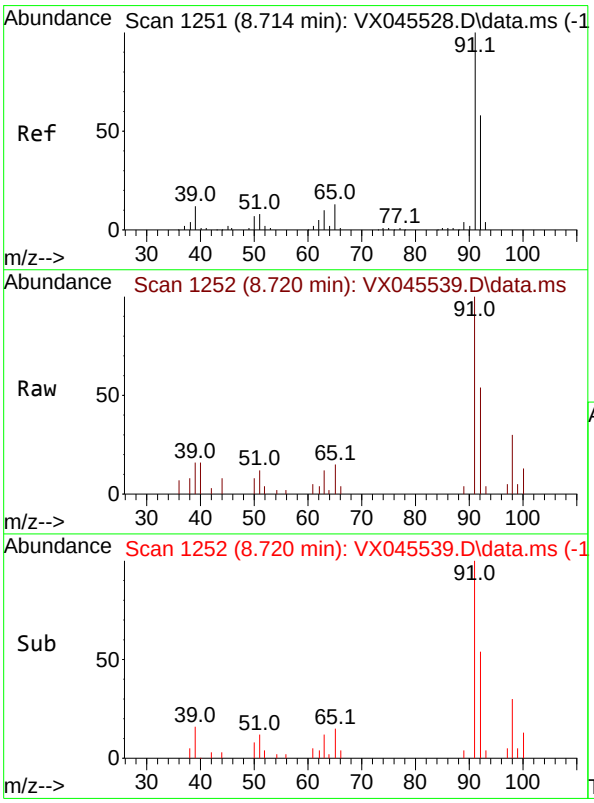
#50
Toluene-d8
Concen: 44.502 ug/l
RT: 8.647 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045539.D
Acq: 02 Apr 2025 12:07

Instrument :
MSVOA_X
ClientSampleId :
MW-19B-72-040125

Tgt Ion: 98 Resp: 127937

Ion	Ratio	Lower	Upper
98	100		
100	65.2	52.2	78.4

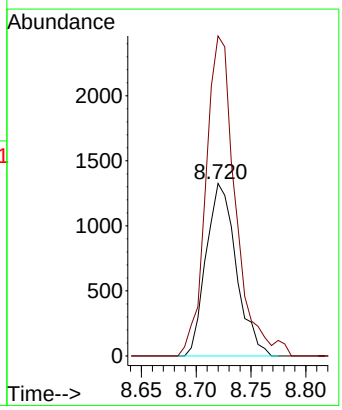


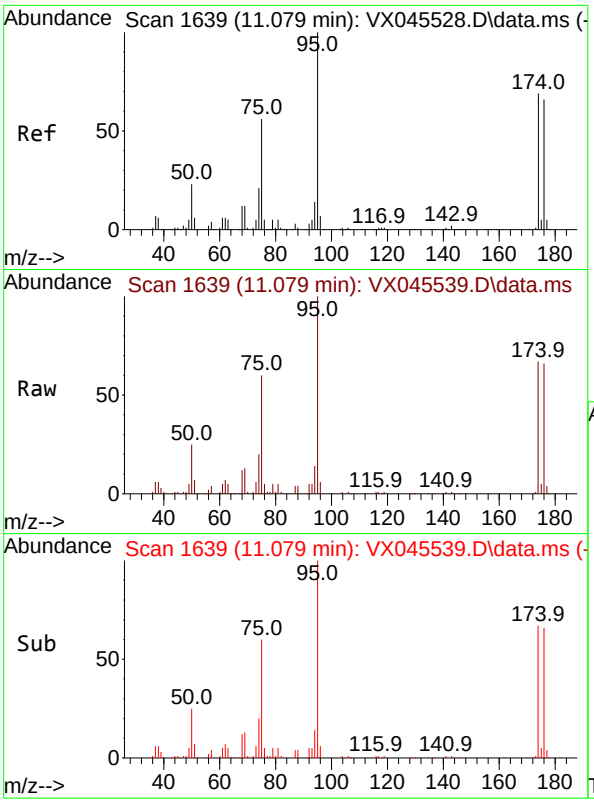


#52
Toluene
Concen: 1.232 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.006 min
Lab File: VX045539.D
Acq: 02 Apr 2025 12:07

Tgt Ion: 92 Resp: 2533

Ion	Ratio	Lower	Upper
92	100		
91	182.7	138.7	208.1



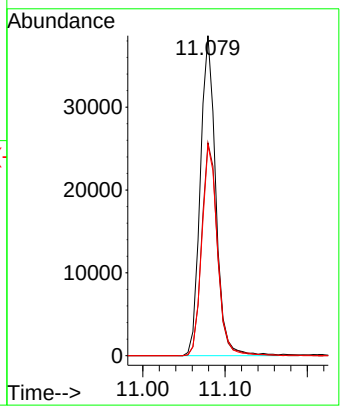


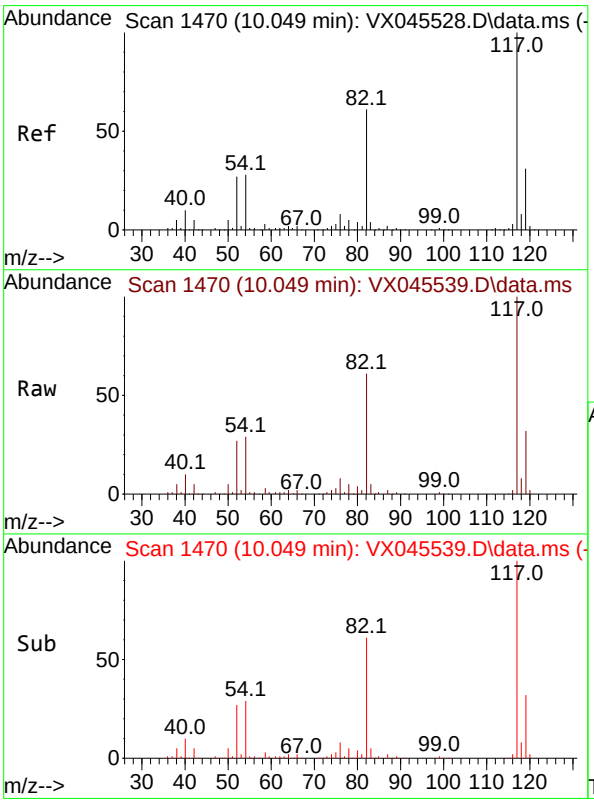
#62
4-Bromofluorobenzene
Concen: 48.294 ug/l
RT: 11.079 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045539.D
Acq: 02 Apr 2025 12:07

Instrument :
MSVOA_X
ClientSampleId :
MW-19B-72-040125

Tgt Ion: 95 Resp: 50572

Ion	Ratio	Lower	Upper
95	100		
174	67.2	0.0	135.8
176	66.7	0.0	131.4

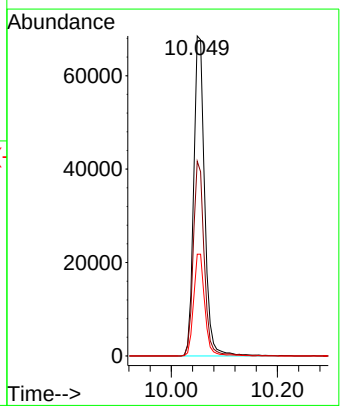


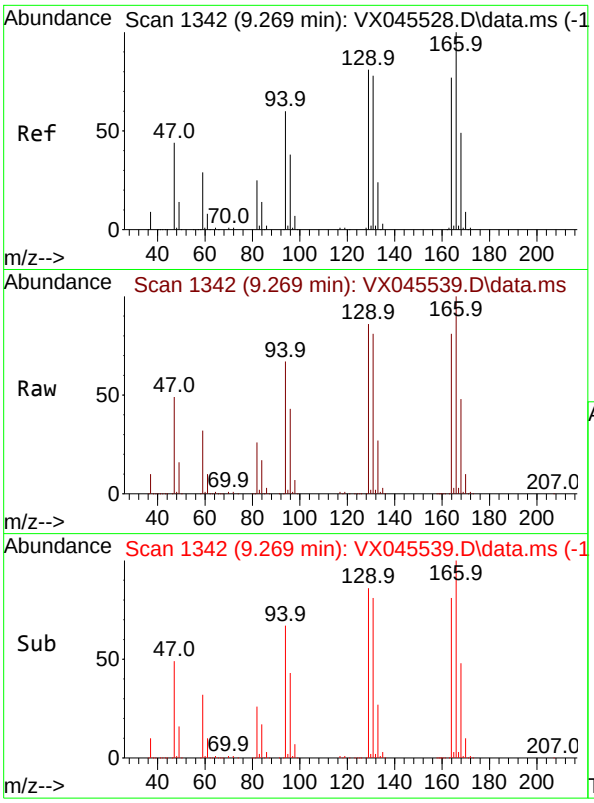


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. -0.000 min
Lab File: VX045539.D
Acq: 02 Apr 2025 12:07

Tgt Ion:117 Resp: 97826

Ion	Ratio	Lower	Upper
117	100		
82	60.8	49.2	73.8
119	31.8	25.1	37.7



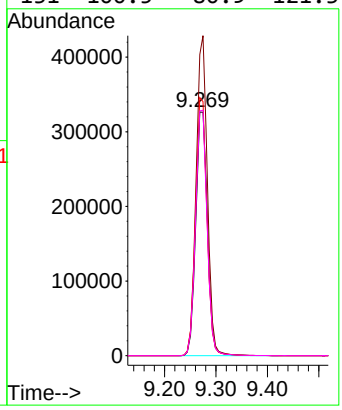


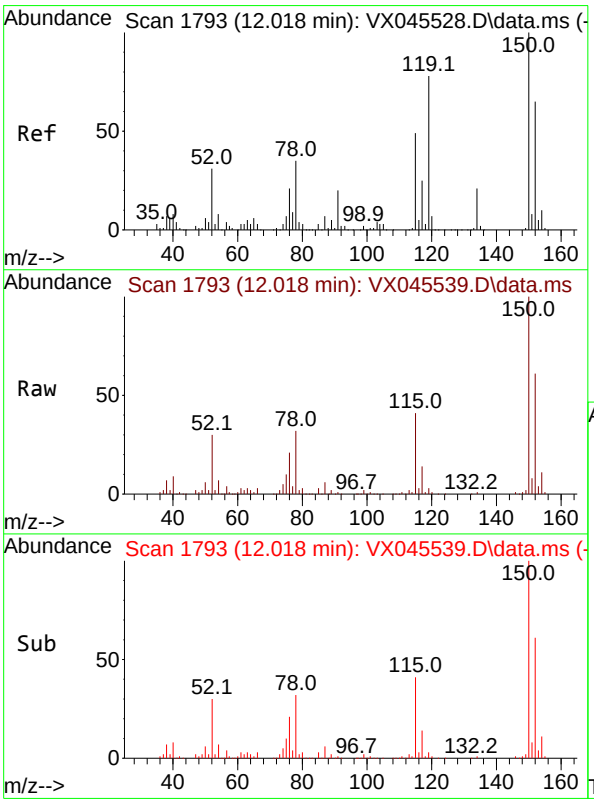
#64
Tetrachloroethene
Concen: 742.505 ug/l
RT: 9.269 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045539.D
Acq: 02 Apr 2025 12:07

Instrument :
MSVOA_X
ClientSampleId :
MW-19B-72-040125

Tgt Ion:164 Resp: 512834

Ion	Ratio	Lower	Upper
164	100		
166	123.6	103.8	155.8
129	105.9	84.3	126.5
131	100.5	80.9	121.3

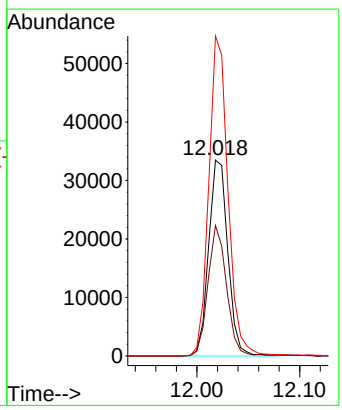


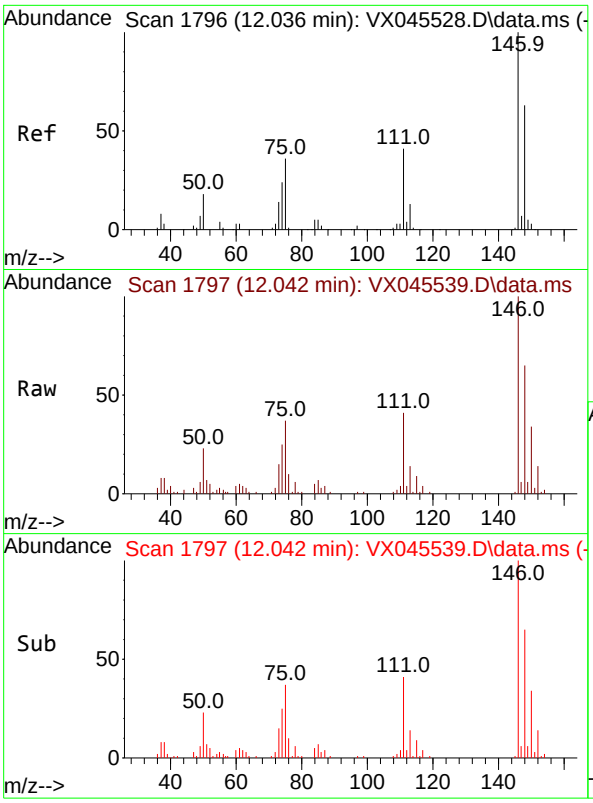


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX045539.D
Acq: 02 Apr 2025 12:07

Tgt Ion:152 Resp: 43516

Ion	Ratio	Lower	Upper
152	100		
115	64.7	46.9	140.7
150	162.9	0.0	349.4



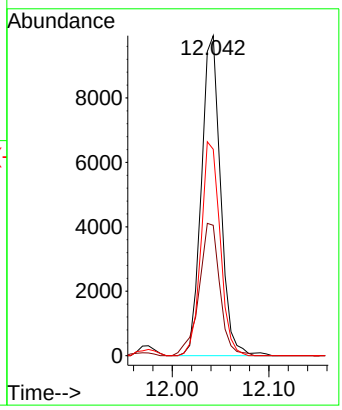


#88
1,4-Dichlorobenzene
Concen: 9.219 ug/l
RT: 12.042 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045539.D
Acq: 02 Apr 2025 12:07

Instrument :
MSVOA_X
ClientSampleId :
MW-19B-72-040125

Tgt Ion:146 Resp: 13702

Ion	Ratio	Lower	Upper
146	100		
111	44.7	20.9	62.8
148	66.4	31.5	94.5



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:	04/01/25
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	04/01/25
Client Sample ID:	MW-19B-72-040125DL	SDG No.:	Q1697
Lab Sample ID:	Q1697-01DL	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
VX045542.D	200		04/02/25 13:21	VX040225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	52.0	UD	52.0	200	ug/L
75-35-4	1,1-Dichloroethene	100	JD	46.0	200	ug/L
75-34-3	1,1-Dichloroethane	46.0	UD	46.0	200	ug/L
156-59-2	cis-1,2-Dichloroethene	6900	D	38.0	200	ug/L
71-55-6	1,1,1-Trichloroethane	40.0	UD	40.0	200	ug/L
71-43-2	Benzene	30.0	UD	30.0	200	ug/L
107-06-2	1,2-Dichloroethane	44.0	UD	44.0	200	ug/L
79-01-6	Trichloroethene	17300	D	18.6	200	ug/L
79-00-5	1,1,2-Trichloroethane	42.0	UD	42.0	200	ug/L
127-18-4	Tetrachloroethene	790	D	46.0	200	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.9		70 (74) - 130 (125)	104%	SPK: 50
1868-53-7	Dibromofluoromethane	51.7		70 (75) - 130 (124)	103%	SPK: 50
2037-26-5	Toluene-d8	50.5		70 (86) - 130 (113)	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.9		70 (77) - 130 (121)	102%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	61300	5.544			
540-36-3	1,4-Difluorobenzene	119000	6.757			
3114-55-4	Chlorobenzene-d5	112000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	46900	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

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045542.D
Acq On : 02 Apr 2025 13:21
Operator : JC/MD
Sample : Q1697-01DL 200X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
MW-19B-72-040125DL

Quant Time: Apr 03 01:51:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

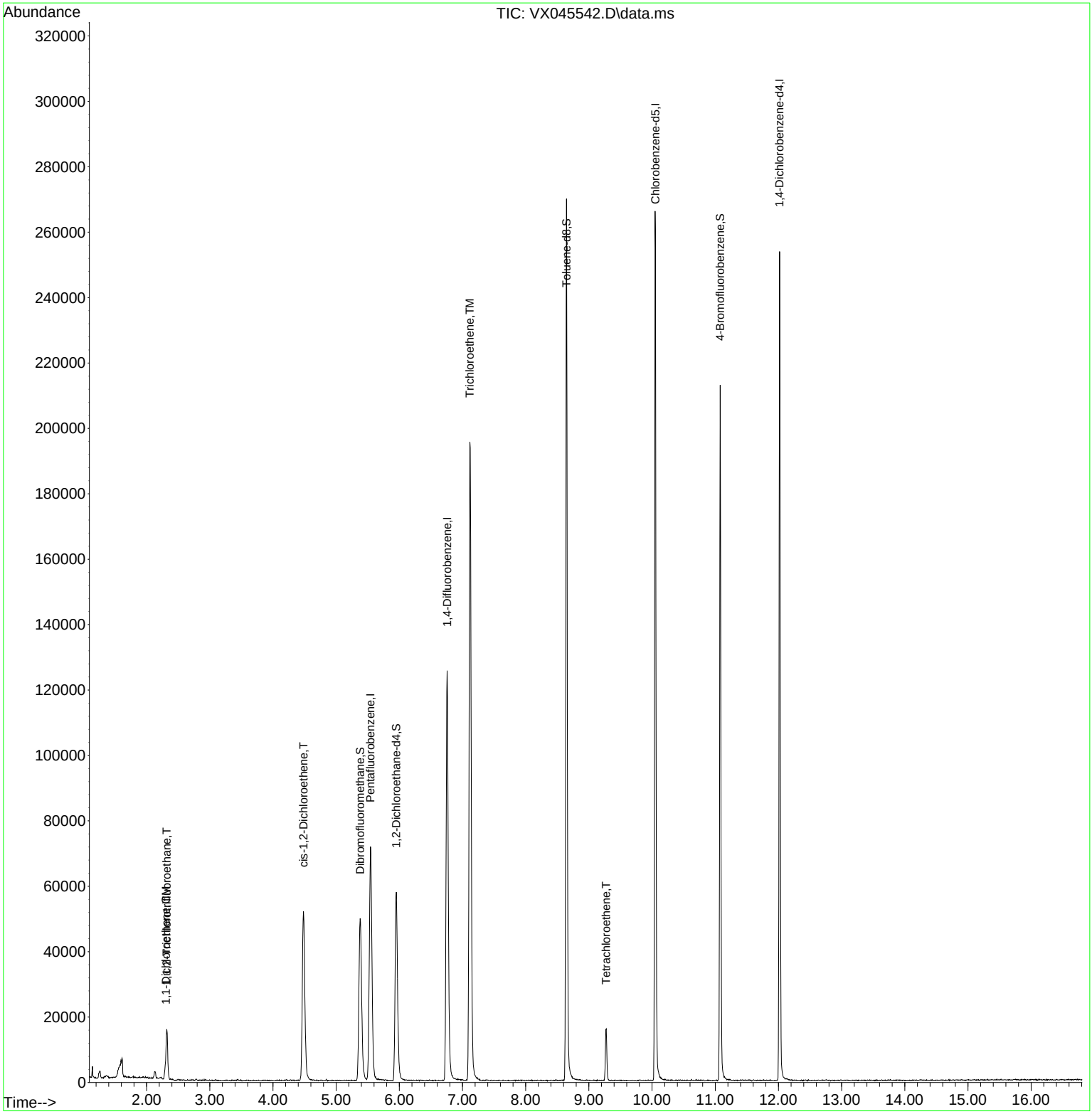
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.544	168	61305	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	6.757	114	119039	50.000	ug/l		0.00
63) Chlorobenzene-d5	10.055	117	112137	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	46922	50.000	ug/l		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4	5.952	65	58149	51.867	ug/l		0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 103.740%				
35) Dibromofluoromethane	5.379	113	43629	51.657	ug/l		0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.320%				
50) Toluene-d8	8.647	98	148923	50.518	ug/l		0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.040%				
62) 4-Bromofluorobenzene	11.079	95	54652	50.897	ug/l		0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 101.800%				
Target Compounds							Qvalue
9) 1,1,2-Trichlorotrifluo...	2.319	101	5707	7.577	ug/l		94
12) 1,1-Dichloroethene	2.307	96	382	0.519	ug/l	#	56
27) cis-1,2-Dichloroethene	4.483	96	31539	34.430	ug/l		89
44) Trichloroethene	7.117	130	71796	86.731	ug/l		91
64) Tetrachloroethene	9.275	164	3112	3.931	ug/l	#	82

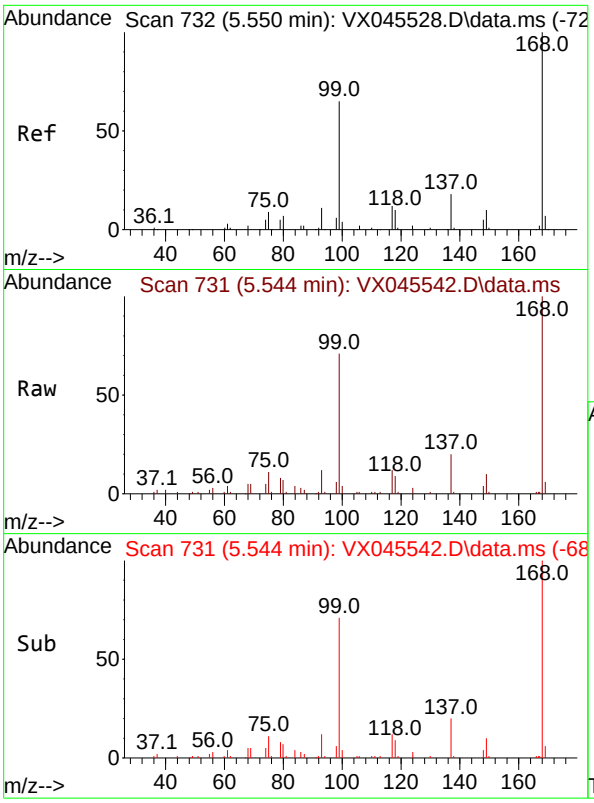
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045542.D
Acq On : 02 Apr 2025 13:21
Operator : JC/MD
Sample : Q1697-01DL 200X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
MW-19B-72-040125DL

Quant Time: Apr 03 01:51:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration



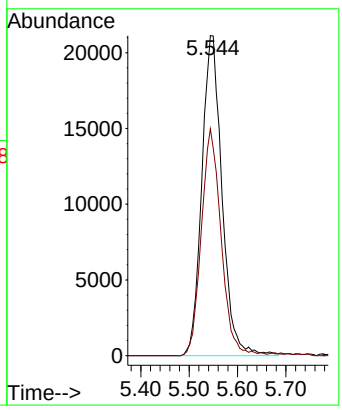


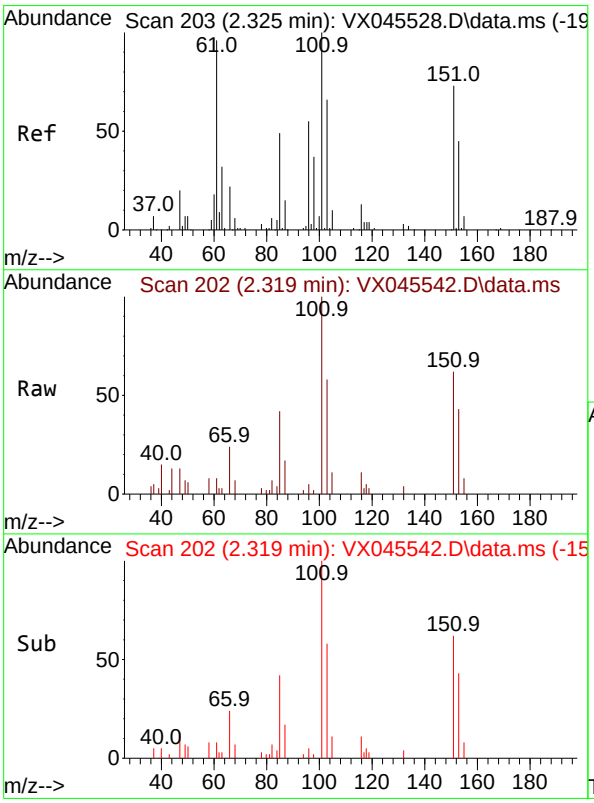
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045542.D
Acq: 02 Apr 2025 13:21

Instrument :
MSVOA_X
ClientSampleId :
MW-19B-72-040125DL

Tgt Ion:168 Resp: 61305

Ion	Ratio	Lower	Upper
168	100		
99	70.9	52.3	78.5

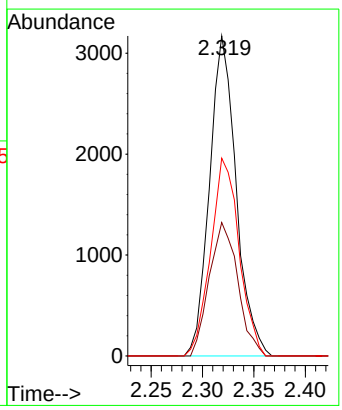


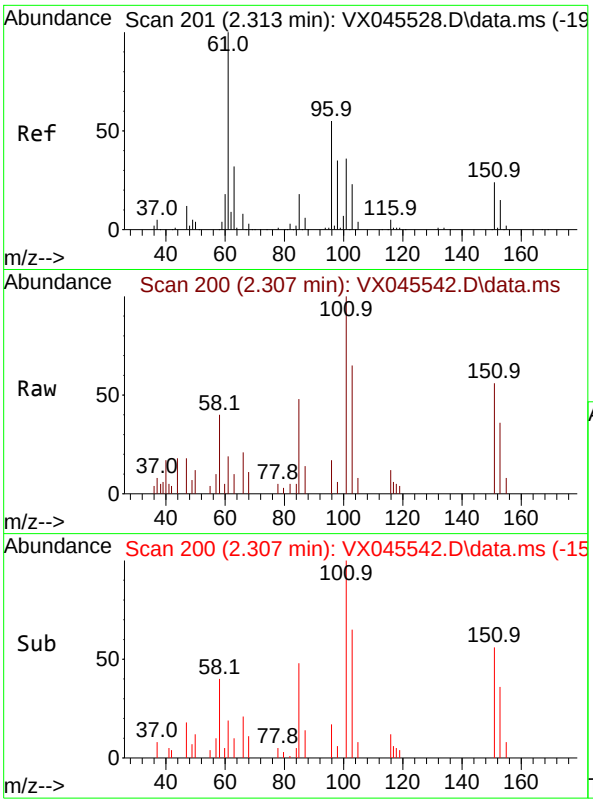


#9
1,1,2-Trichlorotrifluoroethane
Concen: 7.577 ug/l
RT: 2.319 min Scan# 202
Delta R.T. -0.006 min
Lab File: VX045542.D
Acq: 02 Apr 2025 13:21

Tgt Ion:101 Resp: 5707

Ion	Ratio	Lower	Upper
101	100		
85	44.7	38.9	58.3
151	66.1	57.5	86.3



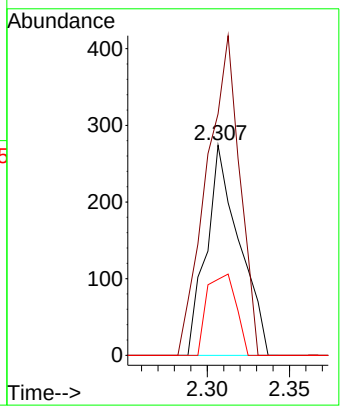


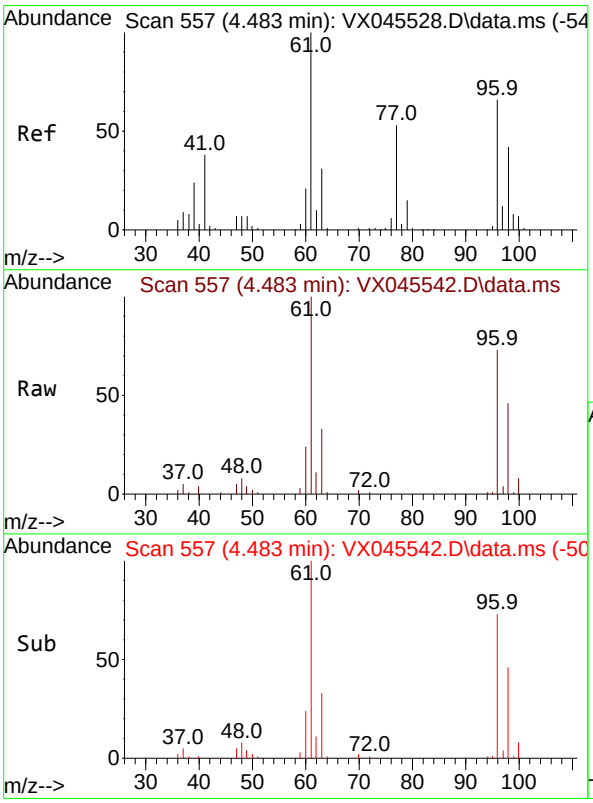
#12
1,1-Dichloroethene
Concen: 0.519 ug/l
RT: 2.307 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX045542.D
Acq: 02 Apr 2025 13:21

Instrument :
MSVOA_X
ClientSampleId :
MW-19B-72-040125DL

Tgt Ion: 96 Resp: 382

Ion	Ratio	Lower	Upper
96	100		
61	115.0	145.7	218.5#
98	36.1	51.6	77.4#

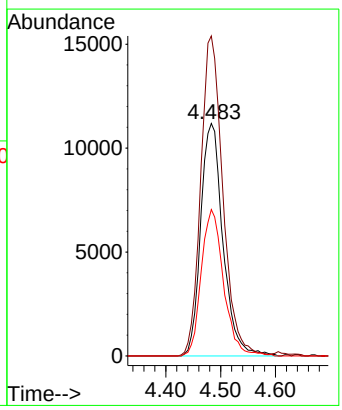


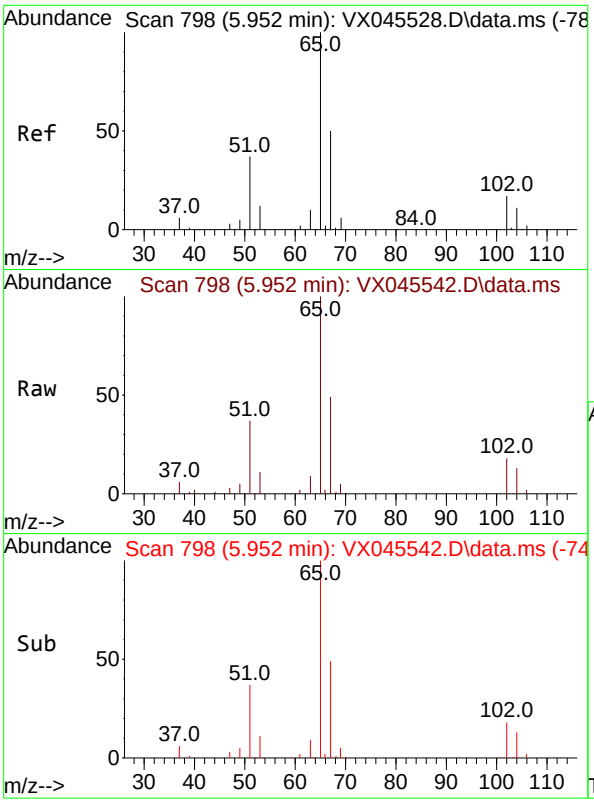


#27
cis-1,2-Dichloroethene
Concen: 34.430 ug/l
RT: 4.483 min Scan# 557
Delta R.T. 0.000 min
Lab File: VX045542.D
Acq: 02 Apr 2025 13:21

Tgt Ion: 96 Resp: 31539

Ion	Ratio	Lower	Upper
96	100		
61	136.6	0.0	313.2
98	63.1	0.0	126.4



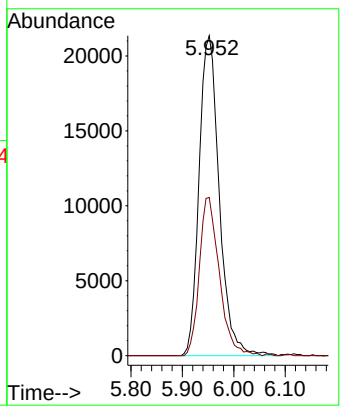


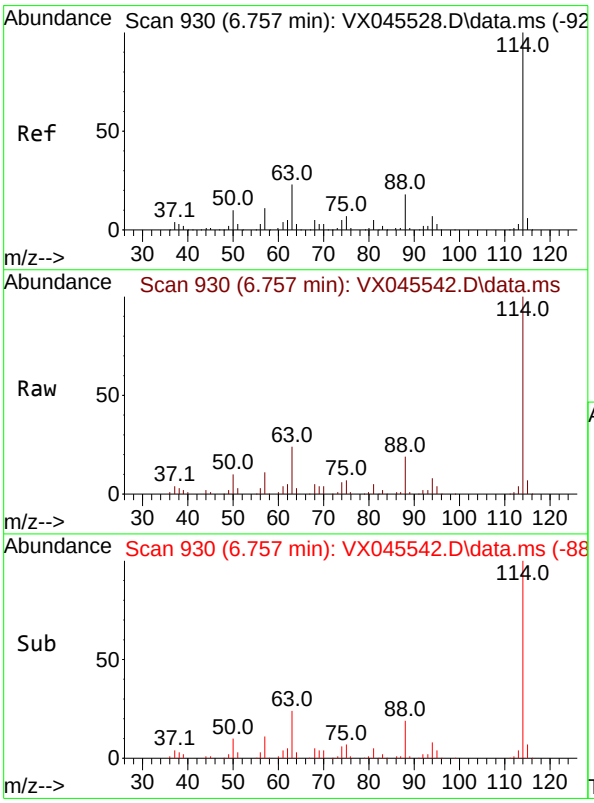
#33
1,2-Dichloroethane-d4
Concen: 51.867 ug/l
RT: 5.952 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX045542.D
Acq: 02 Apr 2025 13:21

Instrument :
MSVOA_X
ClientSampleId :
MW-19B-72-040125DL

Tgt Ion: 65 Resp: 58149

Ion	Ratio	Lower	Upper
65	100		
67	49.0	0.0	99.0

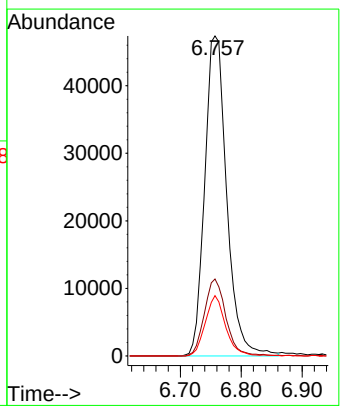


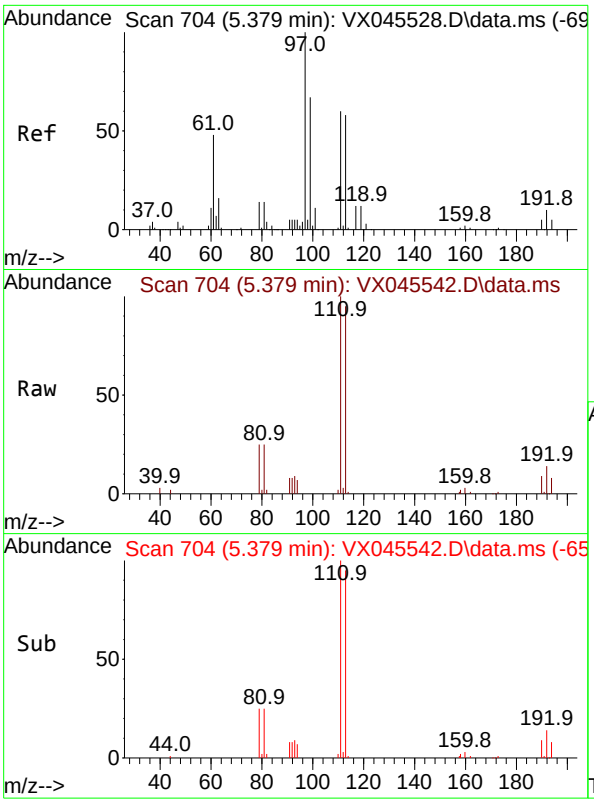


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX045542.D
Acq: 02 Apr 2025 13:21

Tgt Ion:114 Resp: 119039

Ion	Ratio	Lower	Upper
114	100		
63	24.0	0.0	46.8
88	18.9	0.0	35.4



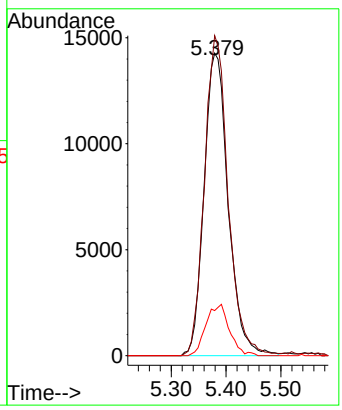


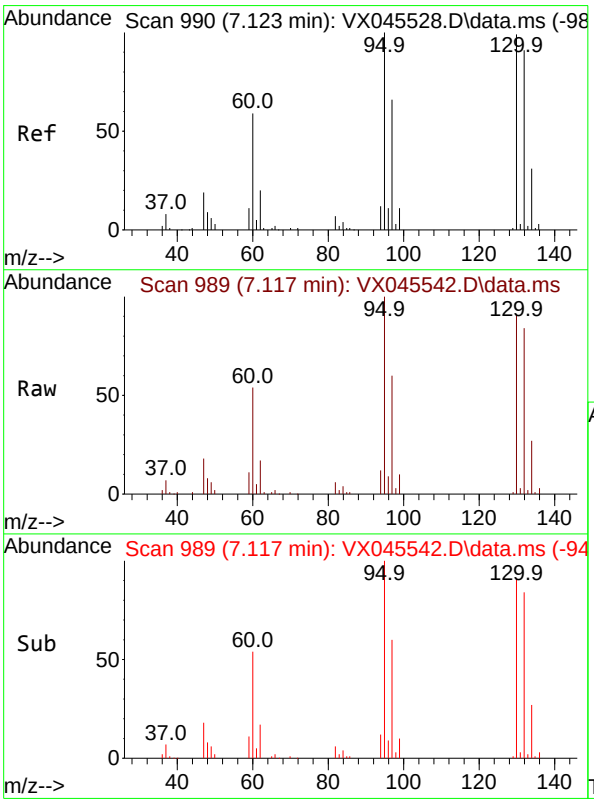
#35
Dibromofluoromethane
Concen: 51.657 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX045542.D
Acq: 02 Apr 2025 13:21

Instrument :
MSVOA_X
ClientSampleId :
MW-19B-72-040125DL

Tgt Ion:113 Resp: 43629

Ion	Ratio	Lower	Upper
113	100		
111	103.7	81.8	122.6
192	16.5	13.8	20.6

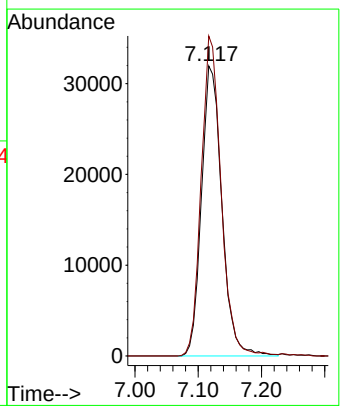


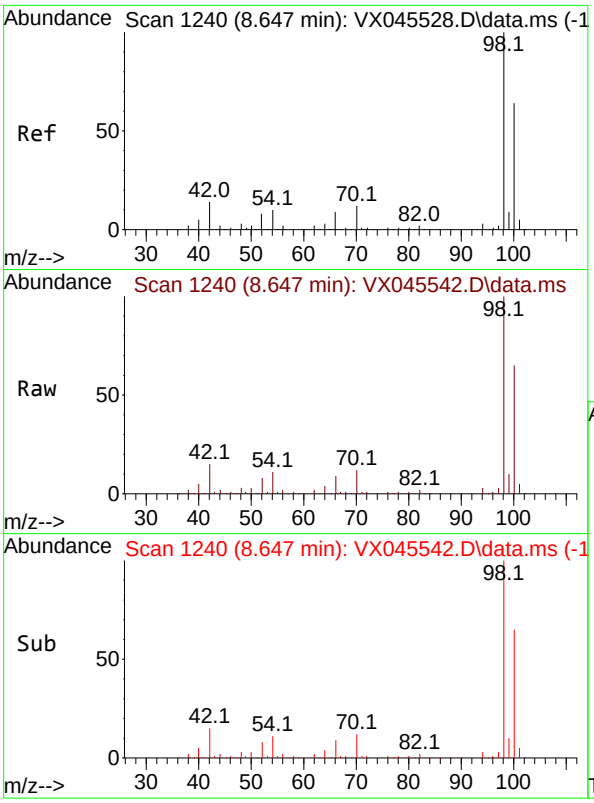


#44
Trichloroethene
Concen: 86.731 ug/l
RT: 7.117 min Scan# 989
Delta R.T. -0.006 min
Lab File: VX045542.D
Acq: 02 Apr 2025 13:21

Tgt Ion:130 Resp: 71796

Ion	Ratio	Lower	Upper
130	100		
95	110.3	0.0	202.0



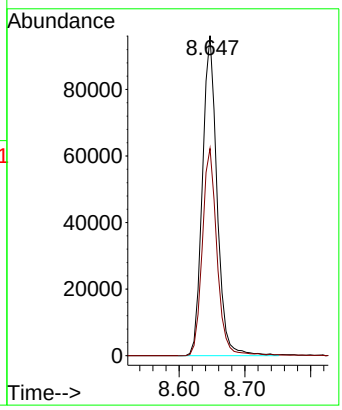


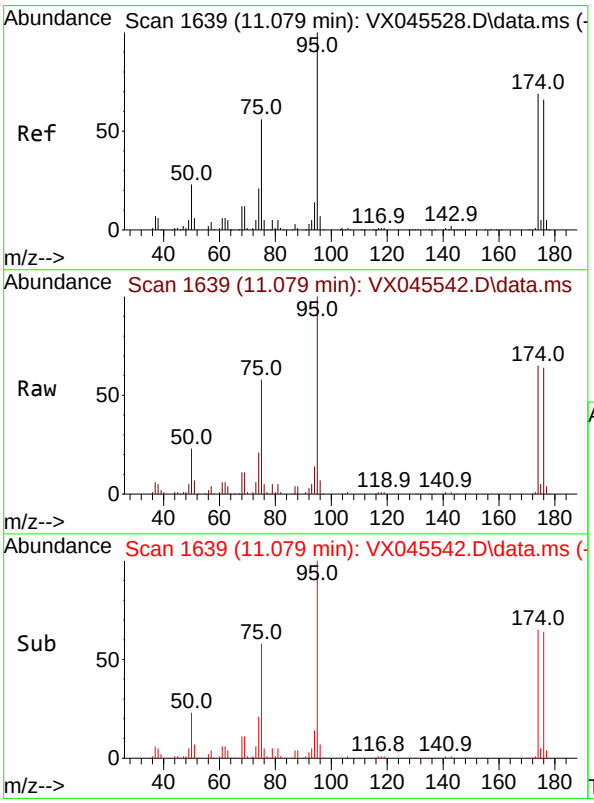
#50
Toluene-d8
Concen: 50.518 ug/l
RT: 8.647 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045542.D
Acq: 02 Apr 2025 13:21

Instrument :
MSVOA_X
ClientSampleId :
MW-19B-72-040125DL

Tgt Ion: 98 Resp: 148923

Ion	Ratio	Lower	Upper
98	100		
100	65.2	52.2	78.4

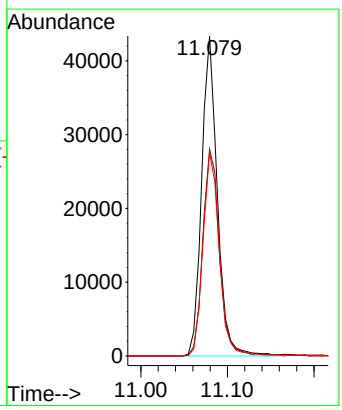


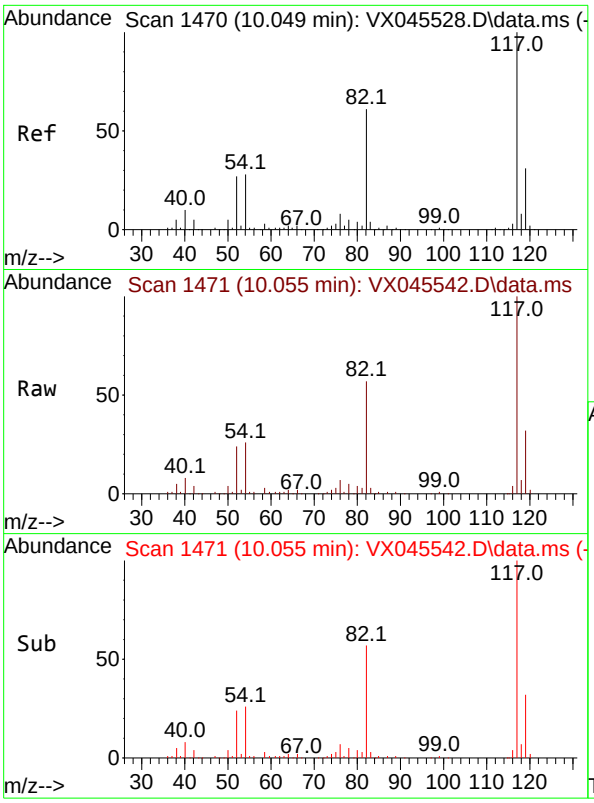


#62
4-Bromofluorobenzene
Concen: 50.897 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX045542.D
Acq: 02 Apr 2025 13:21

Tgt Ion: 95 Resp: 54652

Ion	Ratio	Lower	Upper
95	100		
174	68.3	0.0	135.8
176	66.0	0.0	131.4



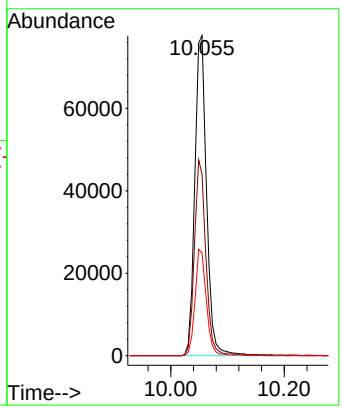


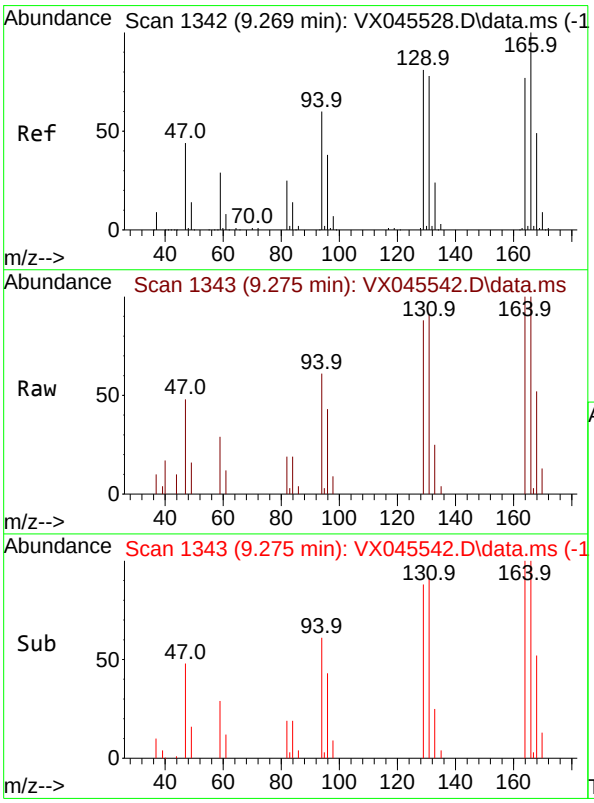
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX045542.D
Acq: 02 Apr 2025 13:21

Instrument :
MSVOA_X
ClientSampleId :
MW-19B-72-040125DL

Tgt Ion:117 Resp: 112137

Ion	Ratio	Lower	Upper
117	100		
82	56.7	49.2	73.8
119	32.1	25.1	37.7

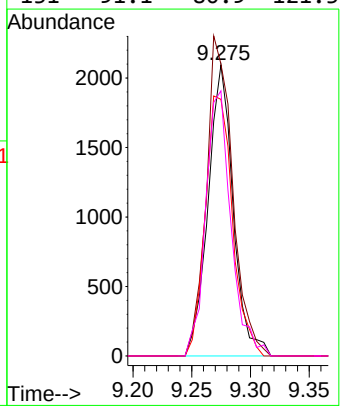


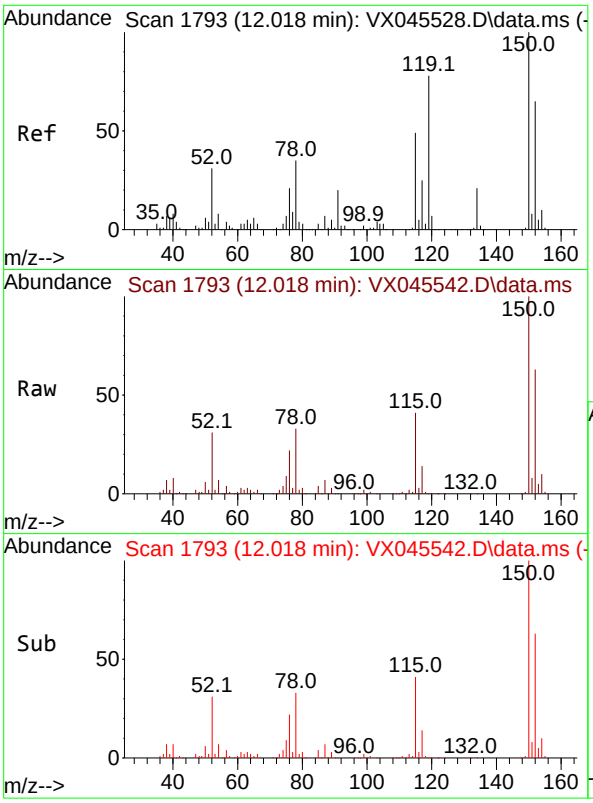


#64
Tetrachloroethene
Concen: 3.931 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. 0.006 min
Lab File: VX045542.D
Acq: 02 Apr 2025 13:21

Tgt Ion:164 Resp: 3112

Ion	Ratio	Lower	Upper
164	100		
166	100.4	103.8	155.8#
129	88.2	84.3	126.5
131	91.1	80.9	121.3



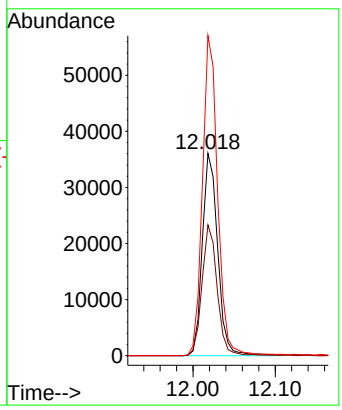


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045542.D
Acq: 02 Apr 2025 13:21

Instrument :
MSVOA_X
ClientSampleId :
MW-19B-72-040125DL

Tgt Ion:152 Resp: 46922

Ion	Ratio	Lower	Upper
152	100		
115	63.8	46.9	140.7
150	156.3	0.0	349.4



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:	04/01/25
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	04/01/25
Client Sample ID:	IW-01-55-040125	SDG No.:	Q1697
Lab Sample ID:	Q1697-02	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
VX045540.D	1		04/02/25 12:30	VX040225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.26	U	0.26	1.00	ug/L
75-35-4	1,1-Dichloroethene	8.60		0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	7.20		0.23	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	93.9		0.19	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	1.00	ug/L
71-43-2	Benzene	0.15	U	0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	1.00	ug/L
79-01-6	Trichloroethene	340	E	0.090	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
127-18-4	Tetrachloroethene	3.10		0.23	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.7		70 (74) - 130 (125)	103%	SPK: 50
1868-53-7	Dibromofluoromethane	51.8		70 (75) - 130 (124)	104%	SPK: 50
2037-26-5	Toluene-d8	51.5		70 (86) - 130 (113)	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.6		70 (77) - 130 (121)	97%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	60100	5.544			
540-36-3	1,4-Difluorobenzene	115000	6.757			
3114-55-4	Chlorobenzene-d5	105000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	42600	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

Quantitation Report (LSC Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045540.D
Acq On : 02 Apr 2025 12:30
Operator : JC/MD
Sample : Q1697-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
IW-01-55-040125

Quant Time: Apr 03 01:49:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

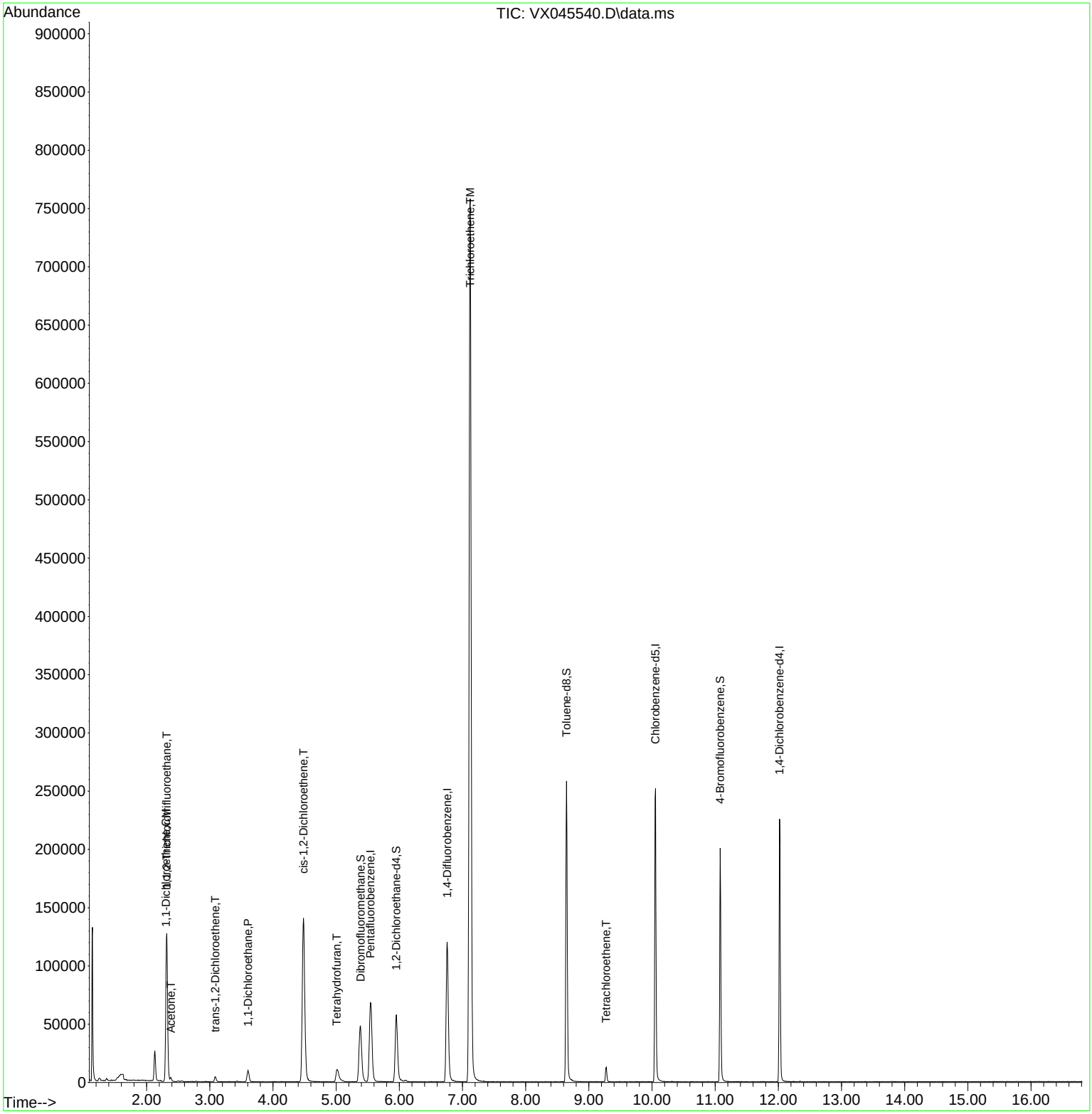
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	60052	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	115456	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	105045	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	42637	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	56822	51.741	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 103.480%			
35) Dibromofluoromethane	5.385	113	42428	51.794	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.580%			
50) Toluene-d8	8.647	98	147275	51.509	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 103.020%			
62) 4-Bromofluorobenzene	11.079	95	50659	48.642	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 97.280%			
Target Compounds						Qvalue
9) 1,1,2-Trichlorotrifluo...	2.319	101	45632	61.849	ug/l	97
12) 1,1-Dichloroethene	2.307	96	6210	8.614	ug/l	92
16) Acetone	2.386	43	3401	7.542	ug/l #	88
21) trans-1,2-Dichloroethene	3.087	96	1914	2.599	ug/l #	72
24) 1,1-Dichloroethane	3.605	63	10925	7.169	ug/l	97
27) cis-1,2-Dichloroethene	4.483	96	84235	93.874	ug/l	90
29) Tetrahydrofuran	5.007	42	11573	27.042	ug/l	95
44) Trichloroethene	7.123	130	275862	343.590	ug/l	97
64) Tetrachloroethene	9.275	164	2322	3.131	ug/l	91

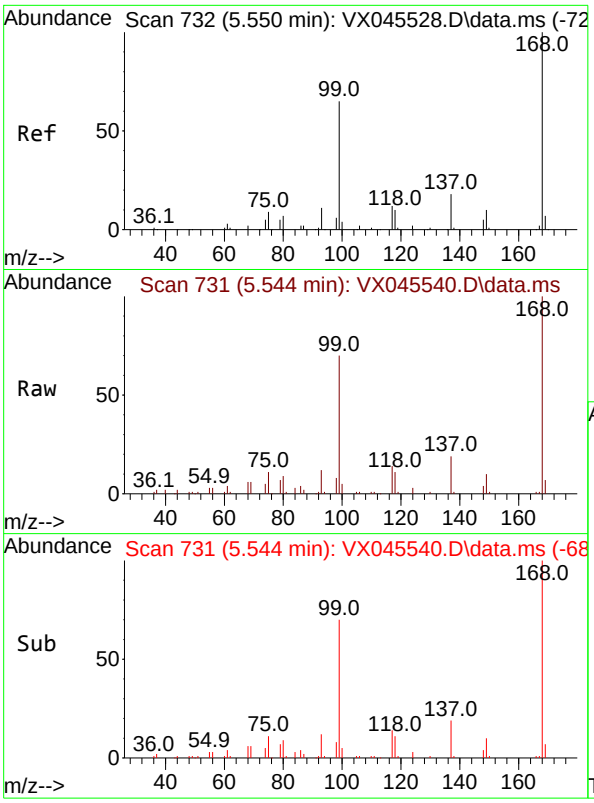
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045540.D
Acq On : 02 Apr 2025 12:30
Operator : JC/MD
Sample : Q1697-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
IW-01-55-040125

Quant Time: Apr 03 01:49:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration



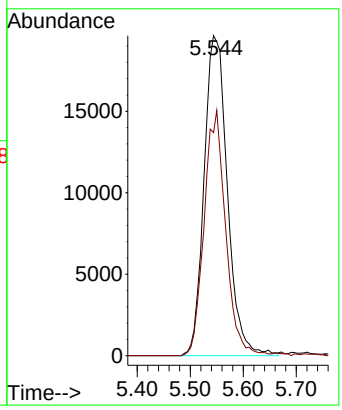


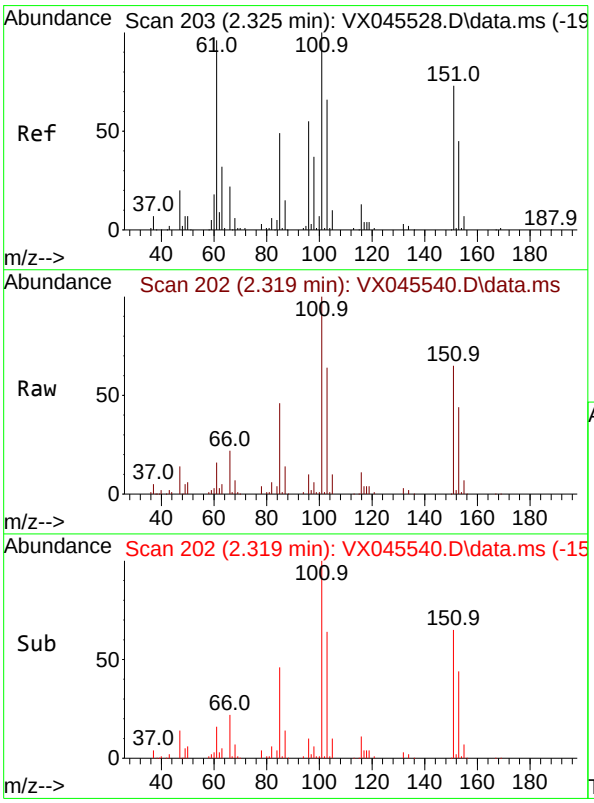
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045540.D
Acq: 02 Apr 2025 12:30

Instrument :
MSVOA_X
ClientSampleId :
IW-01-55-040125

Tgt Ion:168 Resp: 60052

Ion	Ratio	Lower	Upper
168	100		
99	69.7	52.3	78.5

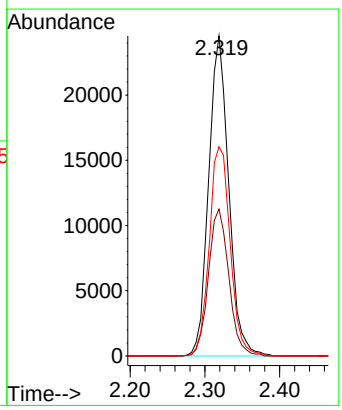


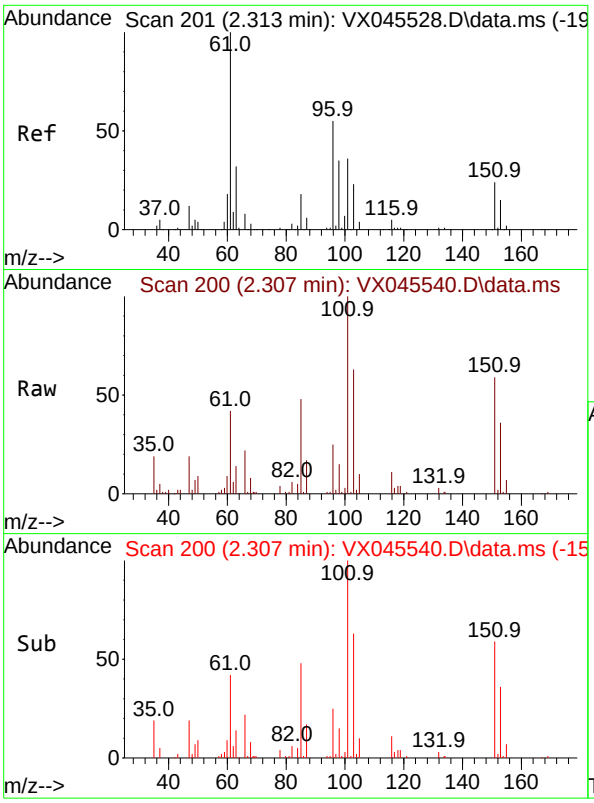


#9
1,1,2-Trichlorotrifluoroethane
Concen: 61.849 ug/l
RT: 2.319 min Scan# 202
Delta R.T. -0.006 min
Lab File: VX045540.D
Acq: 02 Apr 2025 12:30

Tgt Ion:101 Resp: 45632

Ion	Ratio	Lower	Upper
101	100		
85	46.9	38.9	58.3
151	68.5	57.5	86.3



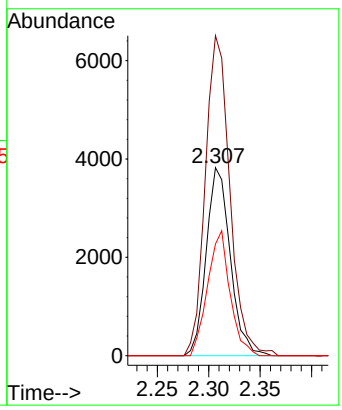


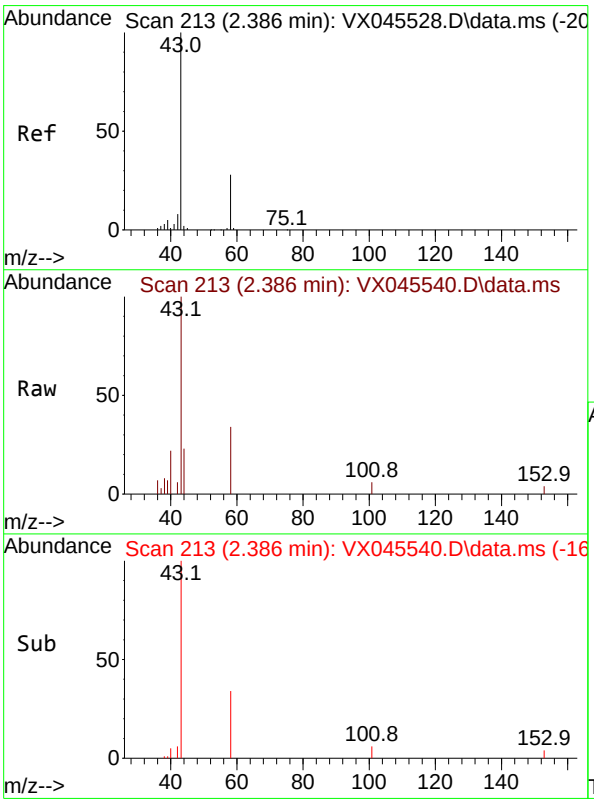
#12
1,1-Dichloroethene
Concen: 8.614 ug/l
RT: 2.307 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX045540.D
Acq: 02 Apr 2025 12:30

Instrument :
MSVOA_X
ClientSampleId :
IW-01-55-040125

Tgt Ion: 96 Resp: 6210

Ion	Ratio	Lower	Upper
96	100		
61	170.2	145.7	218.5
98	59.4	51.6	77.4

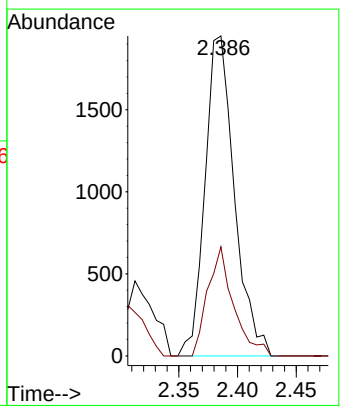


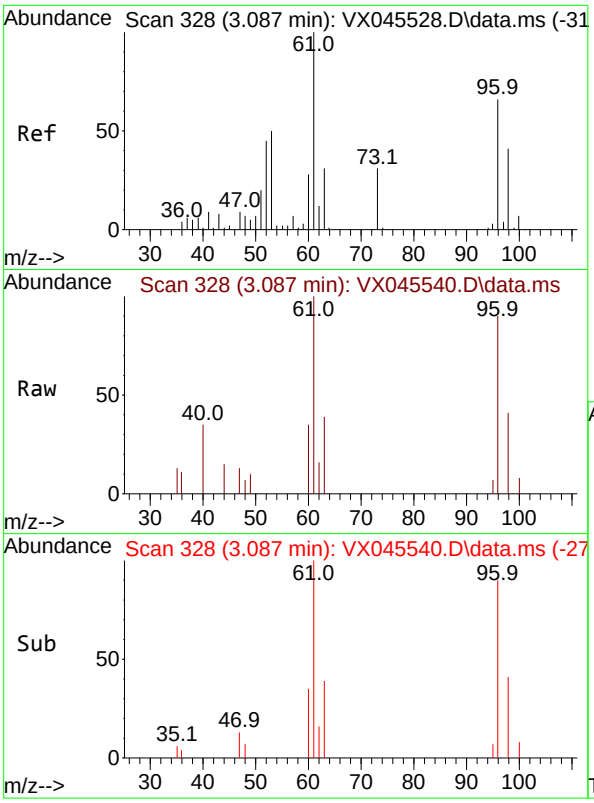


#16
Acetone
Concen: 7.542 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.000 min
Lab File: VX045540.D
Acq: 02 Apr 2025 12:30

Tgt Ion: 43 Resp: 3401

Ion	Ratio	Lower	Upper
43	100		
58	34.1	22.3	33.5#



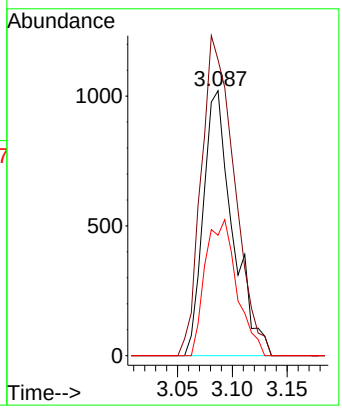


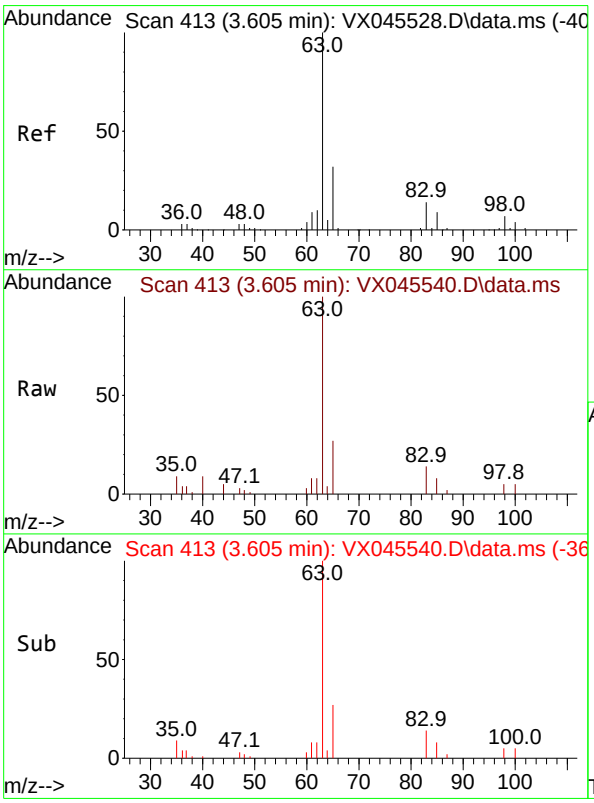
#21
trans-1,2-Dichloroethene
Concen: 2.599 ug/l
RT: 3.087 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX045540.D
Acq: 02 Apr 2025 12:30

Instrument :
MSVOA_X
ClientSampleId :
IW-01-55-040125

Tgt Ion: 96 Resp: 1914

Ion	Ratio	Lower	Upper
96	100		
61	111.7	121.0	181.6#
98	45.4	49.7	74.5#

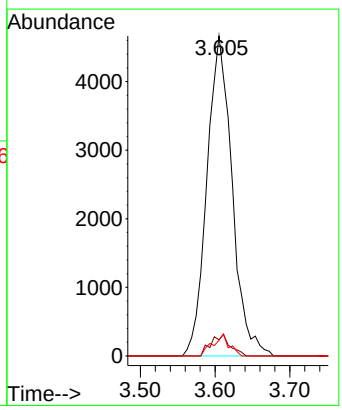


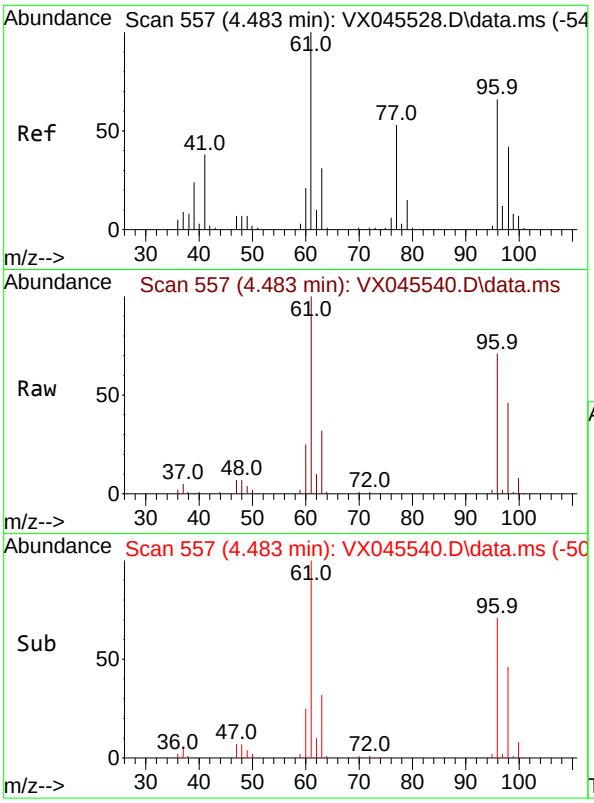


#24
1,1-Dichloroethane
Concen: 7.169 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX045540.D
Acq: 02 Apr 2025 12:30

Tgt Ion: 63 Resp: 10925

Ion	Ratio	Lower	Upper
63	100		
98	5.1	3.4	10.1
100	4.9	2.2	6.6



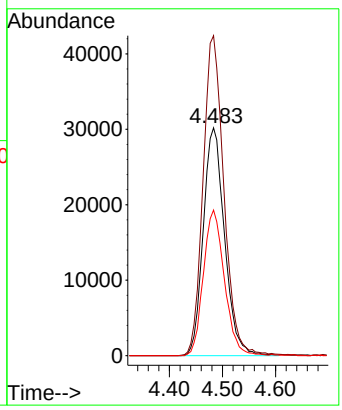


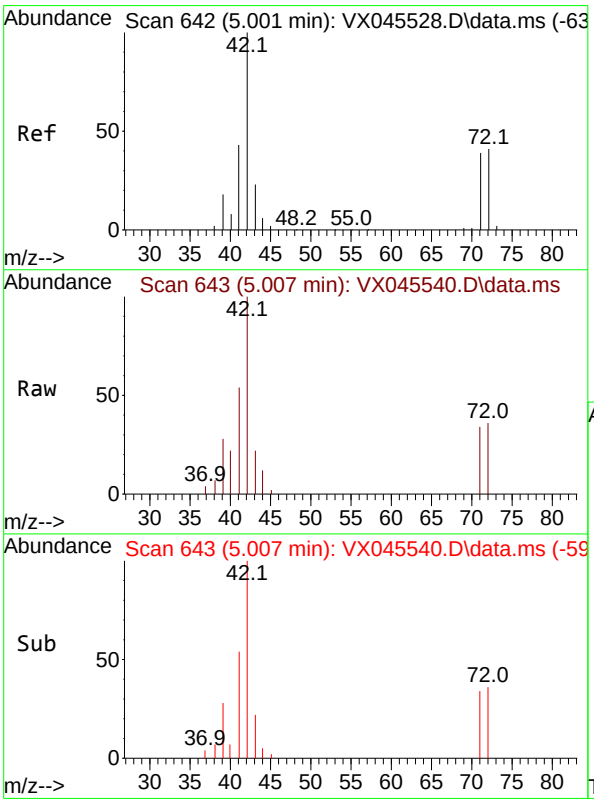
#27
cis-1,2-Dichloroethene
Concen: 93.874 ug/l
RT: 4.483 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX045540.D
Acq: 02 Apr 2025 12:30

Instrument :
MSVOA_X
ClientSampleId :
IW-01-55-040125

Tgt Ion: 96 Resp: 84235

Ion	Ratio	Lower	Upper
96	100		
61	137.8	0.0	313.2
98	63.1	0.0	126.4

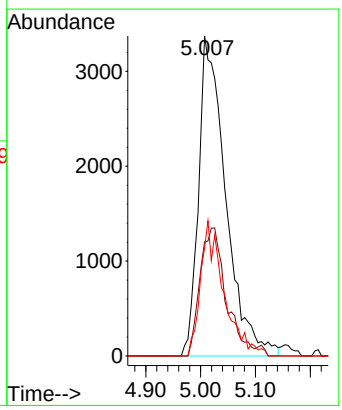


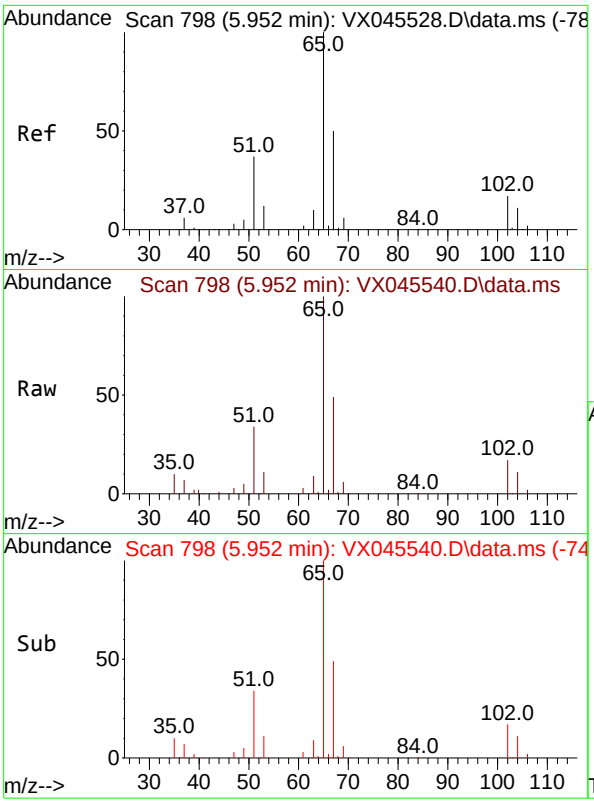


#29
Tetrahydrofuran
Concen: 27.042 ug/l
RT: 5.007 min Scan# 643
Delta R.T. 0.006 min
Lab File: VX045540.D
Acq: 02 Apr 2025 12:30

Tgt Ion: 42 Resp: 11573

Ion	Ratio	Lower	Upper
42	100		
72	38.4	33.4	50.0
71	36.3	31.4	47.0



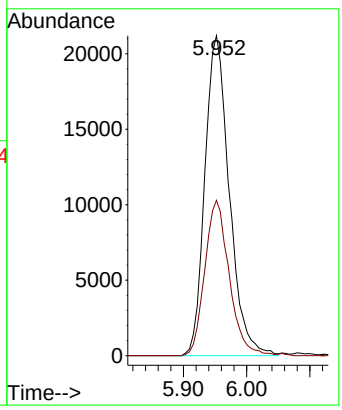


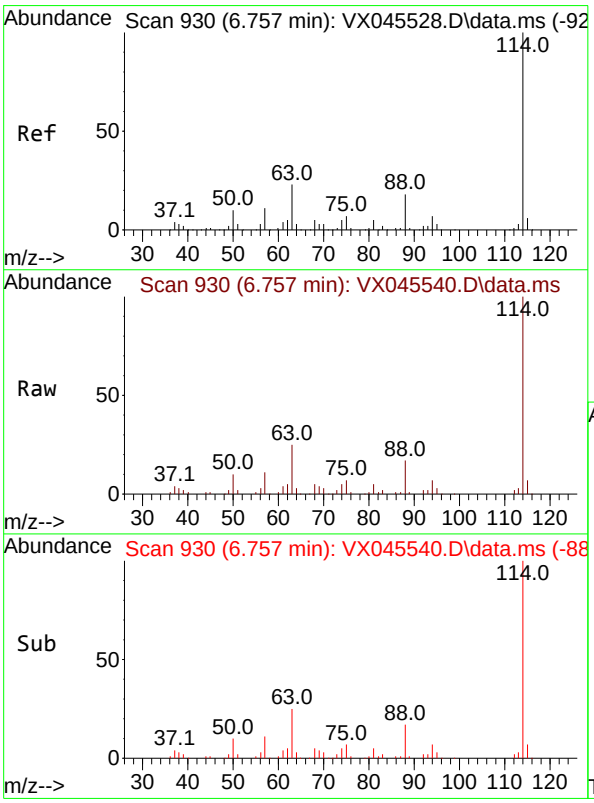
#33
1,2-Dichloroethane-d4
Concen: 51.741 ug/l
RT: 5.952 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX045540.D
Acq: 02 Apr 2025 12:30

Instrument :
MSVOA_X
ClientSampleId :
IW-01-55-040125

Tgt Ion: 65 Resp: 56822

Ion	Ratio	Lower	Upper
65	100		
67	48.5	0.0	99.0

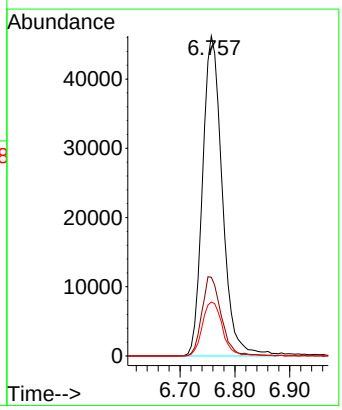


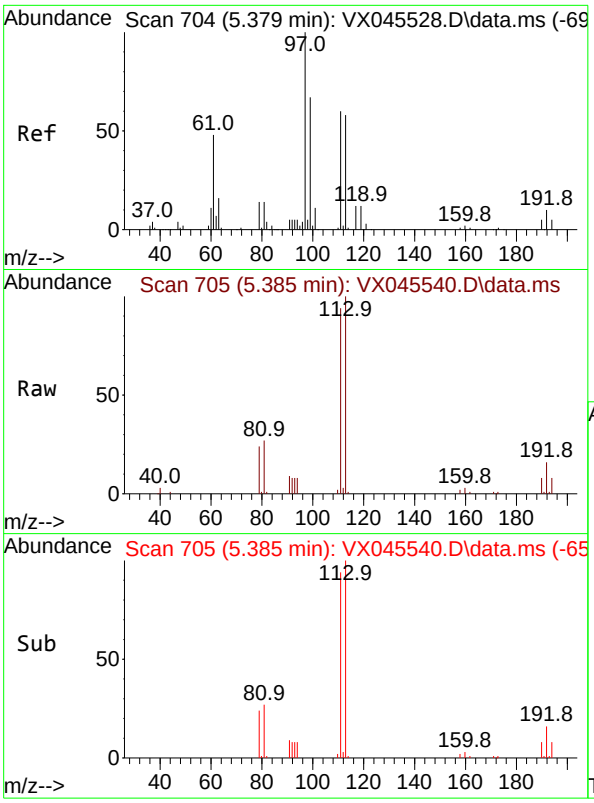


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX045540.D
Acq: 02 Apr 2025 12:30

Tgt Ion:114 Resp: 115456

Ion	Ratio	Lower	Upper
114	100		
63	24.6	0.0	46.8
88	16.8	0.0	35.4



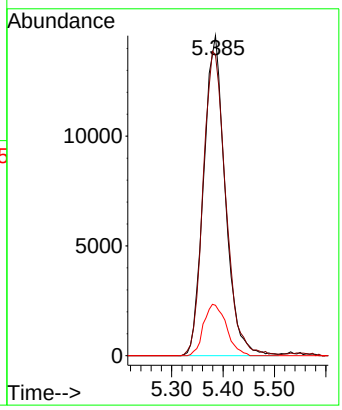


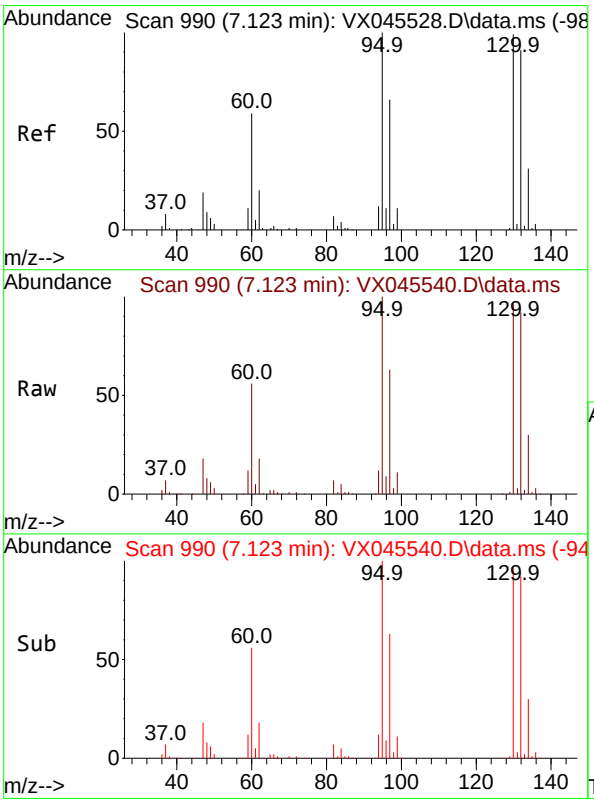
#35
Dibromofluoromethane
Concen: 51.794 ug/l
RT: 5.385 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX045540.D
Acq: 02 Apr 2025 12:30

Instrument :
MSVOA_X
ClientSampleId :
IW-01-55-040125

Tgt Ion:113 Resp: 42428

Ion	Ratio	Lower	Upper
113	100		
111	99.7	81.8	122.6
192	17.0	13.8	20.6

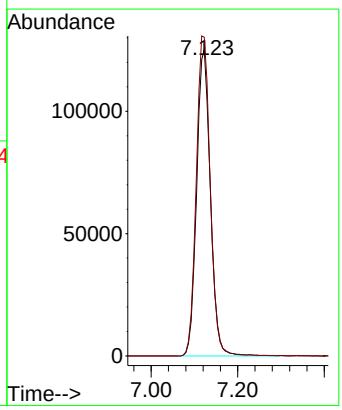


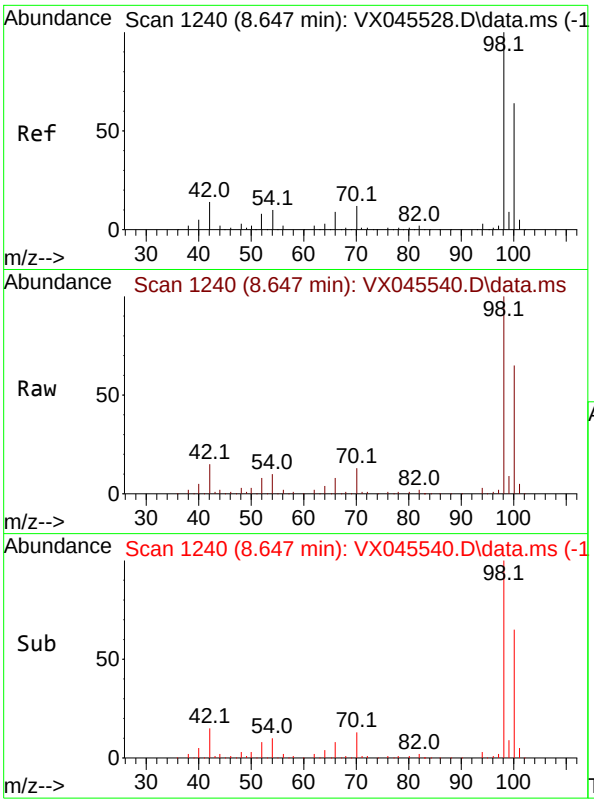


#44
Trichloroethene
Concen: 343.590 ug/l
RT: 7.123 min Scan# 990
Delta R.T. 0.000 min
Lab File: VX045540.D
Acq: 02 Apr 2025 12:30

Tgt Ion:130 Resp: 275862

Ion	Ratio	Lower	Upper
130	100		
95	104.0	0.0	202.0



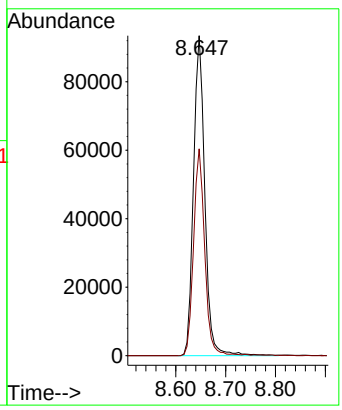


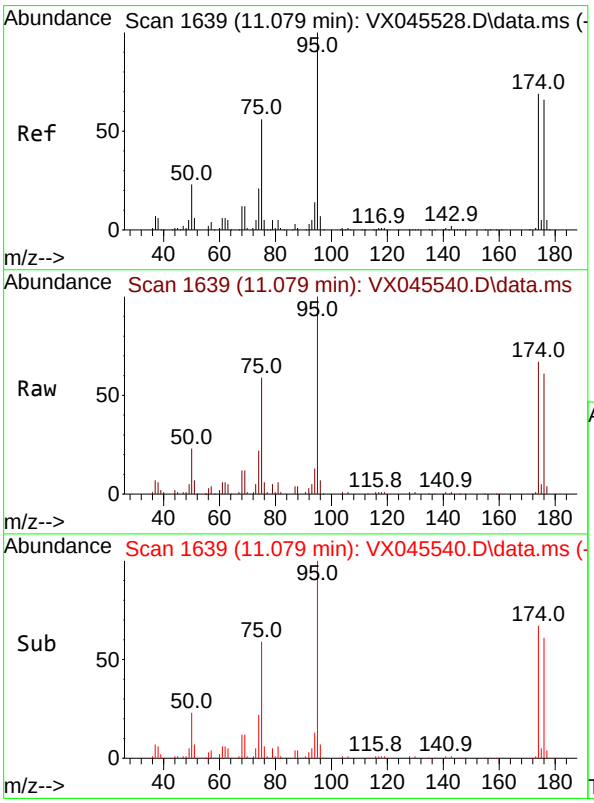
#50
Toluene-d8
Concen: 51.509 ug/l
RT: 8.647 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045540.D
Acq: 02 Apr 2025 12:30

Instrument :
MSVOA_X
ClientSampleId :
IW-01-55-040125

Tgt Ion: 98 Resp: 147275

Ion	Ratio	Lower	Upper
98	100		
100	63.4	52.2	78.4

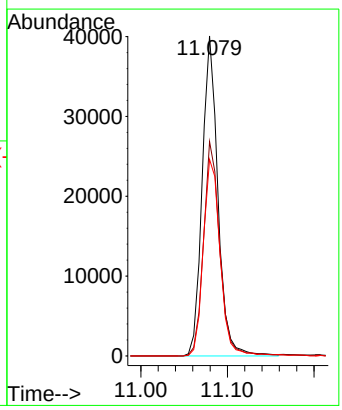


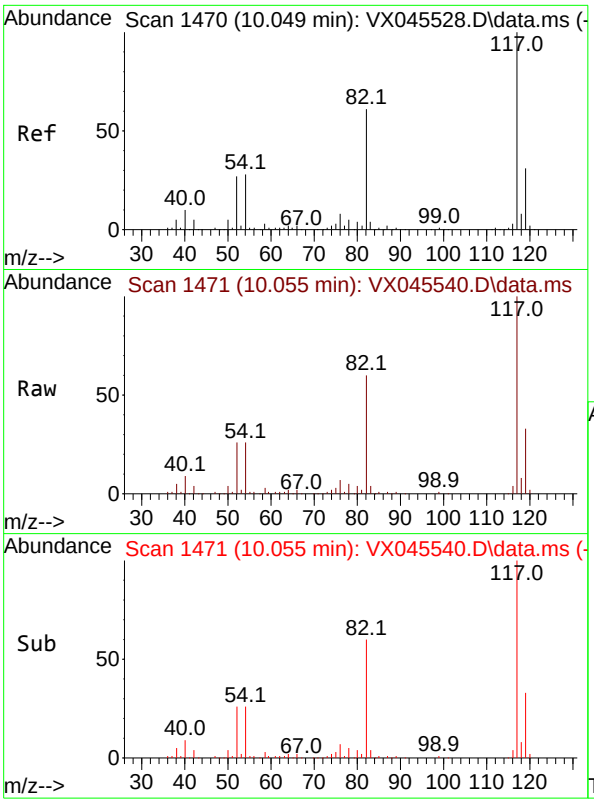


#62
4-Bromofluorobenzene
Concen: 48.642 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX045540.D
Acq: 02 Apr 2025 12:30

Tgt Ion: 95 Resp: 50659

Ion	Ratio	Lower	Upper
95	100		
174	69.6	0.0	135.8
176	65.9	0.0	131.4



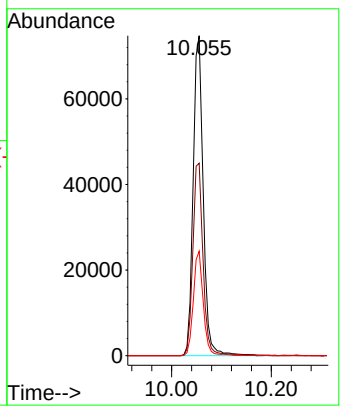


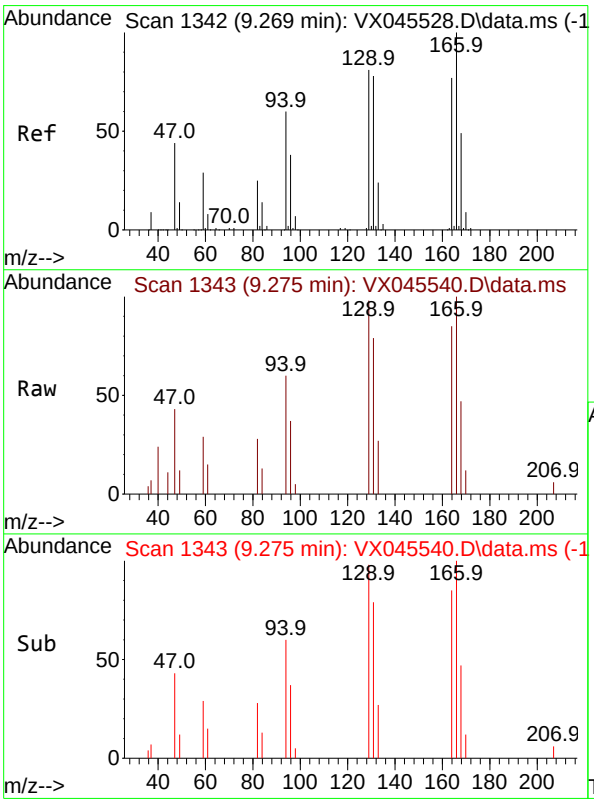
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX045540.D
Acq: 02 Apr 2025 12:30

Instrument :
MSVOA_X
ClientSampleId :
IW-01-55-040125

Tgt Ion:117 Resp: 105045

Ion	Ratio	Lower	Upper
117	100		
82	60.1	49.2	73.8
119	32.7	25.1	37.7

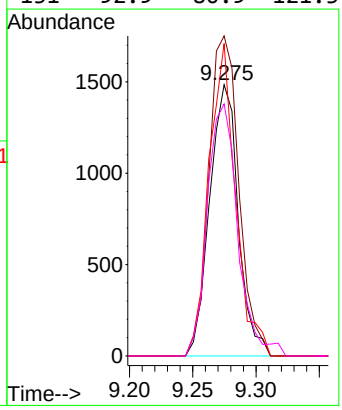


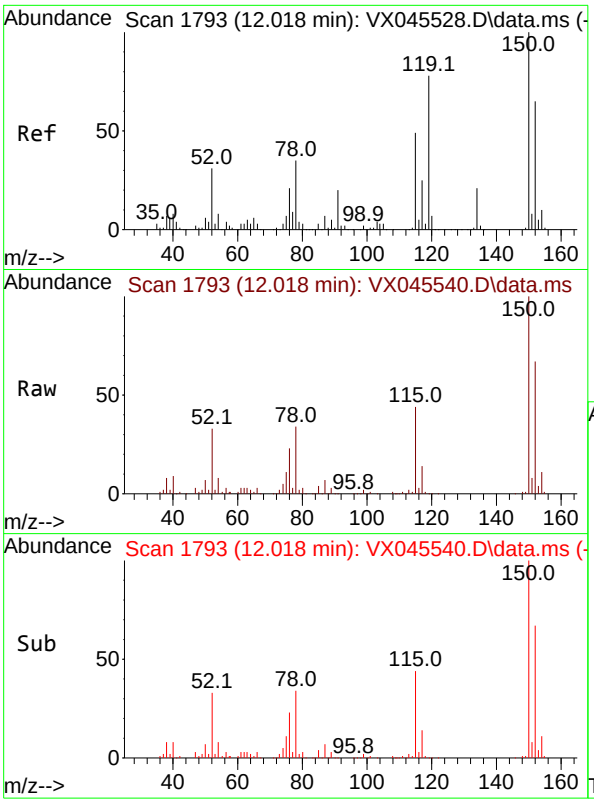


#64
Tetrachloroethene
Concen: 3.131 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. 0.006 min
Lab File: VX045540.D
Acq: 02 Apr 2025 12:30

Tgt Ion:164 Resp: 2322

Ion	Ratio	Lower	Upper
164	100		
166	118.0	103.8	155.8
129	115.2	84.3	126.5
131	92.9	80.9	121.3



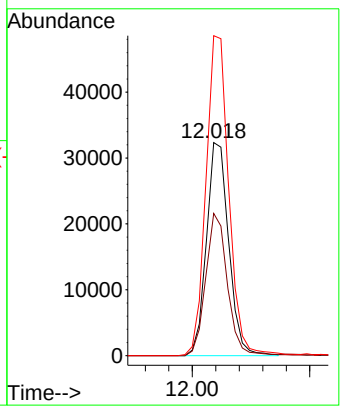


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045540.D
Acq: 02 Apr 2025 12:30

Instrument :
MSVOA_X
ClientSampleId :
IW-01-55-040125

Tgt Ion:152 Resp: 42637

Ion	Ratio	Lower	Upper
152	100		
115	64.9	46.9	140.7
150	153.6	0.0	349.4



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:	04/01/25
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	04/01/25
Client Sample ID:	IW-01-55-040125DL	SDG No.:	Q1697
Lab Sample ID:	Q1697-02DL	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
VX045543.D	10		04/02/25 13:44	VX040225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	2.60	UD	2.60	10.0	ug/L
75-35-4	1,1-Dichloroethene	8.50	JD	2.30	10.0	ug/L
75-34-3	1,1-Dichloroethane	2.30	UD	2.30	10.0	ug/L
156-59-2	cis-1,2-Dichloroethene	92.0	D	1.90	10.0	ug/L
71-55-6	1,1,1-Trichloroethane	2.00	UD	2.00	10.0	ug/L
71-43-2	Benzene	1.50	UD	1.50	10.0	ug/L
107-06-2	1,2-Dichloroethane	2.20	UD	2.20	10.0	ug/L
79-01-6	Trichloroethene	340	D	0.93	10.0	ug/L
79-00-5	1,1,2-Trichloroethane	2.10	UD	2.10	10.0	ug/L
127-18-4	Tetrachloroethene	2.30	UD	2.30	10.0	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	54.3		70 (74) - 130 (125)	109%	SPK: 50
1868-53-7	Dibromofluoromethane	52.7		70 (75) - 130 (124)	105%	SPK: 50
2037-26-5	Toluene-d8	50.8		70 (86) - 130 (113)	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.3		70 (77) - 130 (121)	97%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	57000	5.55			
540-36-3	1,4-Difluorobenzene	111000	6.757			
3114-55-4	Chlorobenzene-d5	101000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	38900	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

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045543.D
Acq On : 02 Apr 2025 13:44
Operator : JC/MD
Sample : Q1697-02DL 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
IW-01-55-040125DL

Quant Time: Apr 08 05:20:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

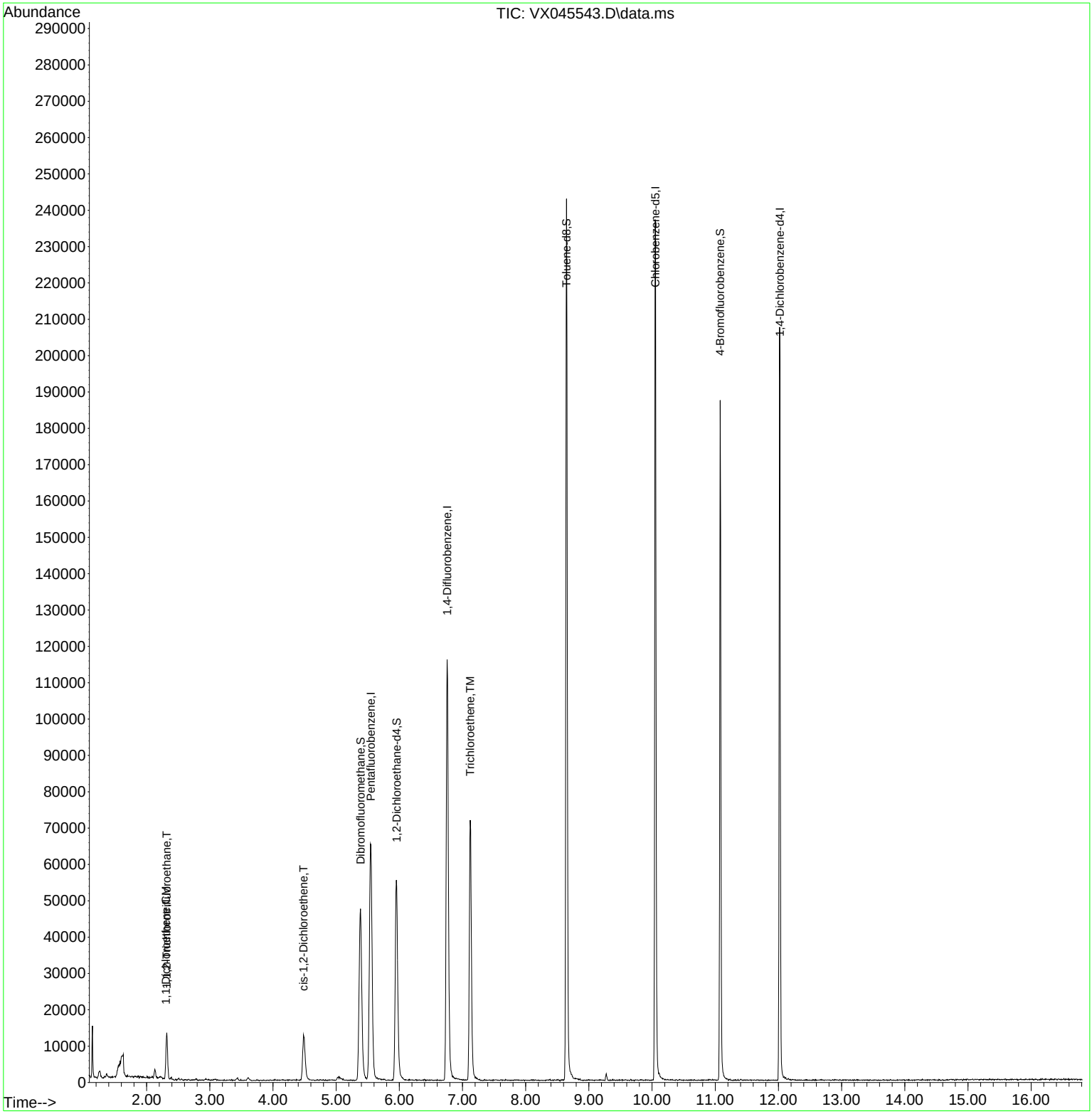
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	56974	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	110887	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	101352	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	38867	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	56619	54.342	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 108.680%			
35) Dibromofluoromethane	5.385	113	41436	52.668	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.340%			
50) Toluene-d8	8.647	98	139408	50.767	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.540%			
62) 4-Bromofluorobenzene	11.079	95	48330	48.318	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 96.640%			
Target Compounds						Qvalue
9) 1,1,2-Trichlorotrifluo...	2.319	101	4473	6.390	ug/l	98
12) 1,1-Dichloroethene	2.306	96	580	0.848	ug/l	83
27) cis-1,2-Dichloroethene	4.483	96	7830	9.197	ug/l	87
44) Trichloroethene	7.123	130	26490	34.353	ug/l	96

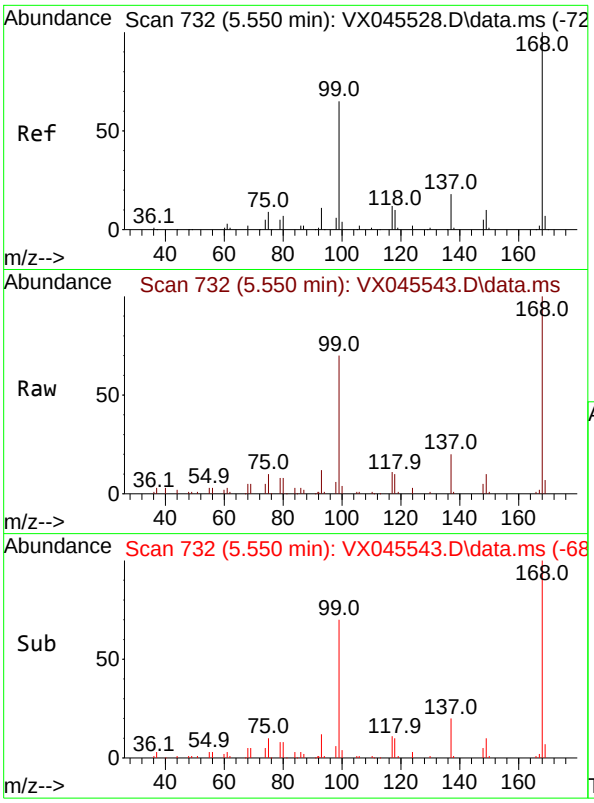
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045543.D
Acq On : 02 Apr 2025 13:44
Operator : JC/MD
Sample : Q1697-02DL 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
IW-01-55-040125DL

Quant Time: Apr 08 05:20:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration



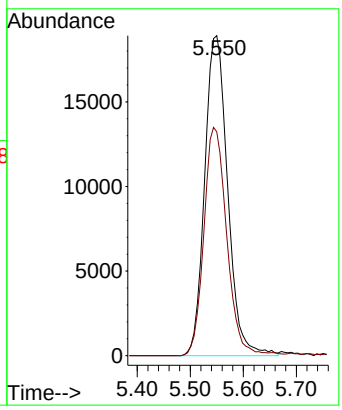


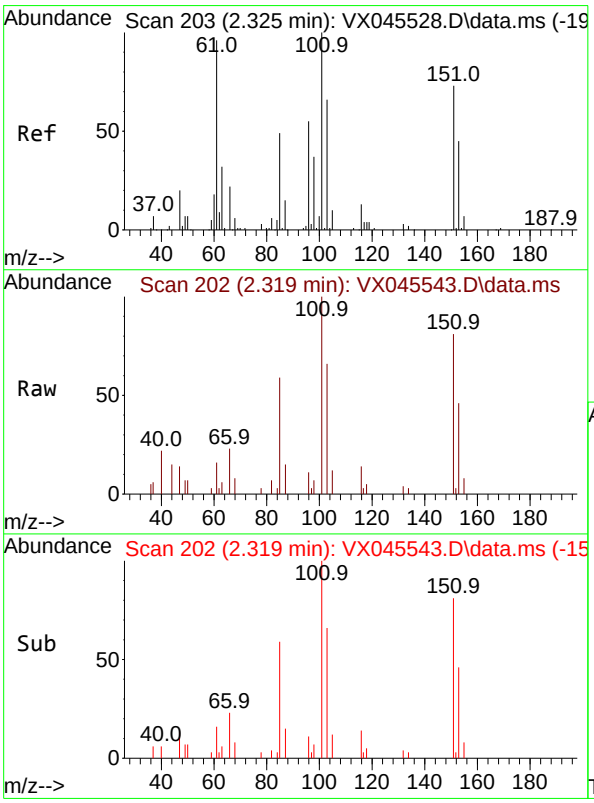
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045543.D
Acq: 02 Apr 2025 13:44

Instrument :
MSVOA_X
ClientSampleId :
IW-01-55-040125DL

Tgt Ion:168 Resp: 56974

Ion	Ratio	Lower	Upper
168	100		
99	70.0	52.3	78.5

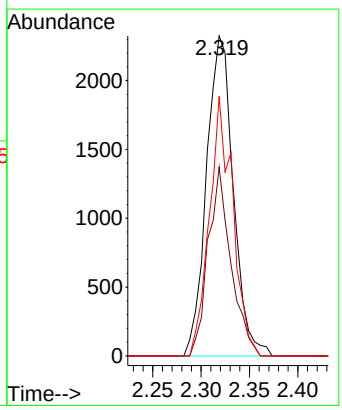


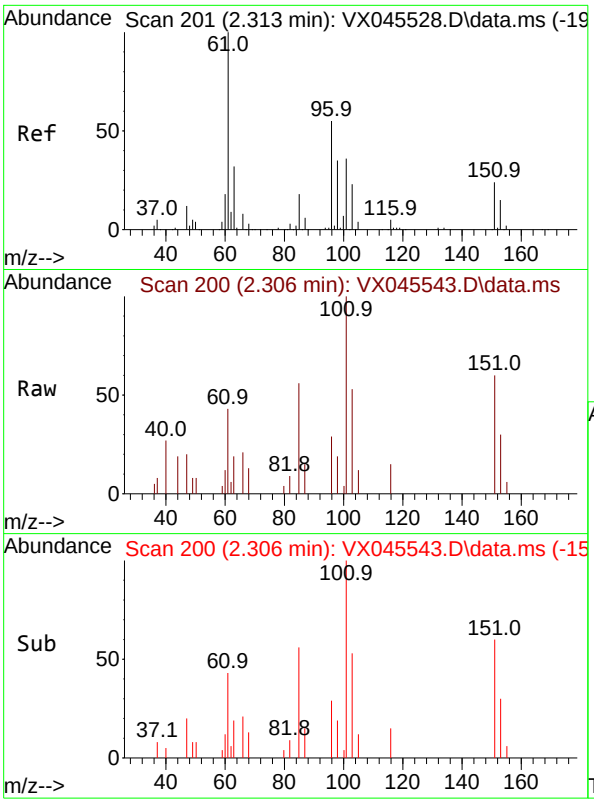


#9
1,1,2-Trichlorotrifluoroethane
Concen: 6.390 ug/l
RT: 2.319 min Scan# 202
Delta R.T. -0.006 min
Lab File: VX045543.D
Acq: 02 Apr 2025 13:44

Tgt Ion:101 Resp: 4473

Ion	Ratio	Lower	Upper
101	100		
85	50.3	38.9	58.3
151	71.0	57.5	86.3



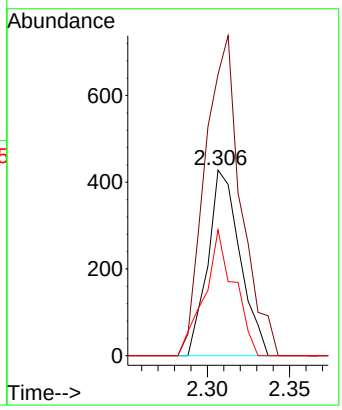


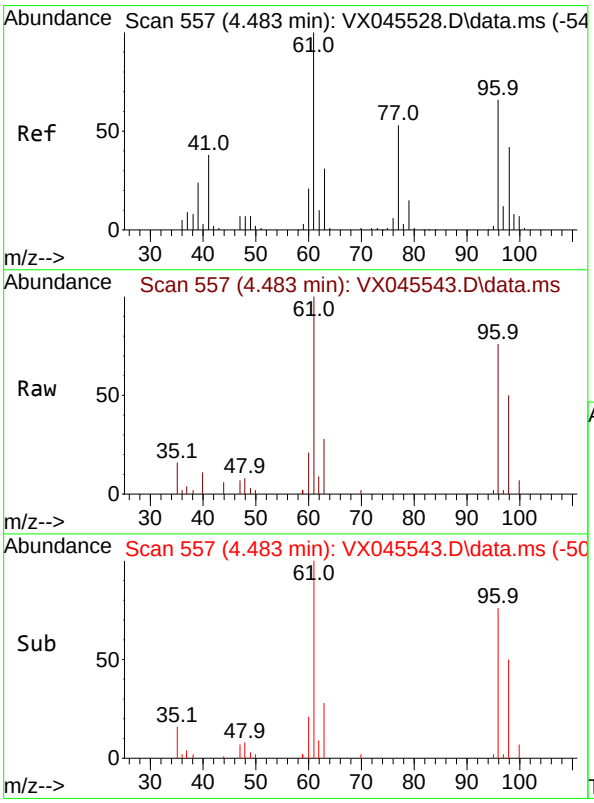
#12
1,1-Dichloroethene
Concen: 0.848 ug/l
RT: 2.306 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX045543.D
Acq: 02 Apr 2025 13:44

Instrument :
MSVOA_X
ClientSampleId :
IW-01-55-040125DL

Tgt Ion: 96 Resp: 580

Ion	Ratio	Lower	Upper
96	100		
61	151.6	145.7	218.5
98	67.8	51.6	77.4

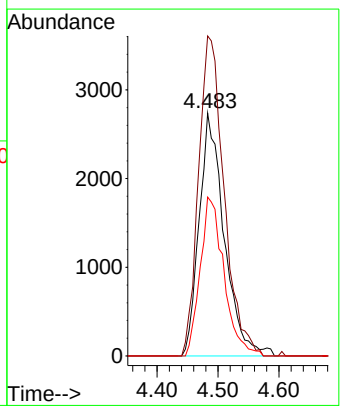


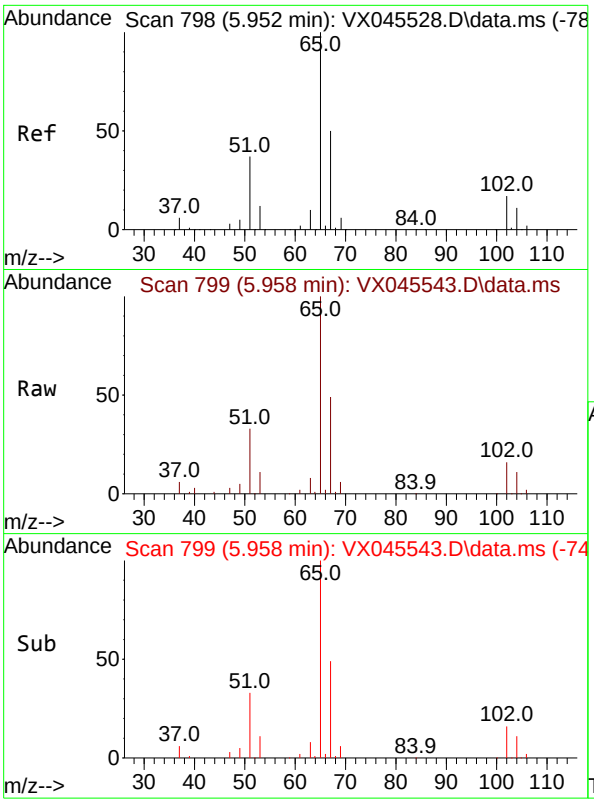


#27
cis-1,2-Dichloroethene
Concen: 9.197 ug/l
RT: 4.483 min Scan# 557
Delta R.T. 0.000 min
Lab File: VX045543.D
Acq: 02 Apr 2025 13:44

Tgt Ion: 96 Resp: 7830

Ion	Ratio	Lower	Upper
96	100		
61	134.1	0.0	313.2
98	62.0	0.0	126.4



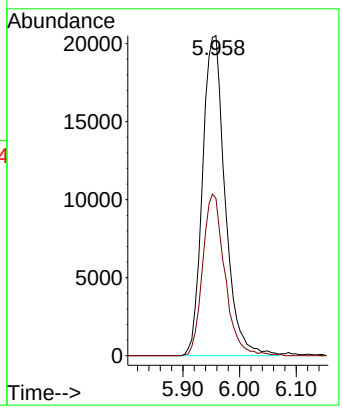


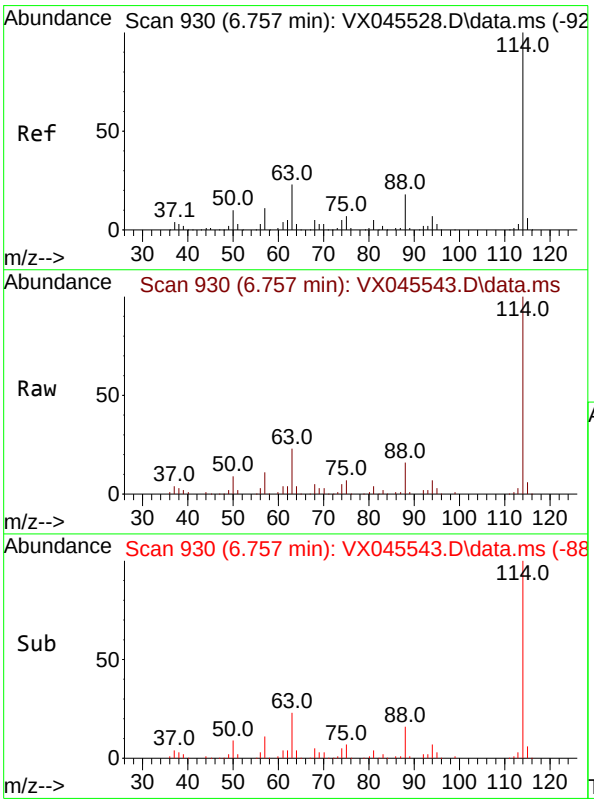
#33
1,2-Dichloroethane-d4
Concen: 54.342 ug/l
RT: 5.958 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX045543.D
Acq: 02 Apr 2025 13:44

Instrument :
MSVOA_X
ClientSampleId :
IW-01-55-040125DL

Tgt Ion: 65 Resp: 56619

Ion	Ratio	Lower	Upper
65	100		
67	49.8	0.0	99.0

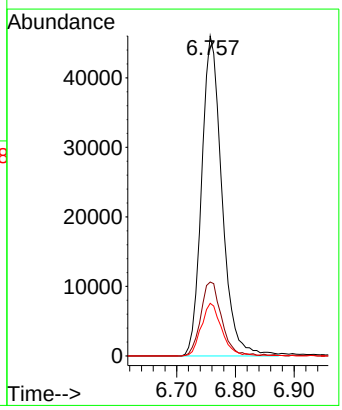


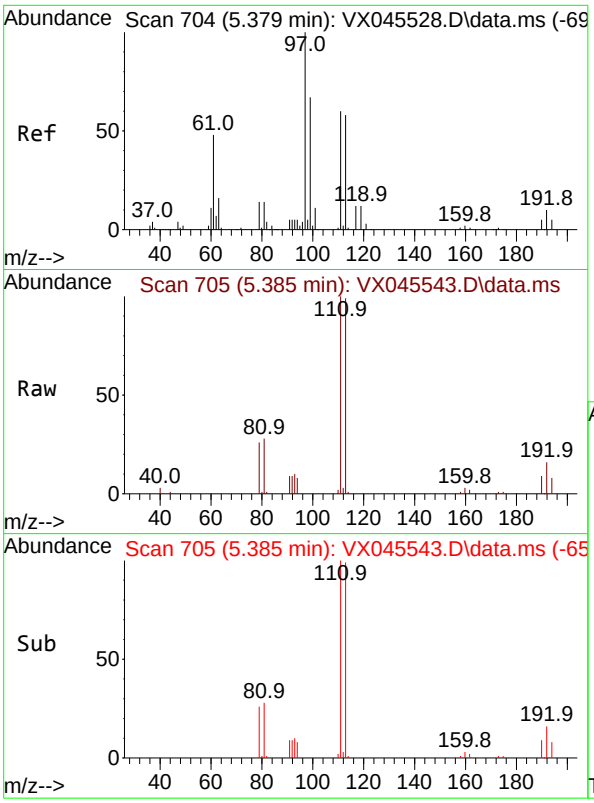


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX045543.D
Acq: 02 Apr 2025 13:44

Tgt Ion:114 Resp: 110887

Ion	Ratio	Lower	Upper
114	100		
63	23.1	0.0	46.8
88	16.5	0.0	35.4



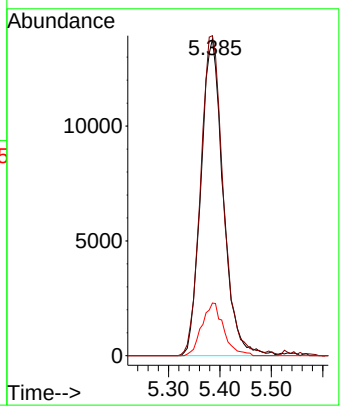


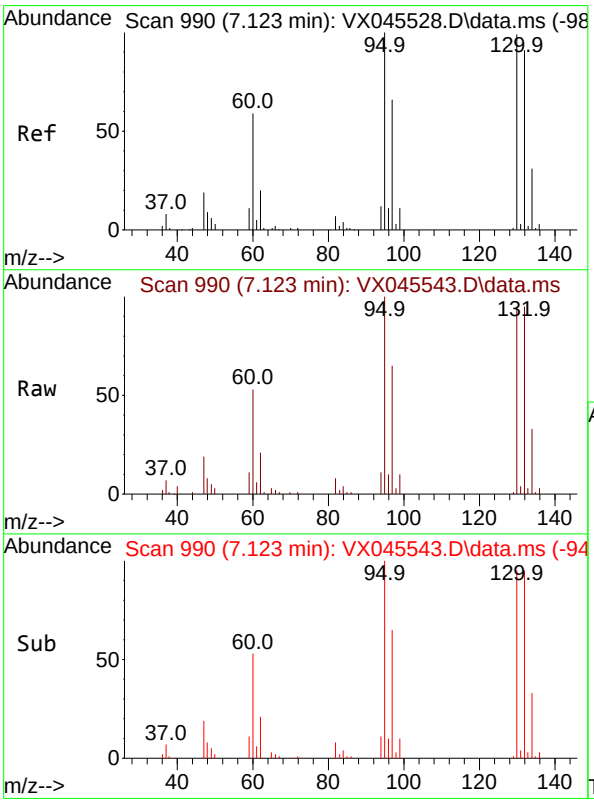
#35
Dibromofluoromethane
Concen: 52.668 ug/l
RT: 5.385 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX045543.D
Acq: 02 Apr 2025 13:44

Instrument :
MSVOA_X
ClientSampleId :
IW-01-55-040125DL

Tgt Ion:113 Resp: 41436

Ion	Ratio	Lower	Upper
113	100		
111	103.0	81.8	122.6
192	16.3	13.8	20.6

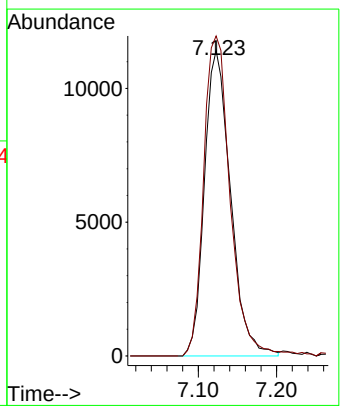


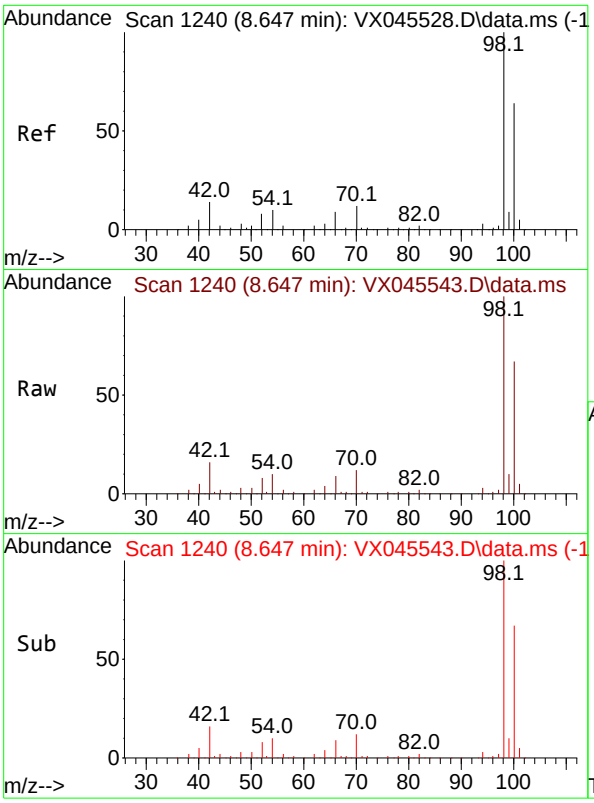


#44
Trichloroethene
Concen: 34.353 ug/l
RT: 7.123 min Scan# 990
Delta R.T. 0.000 min
Lab File: VX045543.D
Acq: 02 Apr 2025 13:44

Tgt Ion:130 Resp: 26490

Ion	Ratio	Lower	Upper
130	100		
95	104.8	0.0	202.0



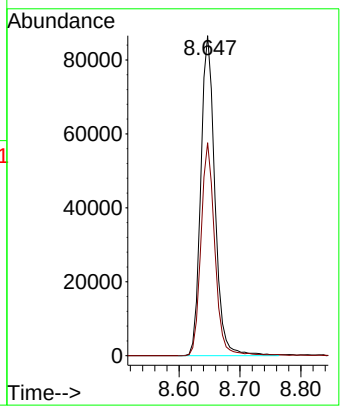


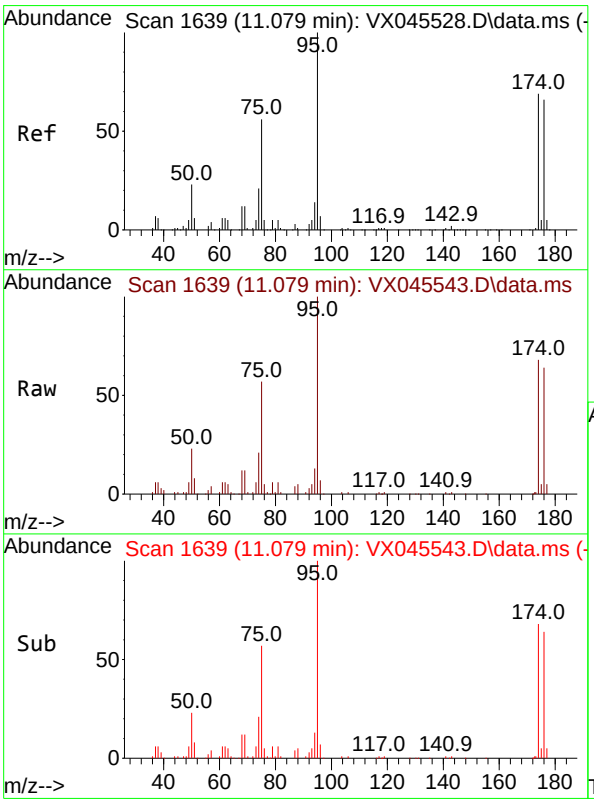
#50
Toluene-d8
Concen: 50.767 ug/l
RT: 8.647 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045543.D
Acq: 02 Apr 2025 13:44

Instrument :
MSVOA_X
ClientSampleId :
IW-01-55-040125DL

Tgt Ion: 98 Resp: 139408

Ion	Ratio	Lower	Upper
98	100		
100	65.3	52.2	78.4

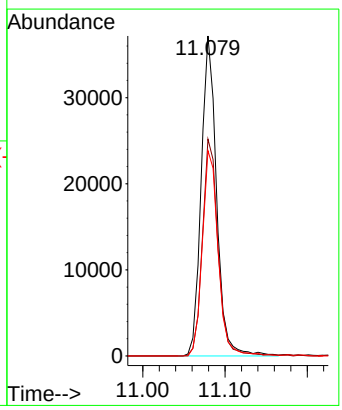


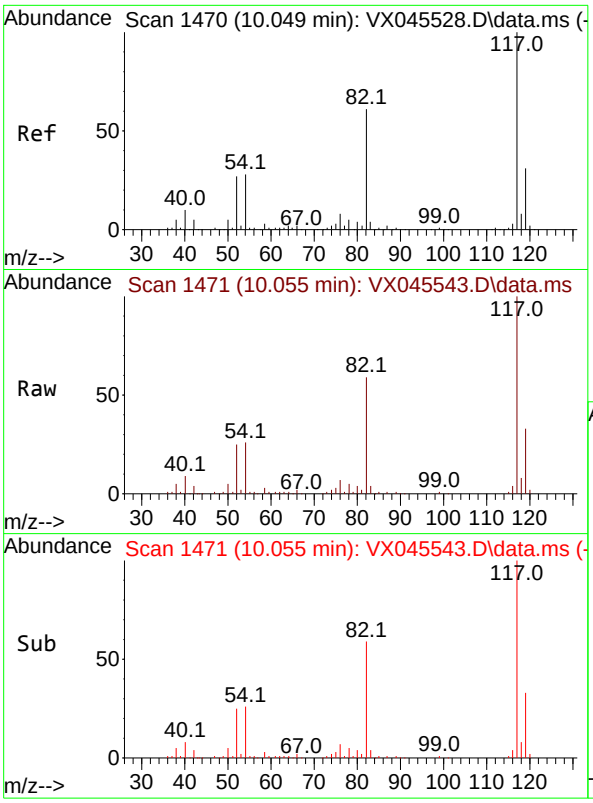


#62
4-Bromofluorobenzene
Concen: 48.318 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX045543.D
Acq: 02 Apr 2025 13:44

Tgt Ion: 95 Resp: 48330

Ion	Ratio	Lower	Upper
95	100		
174	68.8	0.0	135.8
176	66.1	0.0	131.4



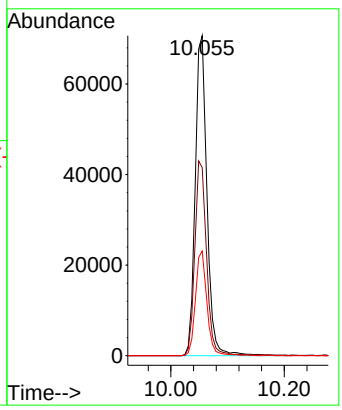


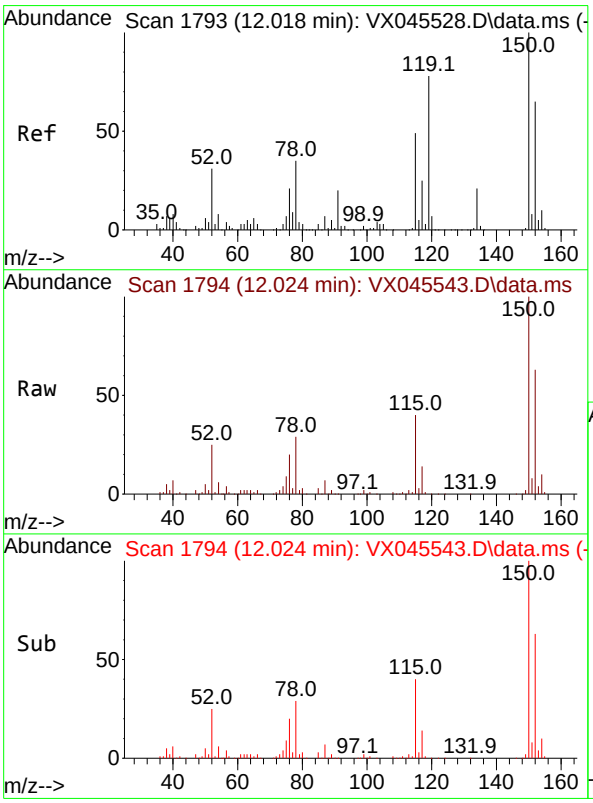
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX045543.D
Acq: 02 Apr 2025 13:44

Instrument :
MSVOA_X
ClientSampleId :
IW-01-55-040125DL

Tgt Ion:117 Resp: 101352

Ion	Ratio	Lower	Upper
117	100		
82	58.8	49.2	73.8
119	32.7	25.1	37.7

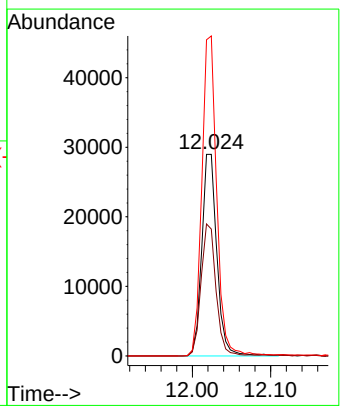




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.006 min
Lab File: VX045543.D
Acq: 02 Apr 2025 13:44

Tgt Ion:152 Resp: 38867

Ion	Ratio	Lower	Upper
152	100		
115	65.3	46.9	140.7
150	156.9	0.0	349.4



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:	04/01/25
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	04/01/25
Client Sample ID:	IW-02-55-040125	SDG No.:	Q1697
Lab Sample ID:	Q1697-03	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
VX045549.D	10		04/02/25 16:04	VX040225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	2.60	U	2.60	10.0	ug/L
75-35-4	1,1-Dichloroethene	8.50	J	2.30	10.0	ug/L
75-34-3	1,1-Dichloroethane	2.30	U	2.30	10.0	ug/L
156-59-2	cis-1,2-Dichloroethene	360		1.90	10.0	ug/L
71-55-6	1,1,1-Trichloroethane	2.00	U	2.00	10.0	ug/L
71-43-2	Benzene	1.50	U	1.50	10.0	ug/L
107-06-2	1,2-Dichloroethane	2.20	U	2.20	10.0	ug/L
79-01-6	Trichloroethene	670		0.93	10.0	ug/L
79-00-5	1,1,2-Trichloroethane	2.10	U	2.10	10.0	ug/L
127-18-4	Tetrachloroethene	2.30	U	2.30	10.0	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.0		70 (74) - 130 (125)	106%	SPK: 50
1868-53-7	Dibromofluoromethane	51.4		70 (75) - 130 (124)	103%	SPK: 50
2037-26-5	Toluene-d8	49.6		70 (86) - 130 (113)	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.9		70 (77) - 130 (121)	96%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	61600	5.55			
540-36-3	1,4-Difluorobenzene	121000	6.757			
3114-55-4	Chlorobenzene-d5	109000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	45500	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

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045549.D
Acq On : 02 Apr 2025 16:04
Operator : JC/MD
Sample : Q1697-03 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
IW-02-55-040125

Quant Time: Apr 03 01:54:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

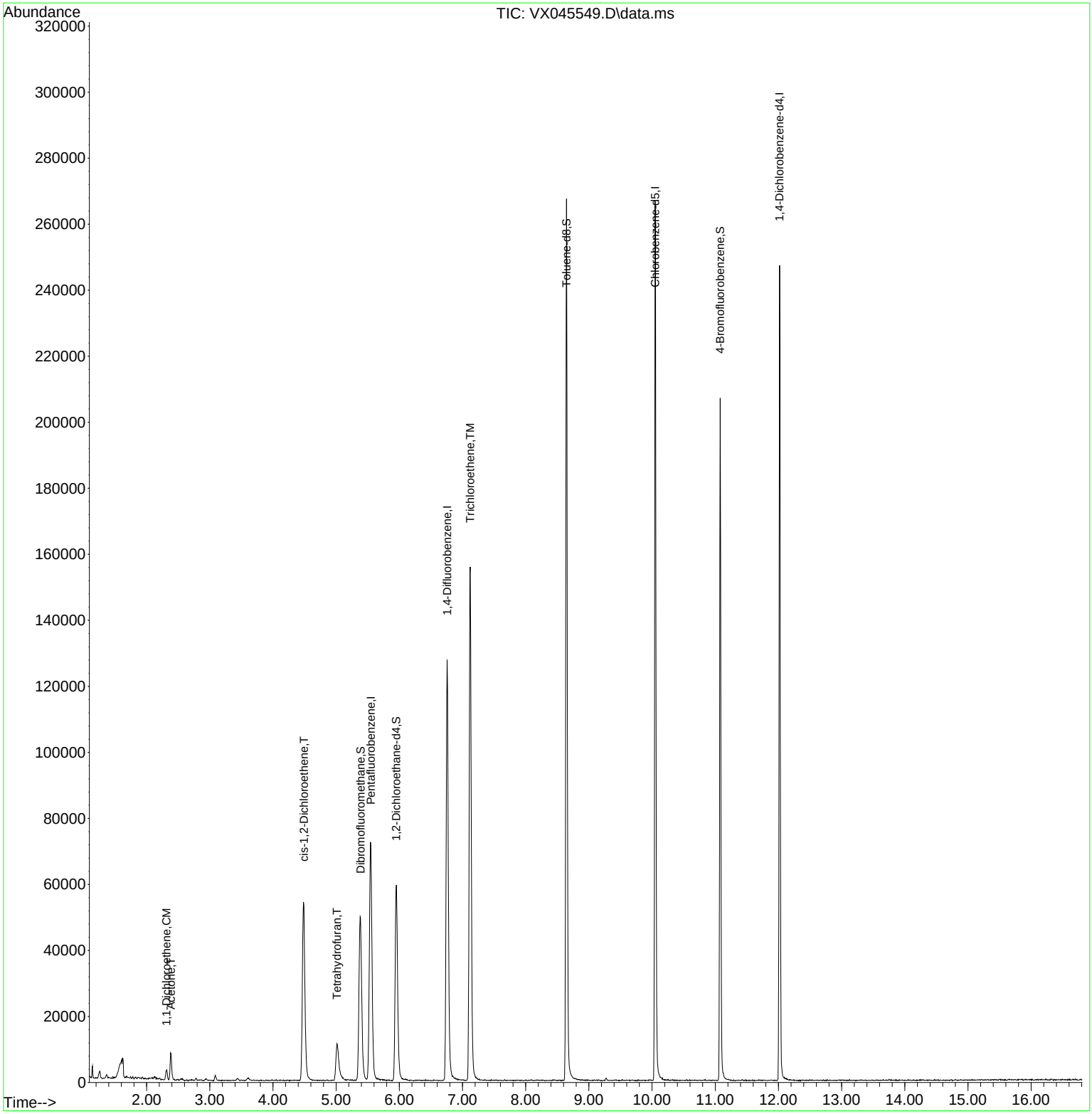
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	61634	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	121248	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	109435	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	45454	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	59791	53.047	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 106.100%			
35) Dibromofluoromethane	5.385	113	44244	51.431	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.860%			
50) Toluene-d8	8.647	98	148953	49.608	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.220%			
62) 4-Bromofluorobenzene	11.079	95	52356	47.870	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 95.740%			
Target Compounds						Qvalue
12) 1,1-Dichloroethene	2.312	96	629	0.850	ug/l	94
16) Acetone	2.386	43	9285	20.061	ug/l	94
27) cis-1,2-Dichloroethene	4.489	96	33302	36.160	ug/l	89
29) Tetrahydrofuran	5.013	42	11104	25.280	ug/l	96
44) Trichloroethene	7.123	130	56383	66.871	ug/l	93

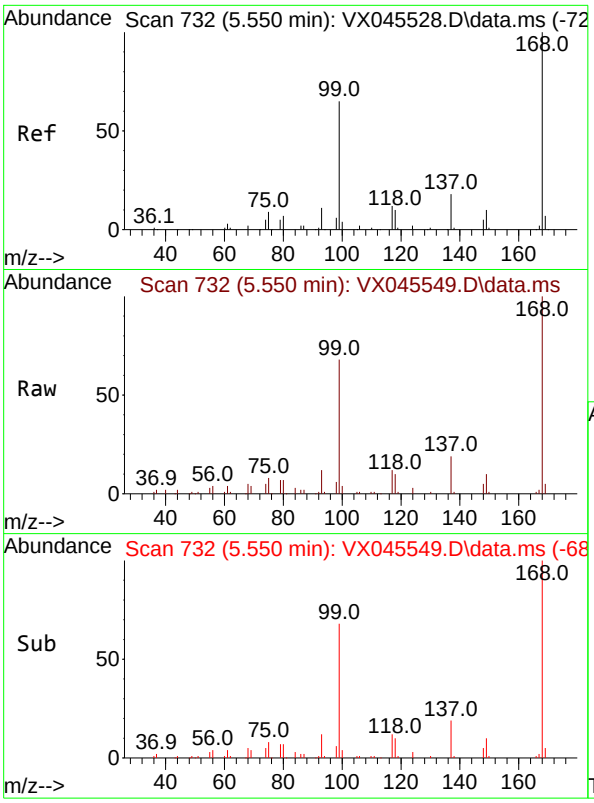
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045549.D
Acq On : 02 Apr 2025 16:04
Operator : JC/MD
Sample : Q1697-03 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
IW-02-55-040125

Quant Time: Apr 03 01:54:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration



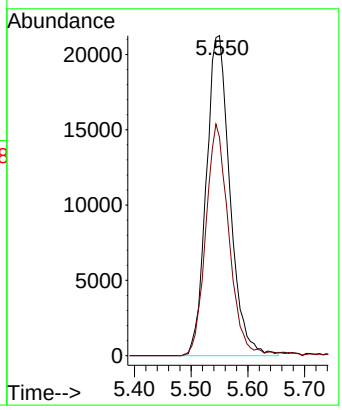


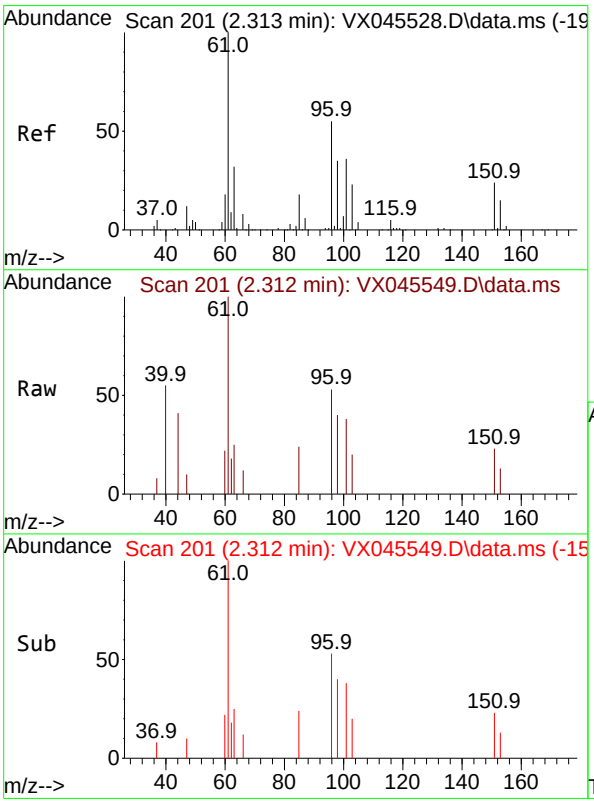
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045549.D
Acq: 02 Apr 2025 16:04

Instrument :
MSVOA_X
ClientSampleId :
IW-02-55-040125

Tgt Ion:168 Resp: 61634

Ion	Ratio	Lower	Upper
168	100		
99	68.2	52.3	78.5

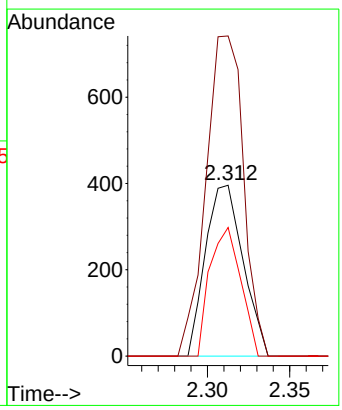


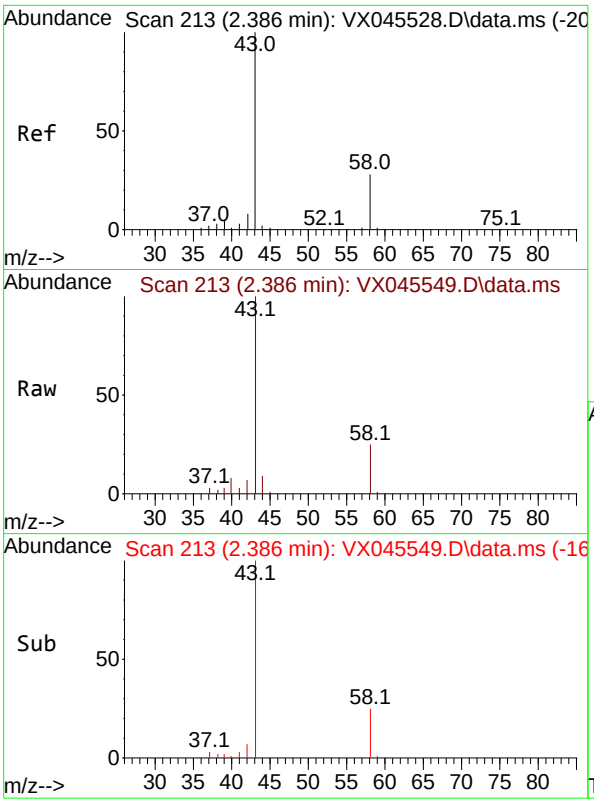


#12
1,1-Dichloroethene
Concen: 0.850 ug/l
RT: 2.312 min Scan# 201
Delta R.T. -0.000 min
Lab File: VX045549.D
Acq: 02 Apr 2025 16:04

Tgt Ion: 96 Resp: 629

Ion	Ratio	Lower	Upper
96	100		
61	187.4	145.7	218.5
98	75.3	51.6	77.4



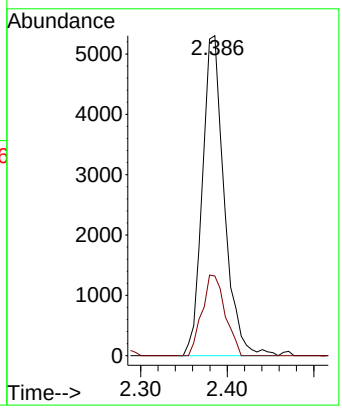


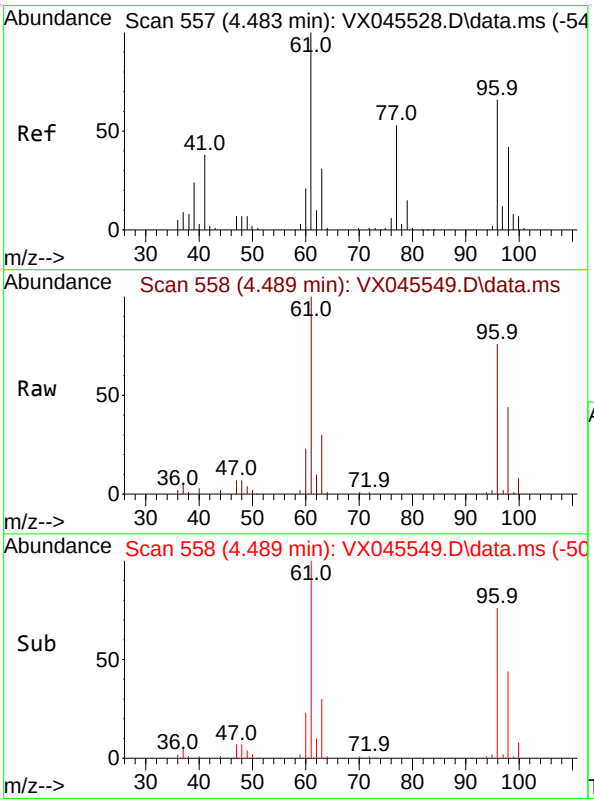
#16
Acetone
Concen: 20.061 ug/l
RT: 2.386 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX045549.D
Acq: 02 Apr 2025 16:04

Instrument :
MSVOA_X
ClientSampleId :
IW-02-55-040125

Tgt Ion: 43 Resp: 9285

Ion	Ratio	Lower	Upper
43	100		
58	24.9	22.3	33.5

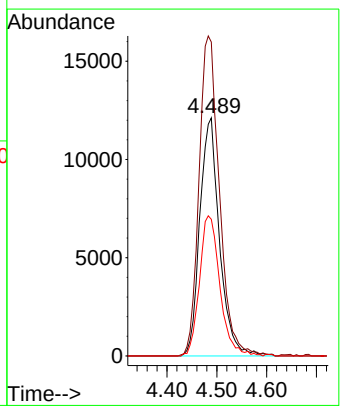


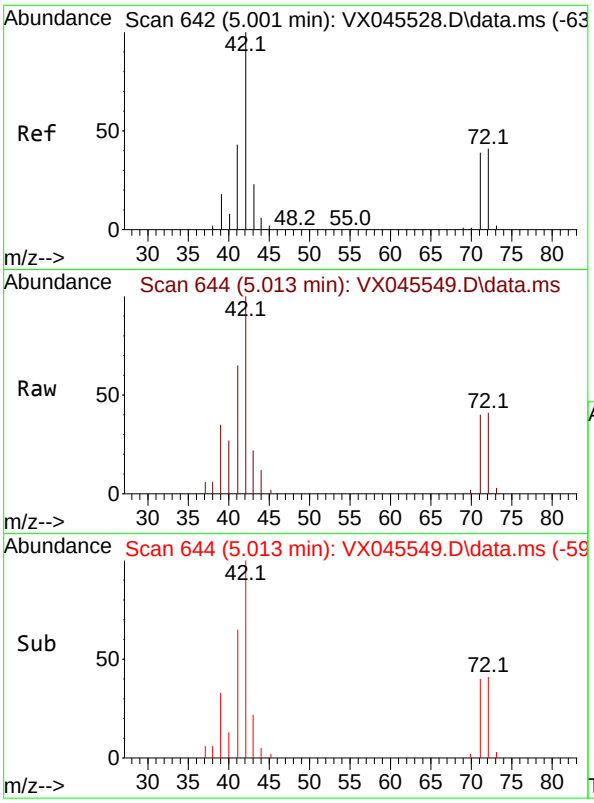


#27
cis-1,2-Dichloroethene
Concen: 36.160 ug/l
RT: 4.489 min Scan# 558
Delta R.T. 0.006 min
Lab File: VX045549.D
Acq: 02 Apr 2025 16:04

Tgt Ion: 96 Resp: 33302

Ion	Ratio	Lower	Upper
96	100		
61	138.8	0.0	313.2
98	60.8	0.0	126.4



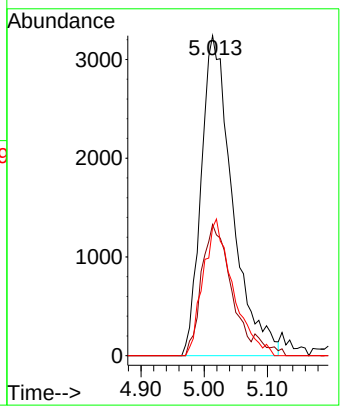


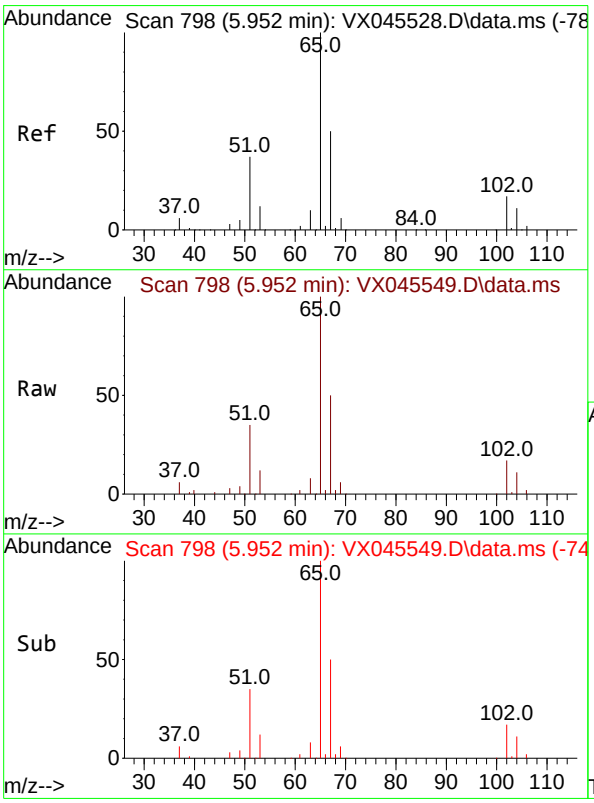
#29
Tetrahydrofuran
Concen: 25.280 ug/l
RT: 5.013 min Scan# 64
Delta R.T. 0.012 min
Lab File: VX045549.D
Acq: 02 Apr 2025 16:04

Instrument :
MSVOA_X
ClientSampleId :
IW-02-55-040125

Tgt Ion: 42 Resp: 11104

Ion	Ratio	Lower	Upper
42	100		
72	38.1	33.4	50.0
71	40.8	31.4	47.0

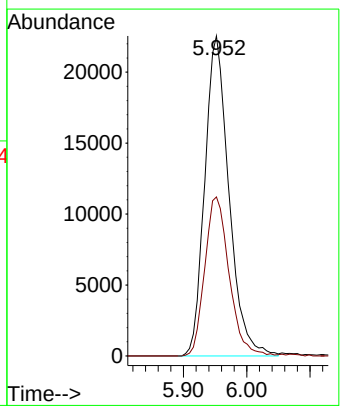


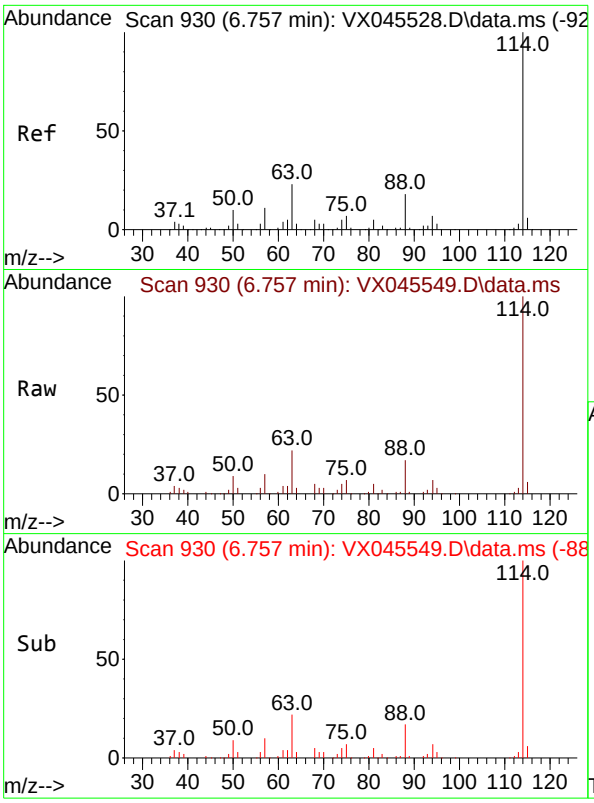


#33
1,2-Dichloroethane-d4
Concen: 53.047 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.000 min
Lab File: VX045549.D
Acq: 02 Apr 2025 16:04

Tgt Ion: 65 Resp: 59791

Ion	Ratio	Lower	Upper
65	100		
67	50.1	0.0	99.0



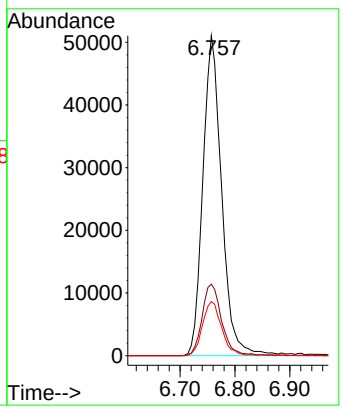


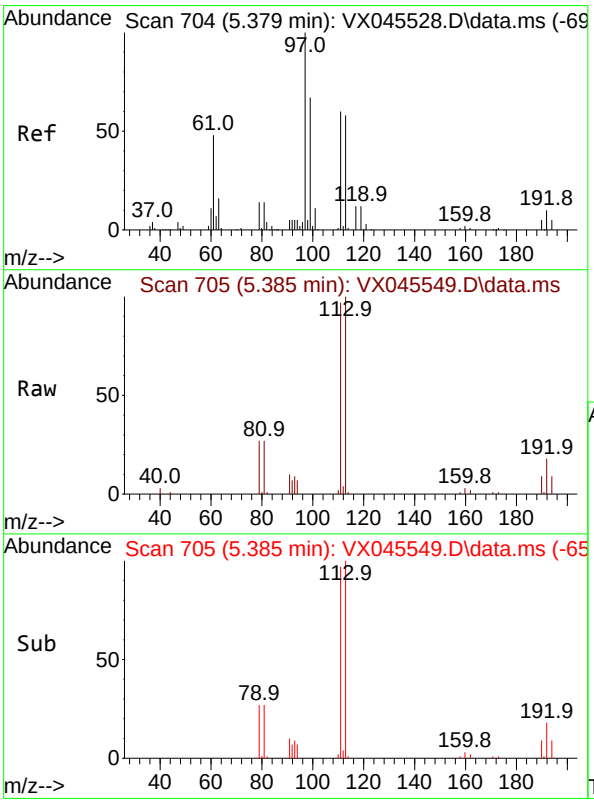
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX045549.D
Acq: 02 Apr 2025 16:04

Instrument :
MSVOA_X
ClientSampleId :
IW-02-55-040125

Tgt Ion:114 Resp: 121248

Ion	Ratio	Lower	Upper
114	100		
63	22.3	0.0	46.8
88	16.9	0.0	35.4

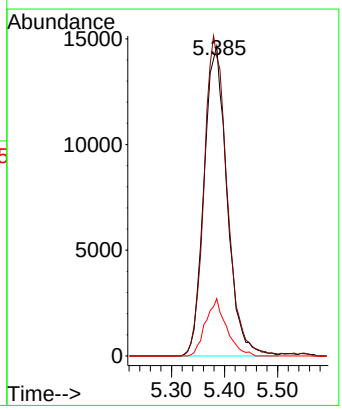


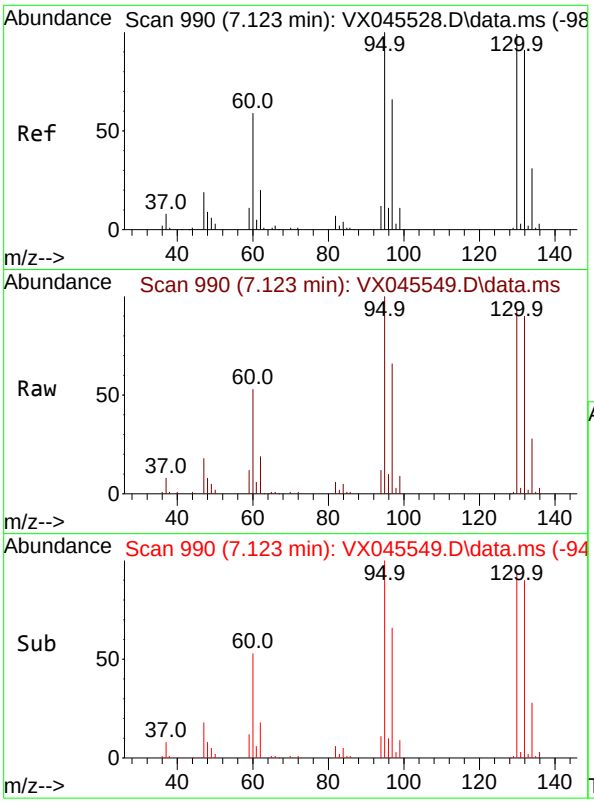


#35
Dibromofluoromethane
Concen: 51.431 ug/l
RT: 5.385 min Scan# 705
Delta R.T. 0.006 min
Lab File: VX045549.D
Acq: 02 Apr 2025 16:04

Tgt Ion:113 Resp: 44244

Ion	Ratio	Lower	Upper
113	100		
111	102.8	81.8	122.6
192	16.7	13.8	20.6



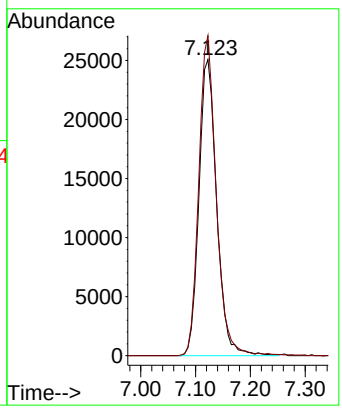


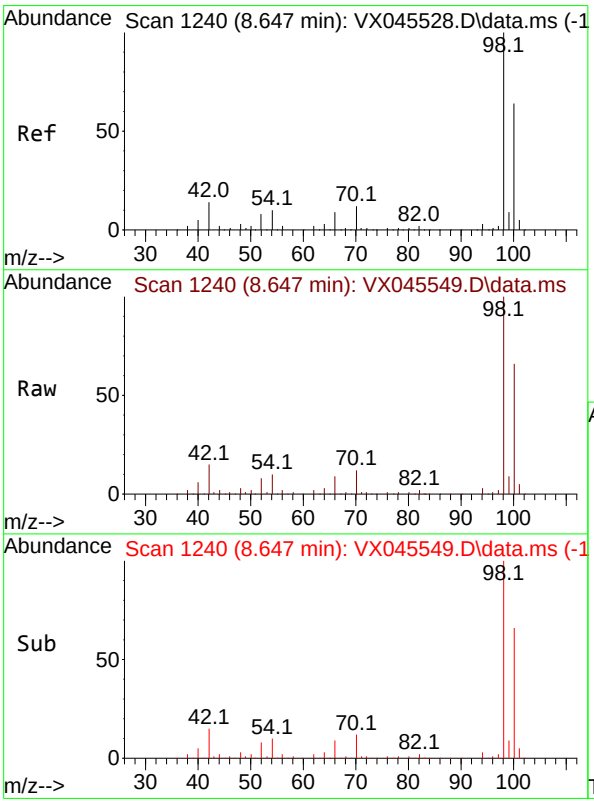
#44
Trichloroethene
Concen: 66.871 ug/l
RT: 7.123 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX045549.D
Acq: 02 Apr 2025 16:04

Instrument :
MSVOA_X
ClientSampleId :
IW-02-55-040125

Tgt Ion:130 Resp: 56383

Ion	Ratio	Lower	Upper
130	100		
95	108.0	0.0	202.0

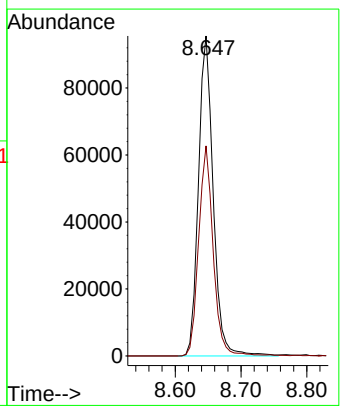


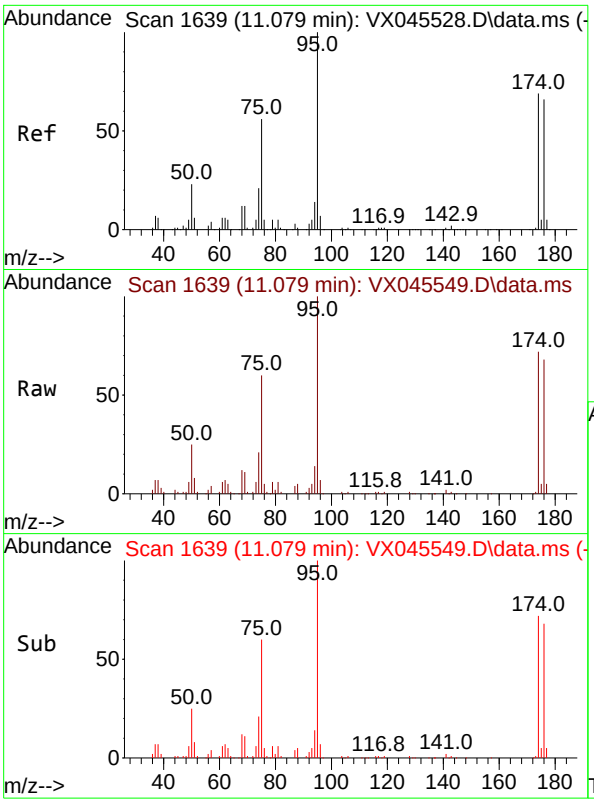


#50
Toluene-d8
Concen: 49.608 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX045549.D
Acq: 02 Apr 2025 16:04

Tgt Ion: 98 Resp: 148953

Ion	Ratio	Lower	Upper
98	100		
100	64.9	52.2	78.4



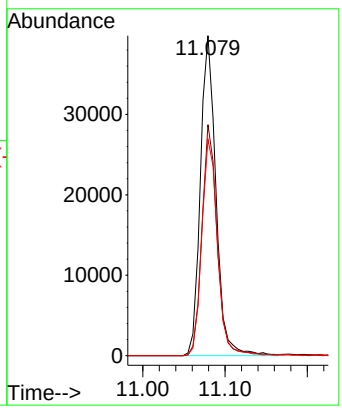


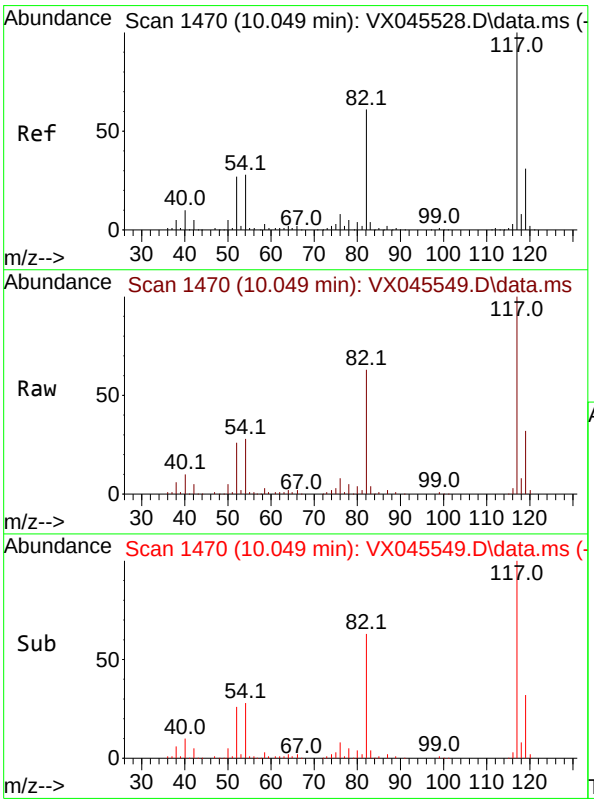
#62
4-Bromofluorobenzene
Concen: 47.870 ug/l
RT: 11.079 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045549.D
Acq: 02 Apr 2025 16:04

Instrument :
MSVOA_X
ClientSampleId :
IW-02-55-040125

Tgt Ion: 95 Resp: 52356

Ion	Ratio	Lower	Upper
95	100		
174	70.7	0.0	135.8
176	68.1	0.0	131.4

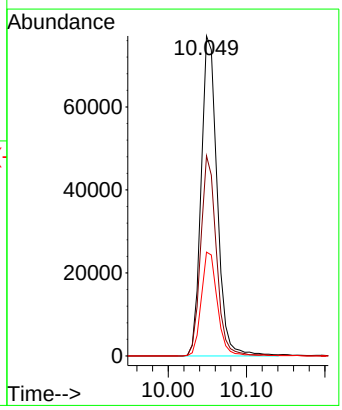


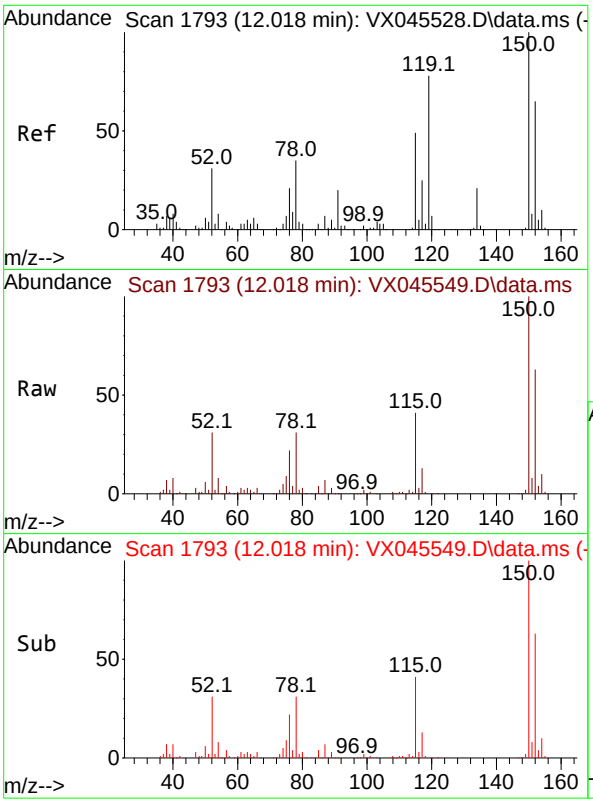


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. -0.000 min
Lab File: VX045549.D
Acq: 02 Apr 2025 16:04

Tgt Ion:117 Resp: 109435

Ion	Ratio	Lower	Upper
117	100		
82	62.6	49.2	73.8
119	32.5	25.1	37.7



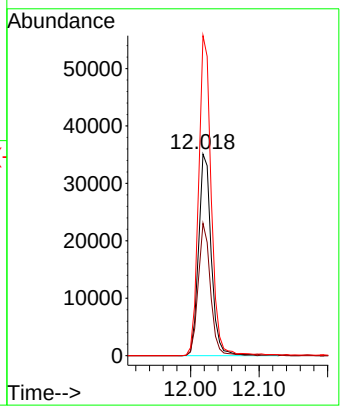


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045549.D
Acq: 02 Apr 2025 16:04

Instrument :
MSVOA_X
ClientSampleId :
IW-02-55-040125

Tgt Ion:152 Resp: 45454

Ion	Ratio	Lower	Upper
152	100		
115	63.3	46.9	140.7
150	158.3	0.0	349.4



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:	04/01/25
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	04/01/25
Client Sample ID:	IW-02-55-040125-FD	SDG No.:	Q1697
Lab Sample ID:	Q1697-04	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
VX045550.D	10		04/02/25 16:27	VX040225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	2.60	U	2.60	10.0	ug/L
75-35-4	1,1-Dichloroethene	7.50	J	2.30	10.0	ug/L
75-34-3	1,1-Dichloroethane	2.30	U	2.30	10.0	ug/L
156-59-2	cis-1,2-Dichloroethene	320		1.90	10.0	ug/L
71-55-6	1,1,1-Trichloroethane	2.00	U	2.00	10.0	ug/L
71-43-2	Benzene	1.50	U	1.50	10.0	ug/L
107-06-2	1,2-Dichloroethane	2.20	U	2.20	10.0	ug/L
79-01-6	Trichloroethene	610		0.93	10.0	ug/L
79-00-5	1,1,2-Trichloroethane	2.10	U	2.10	10.0	ug/L
127-18-4	Tetrachloroethene	2.30	U	2.30	10.0	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.1		70 (74) - 130 (125)	104%	SPK: 50
1868-53-7	Dibromofluoromethane	50.0		70 (75) - 130 (124)	100%	SPK: 50
2037-26-5	Toluene-d8	50.0		70 (86) - 130 (113)	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.1		70 (77) - 130 (121)	102%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	66400	5.55			
540-36-3	1,4-Difluorobenzene	130000	6.757			
3114-55-4	Chlorobenzene-d5	120000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	51200	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

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045550.D
Acq On : 02 Apr 2025 16:27
Operator : JC/MD
Sample : Q1697-04 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
IW-02-55-040125-FD

Quant Time: Apr 03 01:54:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

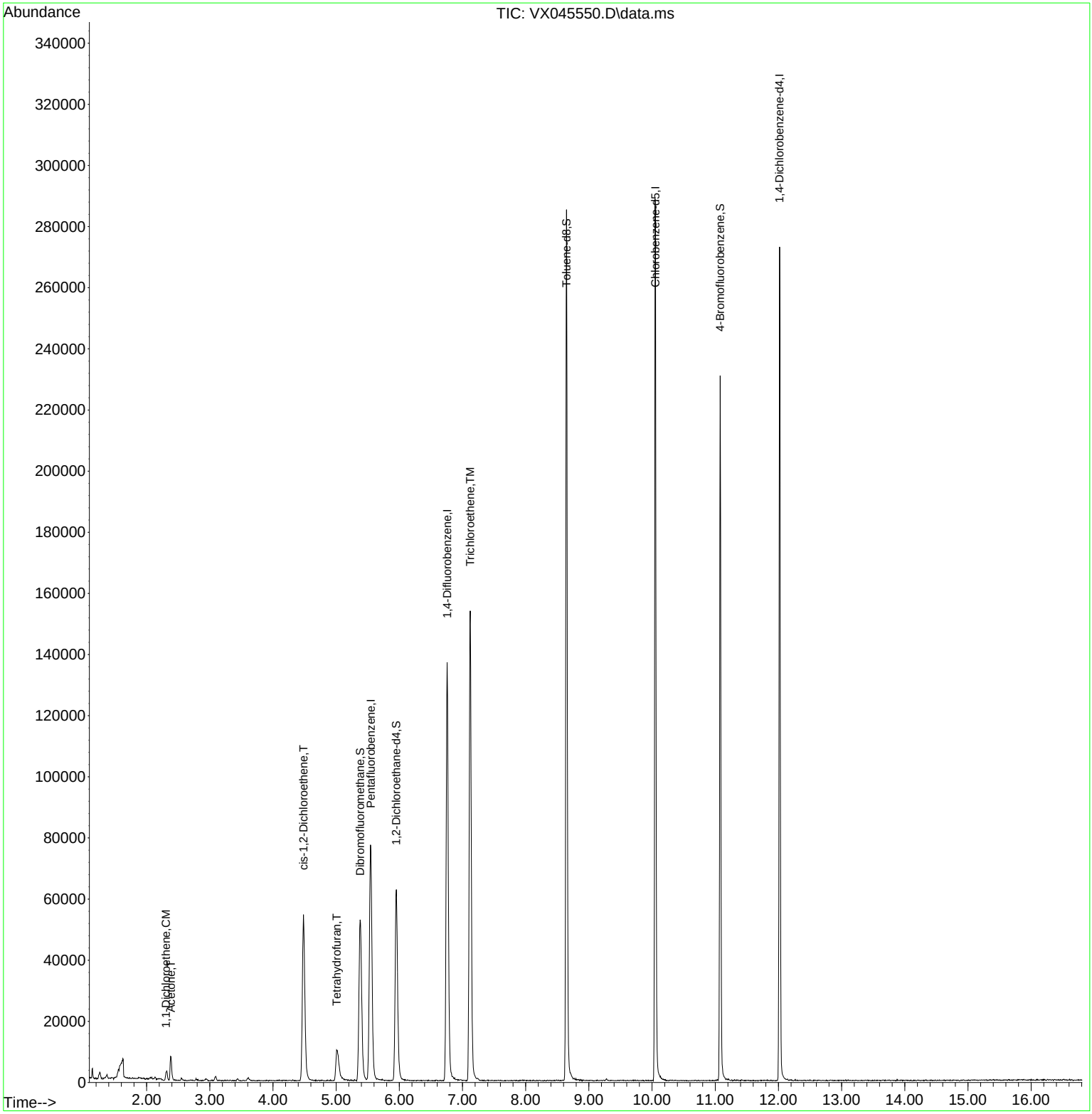
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	66382	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	130300	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	120113	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	51150	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	63193	52.056	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 104.120%			
35) Dibromofluoromethane	5.379	113	46257	50.036	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.080%			
50) Toluene-d8	8.647	98	161403	50.020	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.040%			
62) 4-Bromofluorobenzene	11.079	95	60106	51.138	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 102.280%			
Target Compounds						Qvalue
12) 1,1-Dichloroethene	2.306	96	594	0.745	ug/l	92
16) Acetone	2.386	43	8926	17.906	ug/l	96
27) cis-1,2-Dichloroethene	4.483	96	32054	32.316	ug/l	91
29) Tetrahydrofuran	5.007	42	10809	22.848	ug/l	96
44) Trichloroethene	7.123	130	55551	61.307	ug/l	96

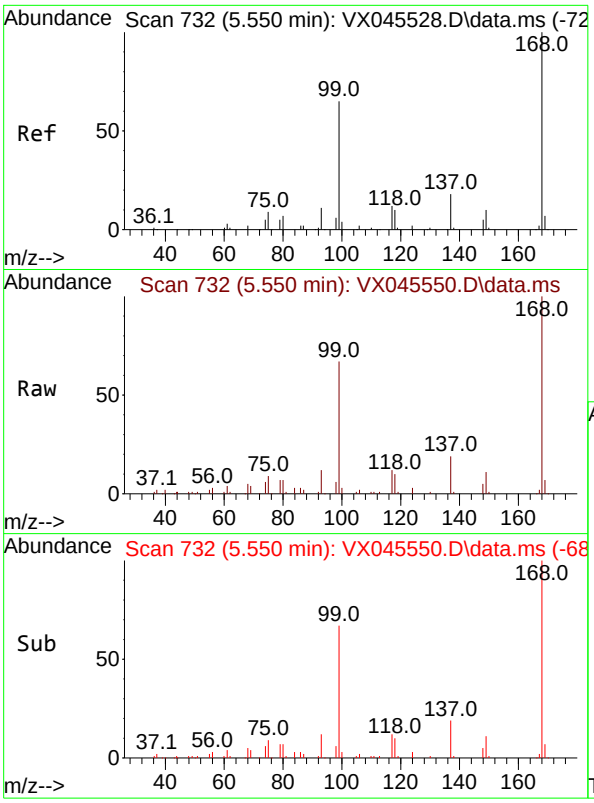
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045550.D
Acq On : 02 Apr 2025 16:27
Operator : JC/MD
Sample : Q1697-04 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
IW-02-55-040125-FD

Quant Time: Apr 03 01:54:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration



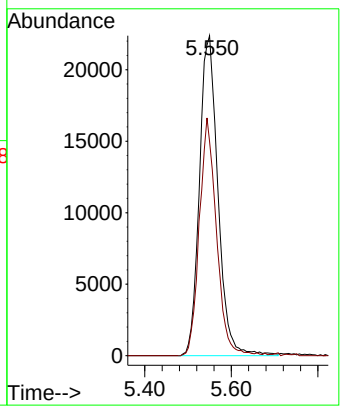


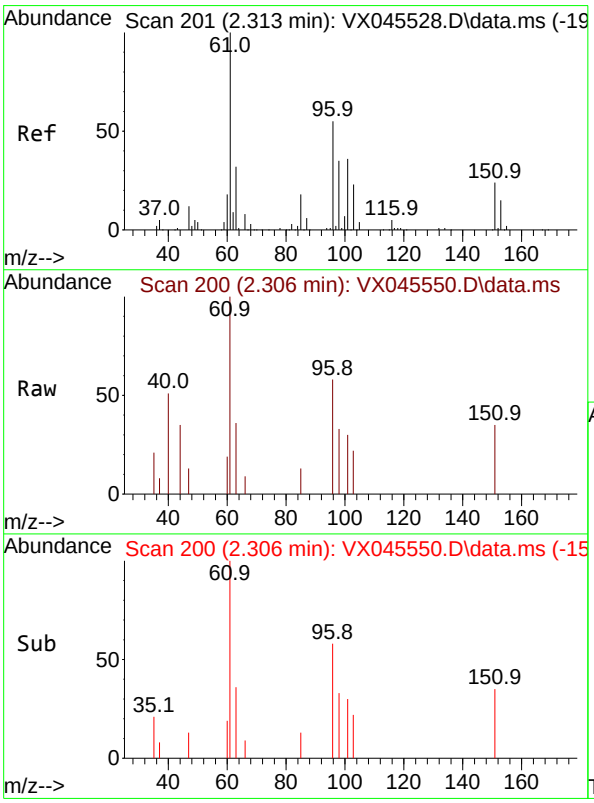
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045550.D
Acq: 02 Apr 2025 16:27

Instrument :
MSVOA_X
ClientSampleId :
IW-02-55-040125-FD

Tgt Ion:168 Resp: 66382

Ion	Ratio	Lower	Upper
168	100		
99	67.0	52.3	78.5

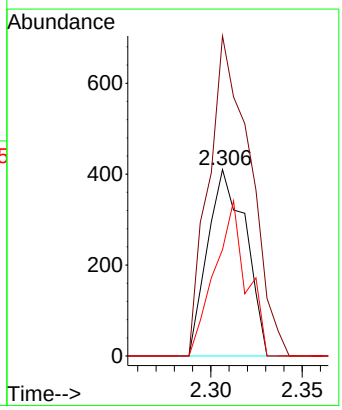


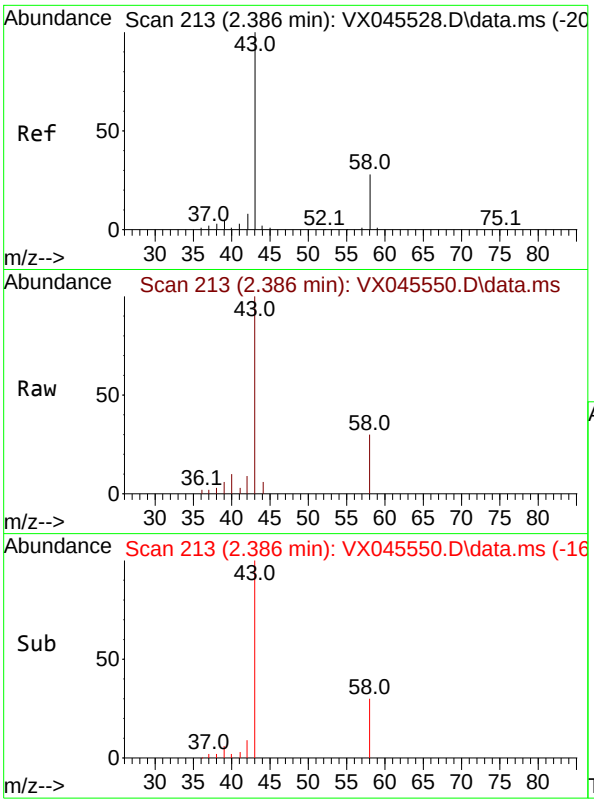


#12
1,1-Dichloroethene
Concen: 0.745 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.006 min
Lab File: VX045550.D
Acq: 02 Apr 2025 16:27

Tgt Ion: 96 Resp: 594

Ion	Ratio	Lower	Upper
96	100		
61	171.7	145.7	218.5
98	57.1	51.6	77.4



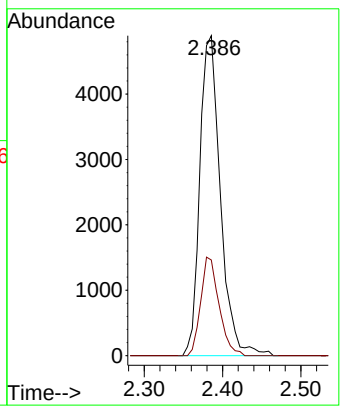


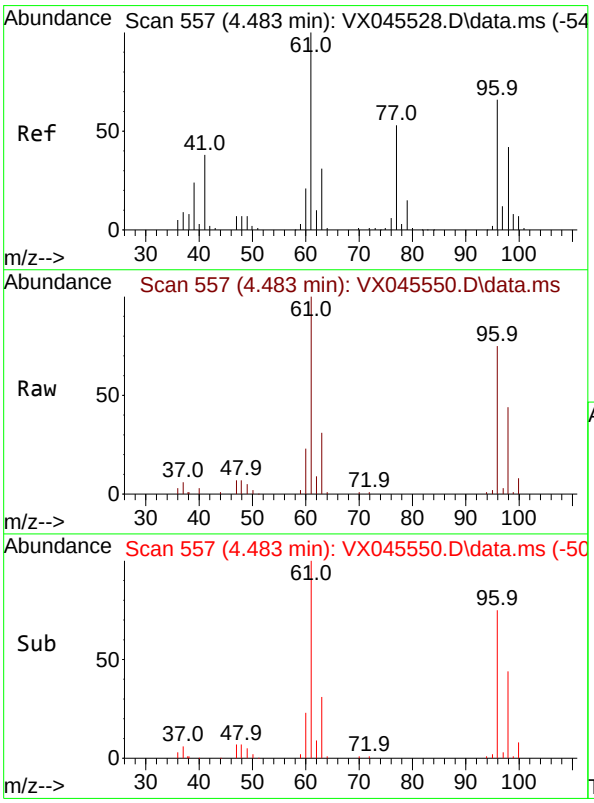
#16
Acetone
Concen: 17.906 ug/l
RT: 2.386 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX045550.D
Acq: 02 Apr 2025 16:27

Instrument :
MSVOA_X
ClientSampleId :
IW-02-55-040125-FD

Tgt Ion: 43 Resp: 8926

Ion	Ratio	Lower	Upper
43	100		
58	29.9	22.3	33.5

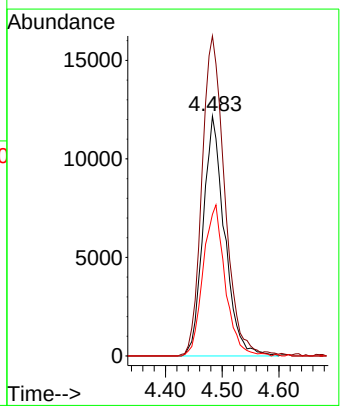


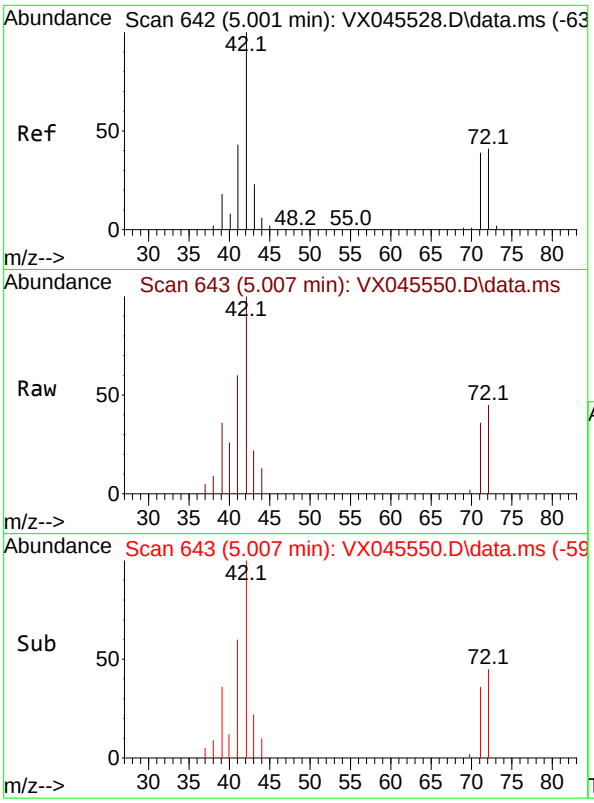


#27
cis-1,2-Dichloroethene
Concen: 32.316 ug/l
RT: 4.483 min Scan# 557
Delta R.T. -0.000 min
Lab File: VX045550.D
Acq: 02 Apr 2025 16:27

Tgt Ion: 96 Resp: 32054

Ion	Ratio	Lower	Upper
96	100		
61	141.7	0.0	313.2
98	64.5	0.0	126.4



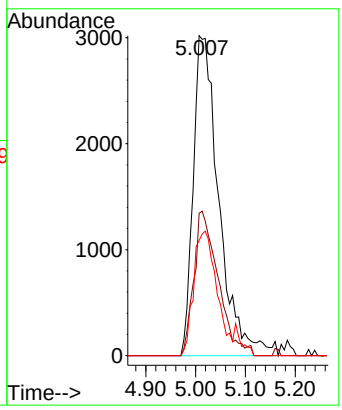


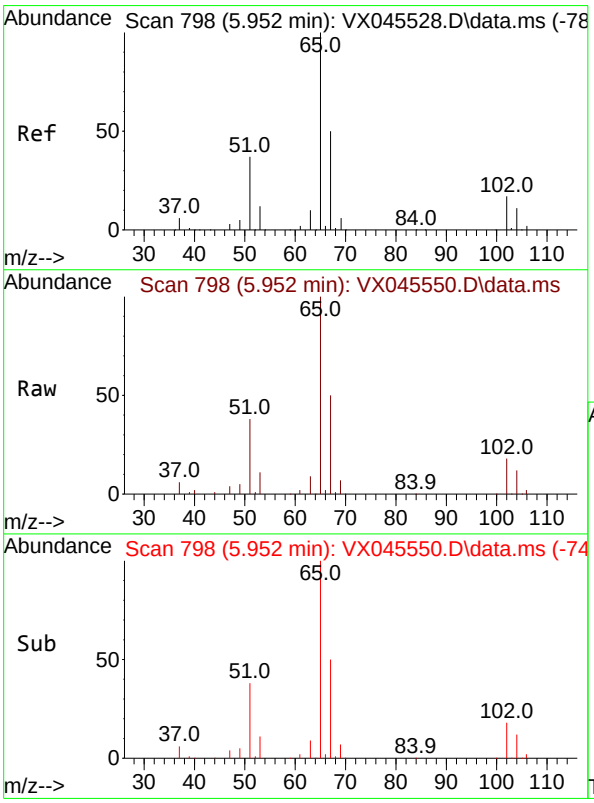
#29
Tetrahydrofuran
Concen: 22.848 ug/l
RT: 5.007 min Scan# 64
Delta R.T. 0.006 min
Lab File: VX045550.D
Acq: 02 Apr 2025 16:27

Instrument :
MSVOA_X
ClientSampleId :
IW-02-55-040125-FD

Tgt Ion: 42 Resp: 10809

Ion	Ratio	Lower	Upper
42	100		
72	42.7	33.4	50.0
71	35.0	31.4	47.0

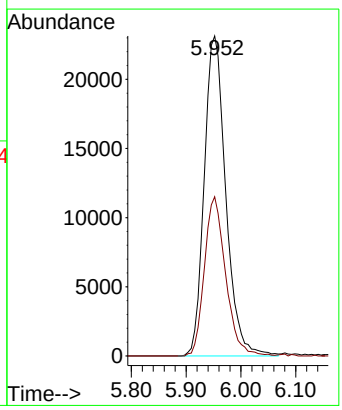


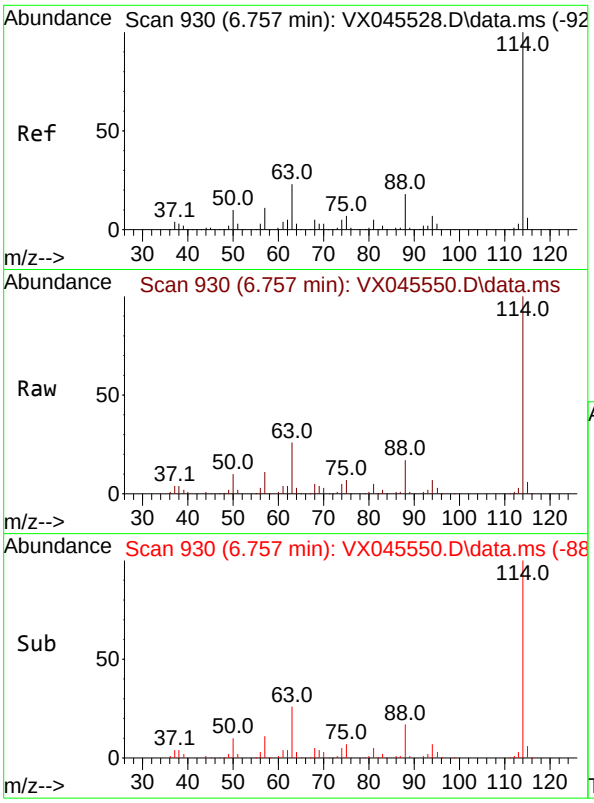


#33
1,2-Dichloroethane-d4
Concen: 52.056 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.000 min
Lab File: VX045550.D
Acq: 02 Apr 2025 16:27

Tgt Ion: 65 Resp: 63193

Ion	Ratio	Lower	Upper
65	100		
67	48.9	0.0	99.0



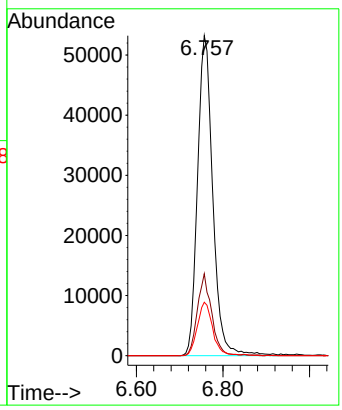


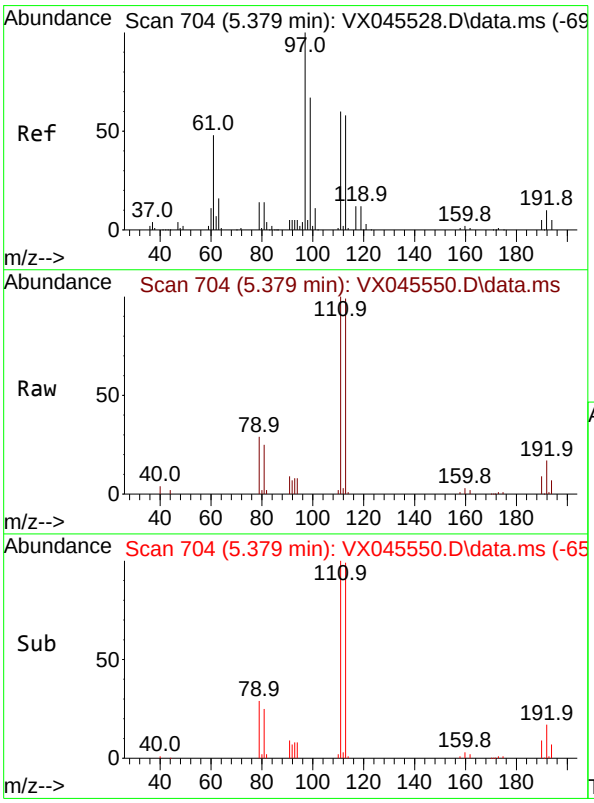
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX045550.D
Acq: 02 Apr 2025 16:27

Instrument :
MSVOA_X
ClientSampleId :
IW-02-55-040125-FD

Tgt Ion:114 Resp: 130300

Ion	Ratio	Lower	Upper
114	100		
63	25.6	0.0	46.8
88	16.7	0.0	35.4

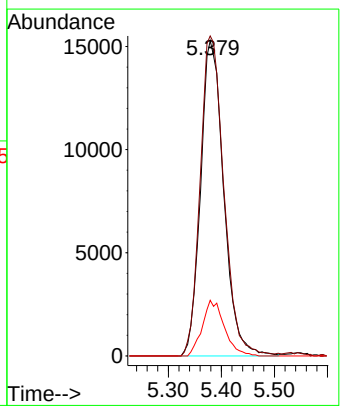


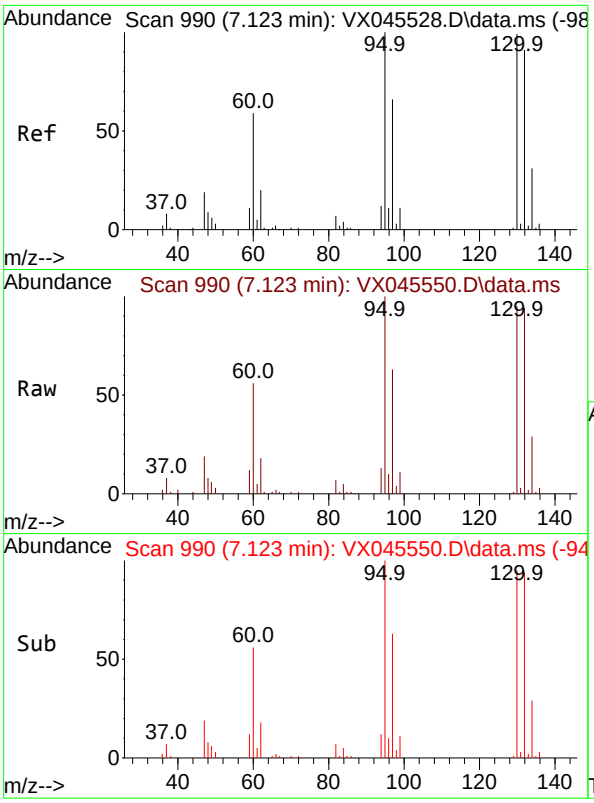


#35
Dibromofluoromethane
Concen: 50.036 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.000 min
Lab File: VX045550.D
Acq: 02 Apr 2025 16:27

Tgt Ion:113 Resp: 46257

Ion	Ratio	Lower	Upper
113	100		
111	103.8	81.8	122.6
192	16.9	13.8	20.6



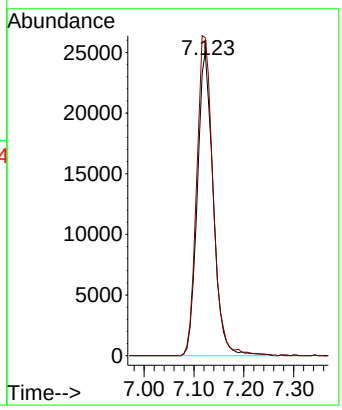


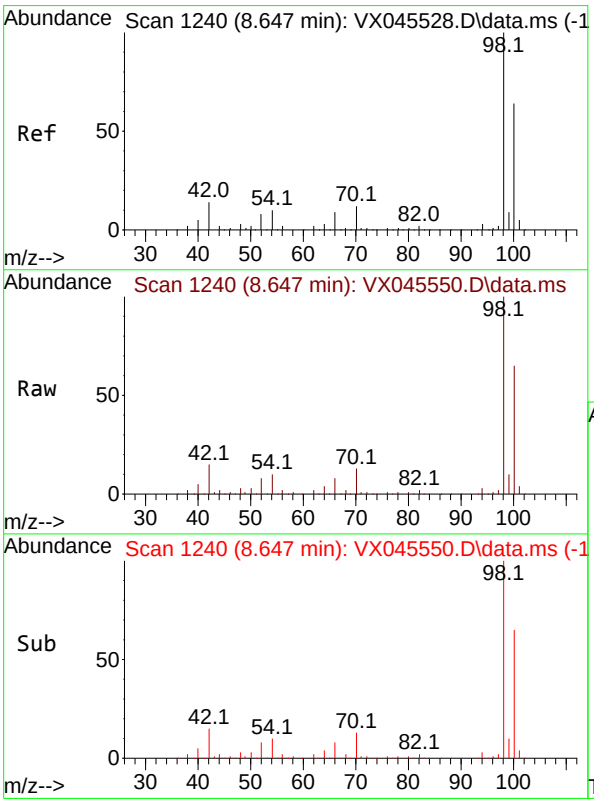
#44
Trichloroethene
Concen: 61.307 ug/l
RT: 7.123 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX045550.D
Acq: 02 Apr 2025 16:27

Instrument :
MSVOA_X
ClientSampleId :
IW-02-55-040125-FD

Tgt Ion:130 Resp: 55551

Ion	Ratio	Lower	Upper
130	100		
95	104.8	0.0	202.0

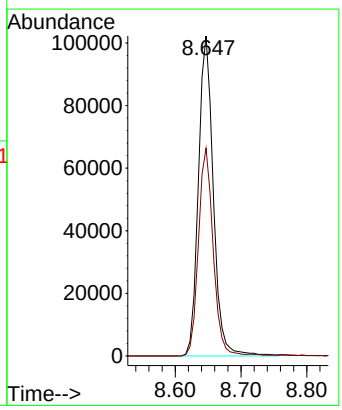


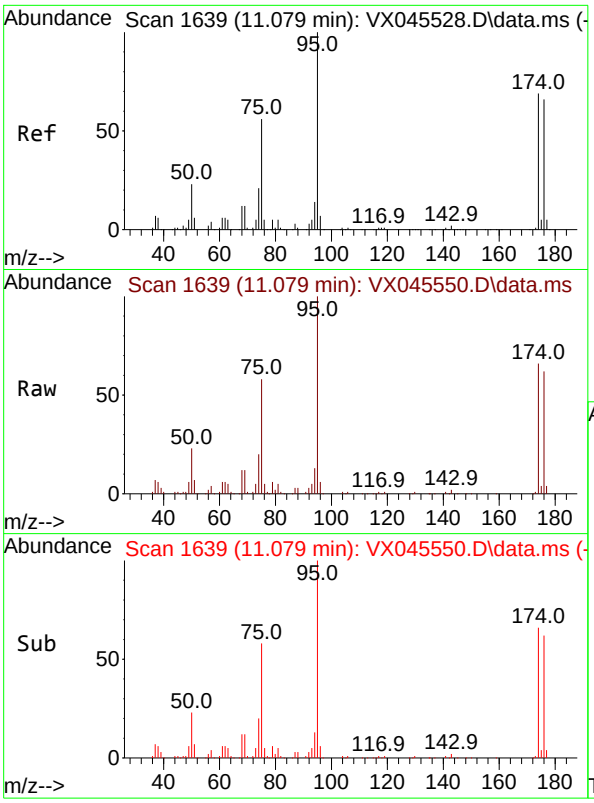


#50
Toluene-d8
Concen: 50.020 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX045550.D
Acq: 02 Apr 2025 16:27

Tgt Ion: 98 Resp: 161403

Ion	Ratio	Lower	Upper
98	100		
100	63.8	52.2	78.4



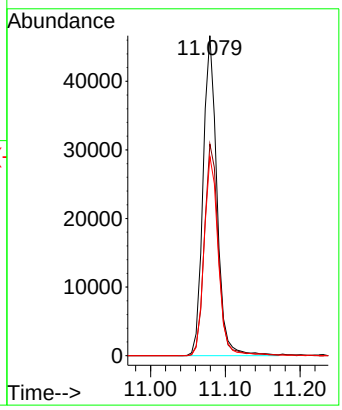


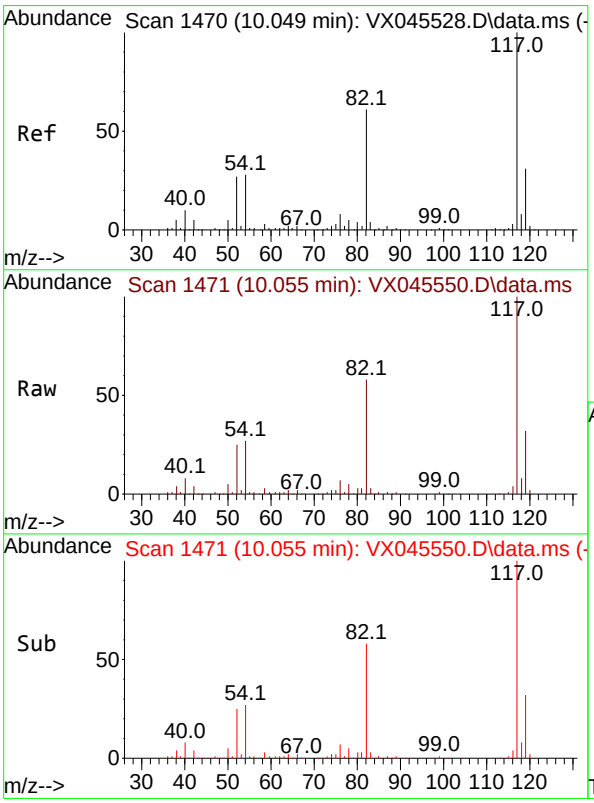
#62
4-Bromofluorobenzene
Concen: 51.138 ug/l
RT: 11.079 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045550.D
Acq: 02 Apr 2025 16:27

Instrument :
MSVOA_X
ClientSampleId :
IW-02-55-040125-FD

Tgt Ion: 95 Resp: 60106

Ion	Ratio	Lower	Upper
95	100		
174	67.2	0.0	135.8
176	64.1	0.0	131.4

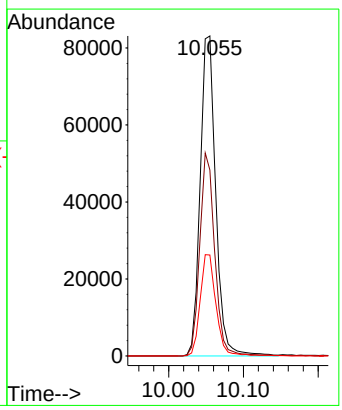


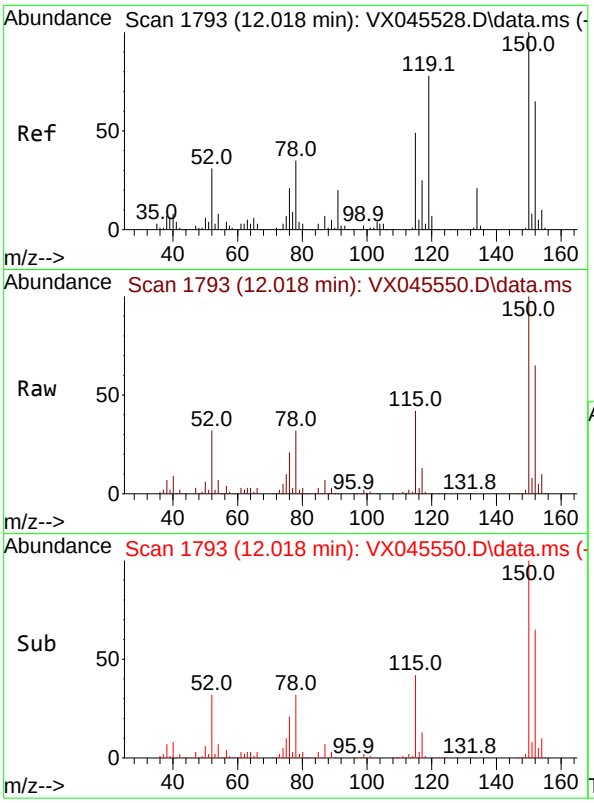


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.006 min
Lab File: VX045550.D
Acq: 02 Apr 2025 16:27

Tgt Ion:117 Resp: 120113

Ion	Ratio	Lower	Upper
117	100		
82	58.1	49.2	73.8
119	31.6	25.1	37.7



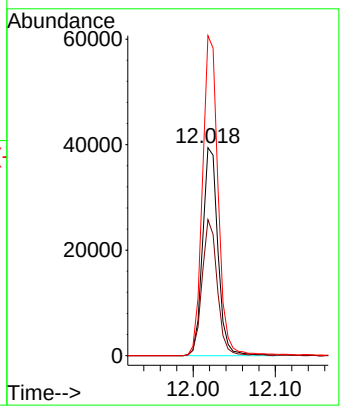


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045550.D
Acq: 02 Apr 2025 16:27

Instrument :
MSVOA_X
ClientSampleId :
IW-02-55-040125-FD

Tgt Ion:152 Resp: 51150

Ion	Ratio	Lower	Upper
152	100		
115	64.9	46.9	140.7
150	156.8	0.0	349.4



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:	04/01/25
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	04/01/25
Client Sample ID:	IW-03-55-040125	SDG No.:	Q1697
Lab Sample ID:	Q1697-05	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
VX045551.D	10		04/02/25 16:51	VX040225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	2.60	U	2.60	10.0	ug/L
75-35-4	1,1-Dichloroethene	11.3		2.30	10.0	ug/L
75-34-3	1,1-Dichloroethane	2.30	U	2.30	10.0	ug/L
156-59-2	cis-1,2-Dichloroethene	560		1.90	10.0	ug/L
71-55-6	1,1,1-Trichloroethane	2.00	U	2.00	10.0	ug/L
71-43-2	Benzene	1.50	U	1.50	10.0	ug/L
107-06-2	1,2-Dichloroethane	2.20	U	2.20	10.0	ug/L
79-01-6	Trichloroethene	1100		0.93	10.0	ug/L
79-00-5	1,1,2-Trichloroethane	2.10	U	2.10	10.0	ug/L
127-18-4	Tetrachloroethene	2.30	U	2.30	10.0	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.8		70 (74) - 130 (125)	108%	SPK: 50
1868-53-7	Dibromofluoromethane	52.6		70 (75) - 130 (124)	105%	SPK: 50
2037-26-5	Toluene-d8	50.8		70 (86) - 130 (113)	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.2		70 (77) - 130 (121)	100%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	61400	5.544			
540-36-3	1,4-Difluorobenzene	119000	6.757			
3114-55-4	Chlorobenzene-d5	111000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	47100	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

Quantitation Report (LSC Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045551.D
Acq On : 02 Apr 2025 16:51
Operator : JC/MD
Sample : Q1697-05 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
IW-03-55-040125

Quant Time: Apr 03 01:55:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

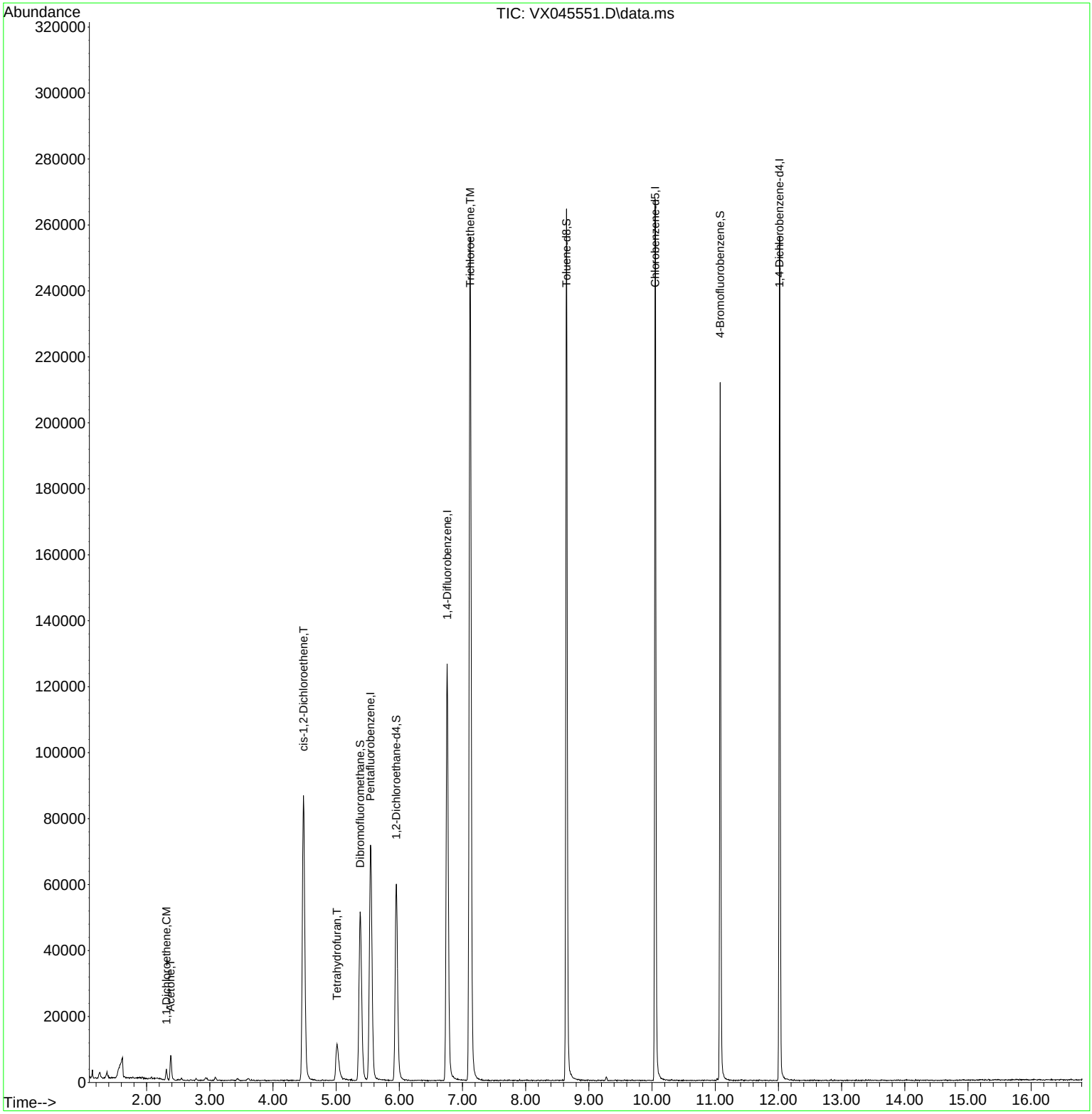
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	61354	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	118700	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	111274	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	47106	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	60332	53.772	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 107.540%			
35) Dibromofluoromethane	5.379	113	44335	52.643	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.280%			
50) Toluene-d8	8.647	98	149422	50.832	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.660%			
62) 4-Bromofluorobenzene	11.079	95	53791	50.238	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 100.480%			
Target Compounds						Qvalue
12) 1,1-Dichloroethene	2.313	96	831	1.128	ug/l	96
16) Acetone	2.380	43	8425	18.286	ug/l	93
27) cis-1,2-Dichloroethene	4.483	96	51568	56.250	ug/l	90
29) Tetrahydrofuran	5.013	42	11199	25.613	ug/l	97
44) Trichloroethene	7.123	130	92640	112.231	ug/l	98

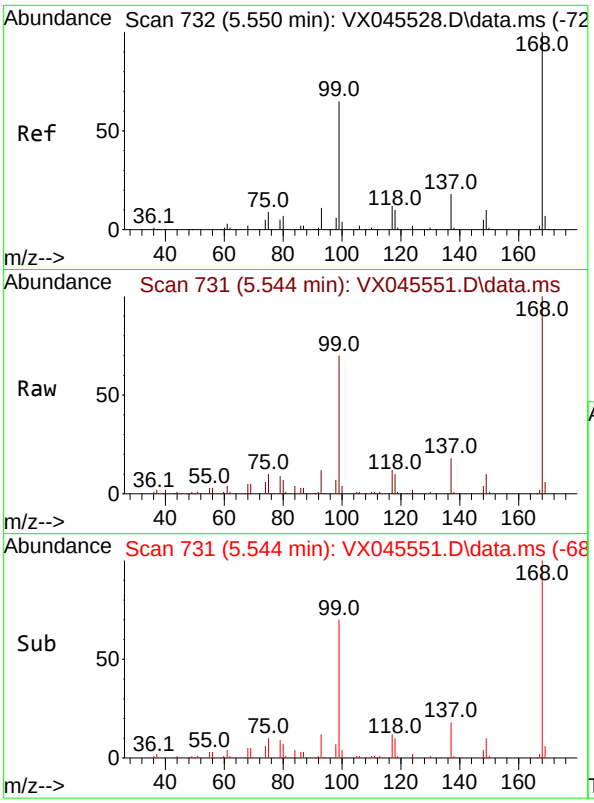
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045551.D
Acq On : 02 Apr 2025 16:51
Operator : JC/MD
Sample : Q1697-05 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
IW-03-55-040125

Quant Time: Apr 03 01:55:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration



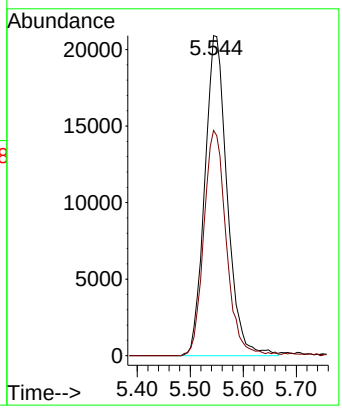


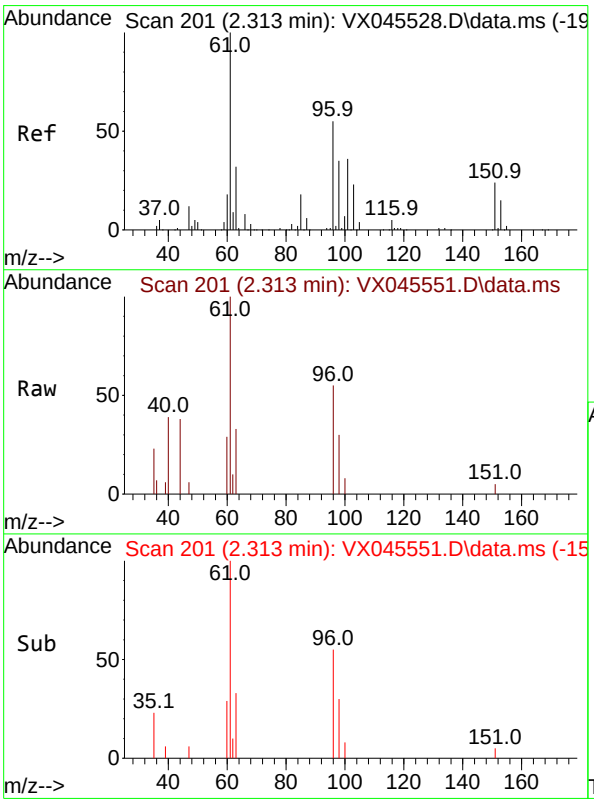
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045551.D
Acq: 02 Apr 2025 16:51

Instrument :
MSVOA_X
ClientSampleId :
IW-03-55-040125

Tgt Ion:168 Resp: 61354

Ion	Ratio	Lower	Upper
168	100		
99	70.4	52.3	78.5

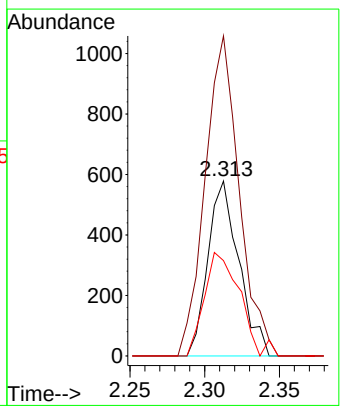


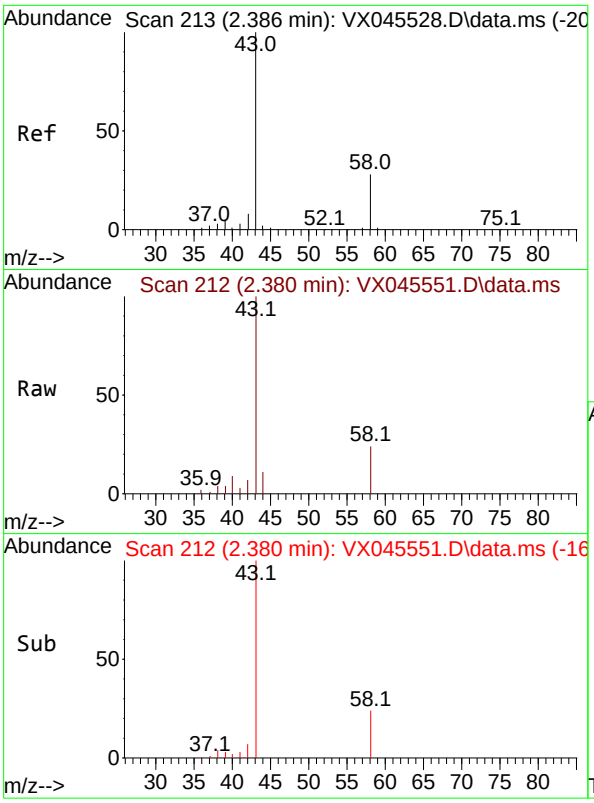


#12
1,1-Dichloroethene
Concen: 1.128 ug/l
RT: 2.313 min Scan# 201
Delta R.T. 0.000 min
Lab File: VX045551.D
Acq: 02 Apr 2025 16:51

Tgt Ion: 96 Resp: 831

Ion	Ratio	Lower	Upper
96	100		
61	183.0	145.7	218.5
98	54.5	51.6	77.4



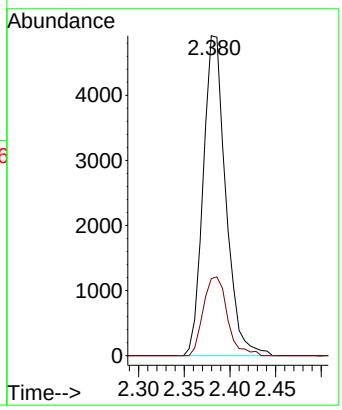


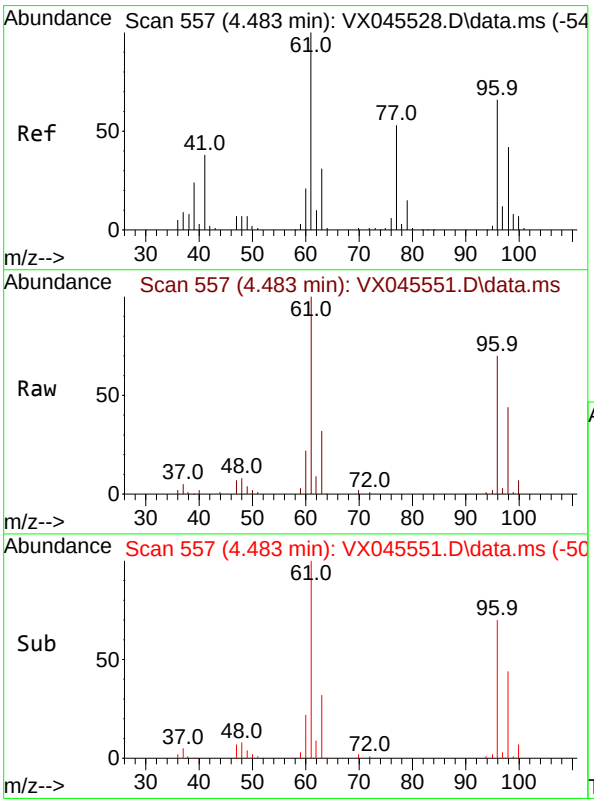
#16
Acetone
Concen: 18.286 ug/l
RT: 2.380 min Scan# 21
Delta R.T. -0.006 min
Lab File: VX045551.D
Acq: 02 Apr 2025 16:51

Instrument :
MSVOA_X
ClientSampleId :
IW-03-55-040125

Tgt Ion: 43 Resp: 8425

Ion	Ratio	Lower	Upper
43	100		
58	24.1	22.3	33.5

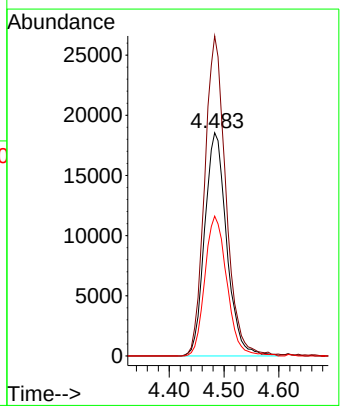


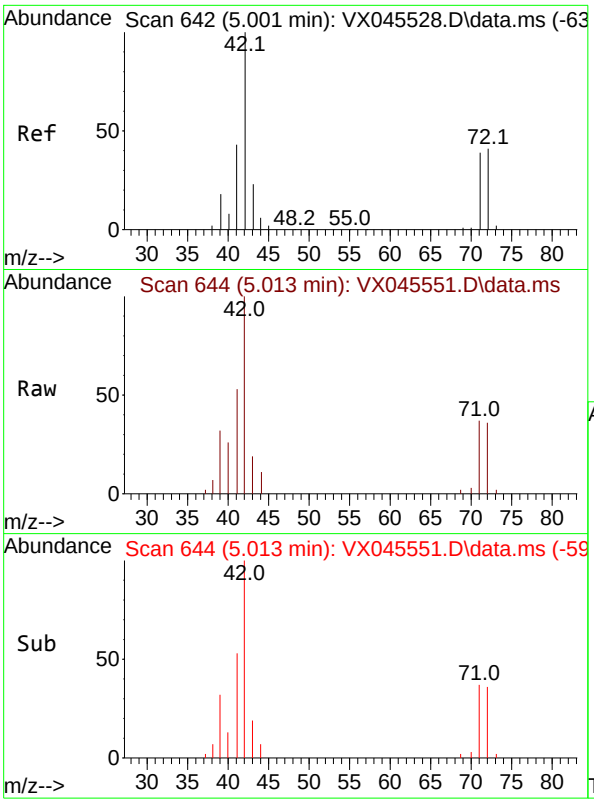


#27
cis-1,2-Dichloroethene
Concen: 56.250 ug/l
RT: 4.483 min Scan# 557
Delta R.T. 0.000 min
Lab File: VX045551.D
Acq: 02 Apr 2025 16:51

Tgt Ion: 96 Resp: 51568

Ion	Ratio	Lower	Upper
96	100		
61	138.3	0.0	313.2
98	62.8	0.0	126.4



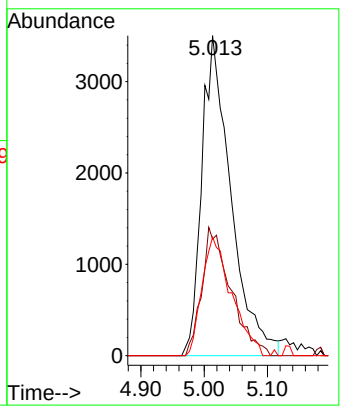


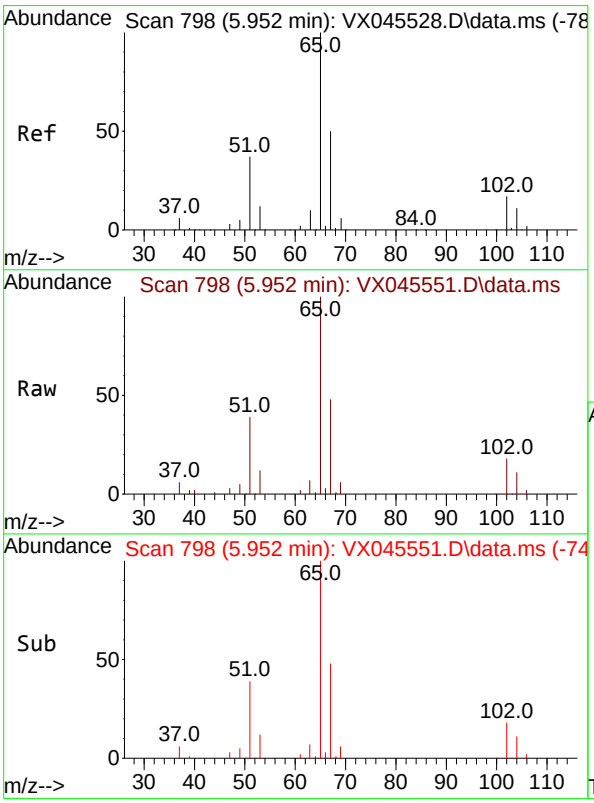
#29
Tetrahydrofuran
Concen: 25.613 ug/l
RT: 5.013 min Scan# 64
Delta R.T. 0.012 min
Lab File: VX045551.D
Acq: 02 Apr 2025 16:51

Instrument :
MSVOA_X
ClientSampleId :
IW-03-55-040125

Tgt Ion: 42 Resp: 11199

Ion	Ratio	Lower	Upper
42	100		
72	40.0	33.4	50.0
71	37.7	31.4	47.0

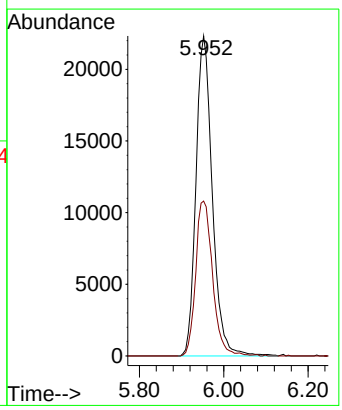


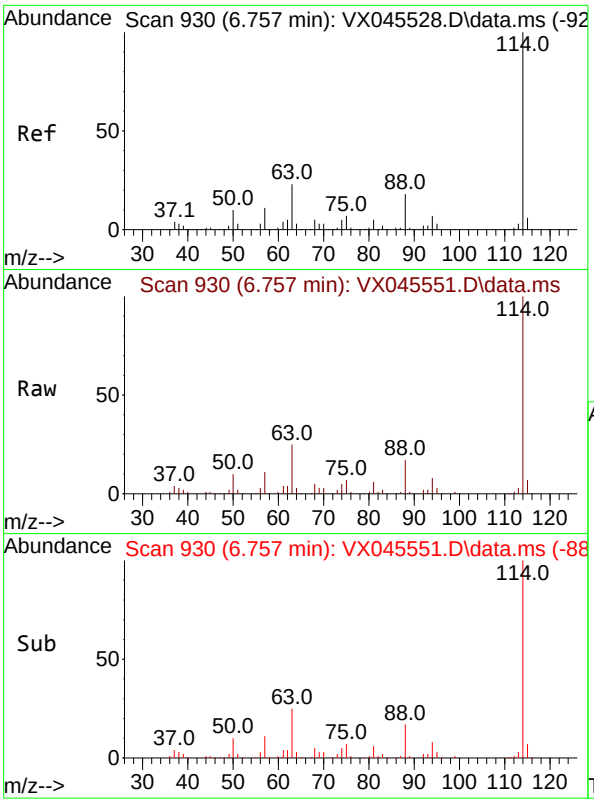


#33
1,2-Dichloroethane-d4
Concen: 53.772 ug/l
RT: 5.952 min Scan# 798
Delta R.T. 0.000 min
Lab File: VX045551.D
Acq: 02 Apr 2025 16:51

Tgt Ion: 65 Resp: 60332

Ion	Ratio	Lower	Upper
65	100		
67	50.0	0.0	99.0



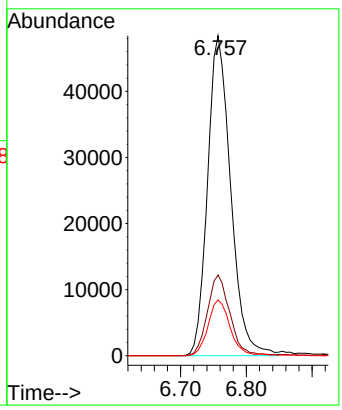


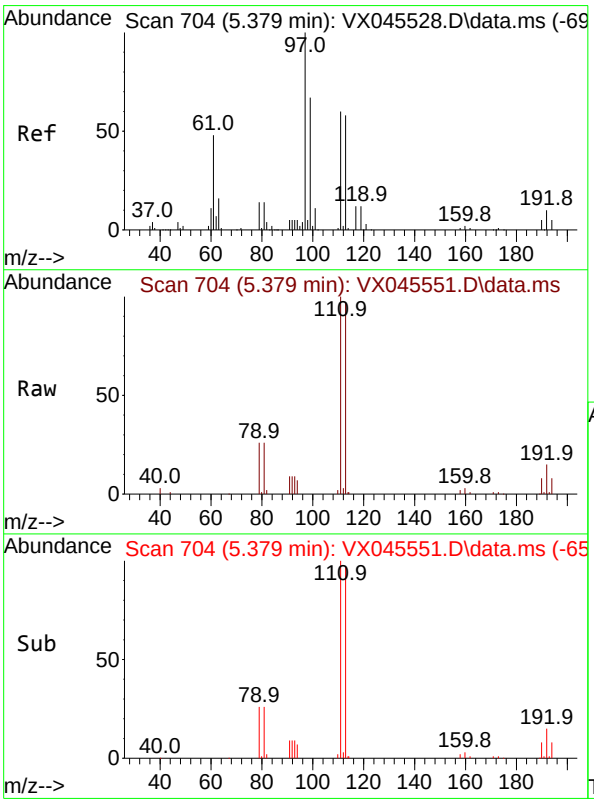
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 9
Delta R.T. 0.000 min
Lab File: VX045551.D
Acq: 02 Apr 2025 16:51

Instrument :
MSVOA_X
ClientSampleId :
IW-03-55-040125

Tgt Ion:114 Resp: 118700

Ion	Ratio	Lower	Upper
114	100		
63	25.2	0.0	46.8
88	17.4	0.0	35.4

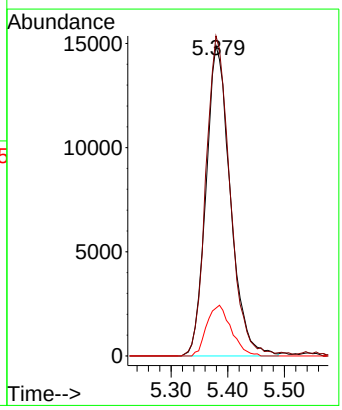


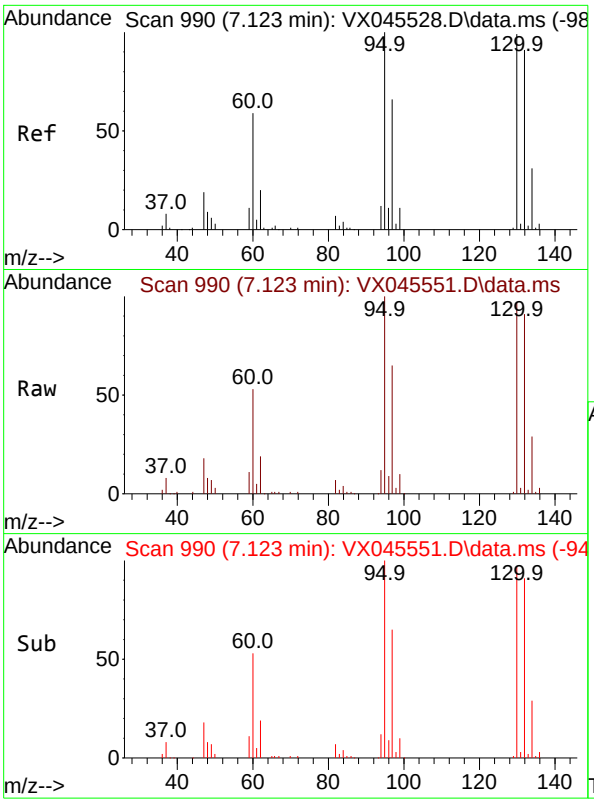


#35
Dibromofluoromethane
Concen: 52.643 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.000 min
Lab File: VX045551.D
Acq: 02 Apr 2025 16:51

Tgt Ion:113 Resp: 44335

Ion	Ratio	Lower	Upper
113	100		
111	102.0	81.8	122.6
192	16.4	13.8	20.6



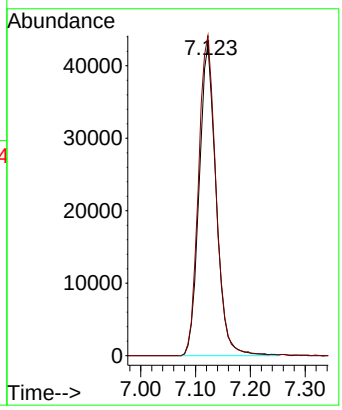


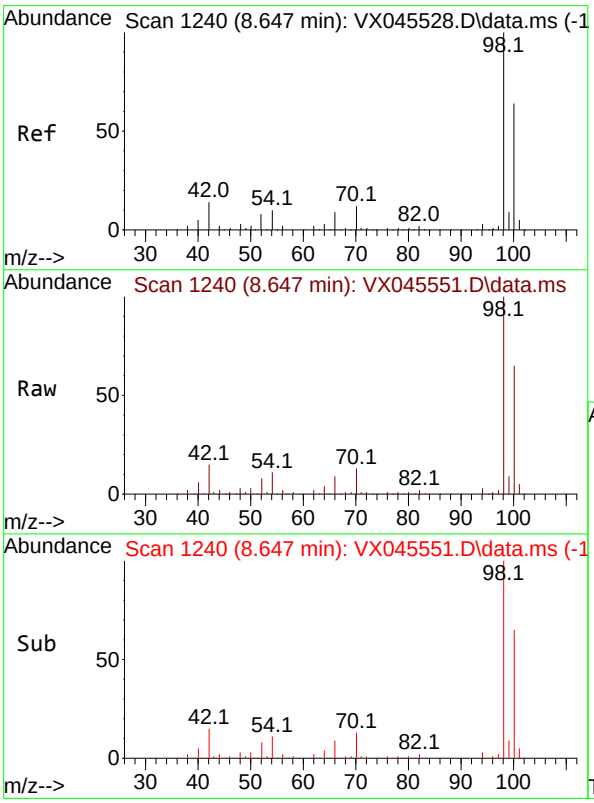
#44
Trichloroethene
Concen: 112.231 ug/l
RT: 7.123 min Scan# 9
Delta R.T. 0.000 min
Lab File: VX045551.D
Acq: 02 Apr 2025 16:51

Instrument :
MSVOA_X
ClientSampleId :
IW-03-55-040125

Tgt Ion:130 Resp: 92640

Ion	Ratio	Lower	Upper
130	100		
95	102.9	0.0	202.0

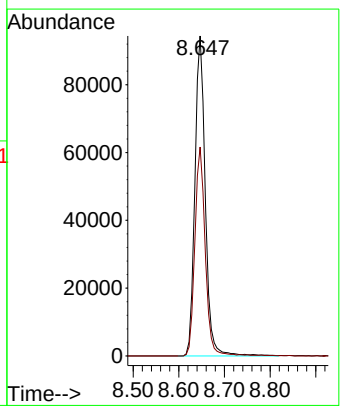


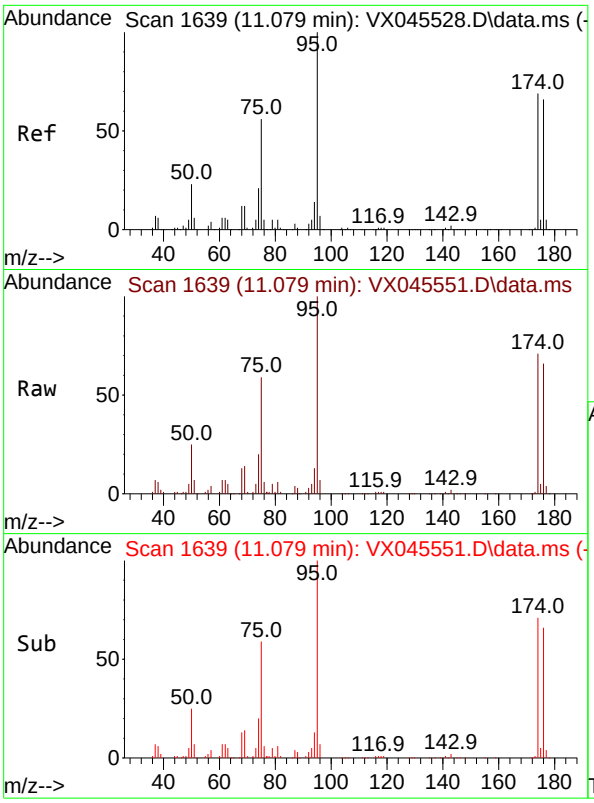


#50
Toluene-d8
Concen: 50.832 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX045551.D
Acq: 02 Apr 2025 16:51

Tgt Ion: 98 Resp: 149422

Ion	Ratio	Lower	Upper
98	100		
100	65.4	52.2	78.4



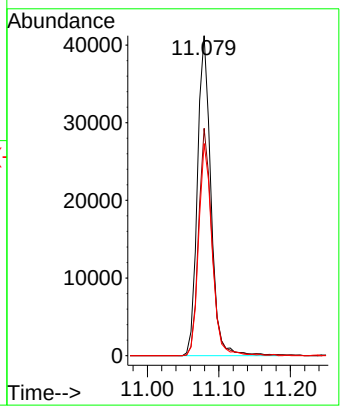


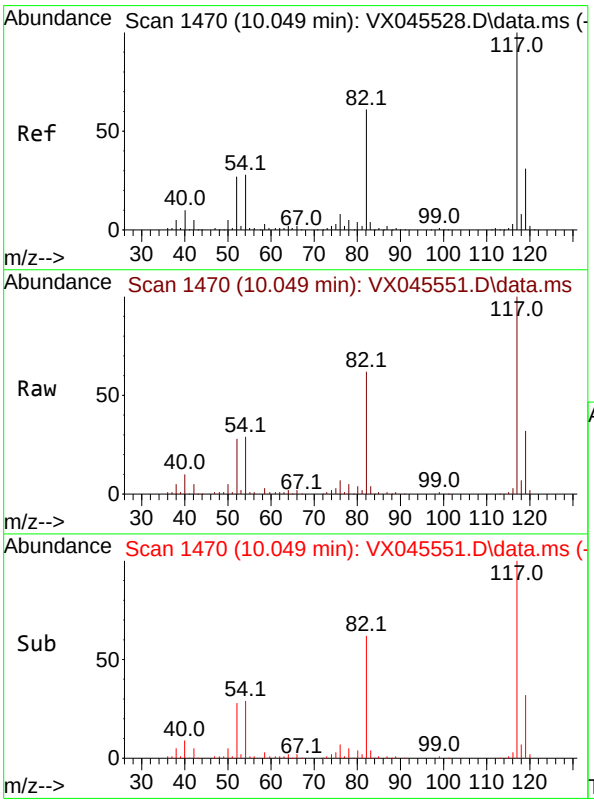
#62
4-Bromofluorobenzene
Concen: 50.238 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045551.D
Acq: 02 Apr 2025 16:51

Instrument :
MSVOA_X
ClientSampleId :
IW-03-55-040125

Tgt Ion: 95 Resp: 53791

Ion	Ratio	Lower	Upper
95	100		
174	70.8	0.0	135.8
176	66.1	0.0	131.4

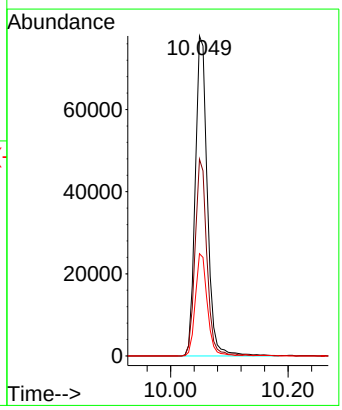


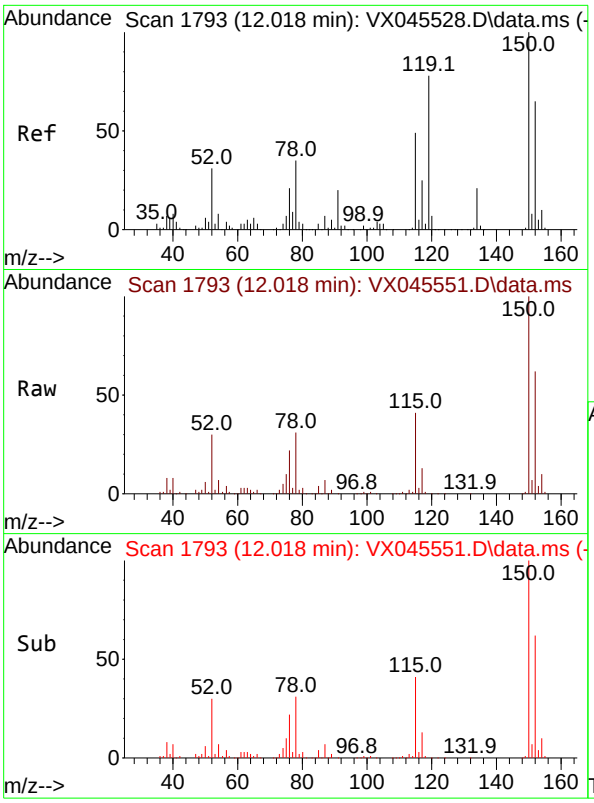


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX045551.D
Acq: 02 Apr 2025 16:51

Tgt Ion:117 Resp: 111274

Ion	Ratio	Lower	Upper
117	100		
82	61.5	49.2	73.8
119	32.0	25.1	37.7



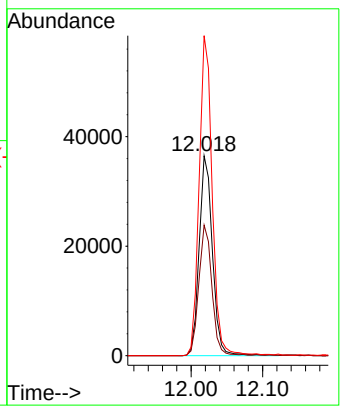


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045551.D
Acq: 02 Apr 2025 16:51

Instrument :
MSVOA_X
ClientSampleId :
IW-03-55-040125

Tgt Ion:152 Resp: 47106

Ion	Ratio	Lower	Upper
152	100		
115	64.4	46.9	140.7
150	157.5	0.0	349.4



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:	04/01/25
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	04/01/25
Client Sample ID:	TB-01-040125	SDG No.:	Q1697
Lab Sample ID:	Q1697-06	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
VX045562.D	1		04/03/25 11:45	VX040325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.26	U	0.26	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	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	0.19	U	0.19	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	1.00	ug/L
71-43-2	Benzene	0.15	U	0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	1.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.7		70 (74) - 130 (125)	107%	SPK: 50
1868-53-7	Dibromofluoromethane	51.7		70 (75) - 130 (124)	103%	SPK: 50
2037-26-5	Toluene-d8	50.4		70 (86) - 130 (113)	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.1		70 (77) - 130 (121)	102%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	66700	5.544			
540-36-3	1,4-Difluorobenzene	130000	6.757			
3114-55-4	Chlorobenzene-d5	121000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	51100	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

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040325\
Data File : VX045562.D
Acq On : 03 Apr 2025 11:45
Operator : JC/MD
Sample : Q1697-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB-01-040125

Quant Time: Apr 03 12:10:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

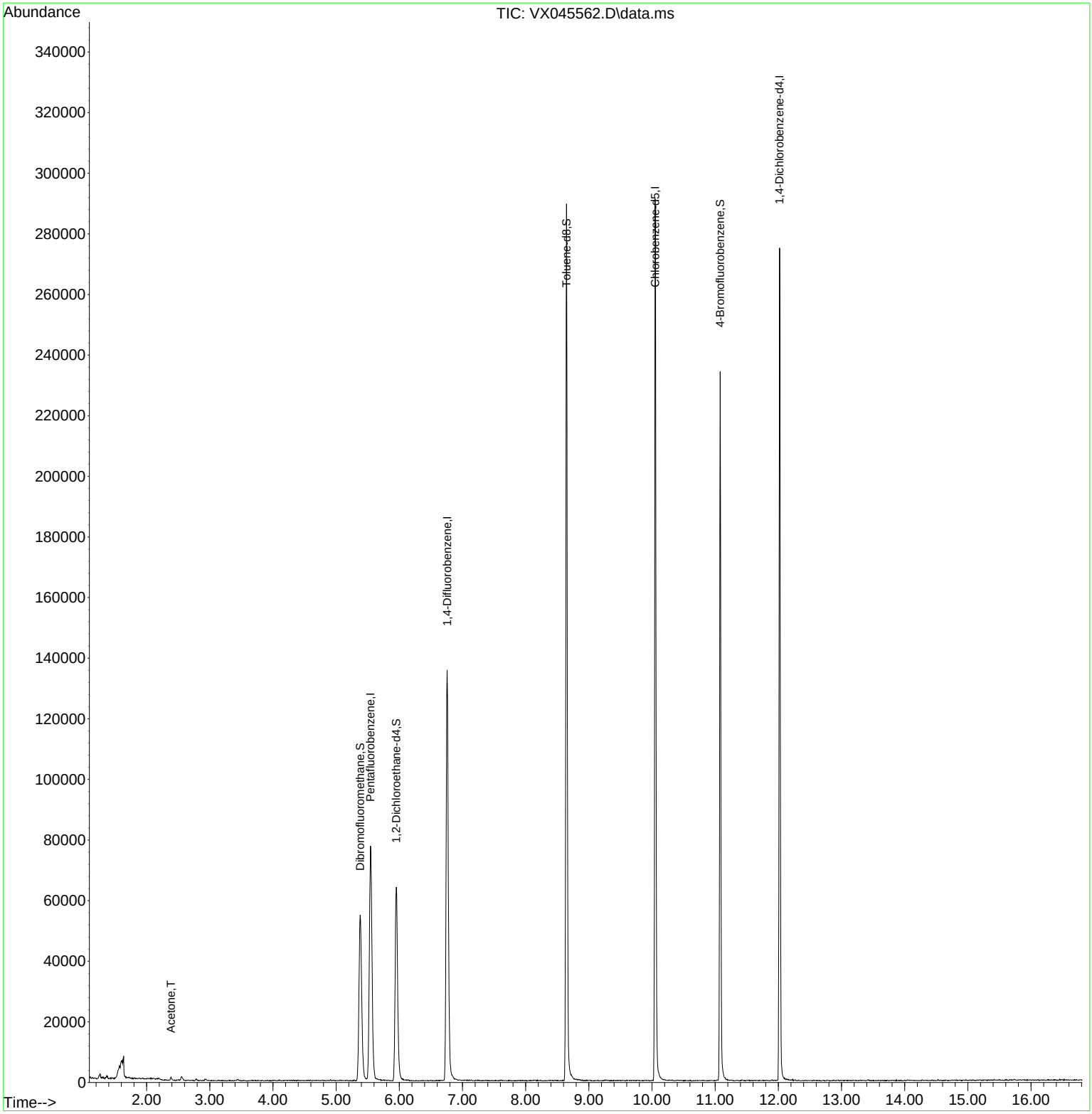
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	66672	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	129805	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	120558	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	51137	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	65511	53.730	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 107.460%			
35) Dibromofluoromethane	5.379	113	47572	51.654	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.300%			
50) Toluene-d8	8.647	98	161884	50.360	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.720%			
62) 4-Bromofluorobenzene	11.079	95	59883	51.143	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 102.280%			
Target Compounds						Qvalue
16) Acetone	2.386	43	1055	2.107	ug/l	96

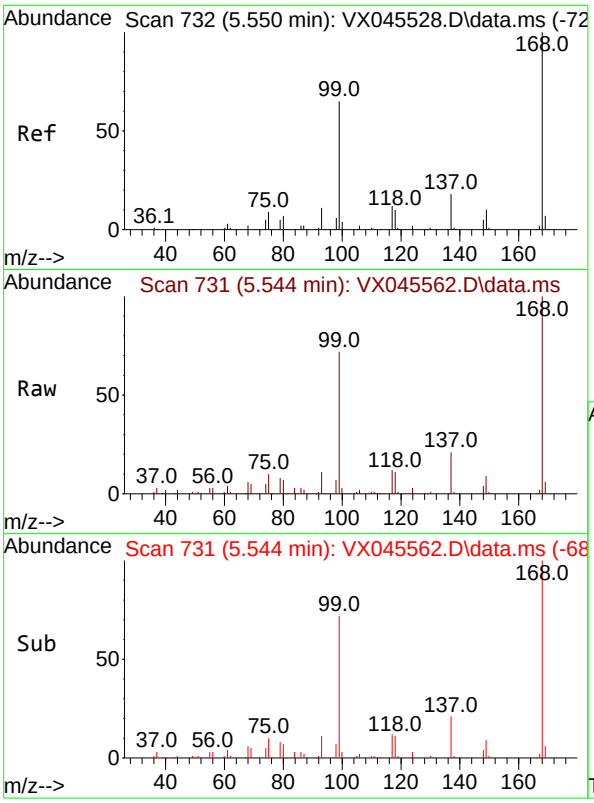
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040325\
Data File : VX045562.D
Acq On : 03 Apr 2025 11:45
Operator : JC/MD
Sample : Q1697-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB-01-040125

Quant Time: Apr 03 12:10:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration



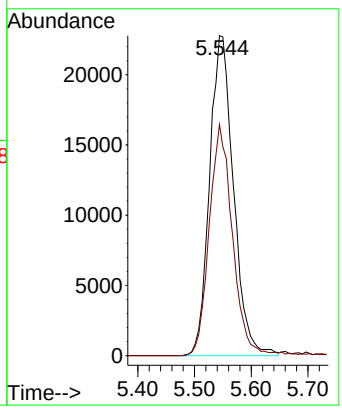


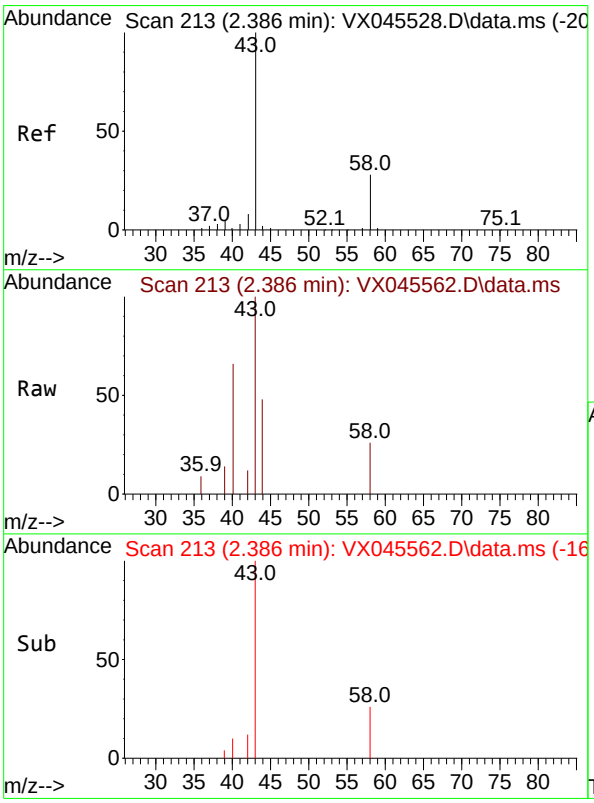
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045562.D
Acq: 03 Apr 2025 11:45

Instrument :
MSVOA_X
ClientSampleId :
TB-01-040125

Tgt Ion:168 Resp: 66672

Ion	Ratio	Lower	Upper
168	100		
99	72.3	52.3	78.5

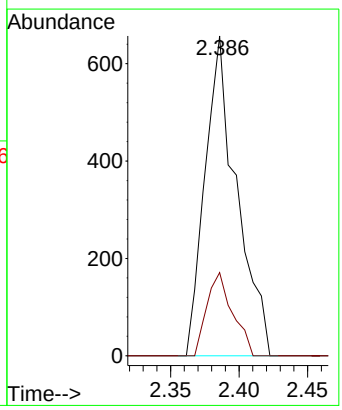


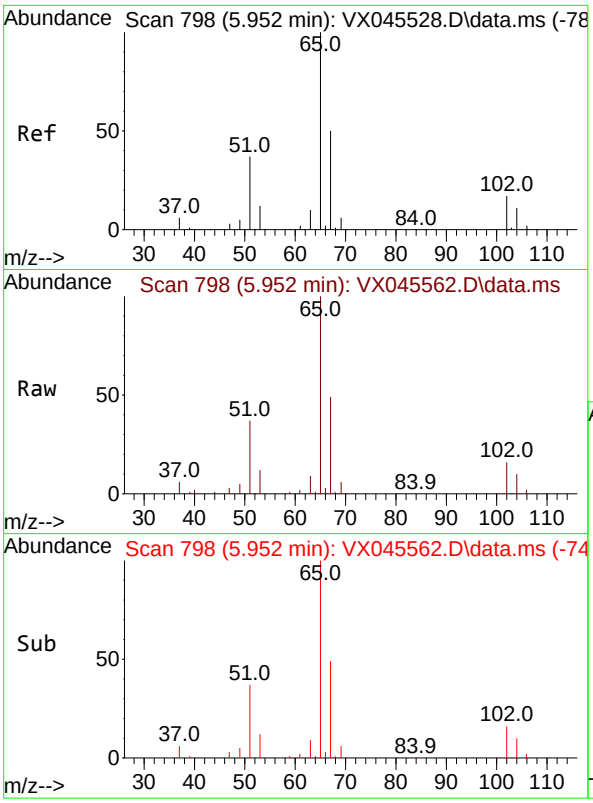


#16
Acetone
Concen: 2.107 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.000 min
Lab File: VX045562.D
Acq: 03 Apr 2025 11:45

Tgt Ion: 43 Resp: 1055

Ion	Ratio	Lower	Upper
43	100		
58	26.0	22.3	33.5



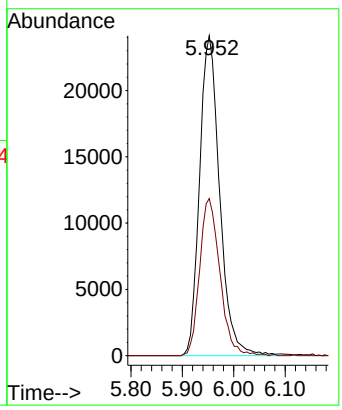


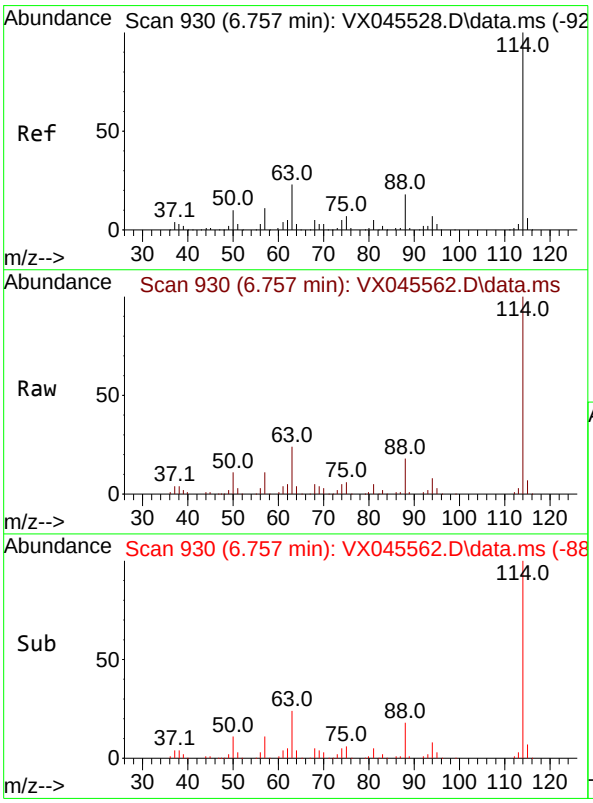
#33
1,2-Dichloroethane-d4
Concen: 53.730 ug/l
RT: 5.952 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX045562.D
Acq: 03 Apr 2025 11:45

Instrument :
MSVOA_X
ClientSampleId :
TB-01-040125

Tgt Ion: 65 Resp: 65511

Ion	Ratio	Lower	Upper
65	100		
67	49.5	0.0	99.0

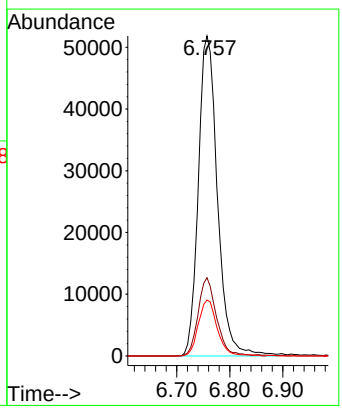


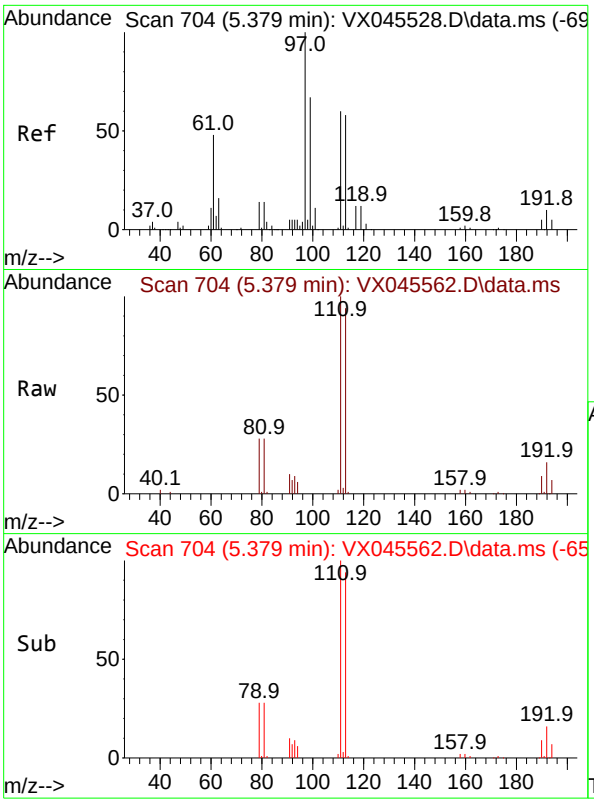


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX045562.D
Acq: 03 Apr 2025 11:45

Tgt Ion:114 Resp: 129805

Ion	Ratio	Lower	Upper
114	100		
63	24.5	0.0	46.8
88	17.5	0.0	35.4



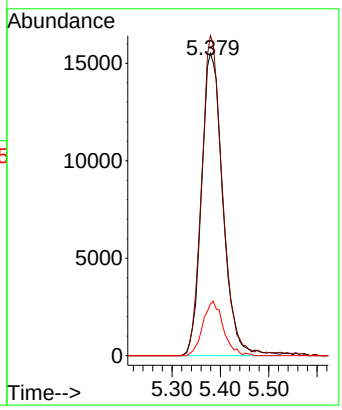


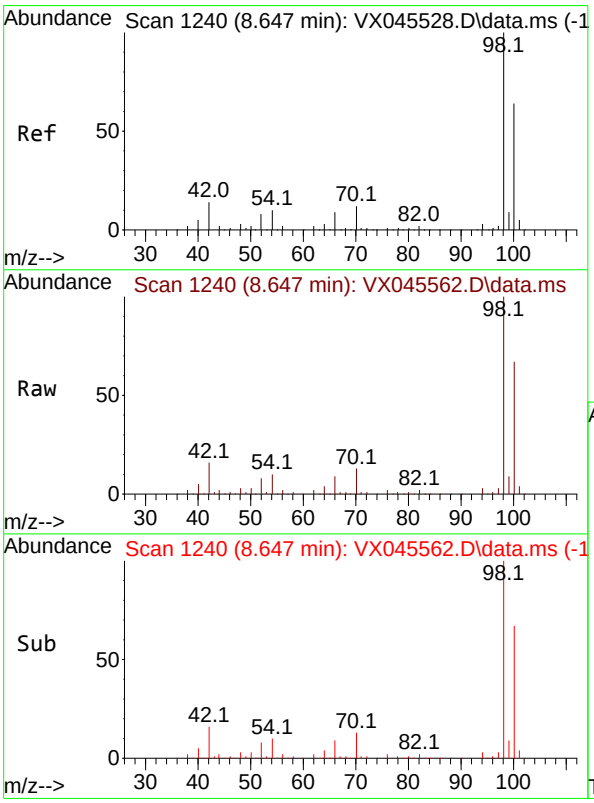
#35
Dibromofluoromethane
Concen: 51.654 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX045562.D
Acq: 03 Apr 2025 11:45

Instrument :
MSVOA_X
ClientSampleId :
TB-01-040125

Tgt Ion:113 Resp: 47572

Ion	Ratio	Lower	Upper
113	100		
111	103.2	81.8	122.6
192	17.1	13.8	20.6

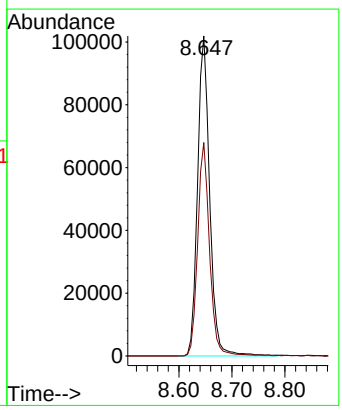


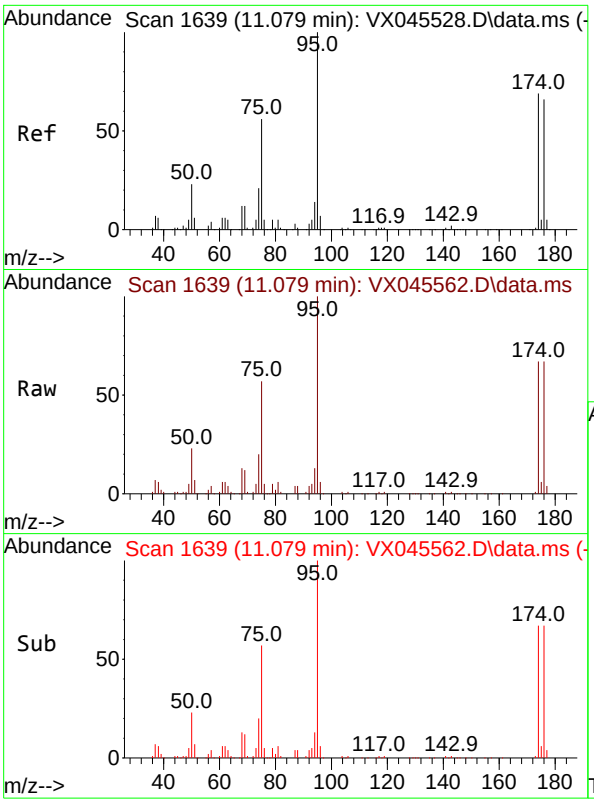


#50
Toluene-d8
Concen: 50.360 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX045562.D
Acq: 03 Apr 2025 11:45

Tgt Ion: 98 Resp: 161884

Ion	Ratio	Lower	Upper
98	100		
100	65.4	52.2	78.4



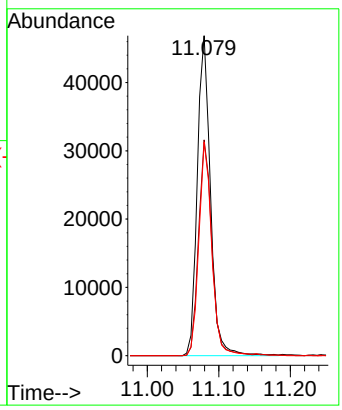


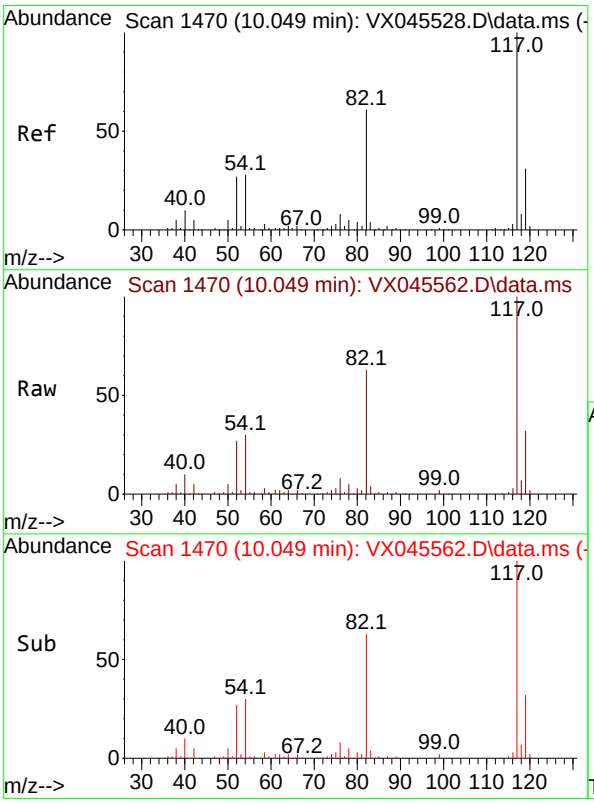
#62
4-Bromofluorobenzene
Concen: 51.143 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045562.D
Acq: 03 Apr 2025 11:45

Instrument :
MSVOA_X
ClientSampleId :
TB-01-040125

Tgt Ion: 95 Resp: 59883

Ion	Ratio	Lower	Upper
95	100		
174	68.8	0.0	135.8
176	65.7	0.0	131.4

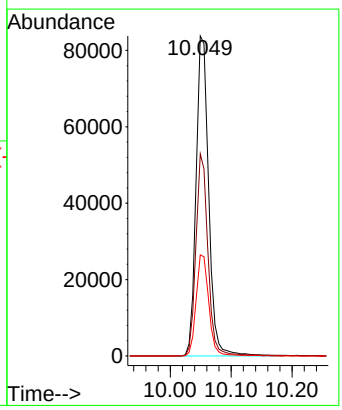


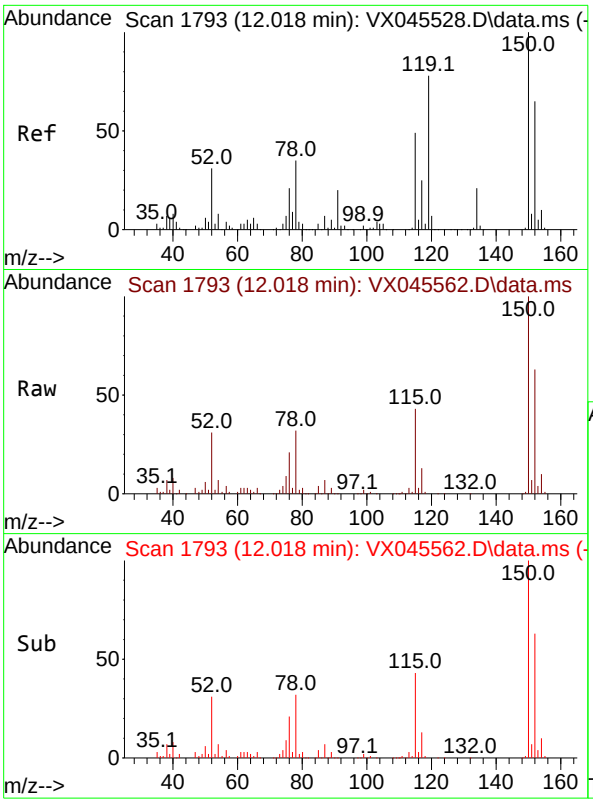


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX045562.D
Acq: 03 Apr 2025 11:45

Tgt Ion:117 Resp: 120558

Ion	Ratio	Lower	Upper
117	100		
82	63.2	49.2	73.8
119	31.6	25.1	37.7



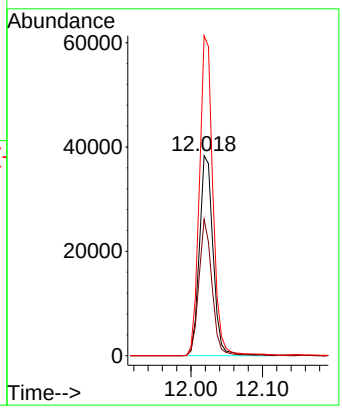


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045562.D
Acq: 03 Apr 2025 11:45

Instrument :
MSVOA_X
ClientSampleId :
TB-01-040125

Tgt Ion:152 Resp: 51137

Ion	Ratio	Lower	Upper
152	100		
115	64.8	46.9	140.7
150	157.3	0.0	349.4



CALIBRATION SUMMARY

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.: Q1697 SAS No.: Q1697 SDG No.: Q1697

Instrument ID: MSVOA_X Calibration Date(s): 04/01/2025 04/01/2025

Heated Purge: (Y/N) N Calibration Time(s): 17:06 19:02

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

LAB FILE ID: RRF001 = VX045525.D RRF005 = VX045526.D RRF020 = VX045527.D
RRF050 = VX045528.D RRF100 = VX045529.D RRF150 = VX045530.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Vinyl Chloride	0.671	0.662	0.701	0.716	0.738	0.730	0.703	4.4
1,1-Dichloroethene	0.563	0.588	0.612	0.604	0.618	0.616	0.600	3.5
1,1-Dichloroethane	1.211	1.240	1.318	1.269	1.283	1.292	1.269	3
cis-1,2-Dichloroethene	0.762	0.696	0.760	0.751	0.754	0.760	0.747	3.4
1,1,1-Trichloroethane	1.028	1.052	1.120	1.109	1.153	1.167	1.105	5
Benzene	1.414	1.416	1.519	1.481	1.483	1.465	1.463	2.8
1,2-Dichloroethane	0.533	0.585	0.649	0.622	0.620	0.617	0.604	6.7
Trichloroethene	0.349	0.322	0.356	0.351	0.351	0.356	0.348	3.7
1,1,2-Trichloroethane	0.337	0.346	0.376	0.359	0.358	0.340	0.353	4.1
Tetrachloroethene	0.346	0.373	0.371	0.347	0.333	0.347	0.353	4.5
1,2-Dichloroethane-d4		0.962	0.900	0.868	0.904	0.937	0.914	3.9
Dibromofluoromethane		0.372	0.342	0.345	0.353	0.362	0.355	3.5
Toluene-d8		1.257	1.233	1.214	1.230	1.257	1.238	1.5
4-Bromofluorobenzene		0.413	0.448	0.453	0.481	0.460	0.451	5.5

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

Response Factor Report MSVOA_X2

Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\
Method File : 82X040225W.M
Title : SW846 8260
Last Update : Wed Apr 02 03:11:43 2025
Response Via : Initial Calibration

Calibration Files
1 =VX045525.D 5 =VX045526.D 20 =VX045527.D 50 =VX045528.D 100 =VX045529.D 150 =VX045530.D

		Compound	1	5	20	50	100	150	Avg	%RSD
1)	I	Pentafluorobenzene	----------ISTD----------							
2)	T	Dichlorodifluo...	0.615	0.695	0.700	0.820	0.837	0.820	0.748	12.13
3)	P	Chloromethane	0.764	0.734	0.777	0.784	0.815	0.734	0.768	4.05
4)	C	Vinyl Chloride	0.671	0.662	0.701	0.716	0.738	0.730	0.703	4.43#
5)	T	Bromomethane		0.342	0.327	0.330	0.341	0.327	0.333	2.20
6)	T	Chloroethane	0.378	0.397	0.390	0.398	0.355	0.319	0.373	8.27
7)	T	Trichlorofluor...	1.051	0.999	1.075	1.086	1.089	0.989	1.048	4.22
8)	T	Diethyl Ether	0.345	0.340	0.356	0.355	0.358	0.357	0.352	2.11
9)	T	1,1,2-Trichlor...	0.575	0.599	0.635	0.621	0.621	0.634	0.614	3.74
10)	T	Methyl Iodide		0.705	0.789	0.799	0.788	0.750	0.766	5.08
11)	T	Tert butyl alc...		0.111	0.124	0.127	0.128	0.124	0.123	5.44
12)	CM	1,1-Dichloroet...	0.563	0.588	0.612	0.604	0.618	0.616	0.600	3.51#
13)	T	Acrolein		0.176	0.161	0.167	0.170	0.172	0.169	3.41
14)	T	Allyl chloride	1.092	1.068	1.142	1.172	1.199	1.160	1.139	4.36
15)	T	Acrylonitrile	0.356	0.382	0.413	0.407	0.394	0.376	0.388	5.38
16)	T	Acetone	0.400	0.369	0.387	0.378	0.365	0.355	0.375	4.28
17)	T	Carbon Disulfide	1.334	1.327	1.434	1.553	1.604	1.642	1.483	9.24
18)	T	Methyl Acetate	0.901	0.863	0.864	0.857	0.855	0.846	0.864	2.22
19)	T	Methyl tert-bu...	1.915	1.964	2.169	2.118	2.217	2.216	2.100	6.20
20)	T	Methylene Chlo...	0.692	0.695	0.726	0.709	0.705	0.690	0.703	1.96
21)	T	trans-1,2-Dich...	0.574	0.594	0.636	0.624	0.621	0.630	0.613	3.94
22)	T	Diisopropyl ether	2.003	2.120	2.329	2.293	2.359	2.357	2.243	6.59
23)	T	Vinyl Acetate	1.542	1.693	2.005	2.087	2.147	2.156	1.938	13.34
24)	P	1,1-Dichloroet...	1.211	1.240	1.318	1.269	1.283	1.292	1.269	3.01
25)	T	2-Butanone	0.474	0.537	0.582	0.586	0.571	0.548	0.550	7.55
26)	T	2,2-Dichloropr...	0.676	0.757	0.802	0.847	0.903	0.933	0.820	11.67
27)	T	cis-1,2-Dichlo...	0.762	0.696	0.760	0.751	0.754	0.760	0.747	3.43
28)	T	Bromochloromet...	0.671	0.608	0.617	0.596	0.610	0.576	0.613	5.18
29)	T	Tetrahydrofuran	0.339	0.341	0.371	0.371	0.364	0.352	0.356	4.05
30)	C	Chloroform	1.244	1.309	1.348	1.315	1.309	1.309	1.306	2.60#
31)	T	Cyclohexane		1.044	1.148	1.123	1.145	1.149	1.122	4.00
32)	T	1,1,1-Trichlor...	1.028	1.052	1.120	1.109	1.153	1.167	1.105	4.96
33)	S	1,2-Dichloroet...		0.962	0.900	0.868	0.904	0.937	0.914	3.94
34)	I	1,4-Difluorobenzene	----------ISTD----------							
35)	S	Dibromofluorom...		0.372	0.342	0.345	0.353	0.362	0.355	3.48
36)	T	1,1-Dichloropr...	0.477	0.443	0.474	0.485	0.496	0.499	0.479	4.26
37)	T	Ethyl Acetate	0.582	0.565	0.609	0.623	0.629	0.614	0.604	4.15
38)	T	Carbon Tetrach...	0.450	0.497	0.521	0.536	0.545	0.556	0.518	7.49
39)	T	Methylcyclohexane	0.519	0.527	0.596	0.622	0.628	0.632	0.587	8.76
40)	TM	Benzene	1.414	1.416	1.519	1.481	1.483	1.465	1.463	2.81
41)	T	Methacrylonitrile	0.252	0.276	0.338	0.351	0.350	0.343	0.318	13.52
42)	TM	1,2-Dichloroet...	0.533	0.585	0.649	0.622	0.620	0.617	0.604	6.72
43)	T	Isopropyl Acetate	0.735	0.831	0.952	0.978	1.002	0.991	0.915	11.77
44)	TM	Trichloroethene	0.349	0.322	0.356	0.351	0.351	0.356	0.348	3.67
45)	C	1,2-Dichloropr...	0.309	0.365	0.388	0.376	0.379	0.374	0.365	7.83#
46)	T	Dibromomethane	0.237	0.287	0.297	0.292	0.286	0.282	0.280	7.76
47)	T	Bromodichlorom...	0.521	0.519	0.576	0.571	0.587	0.583	0.560	5.56
48)	T	Methyl methacr...	0.405	0.416	0.486	0.508	0.518	0.502	0.472	10.44
49)	T	1,4-Dioxane	0.007	0.010	0.009	0.009	0.009	0.008	0.009	13.93
50)	S	Toluene-d8		1.257	1.233	1.214	1.230	1.257	1.238	1.50
51)	T	4-Methyl-2-Pen...	0.499	0.578	0.661	0.663	0.647	0.589	0.606	10.57
52)	CM	Toluene	0.817	0.866	0.939	0.910	0.905	0.875	0.885	4.79#
53)	T	t-1,3-Dichloro...	0.316	0.400	0.465	0.508	0.555	0.558	0.467	20.27
54)	T	cis-1,3-Dichlo...	0.371	0.474	0.546	0.568	0.597	0.600	0.526	16.88
55)	T	1,1,2-Trichlor...	0.337	0.346	0.376	0.359	0.358	0.340	0.353	4.11
56)	T	Ethyl methacry...	0.407	0.482	0.562	0.600	0.629	0.595	0.546	15.54

Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\
Method File : 82X040225W.M

57)	T	1,3-Dichloropr...	0.555	0.614	0.652	0.633	0.630	0.601	0.614	5.49
58)	T	2-Chloroethyl ...	0.221	0.257	0.286	0.298	0.301	0.293	0.276	11.26
59)	T	2-Hexanone	0.363	0.429	0.488	0.492	0.484	0.439	0.449	11.14
60)	T	Dibromochlorom...	0.313	0.352	0.404	0.412	0.421	0.405	0.385	11.06
61)	T	1,2-Dibromoethane	0.294	0.351	0.380	0.373	0.380	0.364	0.357	9.12
62)	S	4-Bromofluorob...		0.413	0.448	0.453	0.481	0.460	0.451	5.45
63)	I	Chlorobenzene-d5	----------ISTD----------							
64)	T	Tetrachloroethene	0.346	0.373	0.371	0.347	0.333	0.347	0.353	4.47
65)	PM	Chlorobenzene	0.951	1.054	1.123	1.084	1.086	1.112	1.068	5.83
66)	T	1,1,1,2-Tetrac...	0.368	0.344	0.372	0.373	0.379	0.390	0.371	4.18
67)	C	Ethyl Benzene	1.608	1.819	2.002	2.007	1.993	2.053	1.914	8.89#
68)	T	m/p-Xylenes	0.594	0.669	0.732	0.728	0.723	0.729	0.696	7.92
69)	T	o-Xylene	0.562	0.676	0.725	0.719	0.716	0.714	0.686	9.17
70)	T	Styrene	0.897	1.043	1.202	1.216	1.230	1.202	1.132	11.82
71)	P	Bromoform	0.220	0.252	0.272	0.296	0.307	0.315	0.277	13.07
72)	I	1,4-Dichlorobenzen...	----------ISTD----------							
73)	T	Isopropylbenzene	3.581	3.850	4.224	4.181	4.043	4.151	4.005	6.17
74)	T	N-amyl acetate	1.442	1.682	1.960	2.058	2.132	2.221	1.916	15.51
75)	P	1,1,2,2-Tetrac...	1.457	1.428	1.461	1.384	1.354	1.358	1.407	3.43
76)	T	1,2,3-Trichlor...	1.221	1.257	1.251	1.225	1.192	1.171	1.220	2.71
77)	T	Bromobenzene	0.877	0.927	0.953	0.938	0.925	0.932	0.925	2.77
78)	T	n-propylbenzene	3.734	4.346	5.012	4.896	4.819	4.872	4.613	10.59
79)	T	2-Chlorotoluene	2.894	2.873	3.130	2.966	2.915	2.918	2.949	3.19
80)	T	1,3,5-Trimethy...	2.931	3.119	3.571	3.511	3.367	3.371	3.312	7.35
81)	T	trans-1,4-Dich...		0.274	0.323	0.371	0.401	0.428	0.359	17.16
82)	T	4-Chlorotoluene	2.961	3.156	3.470	3.449	3.350	3.343	3.288	5.93
83)	T	tert-Butylbenzene	2.894	3.124	3.437	3.427	3.387	3.405	3.279	6.78
84)	T	1,2,4-Trimethy...	2.906	3.129	3.529	3.523	3.438	3.420	3.324	7.57
85)	T	sec-Butylbenzene	3.195	3.828	4.316	4.300	4.232	4.292	4.027	11.12
86)	T	p-Isopropyltol...	2.734	3.157	3.515	3.524	3.506	3.484	3.320	9.63
87)	T	1,3-Dichlorobe...	1.658	1.605	1.726	1.699	1.714	1.706	1.684	2.70
88)	T	1,4-Dichlorobe...	1.671	1.724	1.768	1.703	1.674	1.706	1.708	2.09
89)	T	n-Butylbenzene	2.117	2.486	2.974	3.160	3.256	3.283	2.879	16.50
90)	T	Hexachloroethane	0.493	0.493	0.556	0.597	0.623	0.661	0.571	12.14
91)	T	1,2-Dichlorobe...	1.644	1.645	1.750	1.678	1.665	1.667	1.675	2.34
92)	T	1,2-Dibromo-3-...	0.196	0.260	0.312	0.316	0.333	0.349	0.294	19.37
93)	T	1,2,4-Trichlor...	0.727	0.844	0.948	0.947	1.045	1.083	0.932	14.07
94)	T	Hexachlorobuta...	0.379	0.389	0.401	0.404	0.415	0.422	0.402	4.03
95)	T	Naphthalene	2.544	3.070	3.630	3.722	3.867	3.982	3.469	15.93
96)	T	1,2,3-Trichlor...	0.782	0.916	0.999	1.000	1.063	1.097	0.976	11.63

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045525.D
Acq On : 01 Apr 2025 17:06
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 02 02:50:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 02:44:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.544	168	96737	50.000	ug/l		0.00
34) 1,4-Difluorobenzene	6.757	114	175266	50.000	ug/l		0.00
63) Chlorobenzene-d5	10.049	117	153312	50.000	ug/l		0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	61114	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	1.167	85	1189	0.822	ug/l		94
3) Chloromethane	1.307	50	1479	0.995	ug/l	#	86
4) Vinyl Chloride	1.374	62	1299	0.955	ug/l		98
6) Chloroethane	1.673	64	732	1.014	ug/l	#	67
7) Trichlorofluoromethane	1.880	101	2034	1.003	ug/l		93
8) Diethyl Ether	2.130	74	668	0.981	ug/l		83
9) 1,1,2-Trichlorotrifluo...	2.325	101	1113	0.936	ug/l		94
12) 1,1-Dichloroethene	2.313	96	1090	0.939	ug/l		95
14) Allyl chloride	2.660	41	2113	0.959	ug/l		93
15) Acrylonitrile	3.075	53	3446	4.592	ug/l		95
16) Acetone	2.380	43	3867	5.323	ug/l		98
17) Carbon Disulfide	2.508	76	2580	0.899	ug/l	#	95
18) Methyl Acetate	2.703	43	1744	1.043	ug/l		91
19) Methyl tert-butyl Ether	3.117	73	3705	0.912	ug/l		92
20) Methylene Chloride	2.782	84	1338	0.984	ug/l		91
21) trans-1,2-Dichloroethene	3.087	96	1111	0.936	ug/l	#	93
22) Diisopropyl ether	3.758	45	3875	0.893	ug/l	#	59
23) Vinyl Acetate	3.727	43	14921	3.979	ug/l		95
24) 1,1-Dichloroethane	3.611	63	2343	0.954	ug/l	#	90
25) 2-Butanone	4.581	43	4590	4.317	ug/l		92
26) 2,2-Dichloropropane	4.471	77	1307	0.824	ug/l		85
27) cis-1,2-Dichloroethene	4.495	96	1475	1.020	ug/l		80
28) Bromochloromethane	4.891	49	1298	1.094	ug/l	#	97
29) Tetrahydrofuran	5.032	42	3276	4.752	ug/l		97
30) Chloroform	5.093	83	2406	0.953	ug/l		84
32) 1,1,1-Trichloroethane	5.385	97	1989	0.931	ug/l	#	53
36) 1,1-Dichloropropene	5.696	75	1671	0.995	ug/l	#	89
37) Ethyl Acetate	4.751	43	2040	0.964	ug/l	#	76
38) Carbon Tetrachloride	5.672	117	1578	0.870	ug/l	#	91
39) Methylcyclohexane	7.379	83	1818	0.883	ug/l	#	89
40) Benzene	6.038	78	4957	0.967	ug/l		97
41) Methacrylonitrile	4.952	41	883m	0.784	ug/l		
42) 1,2-Dichloroethane	6.092	62	1867	0.882	ug/l		86
43) Isopropyl Acetate	6.361	43	2578	0.804	ug/l	#	86
44) Trichloroethene	7.123	130	1224	1.004	ug/l		87
45) 1,2-Dichloropropane	7.434	63	1082	0.846	ug/l		90

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045525.D
Acq On : 01 Apr 2025 17:06
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 02 02:50:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 02:44:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) Dibromomethane	7.592	93	831	0.846	ug/l		90
47) Bromodichloromethane	7.824	83	1827	0.931	ug/l	#	77
48) Methyl methacrylate	7.720	41	1419	0.857	ug/l		92
49) 1,4-Dioxane	7.671	88	458m	15.288	ug/l		
51) 4-Methyl-2-Pentanone	8.574	43	8746	4.114	ug/l		100
52) Toluene	8.720	92	2863	0.923	ug/l		96
53) t-1,3-Dichloropropene	8.988	75	1109	2.850	ug/l		93
54) cis-1,3-Dichloropropene	8.379	75	1300	0.705	ug/l		90
55) 1,1,2-Trichloroethane	9.159	97	1183	0.957	ug/l	#	76
56) Ethyl methacrylate	9.129	69	1425m	0.745	ug/l		
57) 1,3-Dichloropropane	9.311	76	1946	0.904	ug/l		91
58) 2-Chloroethyl Vinyl ether	8.245	63	3880	4.008	ug/l		93
59) 2-Hexanone	9.439	43	6360	4.040	ug/l		85
60) Dibromochloromethane	9.519	129	1097	0.814	ug/l		99
61) 1,2-Dibromoethane	9.610	107	1032	0.825	ug/l		96
64) Tetrachloroethene	9.269	164	1062	0.981	ug/l		92
65) Chlorobenzene	10.080	112	2916	0.890	ug/l		95
66) 1,1,1,2-Tetrachloroethane	10.159	131	1128	0.992	ug/l	#	64
67) Ethyl Benzene	10.195	91	4930	0.840	ug/l		90
68) m/p-Xylenes	10.305	106	3645	1.708	ug/l		97
69) o-Xylene	10.640	106	1724	0.820	ug/l		83
70) Styrene	10.659	104	2750	0.793	ug/l		94
71) Bromoform	10.805	173	675	0.795	ug/l	#	94
73) Isopropylbenzene	10.964	105	4377	0.894	ug/l		95
74) N-amyl acetate	10.854	43	1762	0.752	ug/l	#	93
75) 1,1,2,2-Tetrachloroethane	11.214	83	1781	1.036	ug/l		94
76) 1,2,3-Trichloropropane	11.244	75	1493m	1.002	ug/l		
77) Bromobenzene	11.201	156	1072	0.948	ug/l		95
78) n-propylbenzene	11.305	91	4564	0.809	ug/l		97
79) 2-Chlorotoluene	11.366	91	3537	0.981	ug/l		100
80) 1,3,5-Trimethylbenzene	11.451	105	3582	0.885	ug/l		100
82) 4-Chlorotoluene	11.457	91	3619	0.900	ug/l		96
83) tert-Butylbenzene	11.713	119	3537	0.883	ug/l		94
84) 1,2,4-Trimethylbenzene	11.750	105	3552	0.874	ug/l		99
85) sec-Butylbenzene	11.890	105	3905	0.793	ug/l		98
86) p-Isopropyltoluene	12.012	119	3342	0.824	ug/l		94
87) 1,3-Dichlorobenzene	11.969	146	2026	0.984	ug/l		97
88) 1,4-Dichlorobenzene	12.043	146	2042m	0.978	ug/l		
89) n-Butylbenzene	12.335	91	2587	0.735	ug/l		99
90) Hexachloroethane	12.543	117	602	0.863	ug/l		95
91) 1,2-Dichlorobenzene	12.335	146	2009	0.981	ug/l		93
92) 1,2-Dibromo-3-Chloropr...	12.945	75	239	0.665	ug/l	#	73
93) 1,2,4-Trichlorobenzene	13.591	180	888	0.779	ug/l		94
94) Hexachlorobutadiene	13.725	225	463	0.943	ug/l		90
95) Naphthalene	13.780	128	3109	0.733	ug/l		99
96) 1,2,3-Trichlorobenzene	13.969	180	956	0.801	ug/l		88

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

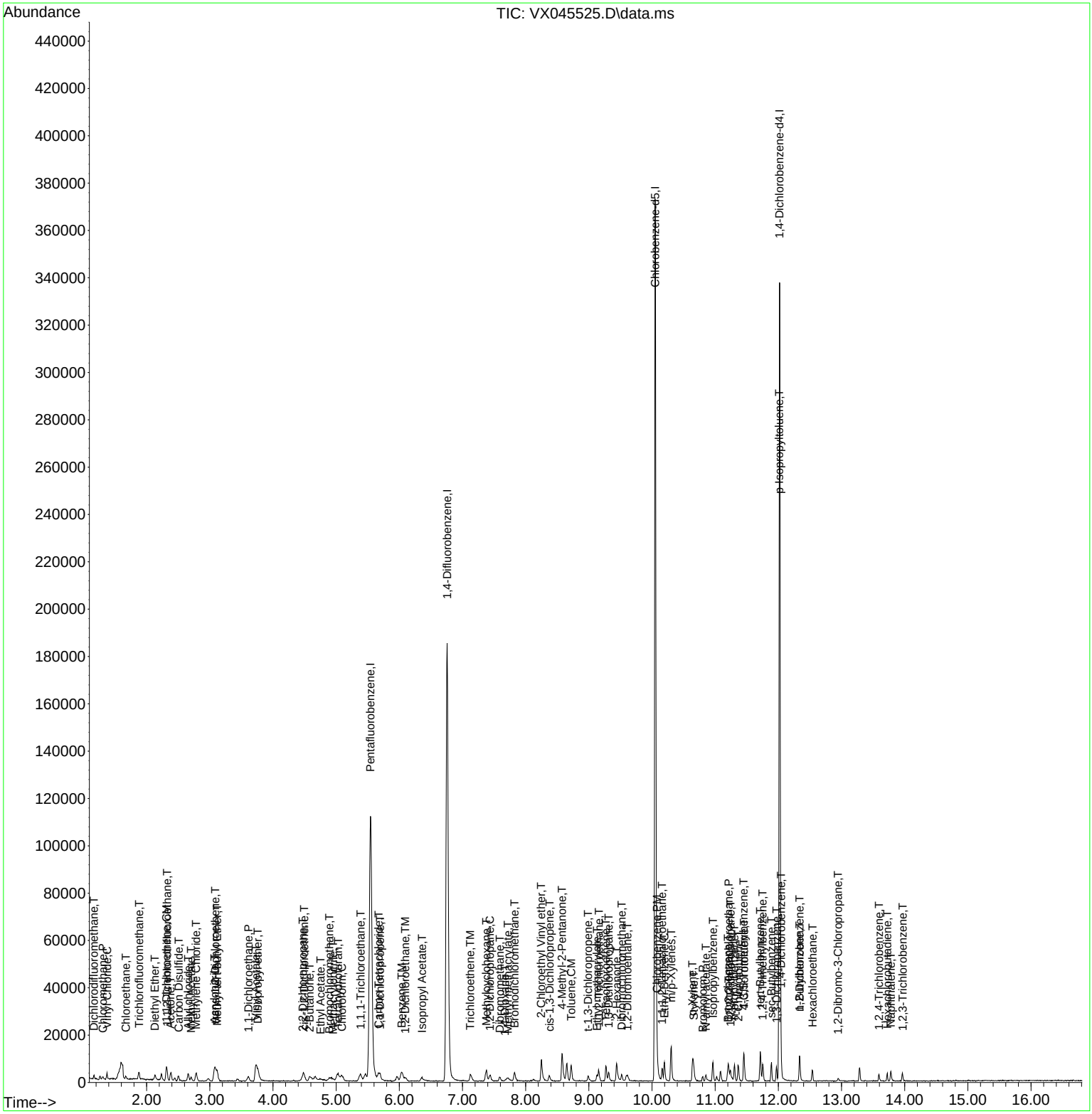
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045525.D
Acq On : 01 Apr 2025 17:06
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 3 Sample Multiplier: 1

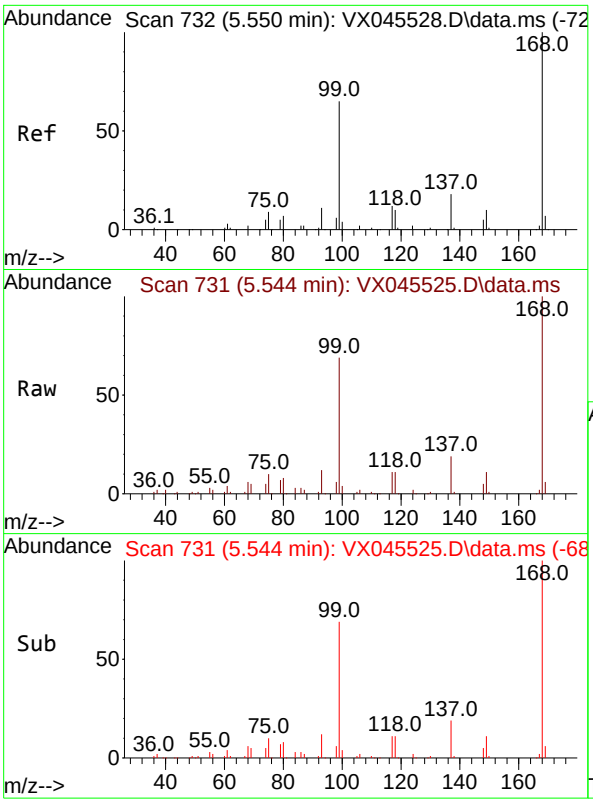
Quant Time: Apr 02 02:50:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 02:44:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

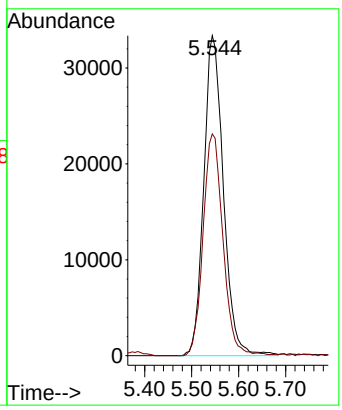




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion:168 Resp: 9673

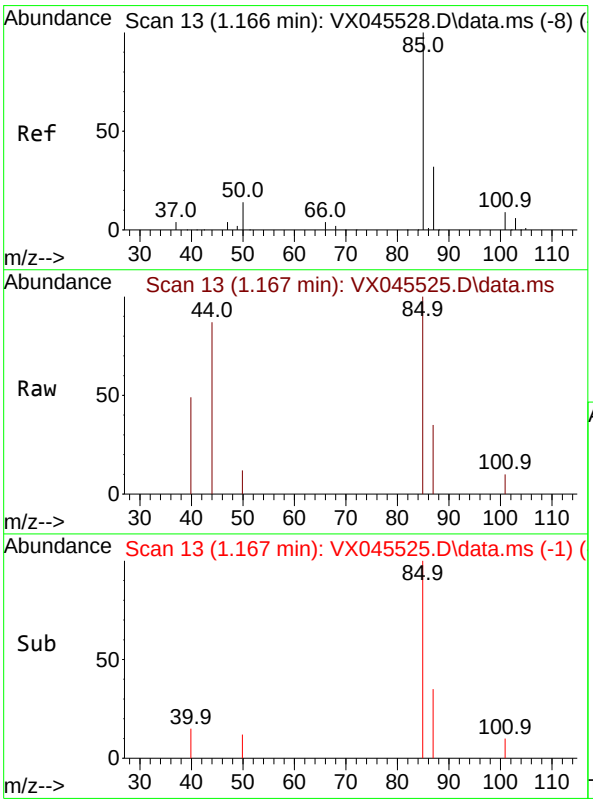
Ion	Ratio	Lower	Upper
168	100		
99	69.3	52.3	78.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

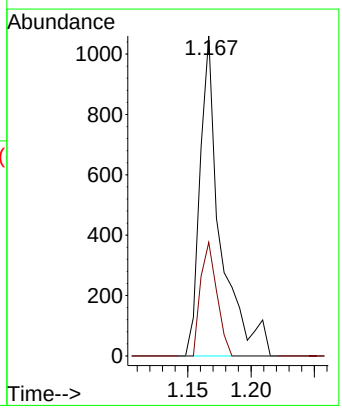
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

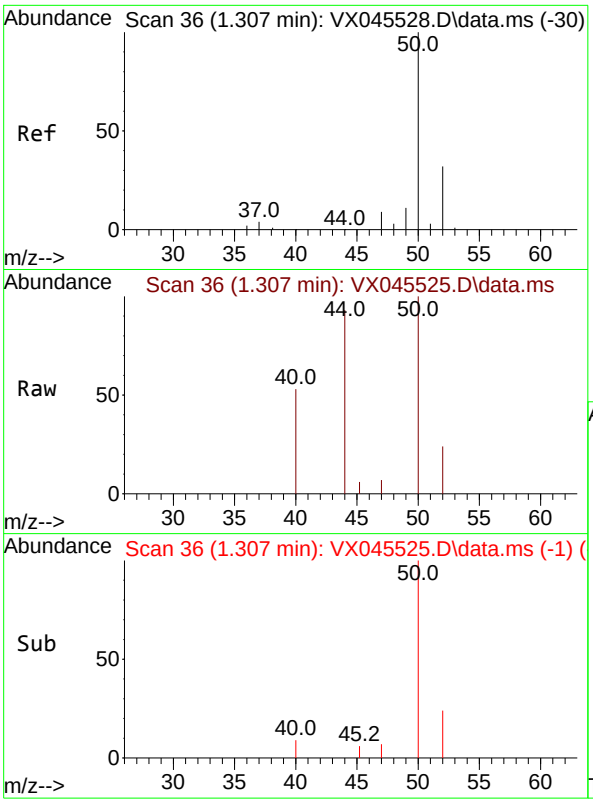


#2
Dichlorodifluoromethane
Concen: 0.822 ug/l
RT: 1.167 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion: 85 Resp: 1189

Ion	Ratio	Lower	Upper
85	100		
87	35.5	16.1	48.2

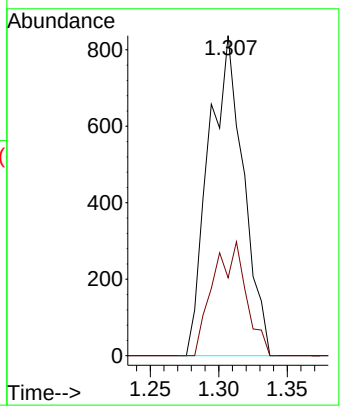




#3
Chloromethane
Concen: 0.995 ug/l
RT: 1.307 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion: 50 Resp: 147

Ion	Ratio	Lower	Upper
50	100		
52	24.4	25.9	38.9#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
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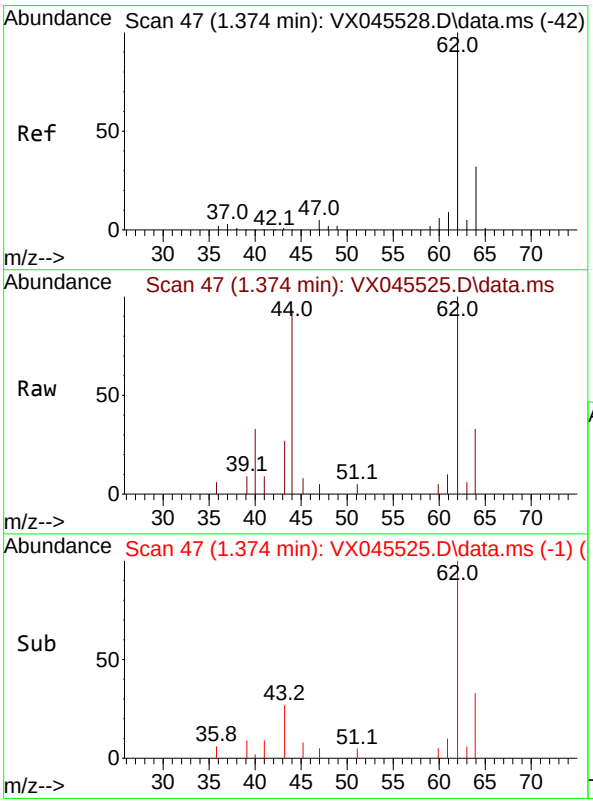
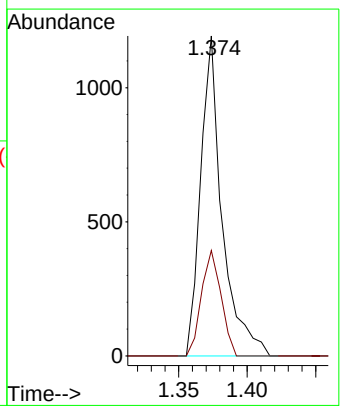
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

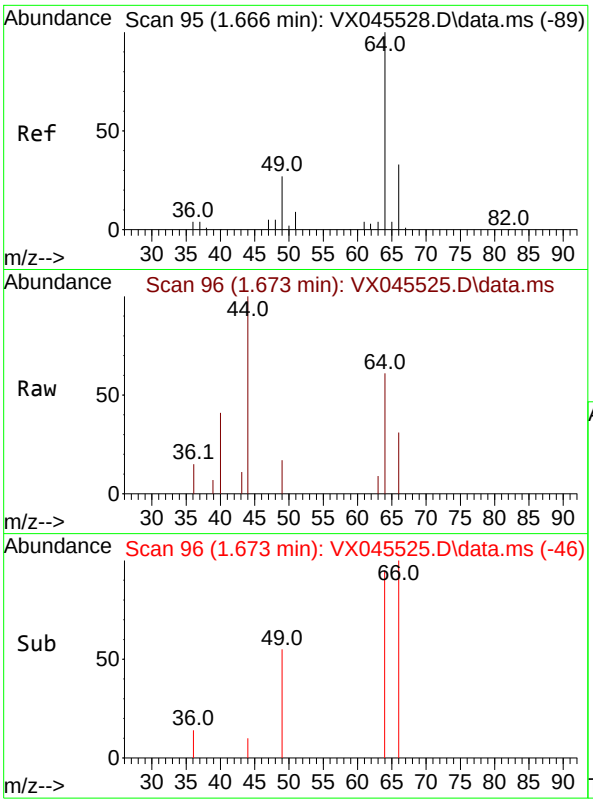


#4
Vinyl Chloride
Concen: 0.955 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion: 62 Resp: 1299

Ion	Ratio	Lower	Upper
62	100		
64	32.9	25.5	38.3

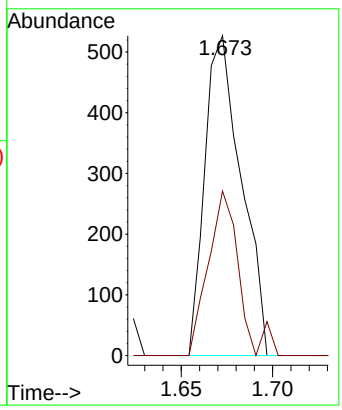




#6
Chloroethane
Concen: 1.014 ug/l
RT: 1.673 min Scan# 9
Delta R.T. 0.006 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion: 64 Resp: 73

Ion	Ratio	Lower	Upper
64	100		
66	51.4	26.3	39.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
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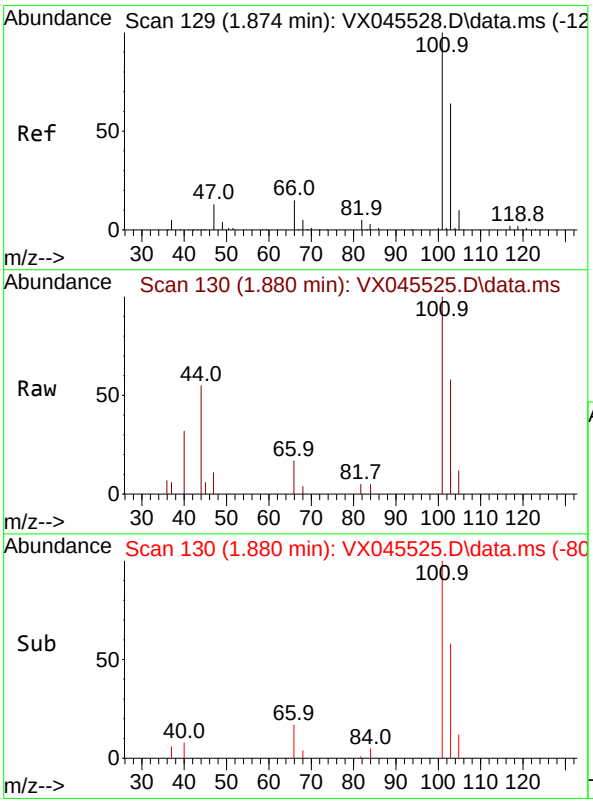
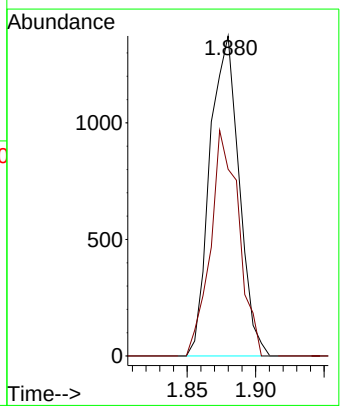
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

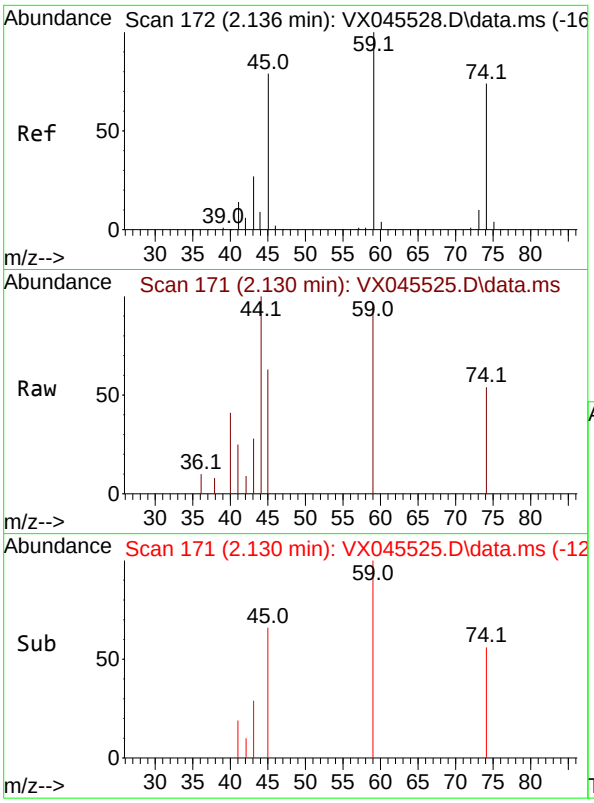


#7
Trichlorofluoromethane
Concen: 1.003 ug/l
RT: 1.880 min Scan# 130
Delta R.T. 0.006 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion:101 Resp: 2034

Ion	Ratio	Lower	Upper
101	100		
103	58.3	51.1	76.7





#8
Diethyl Ether
Concen: 0.981 ug/l
RT: 2.130 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion: 74 Resp: 66

Ion	Ratio	Lower	Upper
74	100		
45	124.1	53.0	159.1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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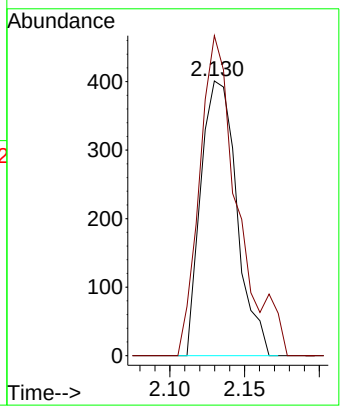
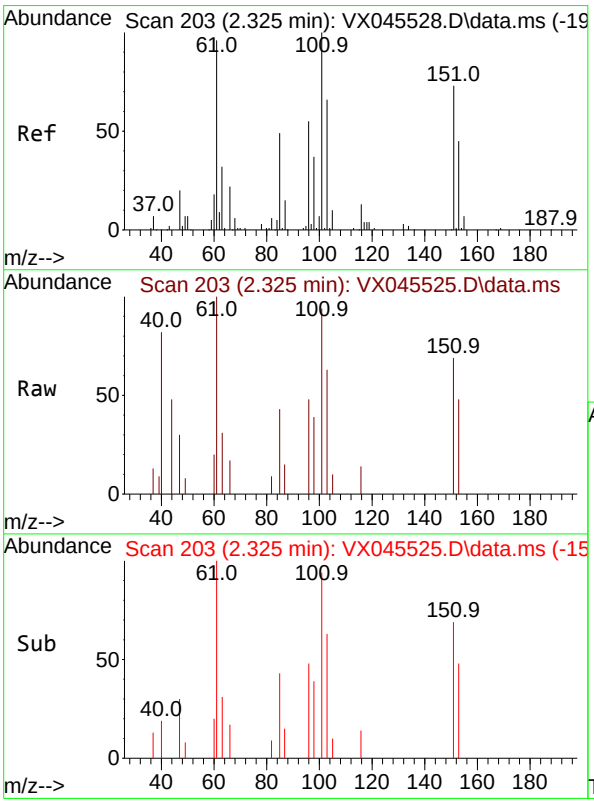
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

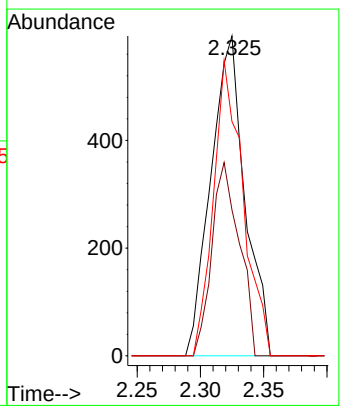


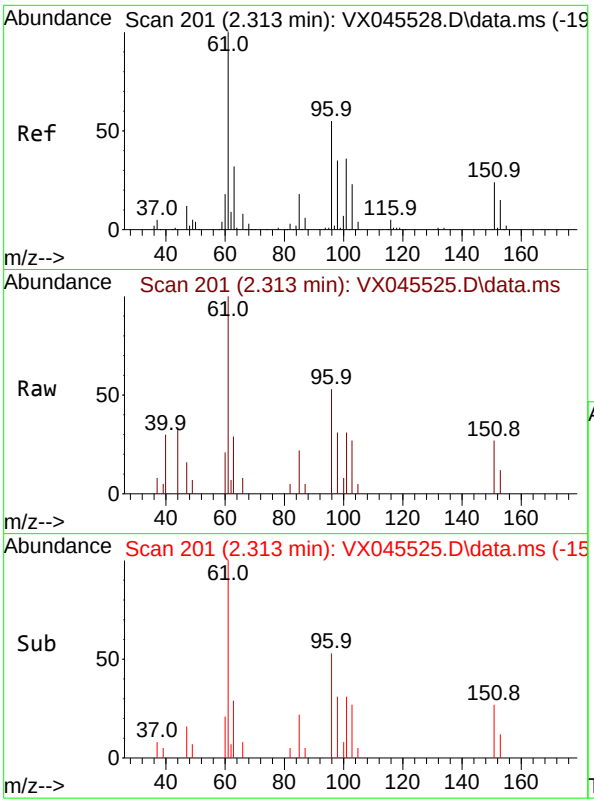


#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.936 ug/l
RT: 2.325 min Scan# 203
Delta R.T. 0.000 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion:101 Resp: 1113

Ion	Ratio	Lower	Upper
101	100		
85	48.7	38.9	58.3
151	80.3	57.5	86.3

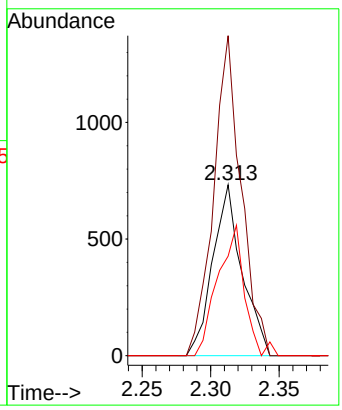




#12
1,1-Dichloroethene
Concen: 0.939 ug/l
RT: 2.313 min Scan# 2(
Delta R.T. 0.000 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion: 96 Resp: 109(

Ion	Ratio	Lower	Upper
96	100		
61	187.2	145.7	218.5
98	58.3	51.6	77.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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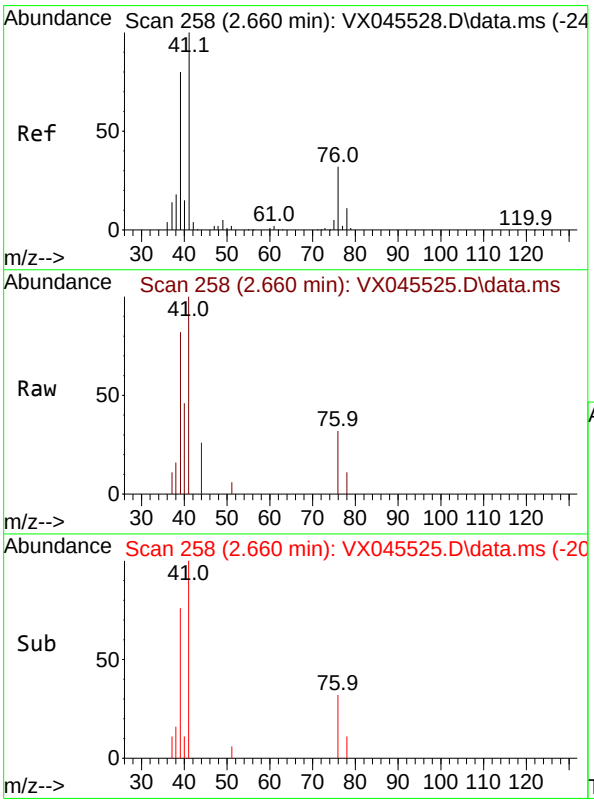
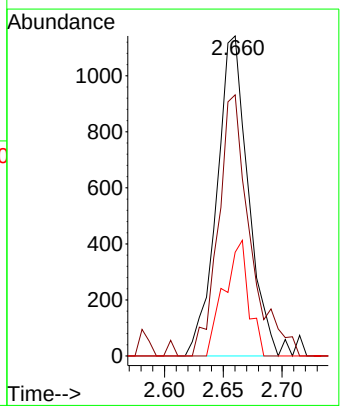
Supervised By :Mahesh Dadoda 04/02/2025

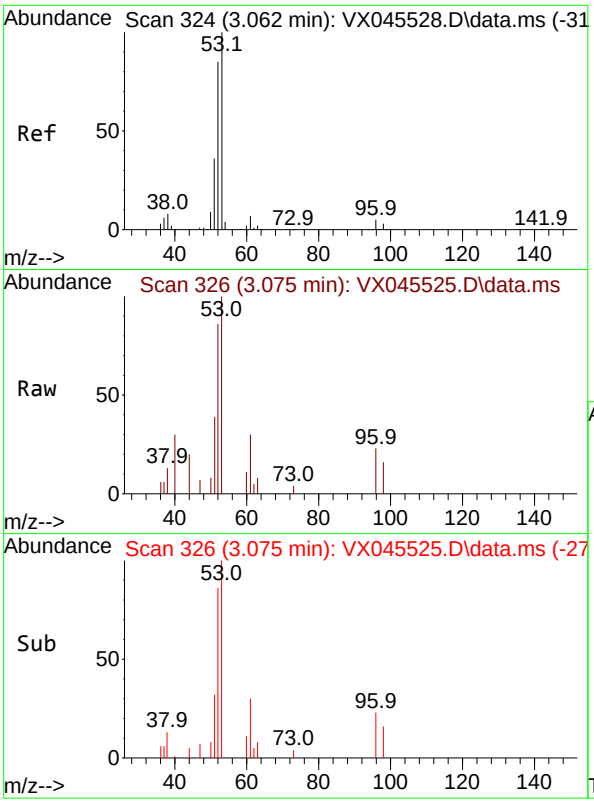


#14
Allyl chloride
Concen: 0.959 ug/l
RT: 2.660 min Scan# 258
Delta R.T. 0.000 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion: 41 Resp: 2113

Ion	Ratio	Lower	Upper
41	100		
39	82.6	60.2	90.2
76	28.3	24.6	36.8

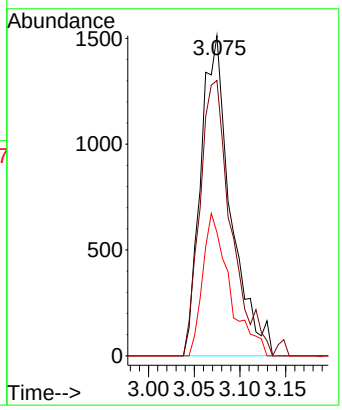




#15
Acrylonitrile
Concen: 4.592 ug/l
RT: 3.075 min Scan# 3
Delta R.T. 0.012 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion: 53 Resp: 344

Ion	Ratio	Lower	Upper
53	100		
52	89.4	67.4	101.2
51	40.1	29.9	44.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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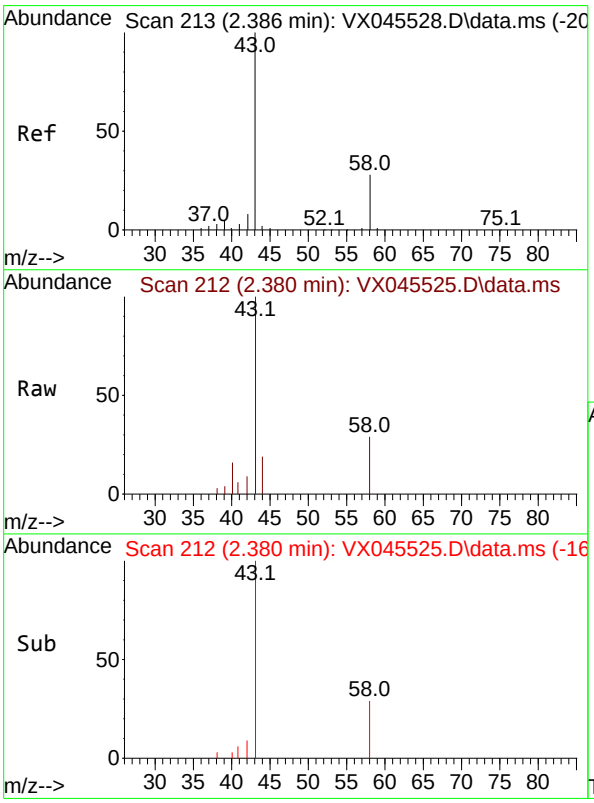
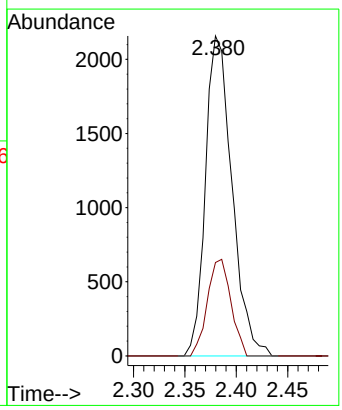
Supervised By :Mahesh Dadoda 04/02/2025

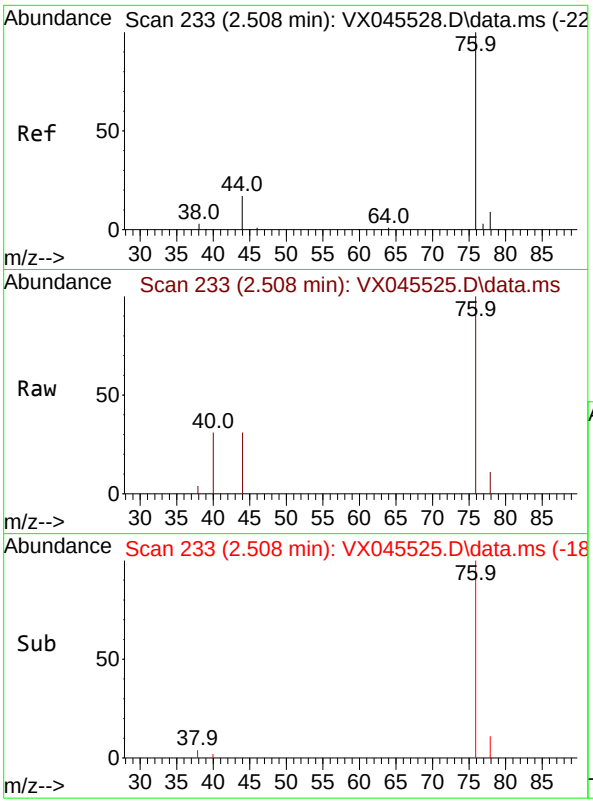


#16
Acetone
Concen: 5.323 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion: 43 Resp: 3867

Ion	Ratio	Lower	Upper
43	100		
58	29.2	22.3	33.5





#17
Carbon Disulfide
Concen: 0.899 ug/l
RT: 2.508 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion: 76 Resp: 258

Ion	Ratio	Lower	Upper
76	100		
78	10.7	7.0	10.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
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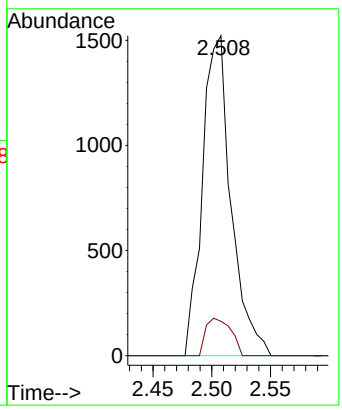
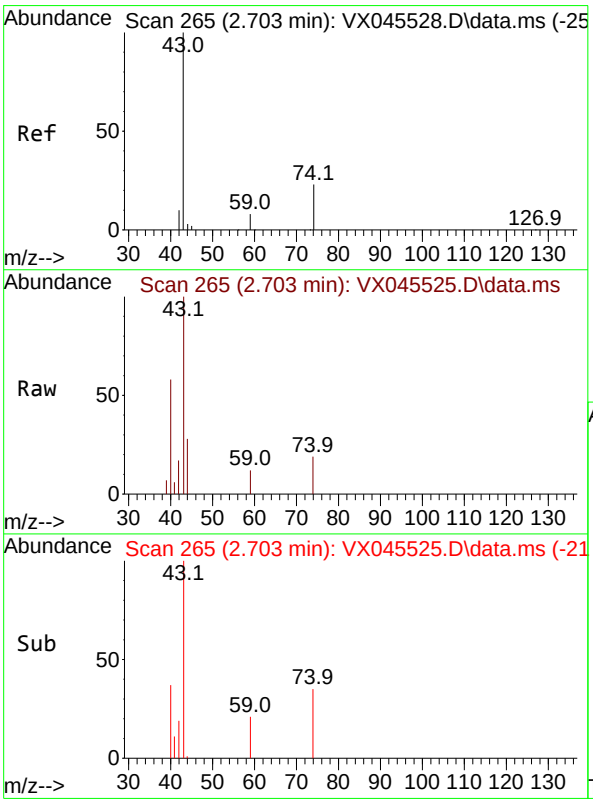
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

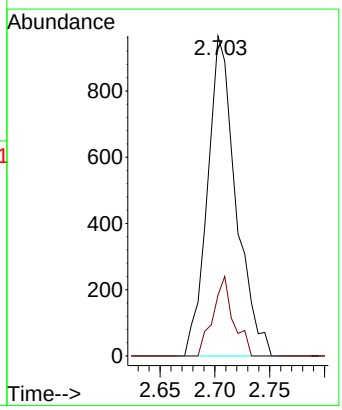


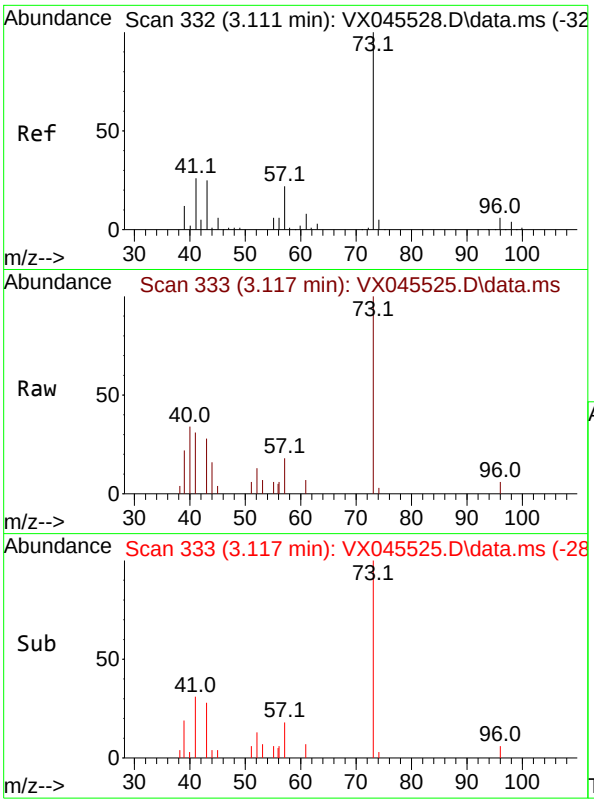


#18
Methyl Acetate
Concen: 1.043 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion: 43 Resp: 1744

Ion	Ratio	Lower	Upper
43	100		
74	17.8	17.5	26.3

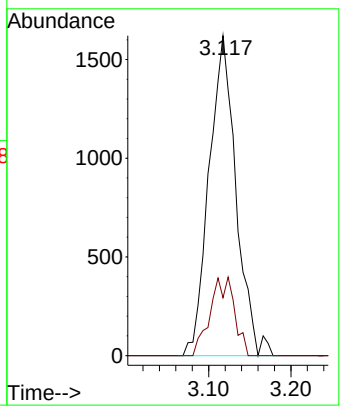




#19
Methyl tert-butyl Ether
Concen: 0.912 ug/l
RT: 3.117 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion: 73 Resp: 370

Ion	Ratio	Lower	Upper
73	100		
57	18.1	17.6	26.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
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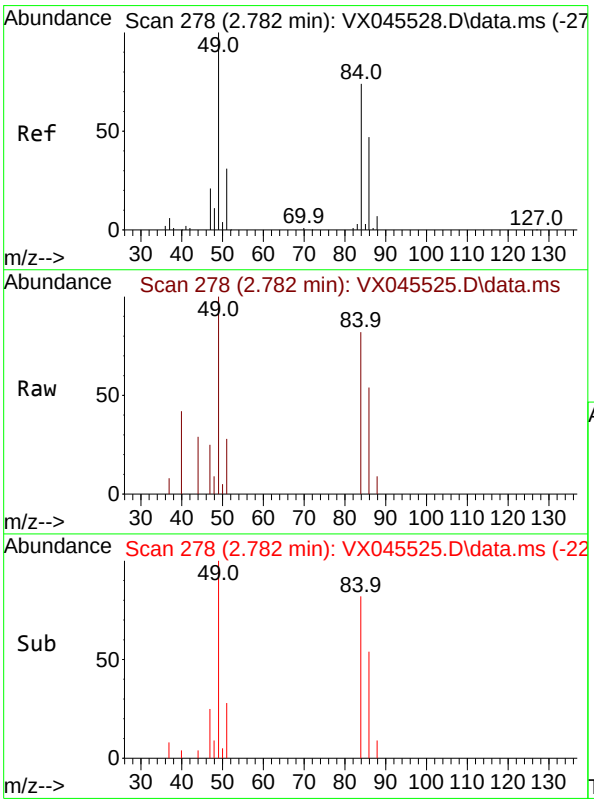
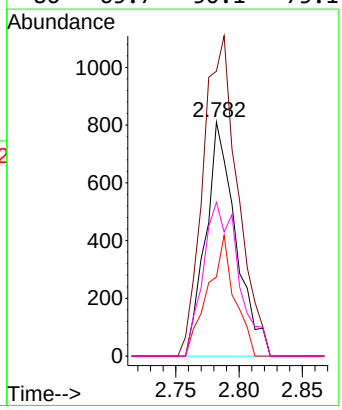
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

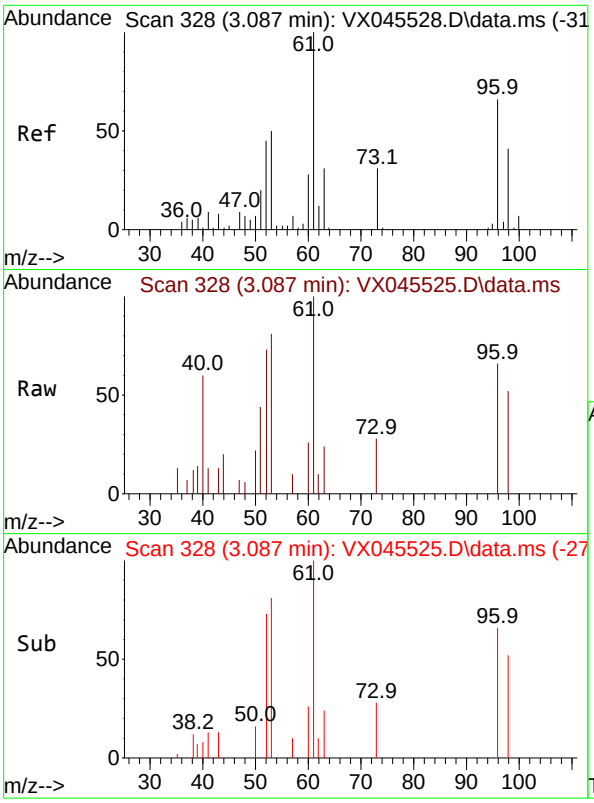


#20
Methylene Chloride
Concen: 0.984 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion: 84 Resp: 1338

Ion	Ratio	Lower	Upper
84	100		
49	121.7	107.5	161.3
51	33.8	33.0	49.6
86	65.7	50.1	75.1

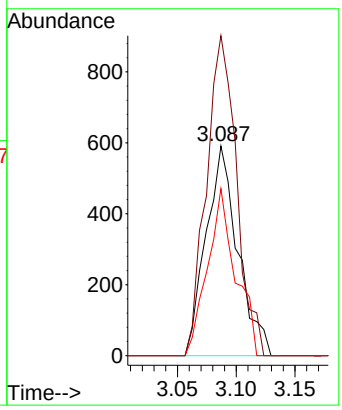




#21
trans-1,2-Dichloroethene
Concen: 0.936 ug/l
RT: 3.087 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion: 96 Resp: 111

Ion	Ratio	Lower	Upper
96	100		
61	152.6	121.0	181.6
98	79.7	49.7	74.5#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
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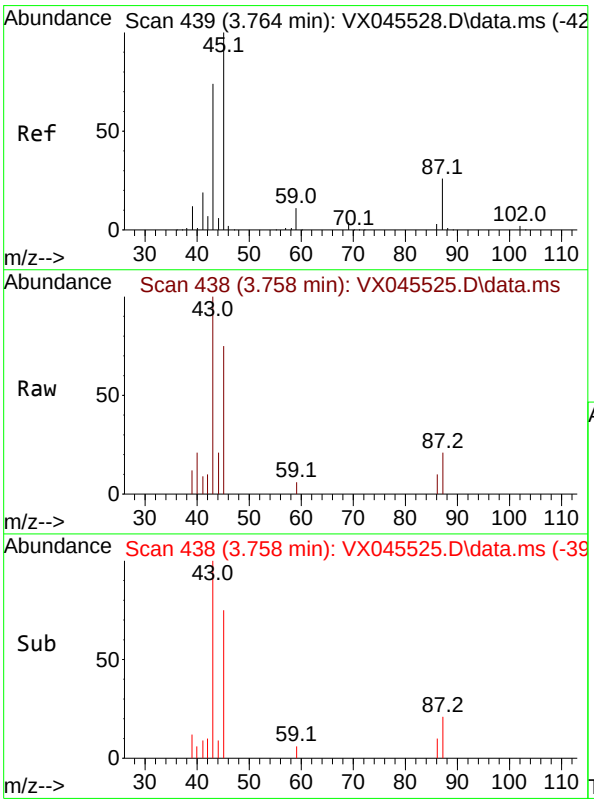
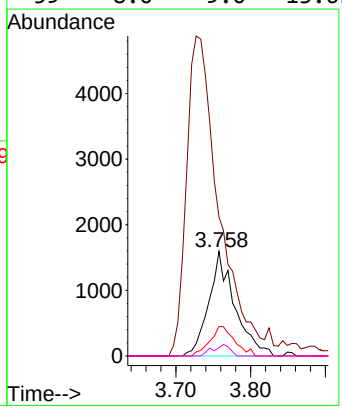
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

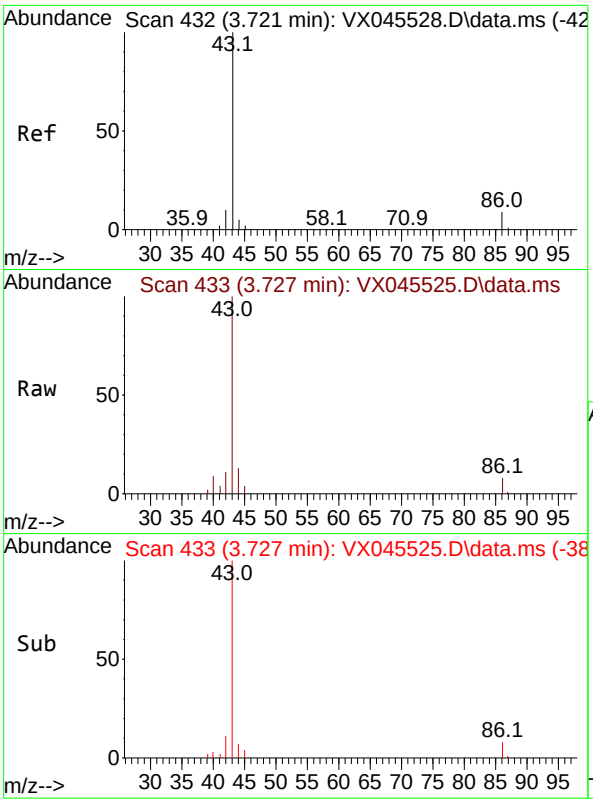


#22
Diisopropyl ether
Concen: 0.893 ug/l
RT: 3.758 min Scan# 438
Delta R.T. -0.006 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion: 45 Resp: 3875

Ion	Ratio	Lower	Upper
45	100		
43	123.5	59.3	88.9#
87	28.2	20.4	30.6
59	8.0	9.0	13.6#





#23
Vinyl Acetate
Concen: 3.979 ug/l
RT: 3.727 min Scan# 4
Delta R.T. 0.006 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion: 43 Resp: 1492

Ion	Ratio	Lower	Upper
43	100		
86	7.7	7.5	11.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
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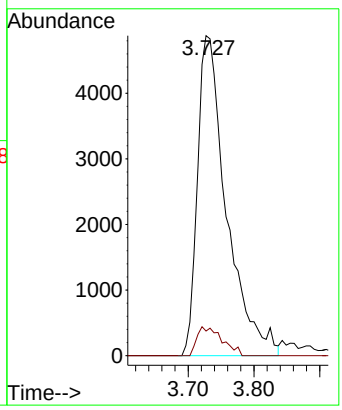
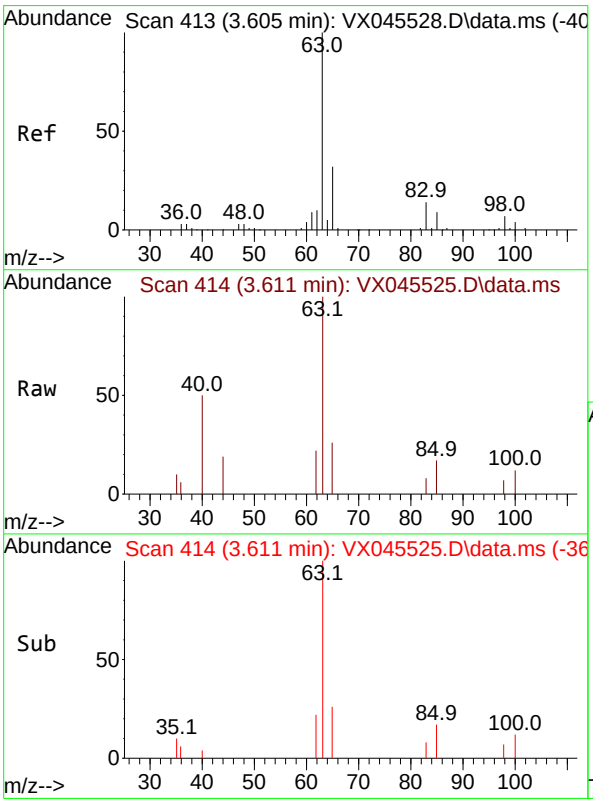
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

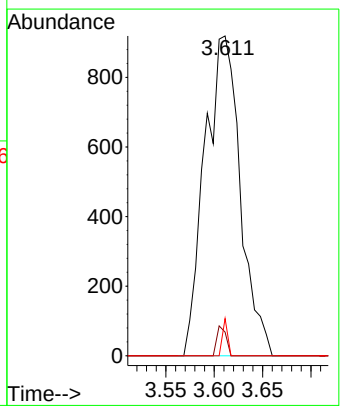


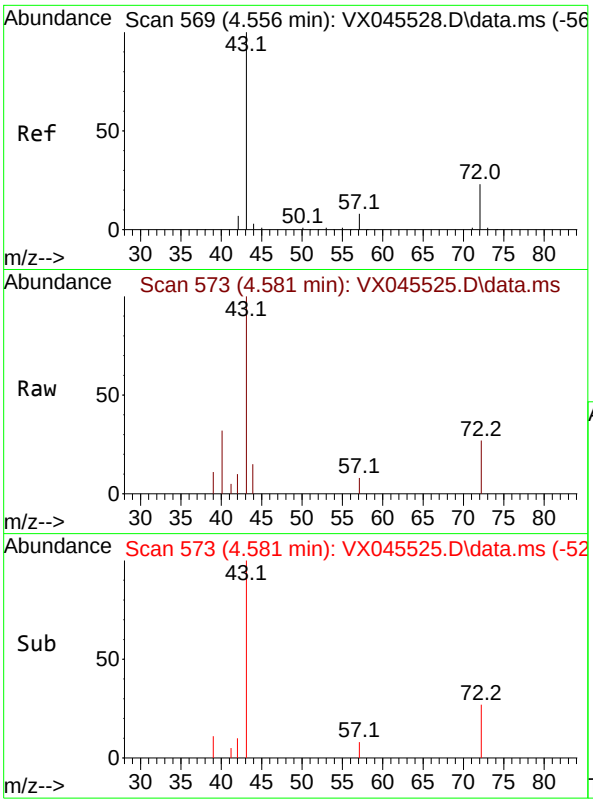


#24
1,1-Dichloroethane
Concen: 0.954 ug/l
RT: 3.611 min Scan# 414
Delta R.T. 0.006 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion: 63 Resp: 2343

Ion	Ratio	Lower	Upper
63	100		
98	7.4	3.4	10.1
100	11.6	2.2	6.6#

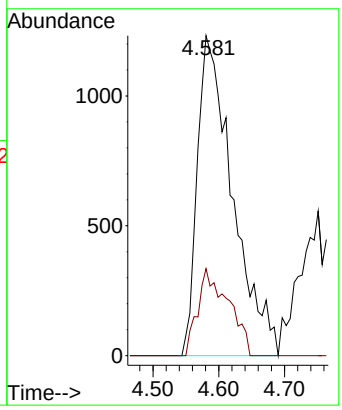




#25
2-Butanone
Concen: 4.317 ug/l
RT: 4.581 min Scan# 5
Delta R.T. 0.025 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion: 43 Resp: 459

Ion	Ratio	Lower	Upper
43	100		
72	27.2	18.6	28.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
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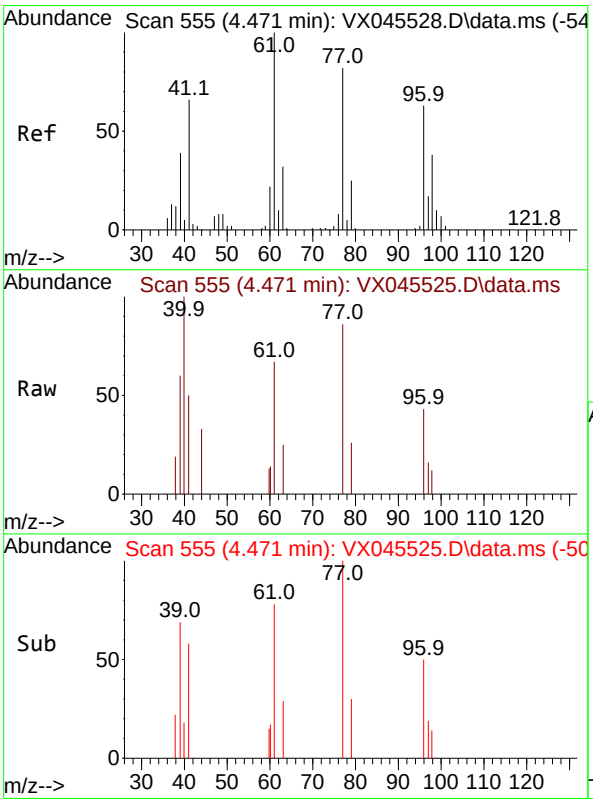
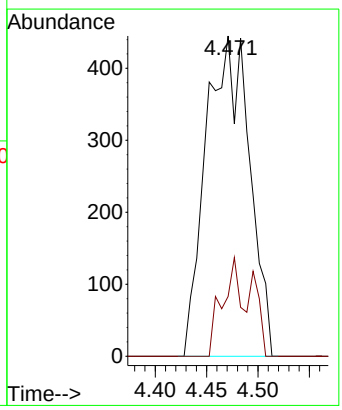
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

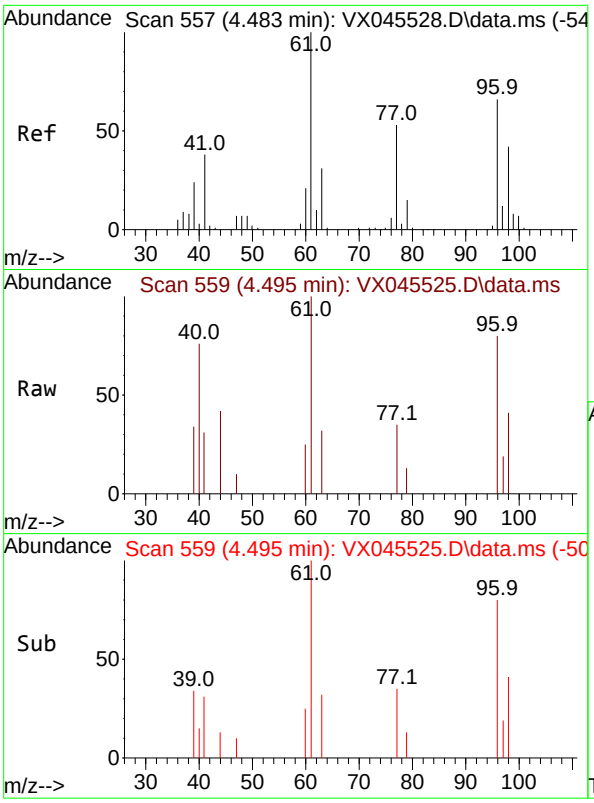


#26
2,2-Dichloropropane
Concen: 0.824 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.000 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion: 77 Resp: 1307

Ion	Ratio	Lower	Upper
77	100		
97	13.9	10.6	31.8

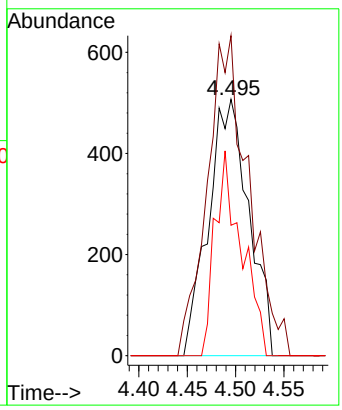




#27
cis-1,2-Dichloroethene
Concen: 1.020 ug/l
RT: 4.495 min Scan# 5
Delta R.T. 0.012 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion: 96 Resp: 147

Ion	Ratio	Lower	Upper
96	100		
61	127.7	0.0	313.2
98	52.4	0.0	126.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
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Reviewed By :Amit Patel 04/02/2025
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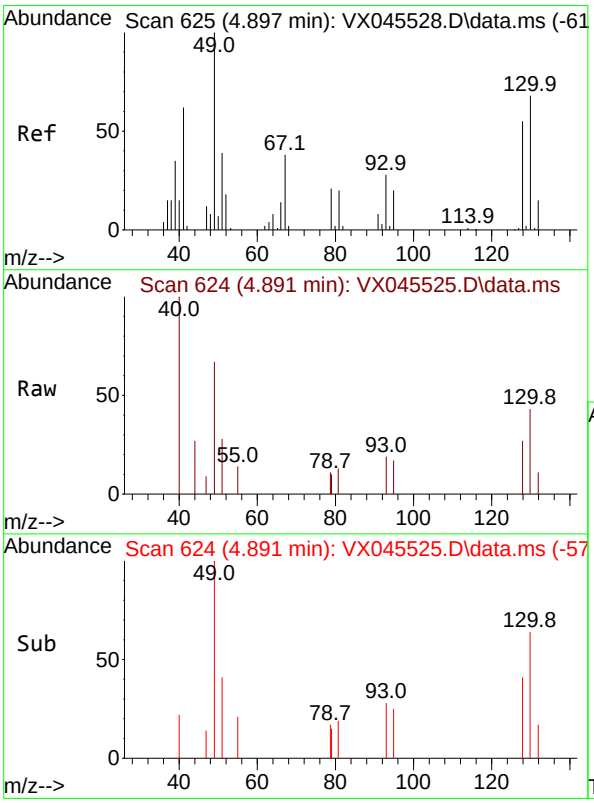
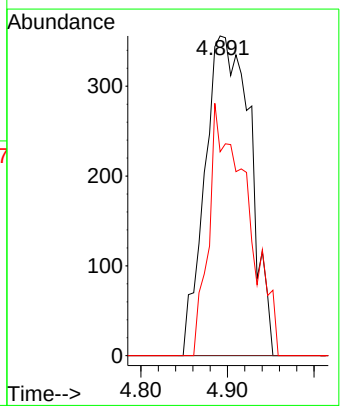
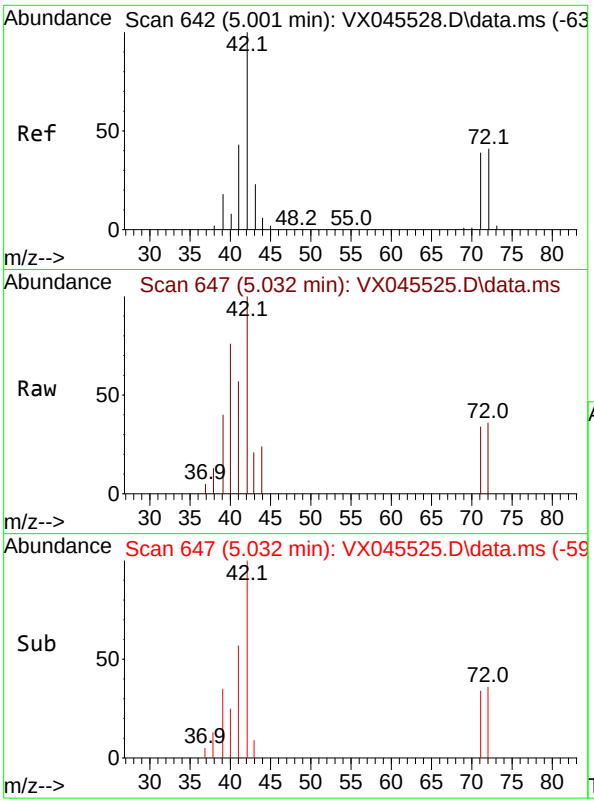


#28
Bromochloromethane
Concen: 1.094 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion: 49 Resp: 1298

Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.8
130	66.0	54.6	81.8

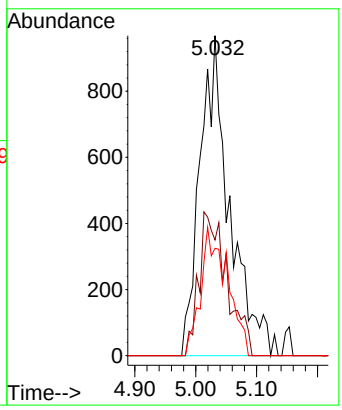




#29
Tetrahydrofuran
Concen: 4.752 ug/l
RT: 5.032 min Scan# 64
Delta R.T. 0.031 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion: 42 Resp: 327

Ion	Ratio	Lower	Upper
42	100		
72	42.3	33.4	50.0
71	36.0	31.4	47.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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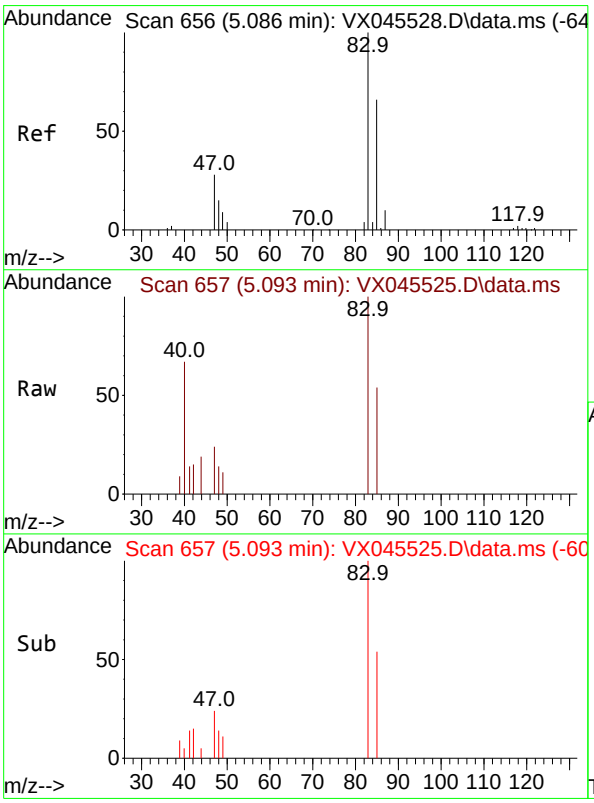
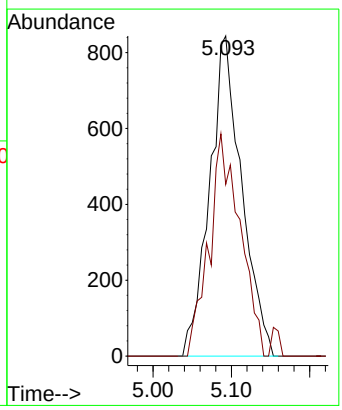
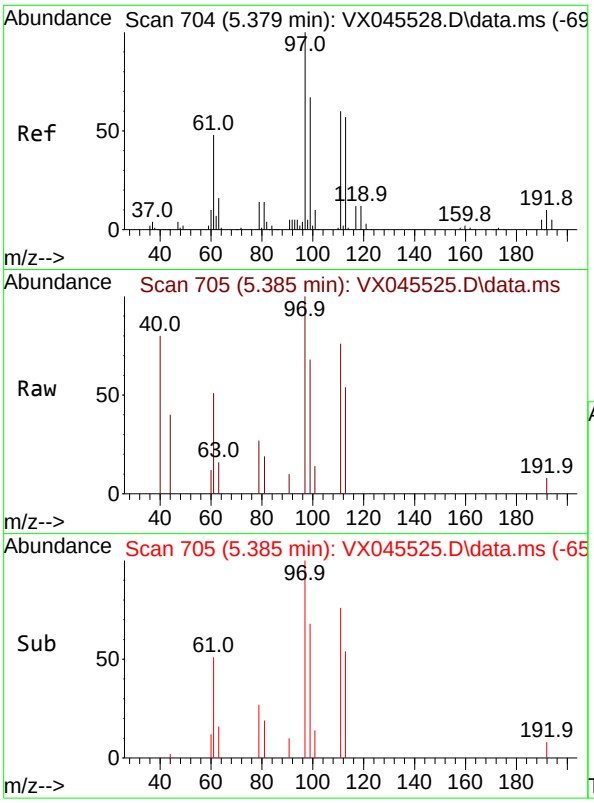


#30
Chloroform
Concen: 0.953 ug/l
RT: 5.093 min Scan# 657
Delta R.T. 0.006 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion: 83 Resp: 2406

Ion	Ratio	Lower	Upper
83	100		
85	53.7	52.8	79.2

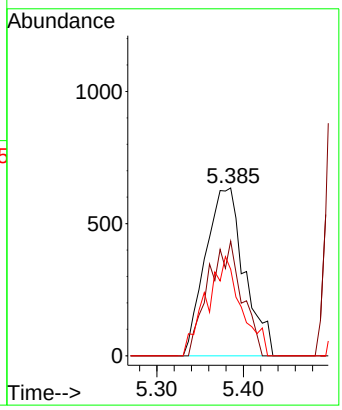




#32
1,1,1-Trichloroethane
Concen: 0.931 ug/l
RT: 5.385 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion: 97 Resp: 198

Ion	Ratio	Lower	Upper
97	100		
99	0.0	51.7	77.5#
61	52.8	41.0	61.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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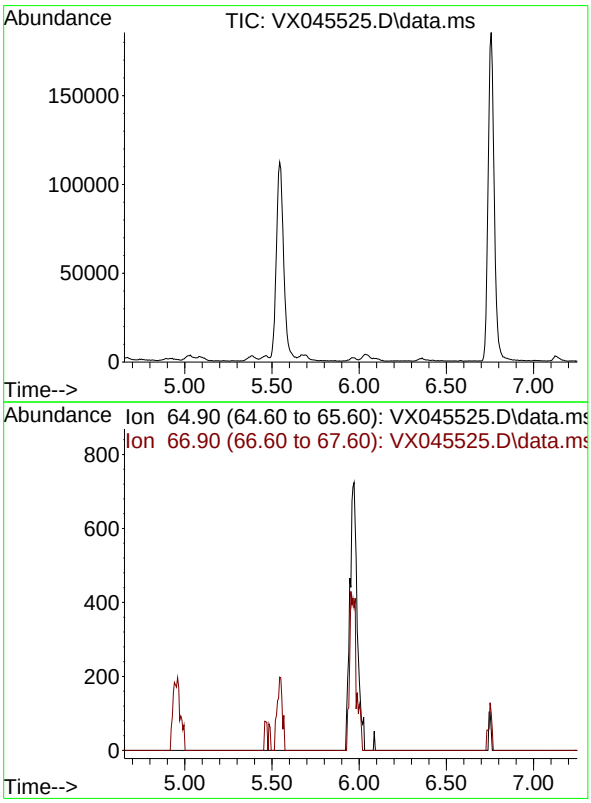
Supervised By :Mahesh Dadoda 04/02/2025

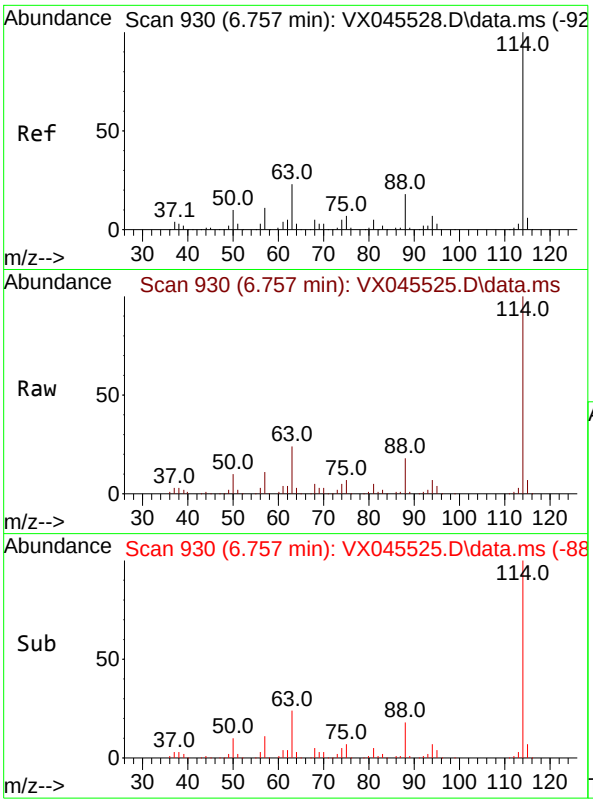


#33
1,2-Dichloroethane-d4
Concen: 0.000 ug/l
Expected RT: 5.95 min

Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion: 65

Sig	Exp Ratio
65	100
67	49.5



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 9
Delta R.T. 0.000 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion:114 Resp: 17526

Ion	Ratio	Lower	Upper
114	100		
63	24.3	0.0	46.8
88	18.1	0.0	35.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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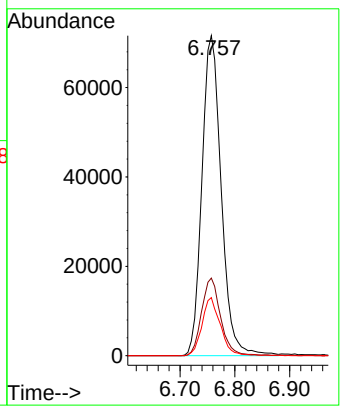
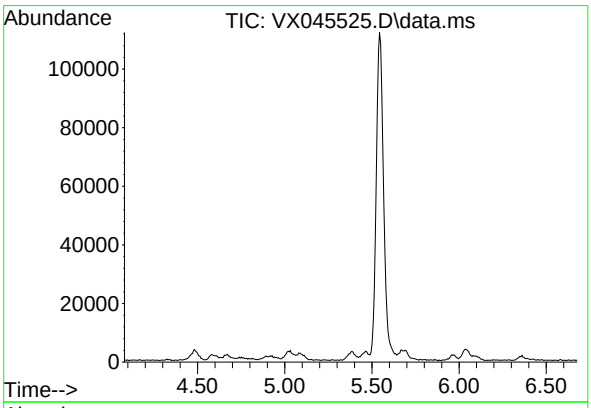
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



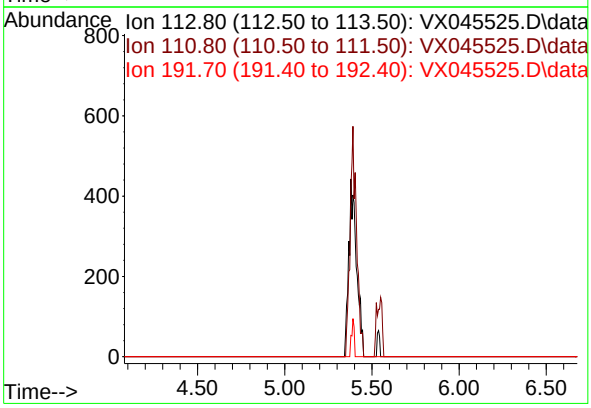


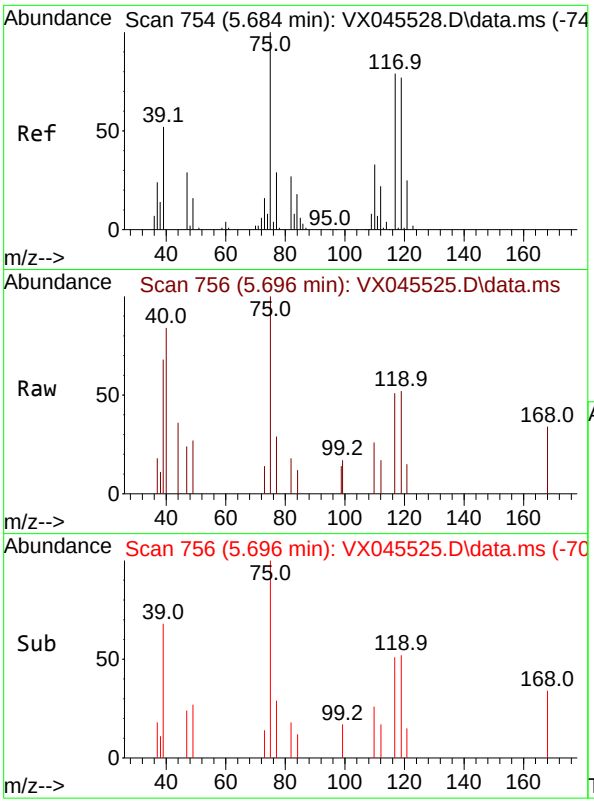
#35
Dibromofluoromethane
Concen: 0.000 ug/l
Expected RT: 5.38 min

Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion: 113

Sig	Exp Ratio
113	100
111	102.2
192	17.2

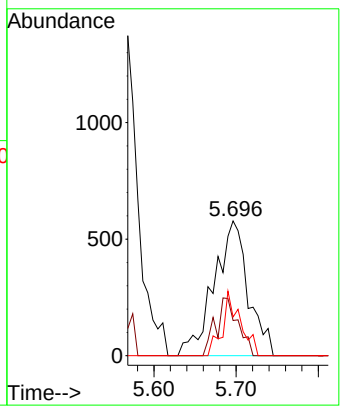




#36
1,1-Dichloropropene
Concen: 0.995 ug/l
RT: 5.696 min Scan# 7
Delta R.T. 0.012 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion: 75 Resp: 167

Ion	Ratio	Lower	Upper
75	100		
110	27.6	16.9	50.6
77	25.0	25.0	37.4#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
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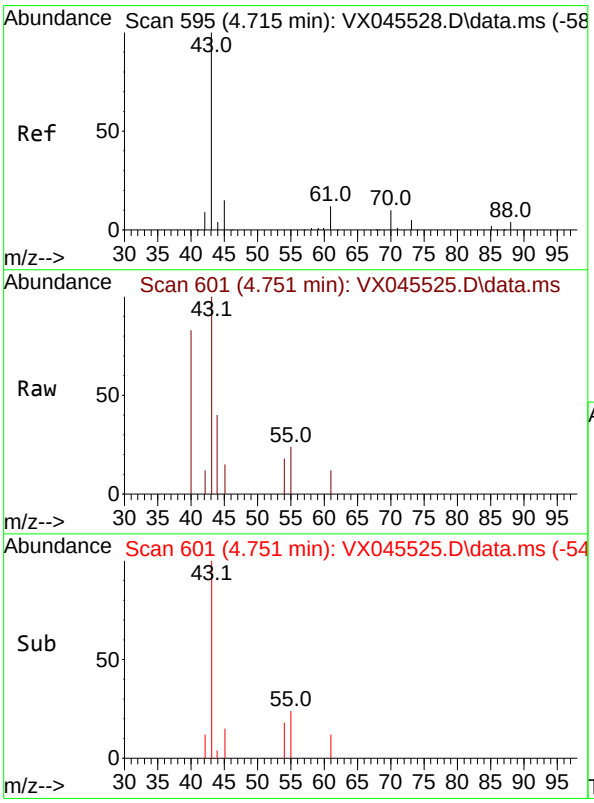
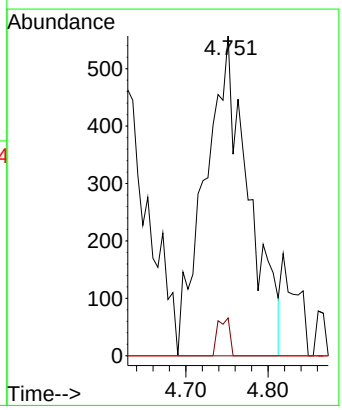
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

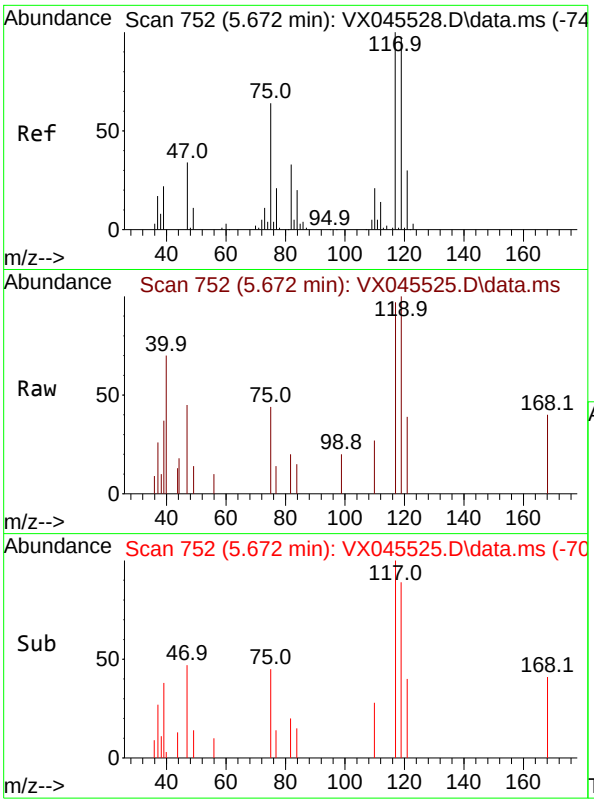


#37
Ethyl Acetate
Concen: 0.964 ug/l
RT: 4.751 min Scan# 601
Delta R.T. 0.037 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion: 43 Resp: 2040

Ion	Ratio	Lower	Upper
43	100		
61	3.3	9.9	14.9#
70	0.0	7.5	11.3#

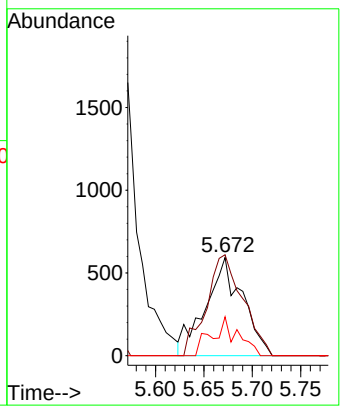




#38
Carbon Tetrachloride
Concen: 0.870 ug/l
RT: 5.672 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion:117 Resp: 157

Ion	Ratio	Lower	Upper
117	100		
119	102.7	76.9	115.3
121	39.6	24.2	36.2#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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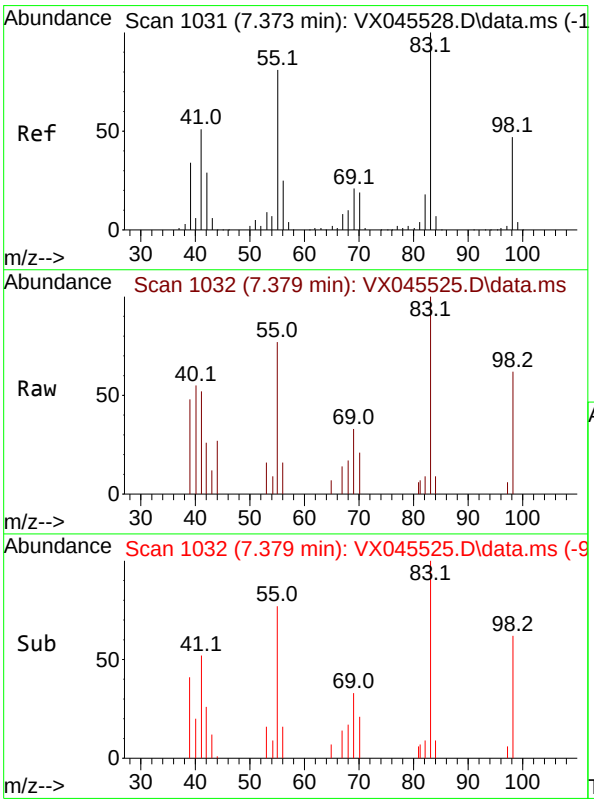
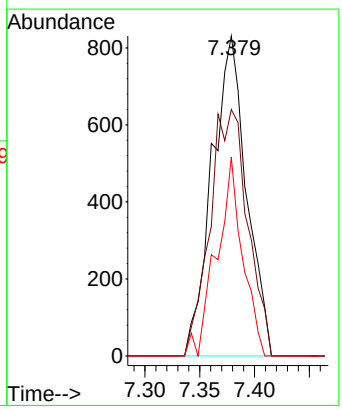
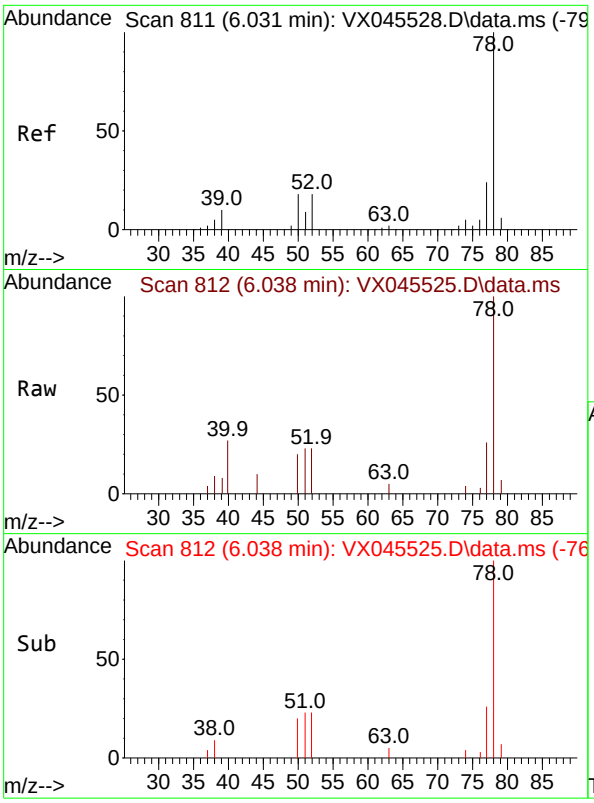


#39
Methylcyclohexane
Concen: 0.883 ug/l
RT: 7.379 min Scan# 1032
Delta R.T. 0.006 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion: 83 Resp: 1818

Ion	Ratio	Lower	Upper
83	100		
55	77.0	64.9	97.3
98	62.1	37.4	56.0#

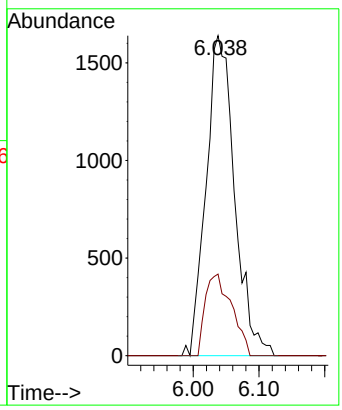




#40
Benzene
Concen: 0.967 ug/l
RT: 6.038 min Scan# 8
Delta R.T. 0.006 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion: 78 Resp: 495

Ion	Ratio	Lower	Upper
78	100		
77	25.5	19.0	28.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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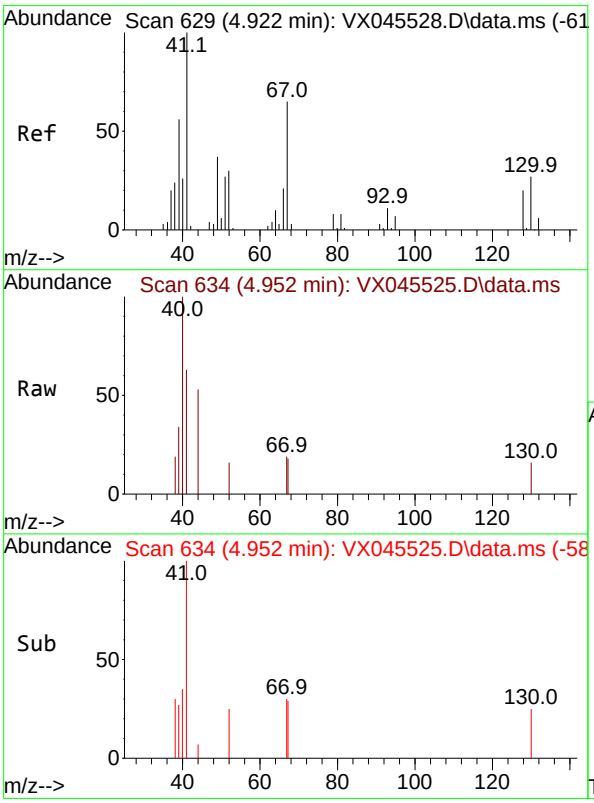
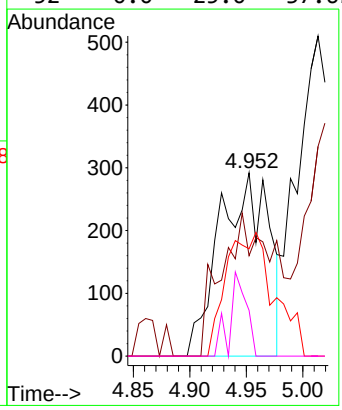
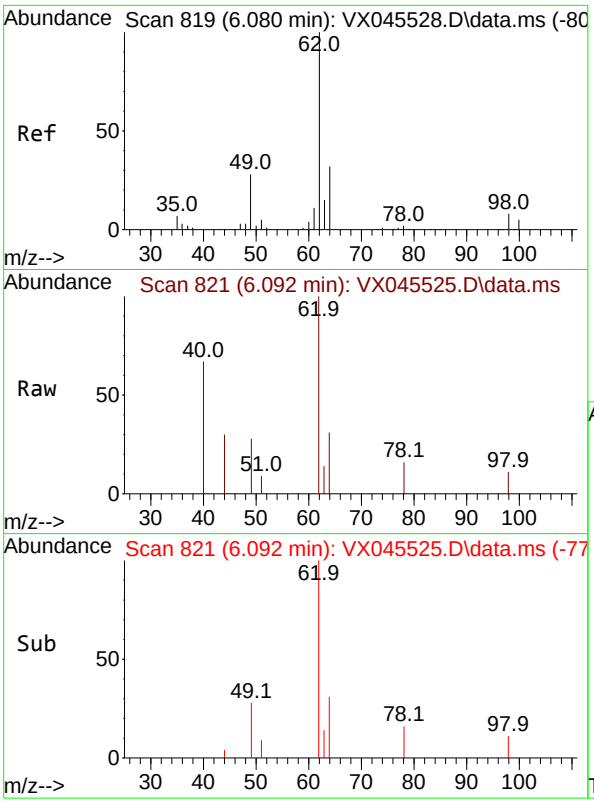


#41
Methacrylonitrile
Concen: 0.784 ug/l m
RT: 4.952 min Scan# 634
Delta R.T. 0.031 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion: 41 Resp: 883

Ion	Ratio	Lower	Upper
41	100		
39	0.0	47.0	70.6#
67	0.0	53.2	79.8#
52	0.0	25.0	37.6#

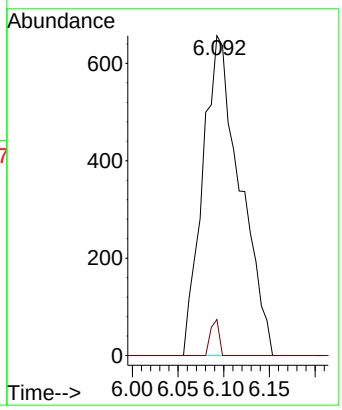




#42
1,2-Dichloroethane
Concen: 0.882 ug/l
RT: 6.092 min Scan# 8
Delta R.T. 0.012 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion: 62 Resp: 186

Ion	Ratio	Lower	Upper
62	100		
98	2.6	0.0	15.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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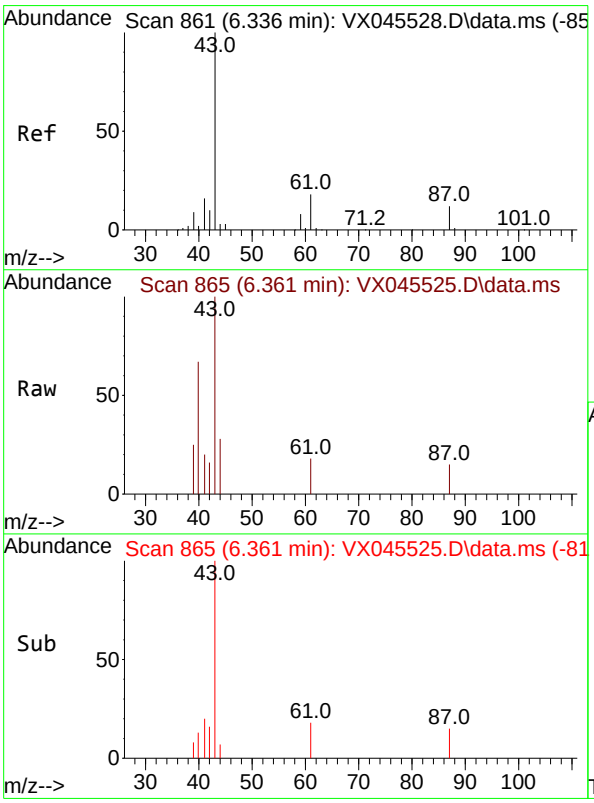
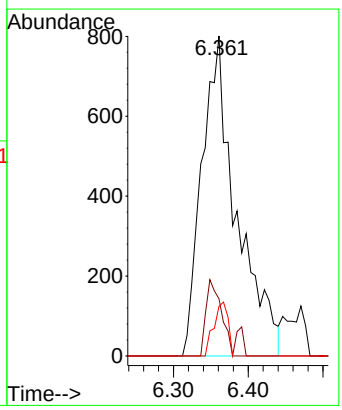
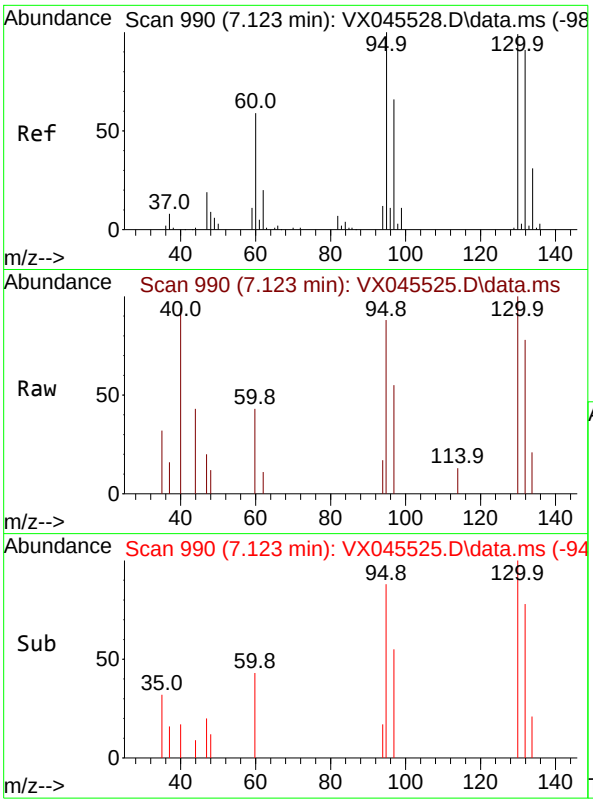


#43
Isopropyl Acetate
Concen: 0.804 ug/l
RT: 6.361 min Scan# 865
Delta R.T. 0.025 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion: 43 Resp: 2578

Ion	Ratio	Lower	Upper
43	100		
61	10.6	14.1	21.1#
87	6.9	9.2	13.8#





#44
Trichloroethene
Concen: 1.004 ug/l
RT: 7.123 min Scan# 9
Delta R.T. 0.000 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion:130 Resp: 122

Ion	Ratio	Lower	Upper
130	100		
95	88.0	0.0	202.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
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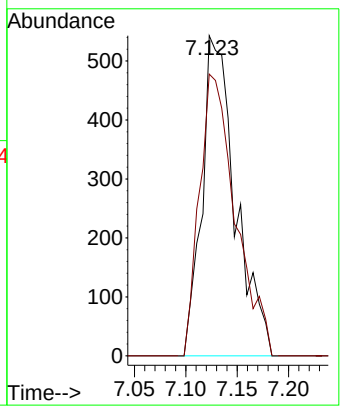
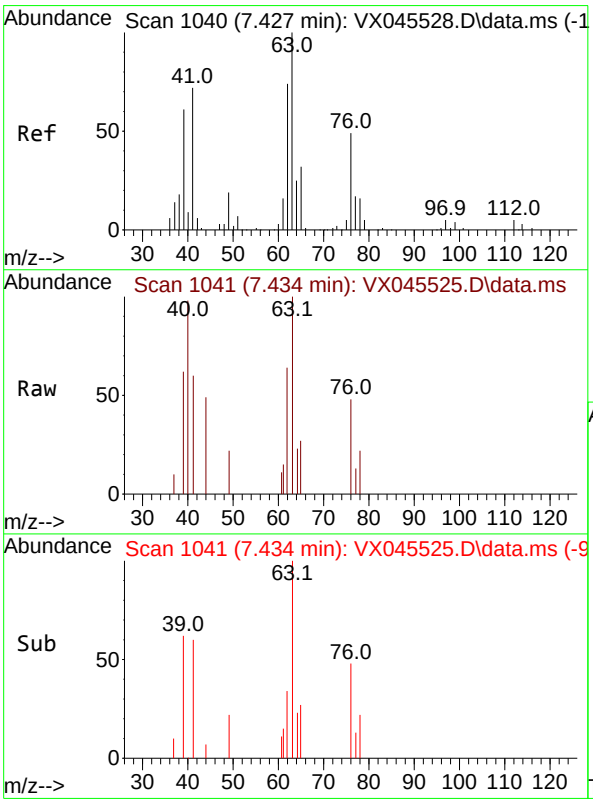
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

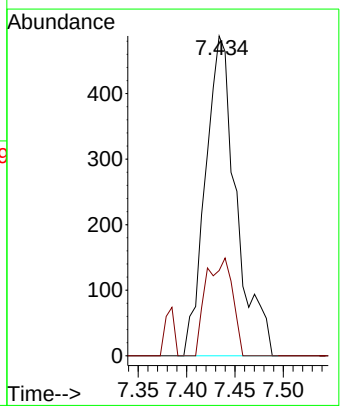


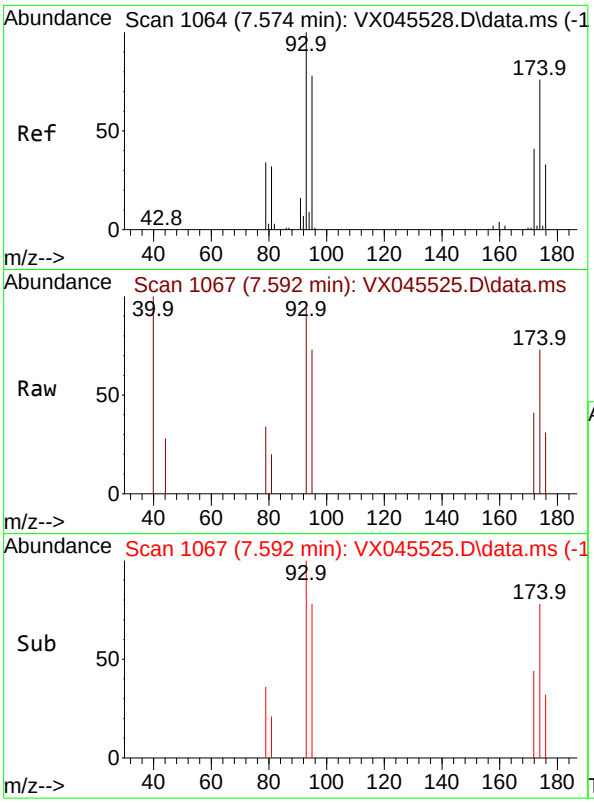


#45
1,2-Dichloropropane
Concen: 0.846 ug/l
RT: 7.434 min Scan# 1041
Delta R.T. 0.006 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion: 63 Resp: 1082

Ion	Ratio	Lower	Upper
63	100		
65	26.6	25.8	38.6

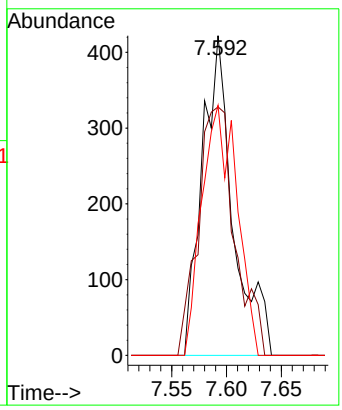




#46
Dibromomethane
Concen: 0.846 ug/l
RT: 7.592 min Scan# 1
Delta R.T. 0.018 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion: 93 Resp: 83

Ion	Ratio	Lower	Upper
93	100		
95	92.2	64.8	97.2
174	88.4	65.4	98.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
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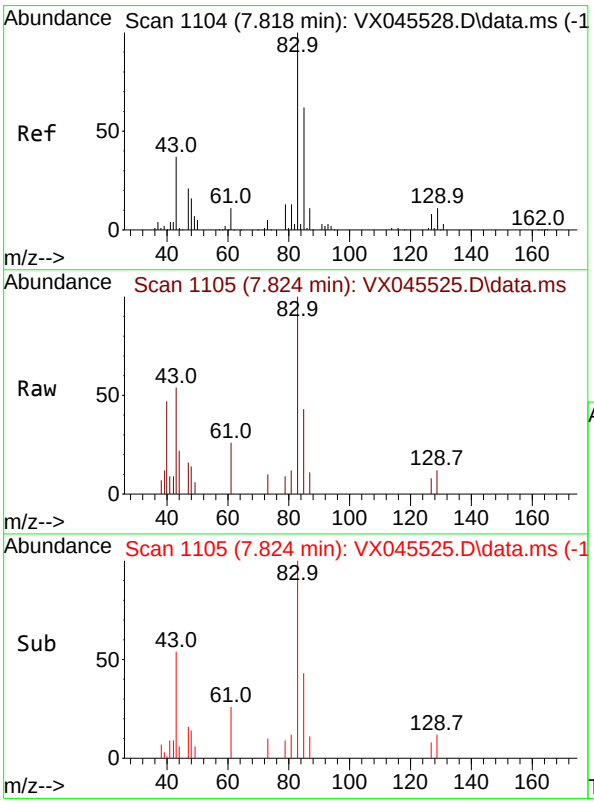
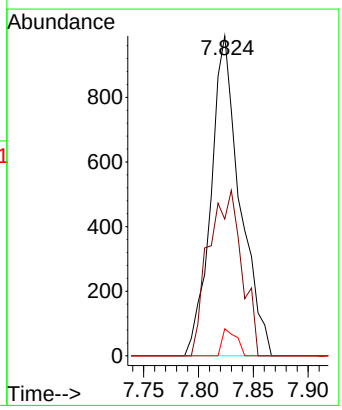
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

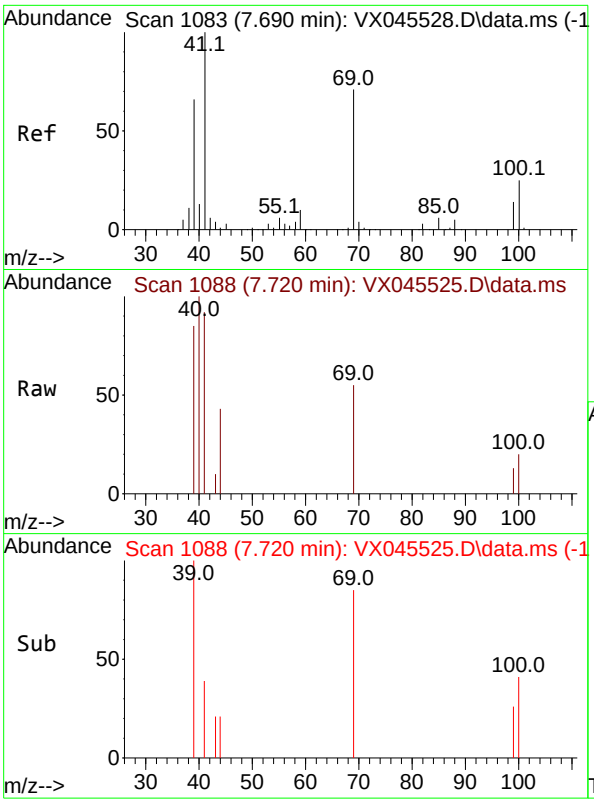


#47
Bromodichloromethane
Concen: 0.931 ug/l
RT: 7.824 min Scan# 1105
Delta R.T. 0.006 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion: 83 Resp: 1827

Ion	Ratio	Lower	Upper
83	100		
85	42.7	49.7	74.5#
127	8.5	6.1	9.1

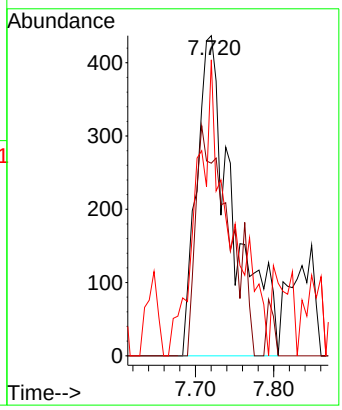




#48
Methyl methacrylate
Concen: 0.857 ug/l
RT: 7.720 min Scan# 1
Delta R.T. 0.031 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion: 41 Resp: 141

Ion	Ratio	Lower	Upper
41	100		
69	64.7	58.2	87.2
39	72.7	53.6	80.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
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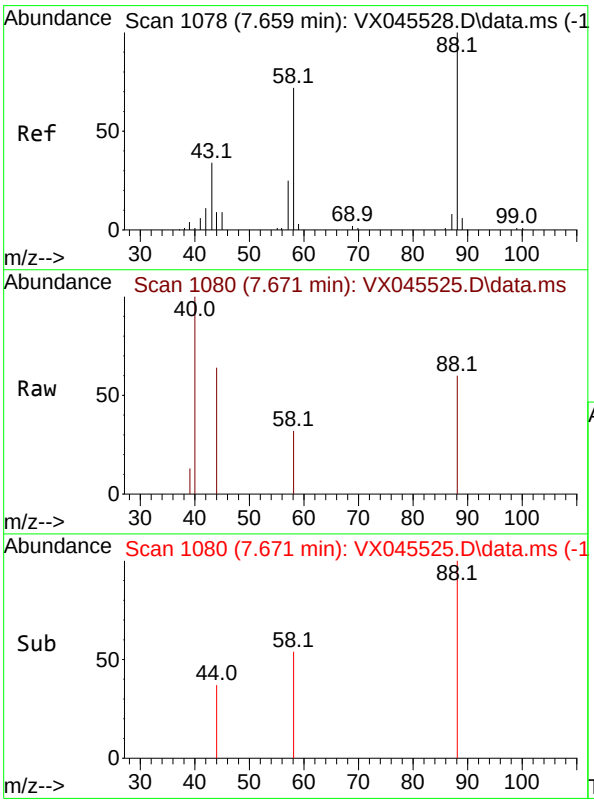
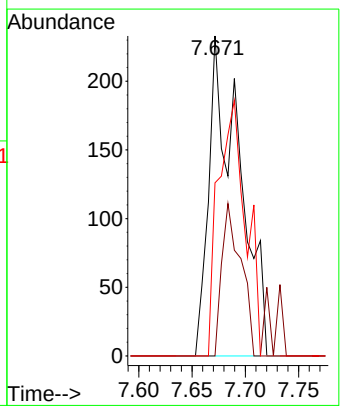
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

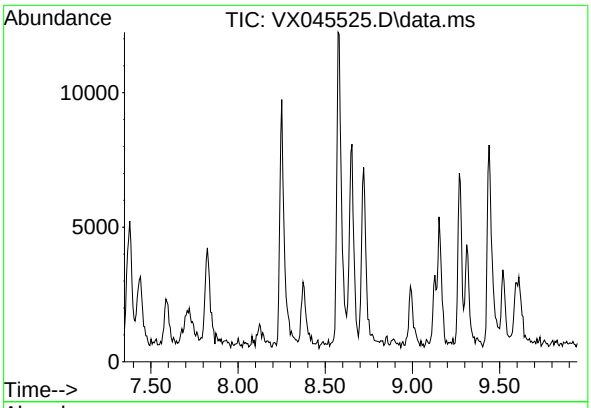


#49
1,4-Dioxane
Concen: 15.288 ug/l m
RT: 7.671 min Scan# 1080
Delta R.T. 0.012 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion: 88 Resp: 458

Ion	Ratio	Lower	Upper
88	100		
43	30.3	32.2	48.4#
58	72.3	58.6	88.0





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

Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion: 98

Sig	Exp Ratio
98	100
100	65.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
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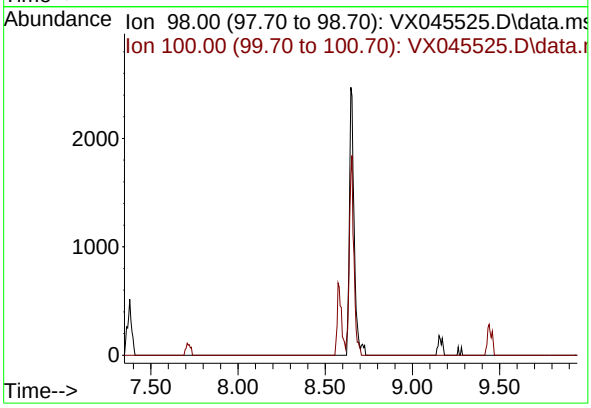
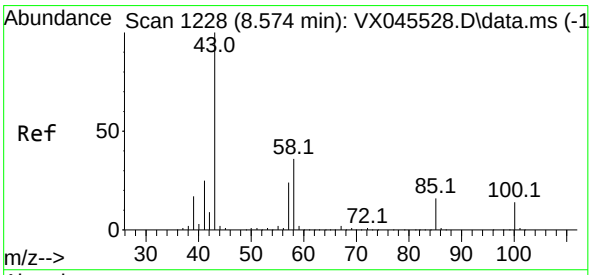
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

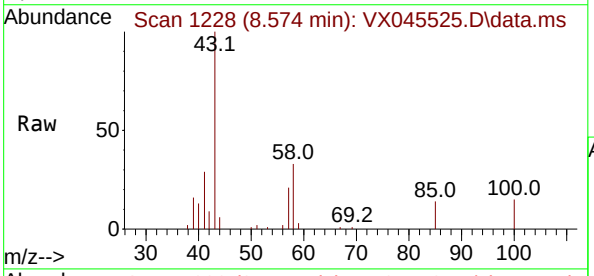


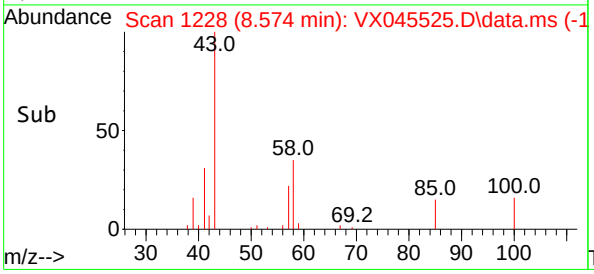


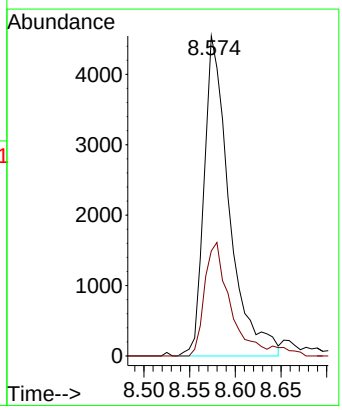
#51
4-Methyl-2-Pentanone
Concen: 4.114 ug/l
RT: 8.574 min Scan# 1228
Delta R.T. 0.000 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

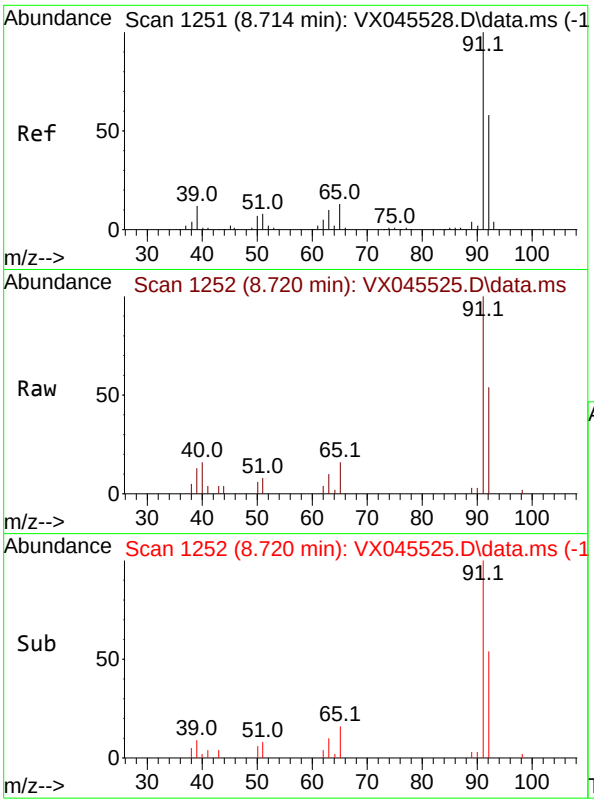
Tgt Ion: 43 Resp: 8746

Ion	Ratio	Lower	Upper
43	100		
58	35.5	28.5	42.7





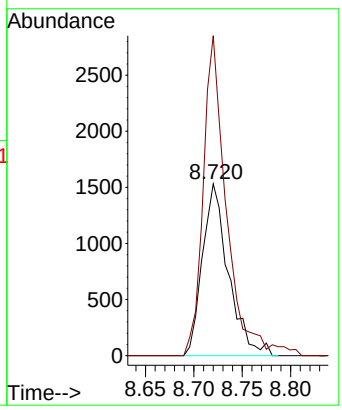




#52
Toluene
Concen: 0.923 ug/l
RT: 8.720 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion: 92 Resp: 286

Ion	Ratio	Lower	Upper
92	100		
91	167.2	138.7	208.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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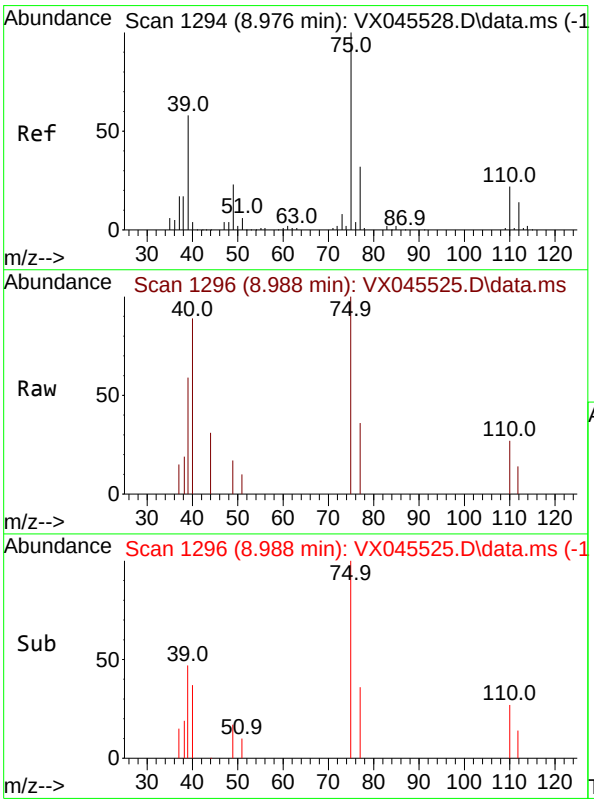
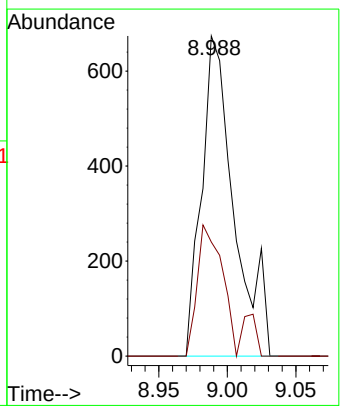
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

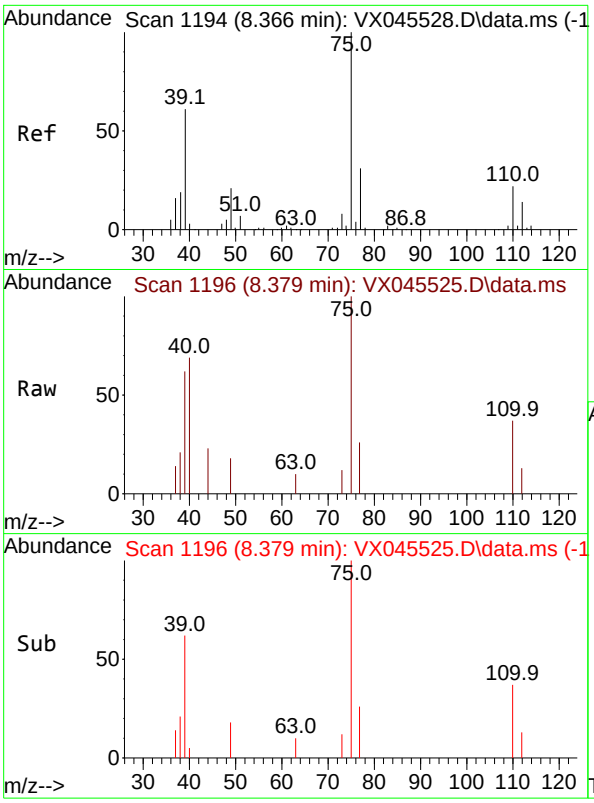


#53
t-1,3-Dichloropropene
Concen: 2.850 ug/l
RT: 8.988 min Scan# 1296
Delta R.T. 0.012 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion: 75 Resp: 1109

Ion	Ratio	Lower	Upper
75	100		
77	35.6	25.4	38.0

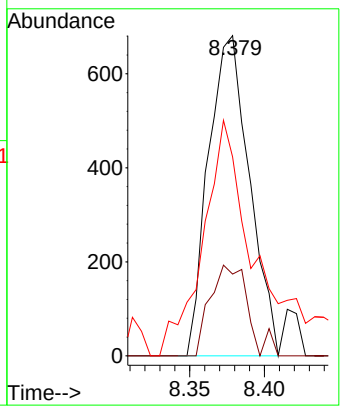




#54
cis-1,3-Dichloropropene
Concen: 0.705 ug/l
RT: 8.379 min Scan# 1
Delta R.T. 0.013 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion: 75 Resp: 130

Ion	Ratio	Lower	Upper
75	100		
77	25.6	24.6	36.8
39	52.4	48.4	72.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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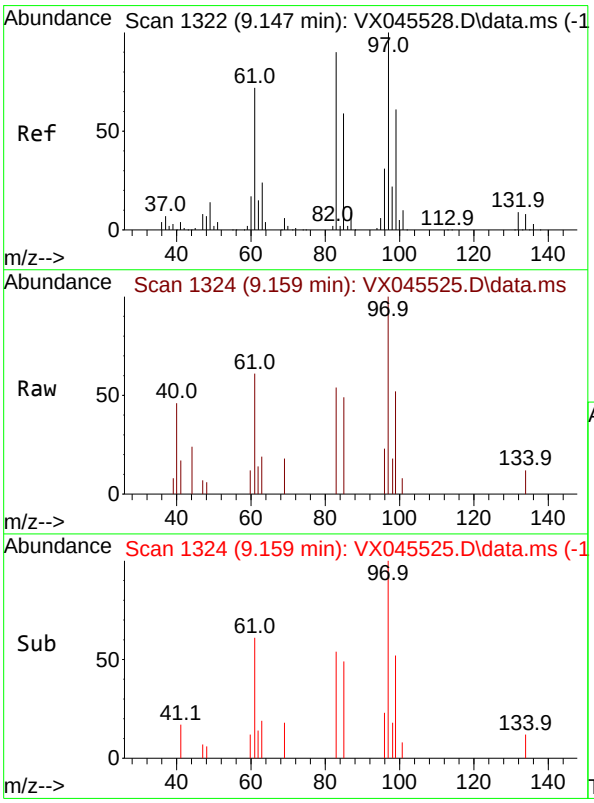
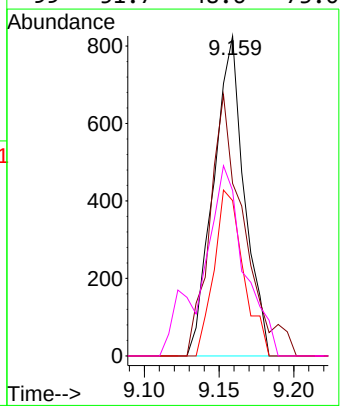
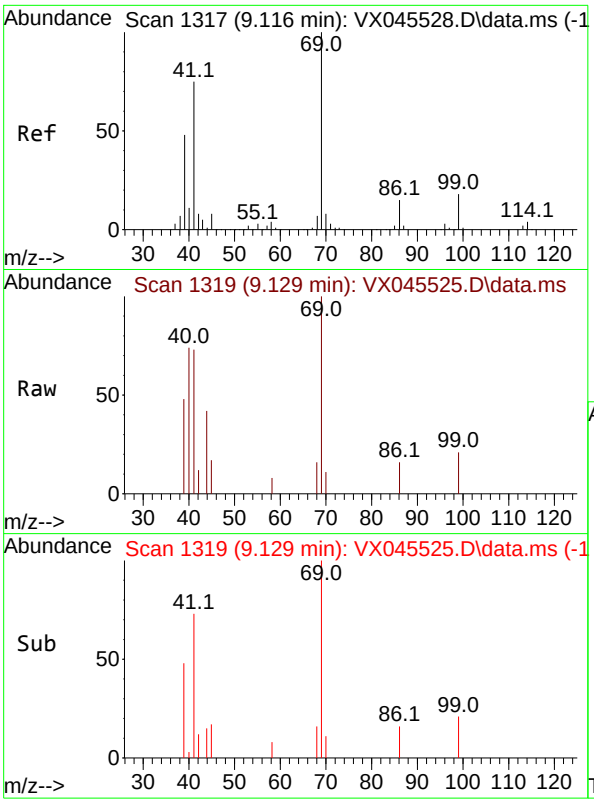


#55
1,1,2-Trichloroethane
Concen: 0.957 ug/l
RT: 9.159 min Scan# 1324
Delta R.T. 0.012 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion: 97 Resp: 1183

Ion	Ratio	Lower	Upper
97	100		
83	53.9	71.8	107.8#
85	48.5	47.0	70.6
99	51.7	48.6	73.0

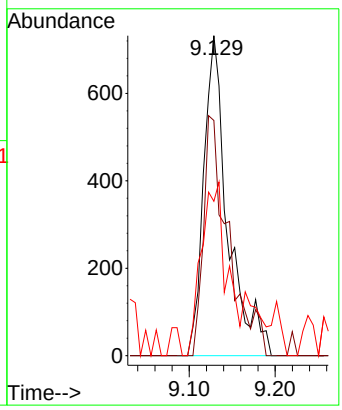




#56
Ethyl methacrylate
Concen: 0.745 ug/l m
RT: 9.129 min Scan# 1
Delta R.T. 0.013 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion: 69 Resp: 142

Ion	Ratio	Lower	Upper
69	100		
41	77.3	61.3	91.9
39	56.9	40.2	60.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
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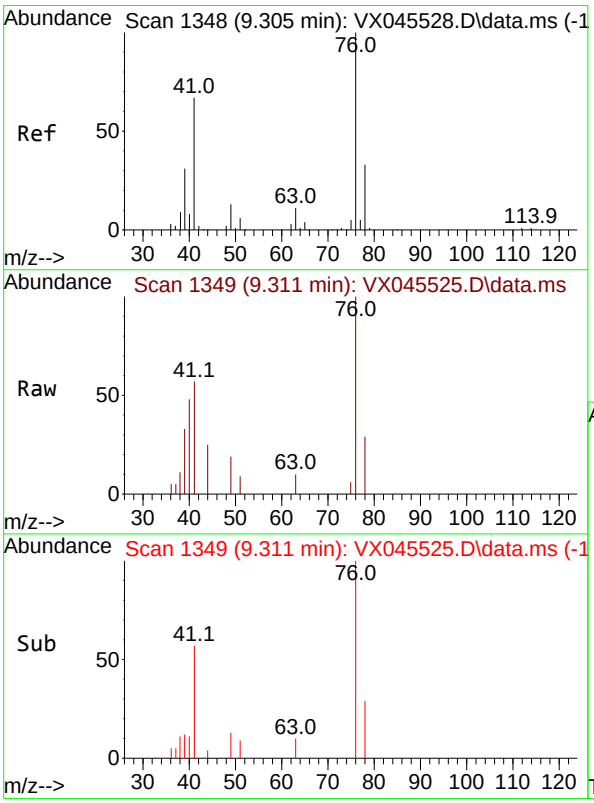
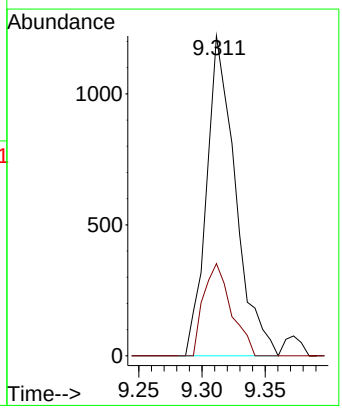
Supervised By :Mahesh Dadoda 04/02/2025

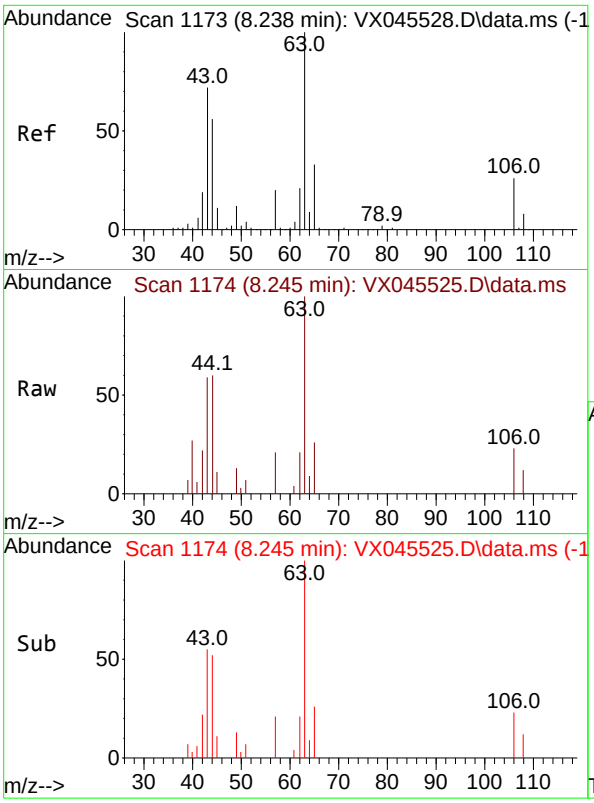


#57
1,3-Dichloropropane
Concen: 0.904 ug/l
RT: 9.311 min Scan# 1349
Delta R.T. 0.006 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion: 76 Resp: 1946

Ion	Ratio	Lower	Upper
76	100		
78	27.5	26.0	39.0

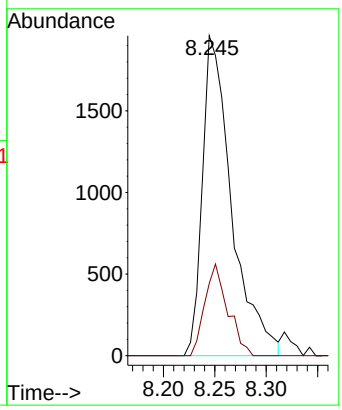




#58
2-Chloroethyl Vinyl ether
Concen: 4.008 ug/l
RT: 8.245 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion: 63 Resp: 388

Ion	Ratio	Lower	Upper
63	100		
106	22.6	21.0	31.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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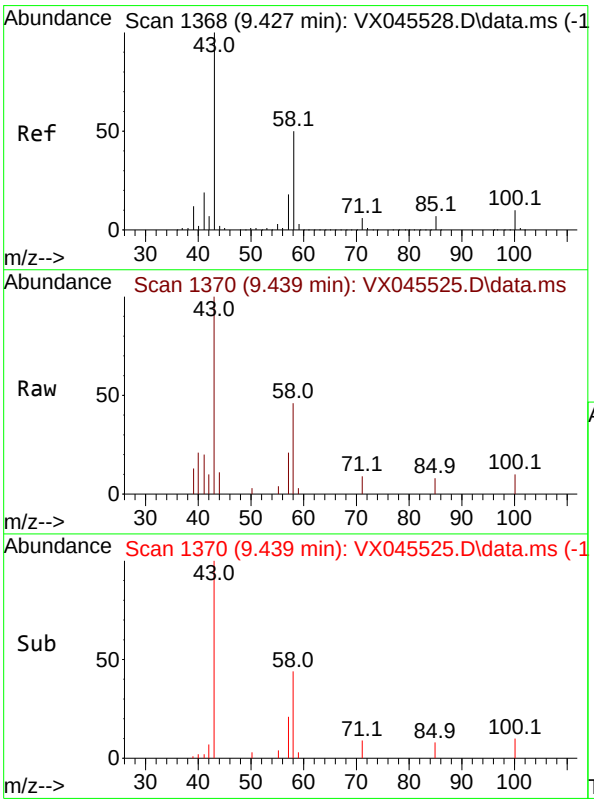
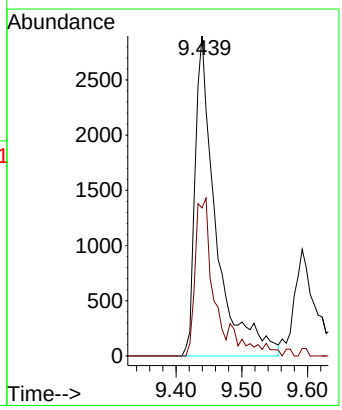
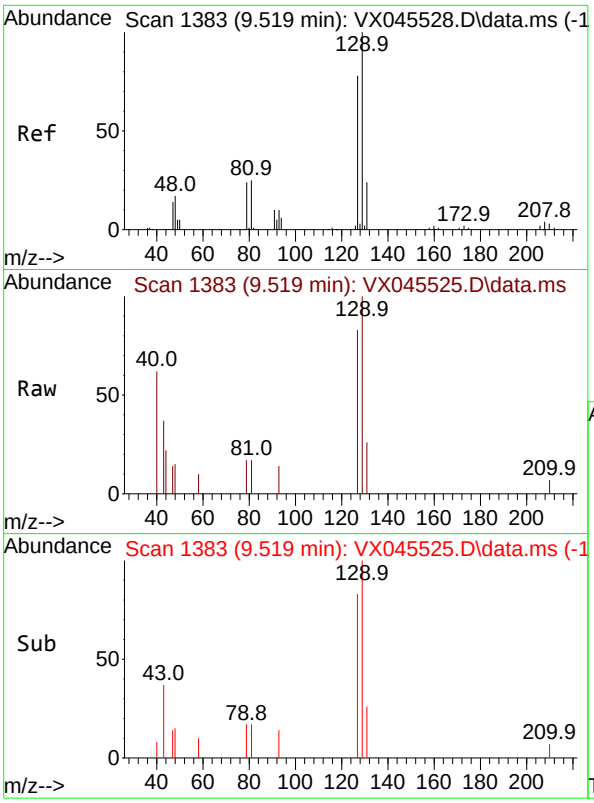


#59
2-Hexanone
Concen: 4.040 ug/l
RT: 9.439 min Scan# 1370
Delta R.T. 0.012 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion: 43 Resp: 6360

Ion	Ratio	Lower	Upper
43	100		
58	39.5	24.9	74.6

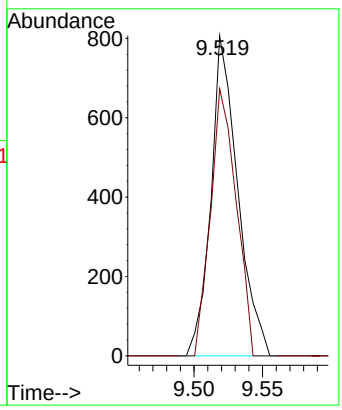




#60
Dibromochloromethane
Concen: 0.814 ug/l
RT: 9.519 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion:129 Resp: 109

Ion	Ratio	Lower	Upper
129	100		
127	80.0	39.4	118.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
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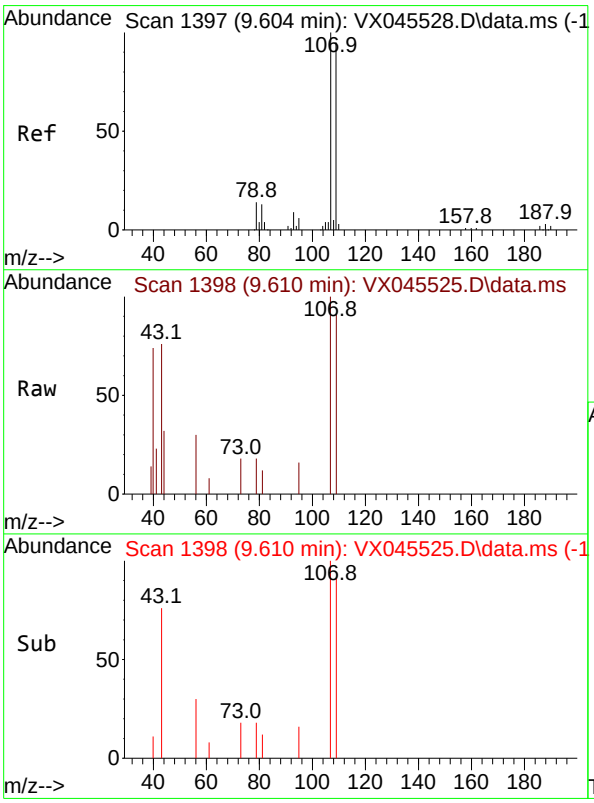
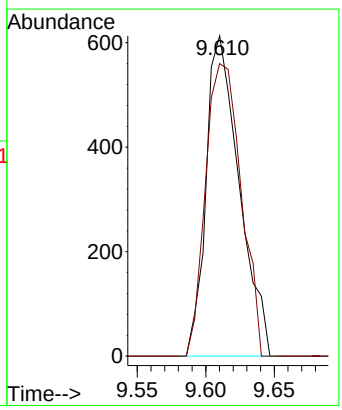
Supervised By :Mahesh Dadoda 04/02/2025

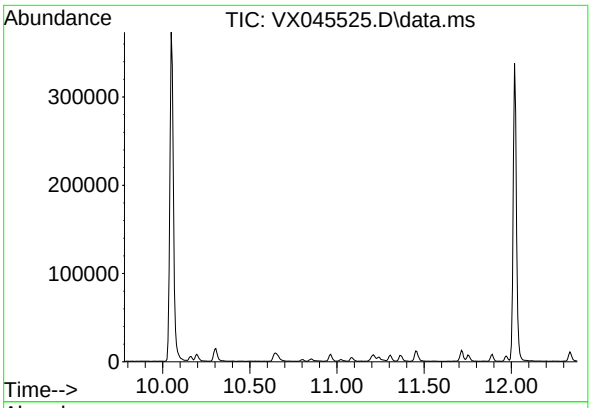


#61
1,2-Dibromoethane
Concen: 0.825 ug/l
RT: 9.610 min Scan# 1398
Delta R.T. 0.006 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion:107 Resp: 1032

Ion	Ratio	Lower	Upper
107	100		
109	98.1	75.7	113.5





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

Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

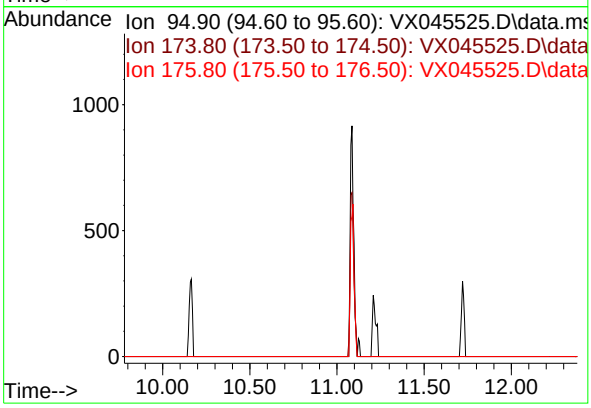
Tgt Ion: 95

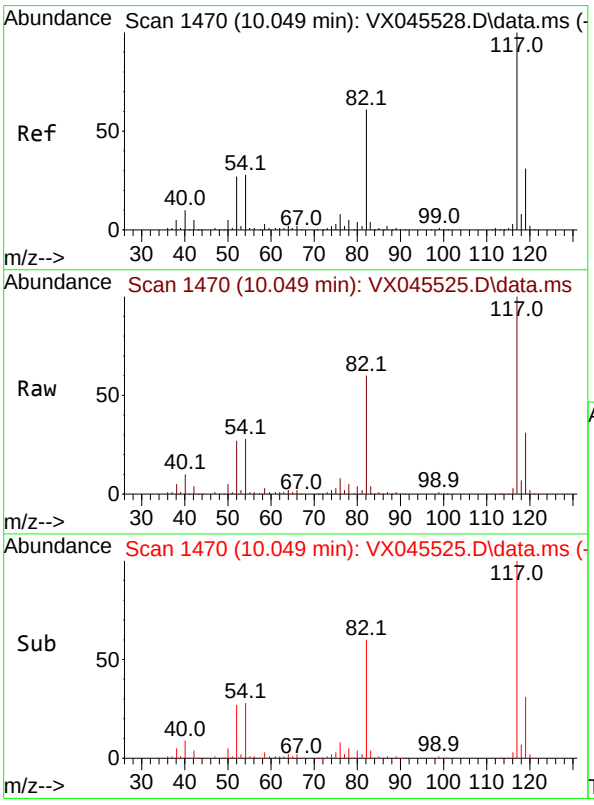
Sig	Exp Ratio
95	100
174	67.9
176	65.7

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

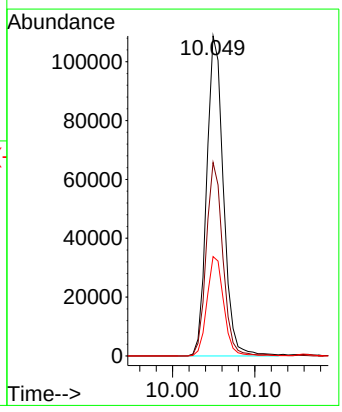


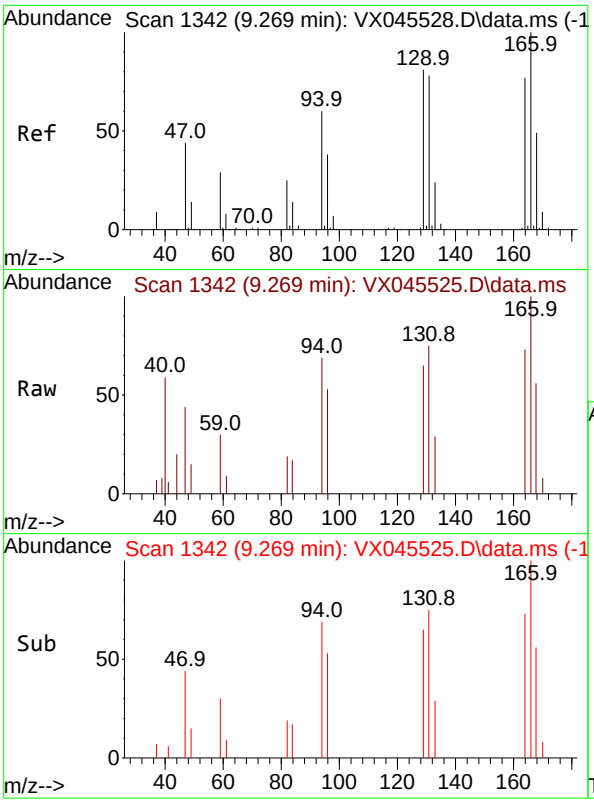


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion:117 Resp: 153312

Ion	Ratio	Lower	Upper
117	100		
82	60.5	49.2	73.8
119	31.0	25.1	37.7

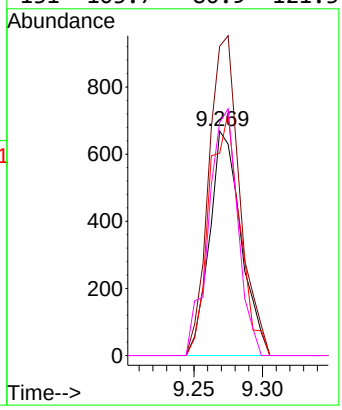




#64
Tetrachloroethene
Concen: 0.981 ug/l
RT: 9.269 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion:164 Resp: 106

Ion	Ratio	Lower	Upper
164	100		
166	137.7	103.8	155.8
129	90.1	84.3	126.5
131	103.7	80.9	121.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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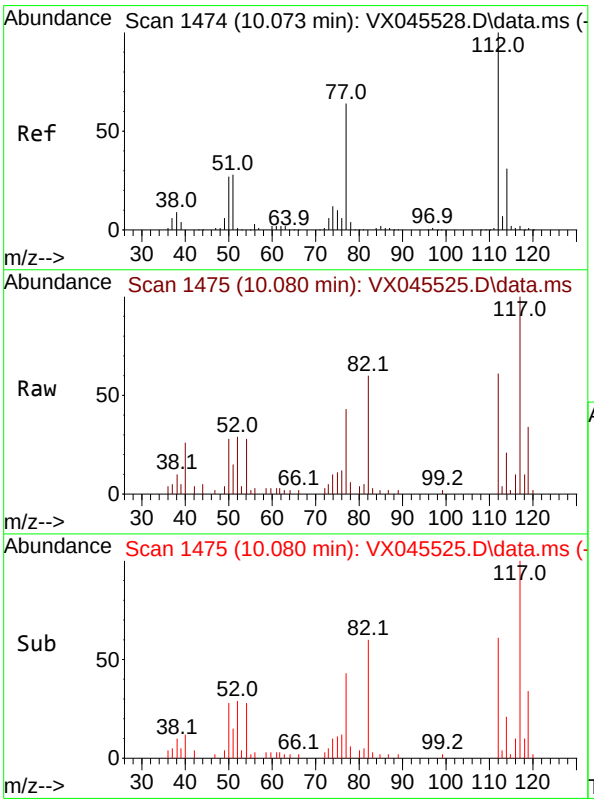
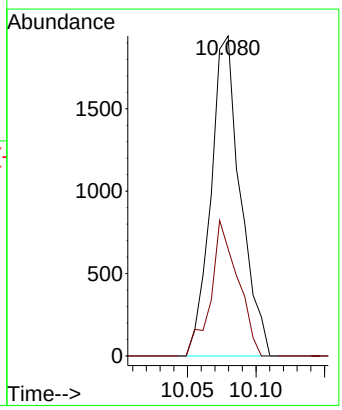
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

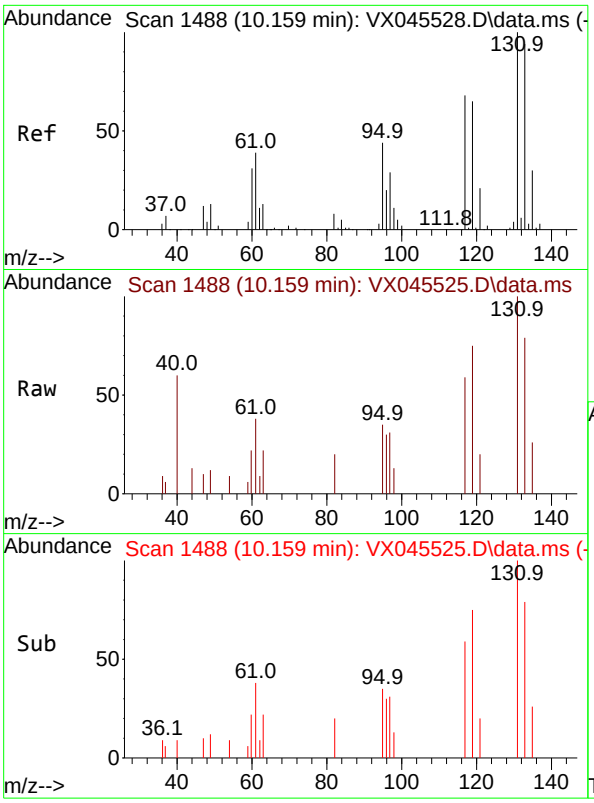


#65
Chlorobenzene
Concen: 0.890 ug/l
RT: 10.080 min Scan# 1475
Delta R.T. 0.006 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion:112 Resp: 2916

Ion	Ratio	Lower	Upper
112	100		
114	33.5	24.7	37.1





#66
1,1,1,2-Tetrachloroethane
Concen: 0.992 ug/l
RT: 10.159 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion:131 Resp: 112

Ion	Ratio	Lower	Upper
131	100		
133	91.6	47.5	142.5
119	0.0	32.9	98.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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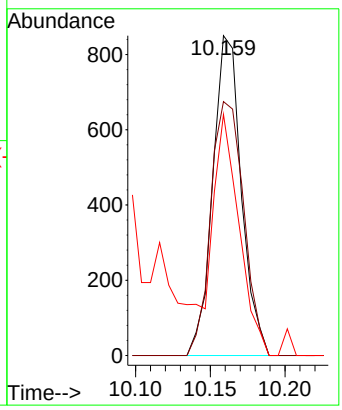
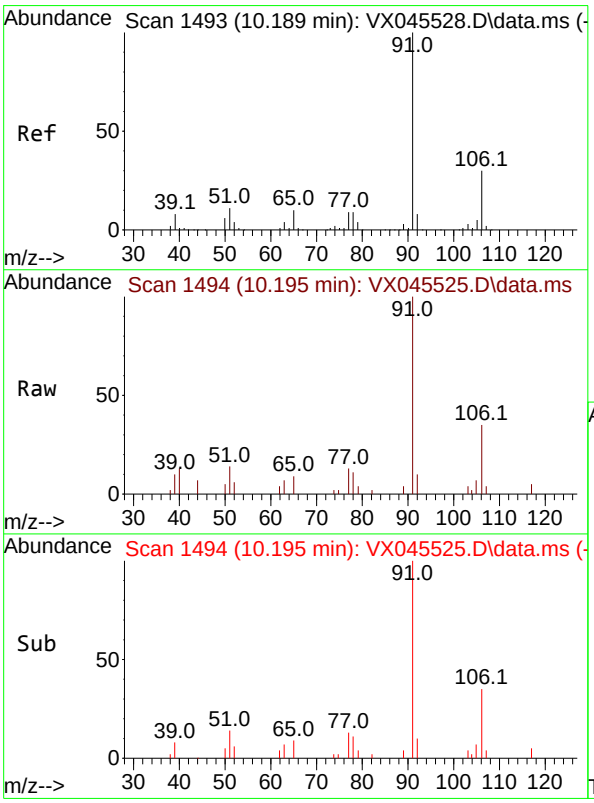
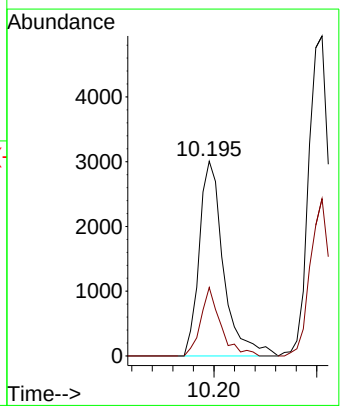


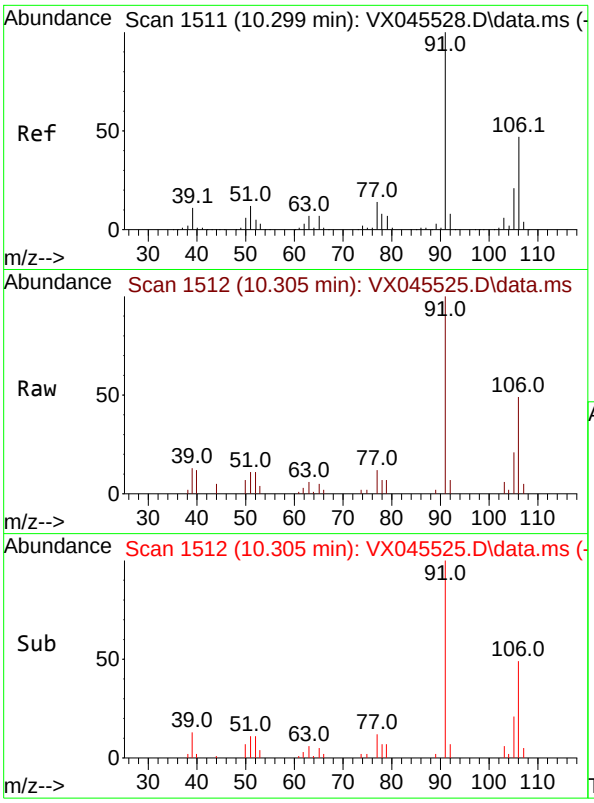


#67
Ethyl Benzene
Concen: 0.840 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. 0.006 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion: 91 Resp: 4930

Ion	Ratio	Lower	Upper
91	100		
106	35.2	23.7	35.5

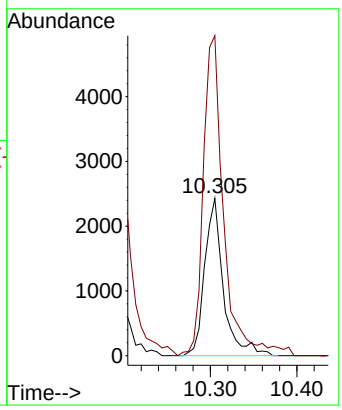




#68
m/p-Xylenes
Concen: 1.708 ug/l
RT: 10.305 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion:106 Resp: 364

Ion	Ratio	Lower	Upper
106	100		
91	221.2	172.6	258.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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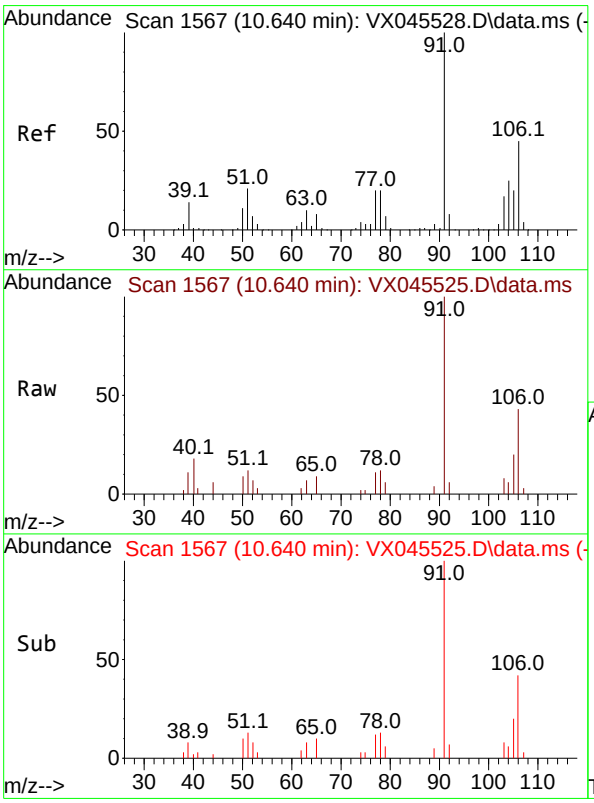
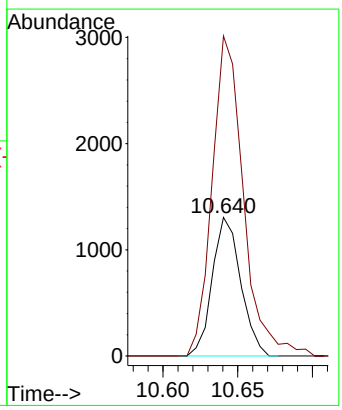
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

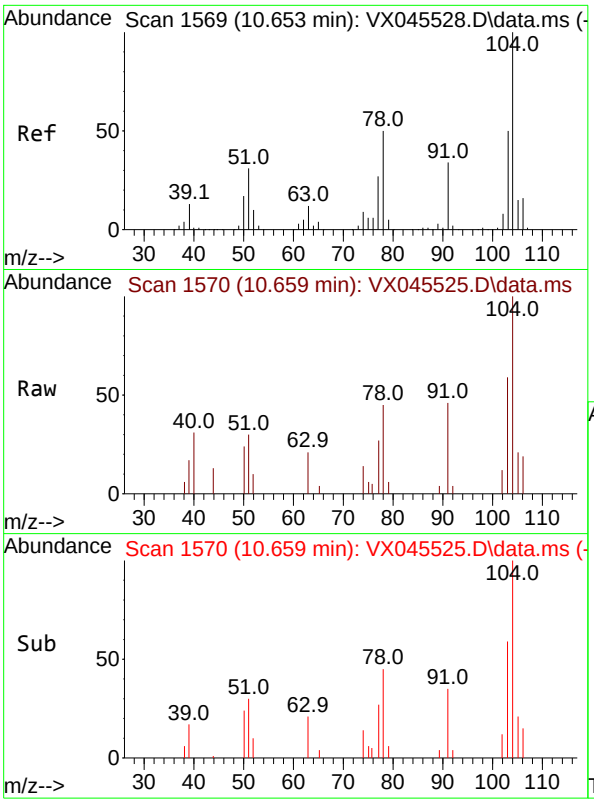


#69
o-Xylene
Concen: 0.820 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion:106 Resp: 1724

Ion	Ratio	Lower	Upper
106	100		
91	254.4	113.6	340.6

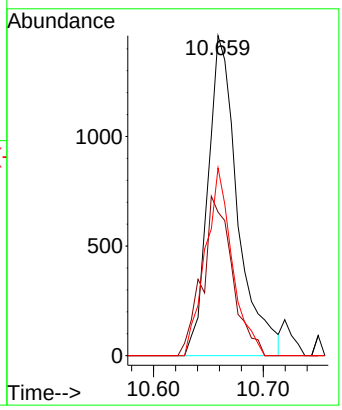




#70
Styrene
Concen: 0.793 ug/l
RT: 10.659 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion:104 Resp: 275

Ion	Ratio	Lower	Upper
104	100		
78	50.1	45.4	68.2
103	53.2	43.8	65.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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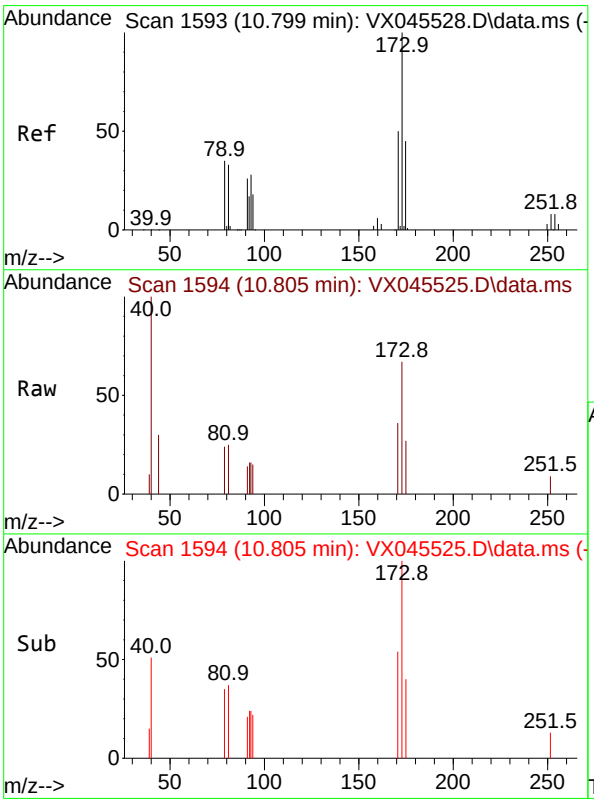
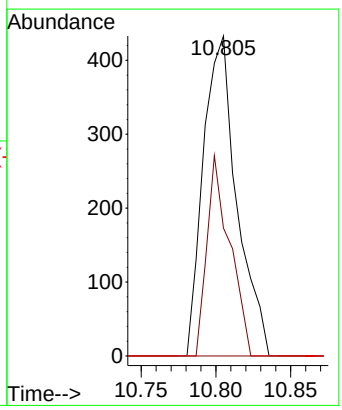
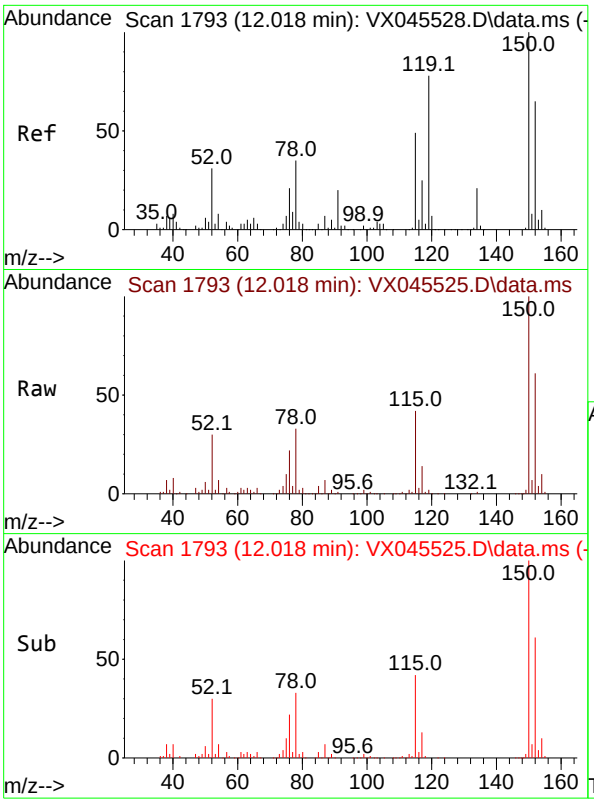


#71
Bromoform
Concen: 0.795 ug/l
RT: 10.805 min Scan# 1594
Delta R.T. 0.006 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion:173 Resp: 675

Ion	Ratio	Lower	Upper
173	100		
175	42.7	23.4	70.2
254	0.0	0.0	0.0

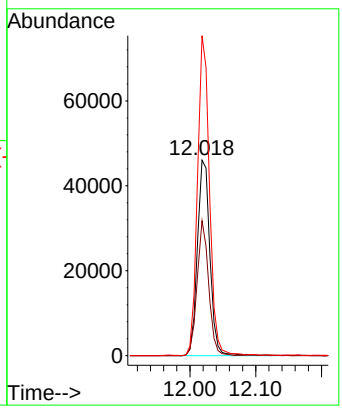




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion:152 Resp: 6111

Ion	Ratio	Lower	Upper
152	100		
115	63.5	46.9	140.7
150	155.9	0.0	349.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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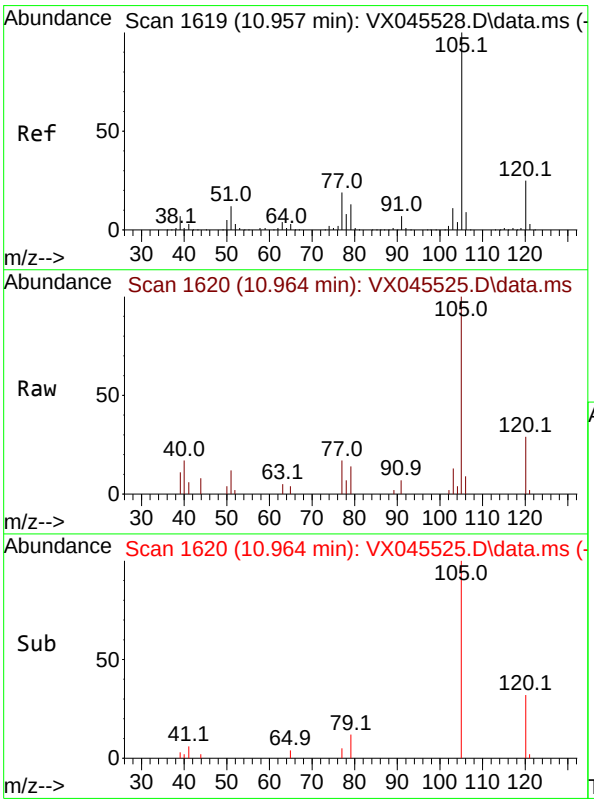
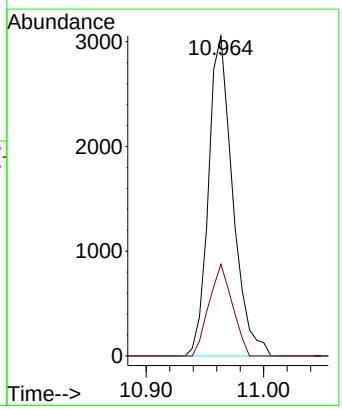
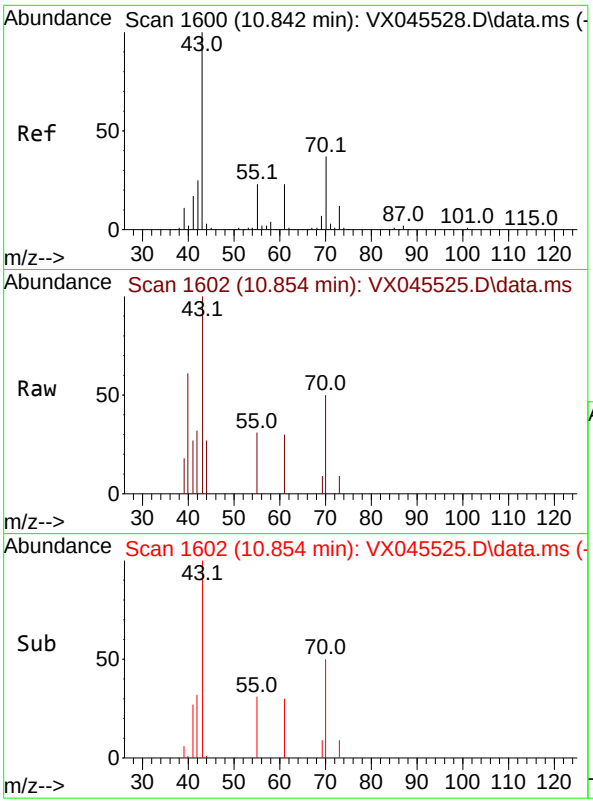


#73
Isopropylbenzene
Concen: 0.894 ug/l
RT: 10.964 min Scan# 1620
Delta R.T. 0.006 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion:105 Resp: 4377

Ion	Ratio	Lower	Upper
105	100		
120	27.6	12.7	38.0

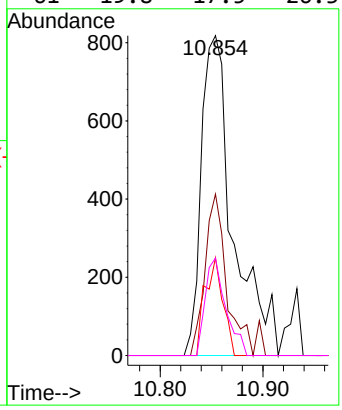




#74
N-amyl acetate
Concen: 0.752 ug/l
RT: 10.854 min Scan# 1
Delta R.T. 0.012 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion: 43 Resp: 176

Ion	Ratio	Lower	Upper
43	100		
70	34.4	30.1	45.1
55	17.3	18.3	27.5
61	19.8	17.5	26.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
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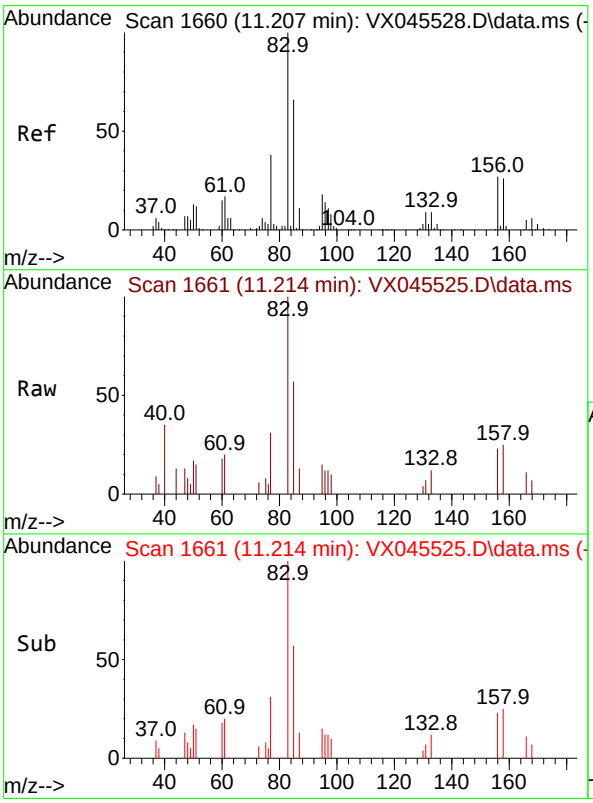
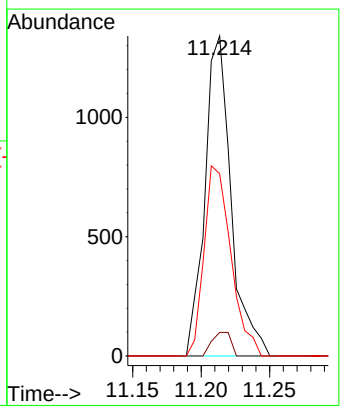
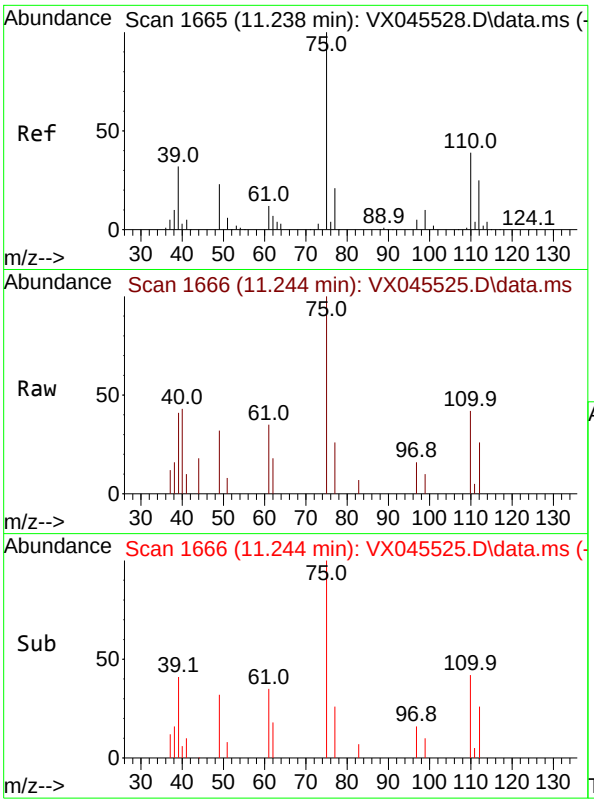


#75
1,1,2,2-Tetrachloroethane
Concen: 1.036 ug/l
RT: 11.214 min Scan# 1661
Delta R.T. 0.006 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion: 83 Resp: 1781

Ion	Ratio	Lower	Upper
83	100		
131	5.3	4.7	14.1
85	61.1	32.4	97.2

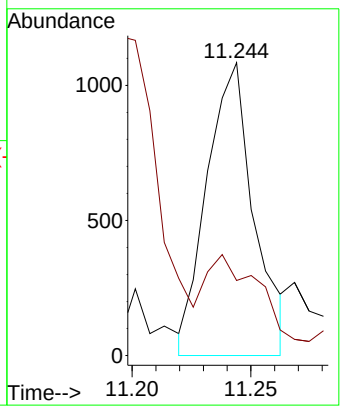




#76
1,2,3-Trichloropropane
Concen: 1.002 ug/l m
RT: 11.244 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion: 75 Resp: 149

Ion	Ratio	Lower	Upper
75	100		
77	42.1	20.0	59.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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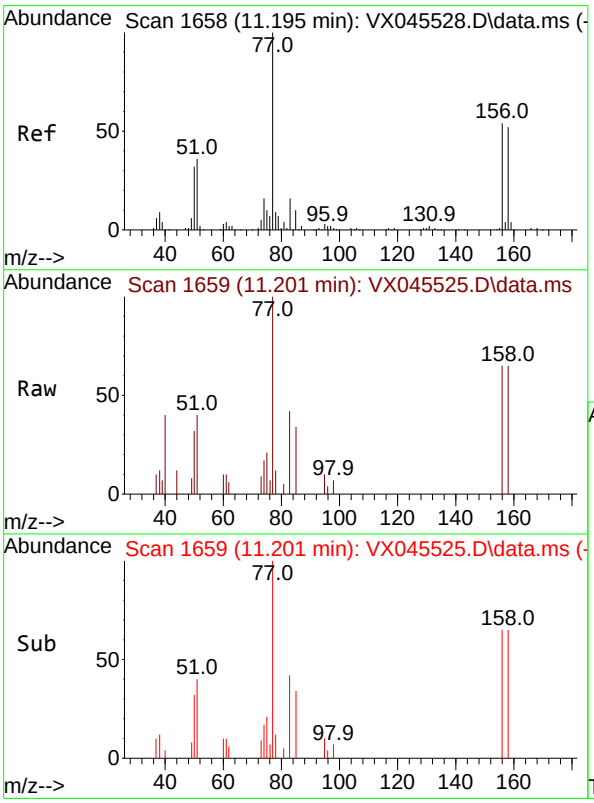
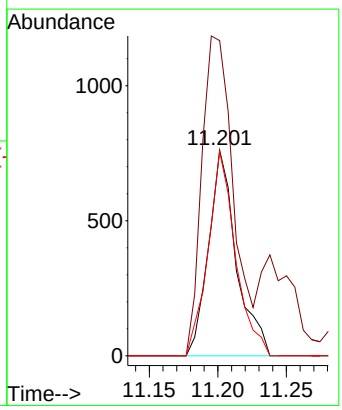
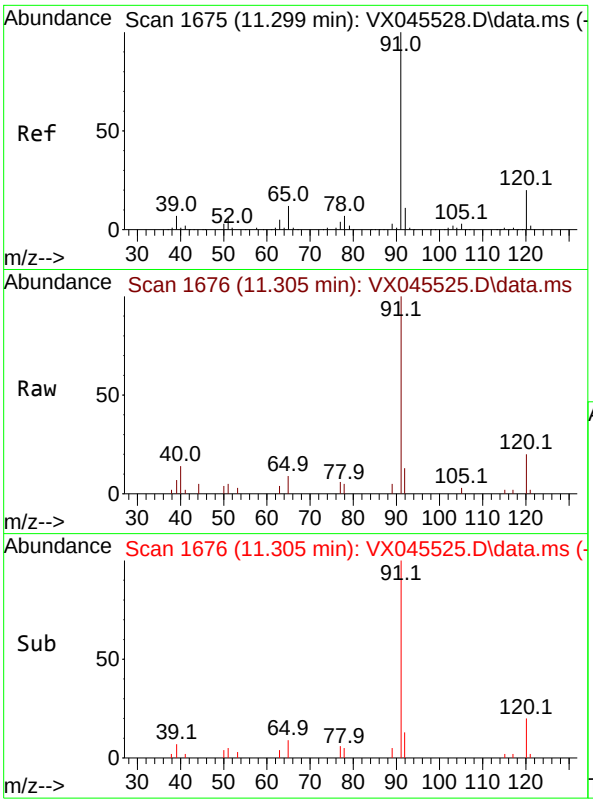


#77
Bromobenzene
Concen: 0.948 ug/l
RT: 11.201 min Scan# 1659
Delta R.T. 0.006 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion:156 Resp: 1072

Ion	Ratio	Lower	Upper
156	100		
77	176.5	92.6	277.8
158	98.4	48.1	144.4

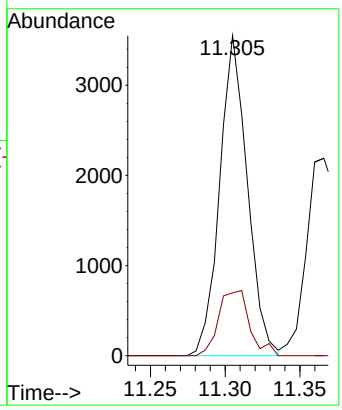




#78
n-propylbenzene
Concen: 0.809 ug/l
RT: 11.305 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion: 91 Resp: 456

Ion	Ratio	Lower	Upper
91	100		
120	22.8	10.8	32.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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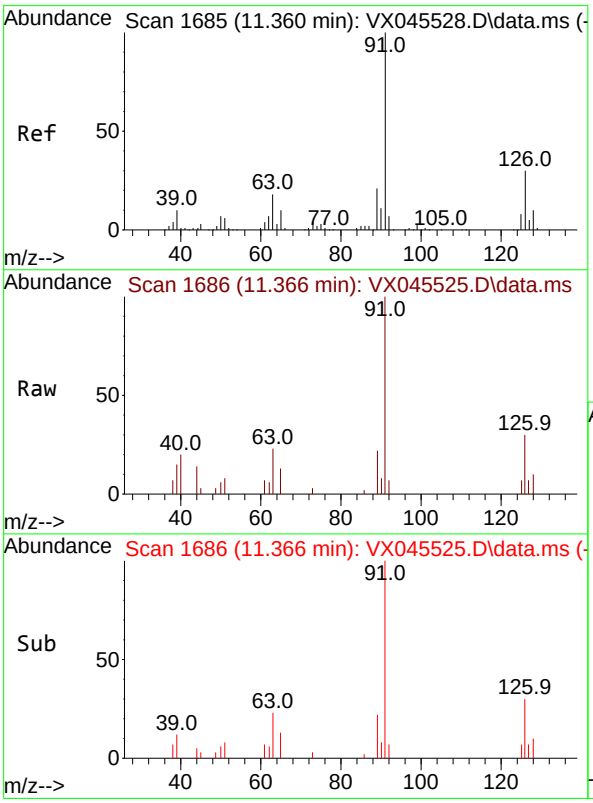
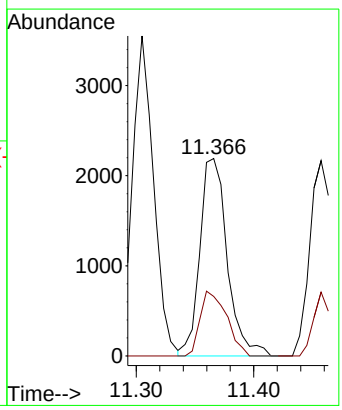
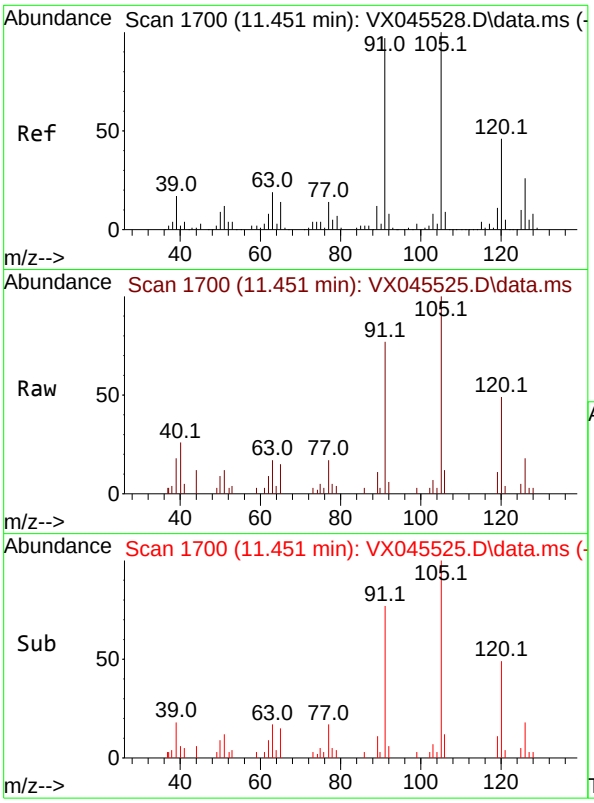


#79
2-Chlorotoluene
Concen: 0.981 ug/l
RT: 11.366 min Scan# 1686
Delta R.T. 0.006 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion: 91 Resp: 3537

Ion	Ratio	Lower	Upper
91	100		
126	31.8	15.8	47.4

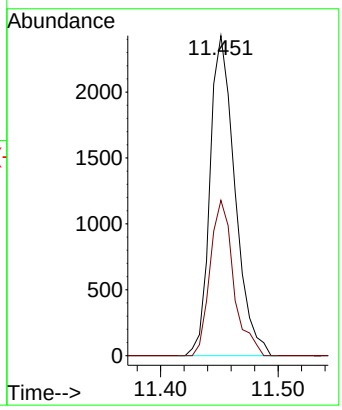




#80
1,3,5-Trimethylbenzene
Concen: 0.885 ug/l
RT: 11.451 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion:105 Resp: 358

Ion	Ratio	Lower	Upper
105	100		
120	45.8	23.0	69.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

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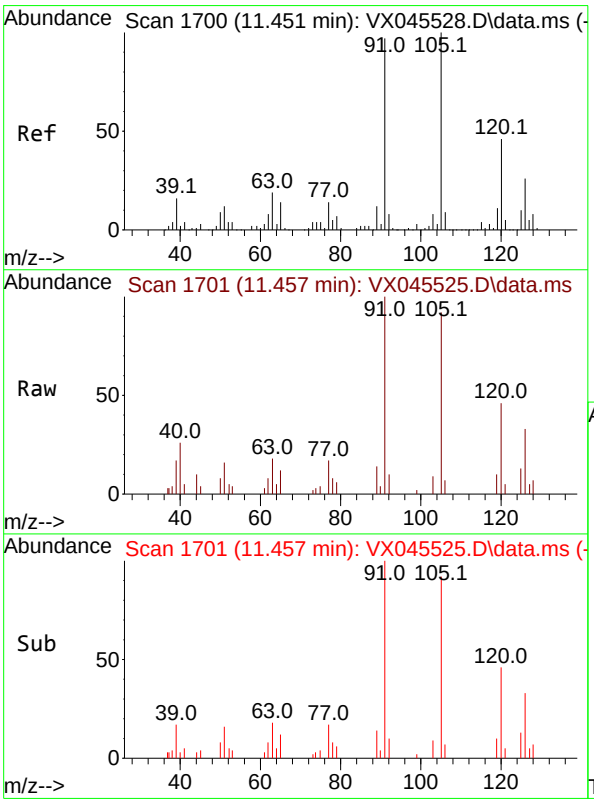
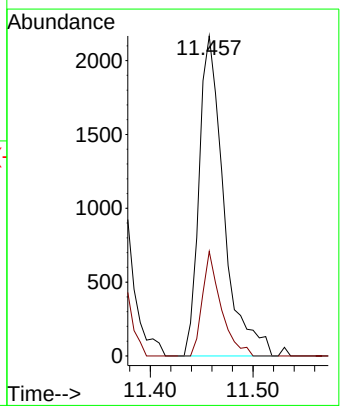
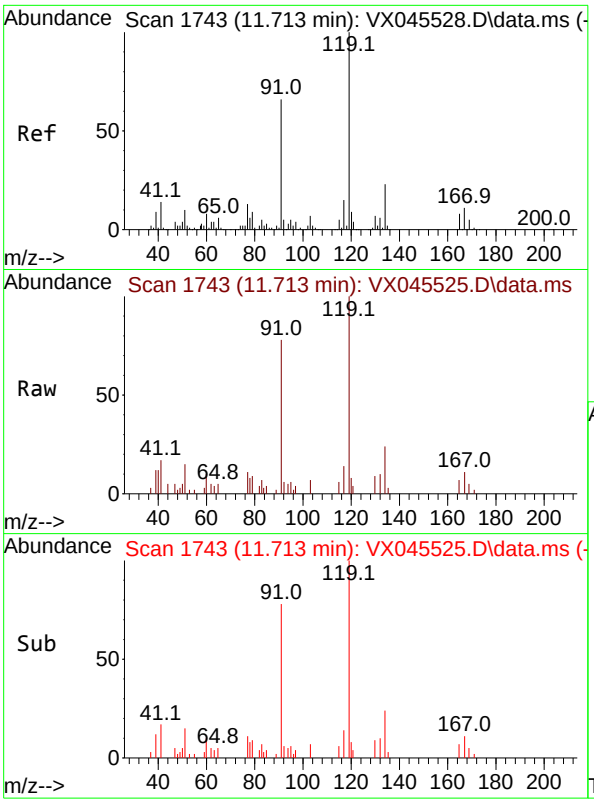


#82
4-Chlorotoluene
Concen: 0.900 ug/l
RT: 11.457 min Scan# 1701
Delta R.T. 0.006 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion: 91 Resp: 3619

Ion	Ratio	Lower	Upper
91	100		
126	24.7	13.3	39.9

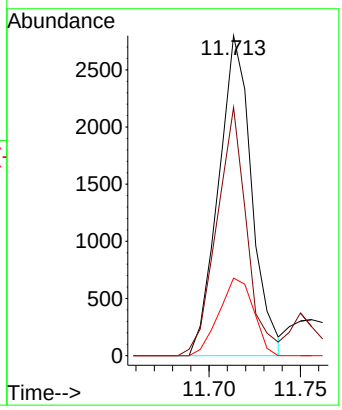




#83
tert-Butylbenzene
Concen: 0.883 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion:119 Resp: 353

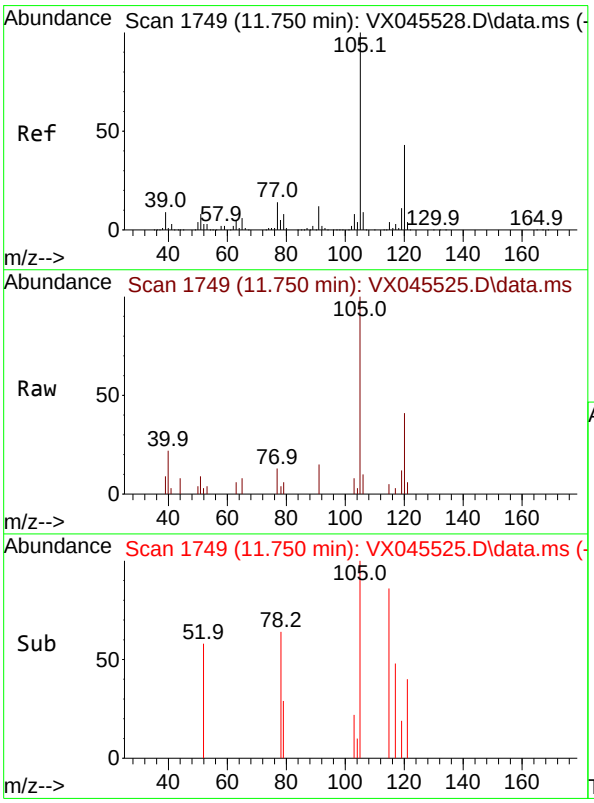
Ion	Ratio	Lower	Upper
119	100		
91	70.3	32.4	97.2
134	25.2	11.5	34.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

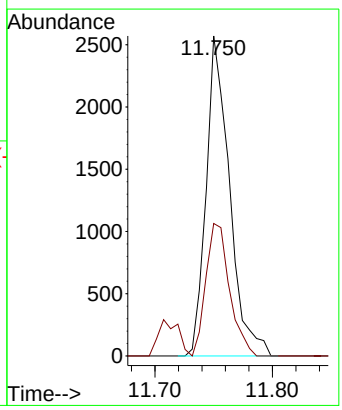
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

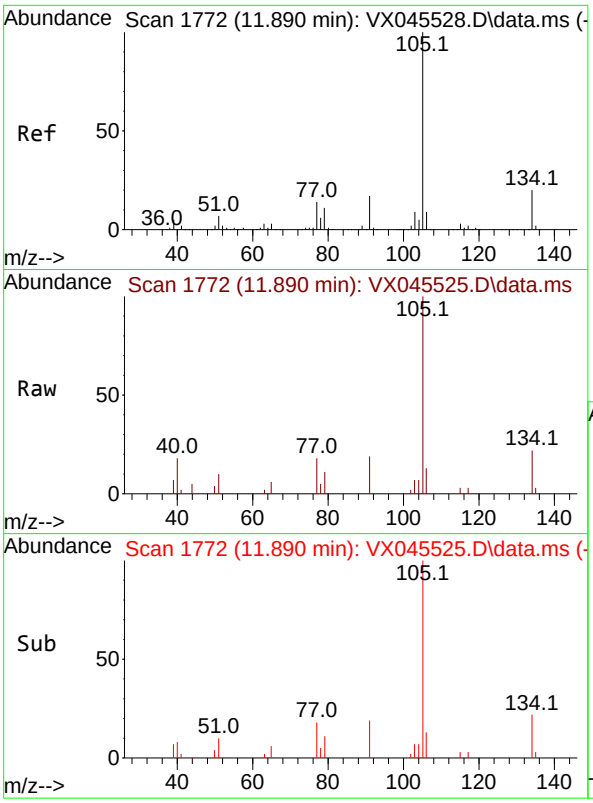


#84
1,2,4-Trimethylbenzene
Concen: 0.874 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion:105 Resp: 3552

Ion	Ratio	Lower	Upper
105	100		
120	42.0	21.4	64.3

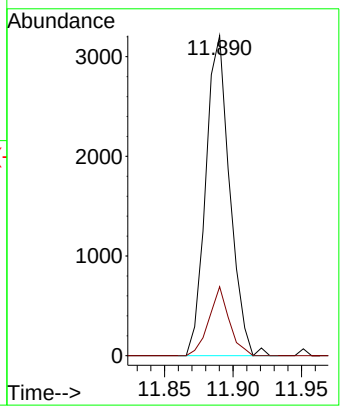




#85
sec-Butylbenzene
Concen: 0.793 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion:105 Resp: 390

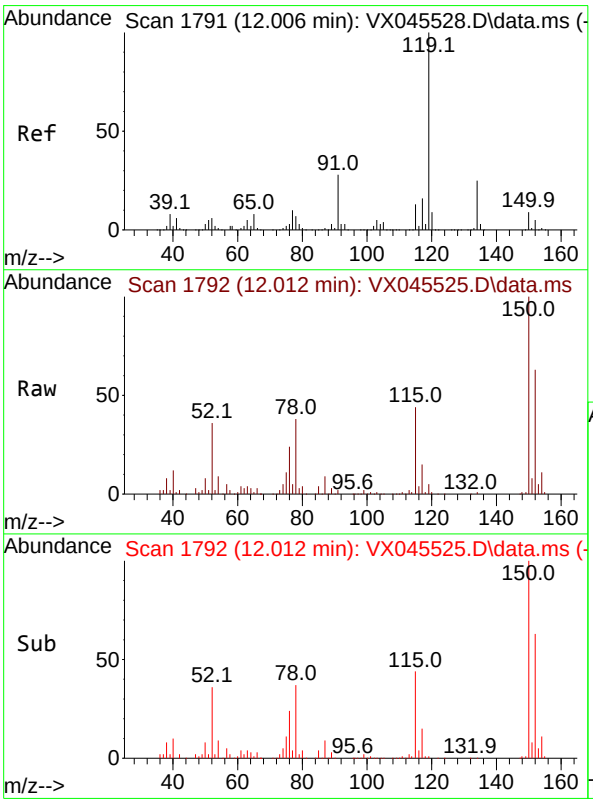
Ion	Ratio	Lower	Upper
105	100		
134	18.3	9.6	28.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

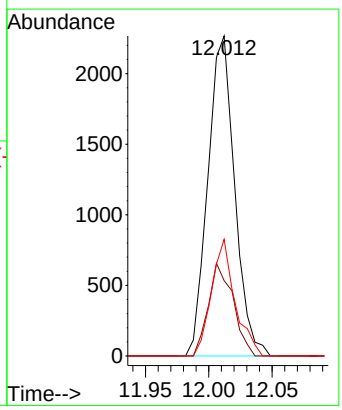
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

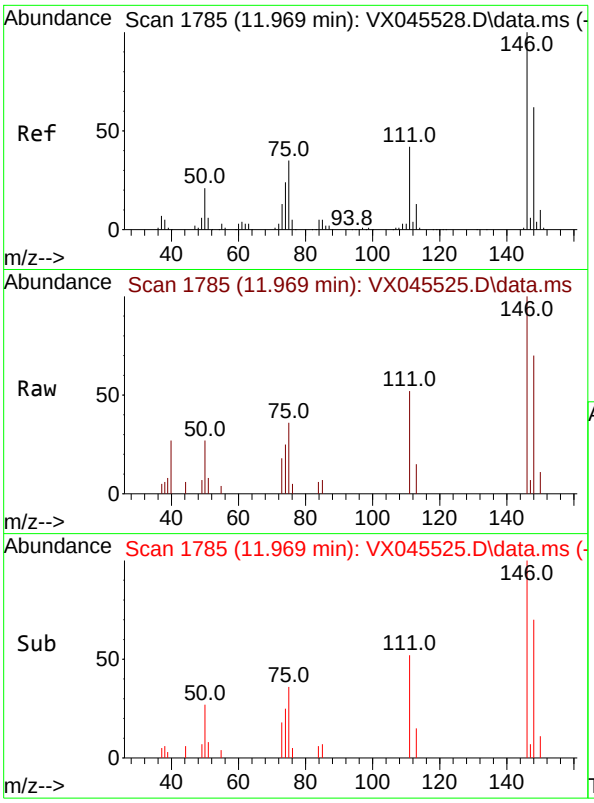


#86
p-Isopropyltoluene
Concen: 0.824 ug/l
RT: 12.012 min Scan# 1792
Delta R.T. 0.006 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion:119 Resp: 3342

Ion	Ratio	Lower	Upper
119	100		
134	26.6	12.6	37.8
91	31.9	13.7	41.1

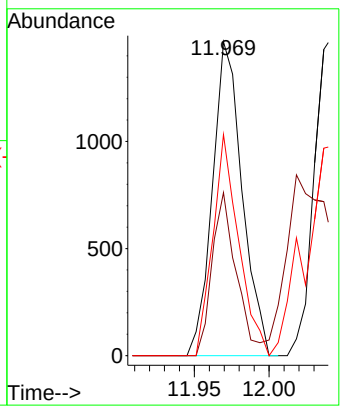




#87
1,3-Dichlorobenzene
Concen: 0.984 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion:146 Resp: 202

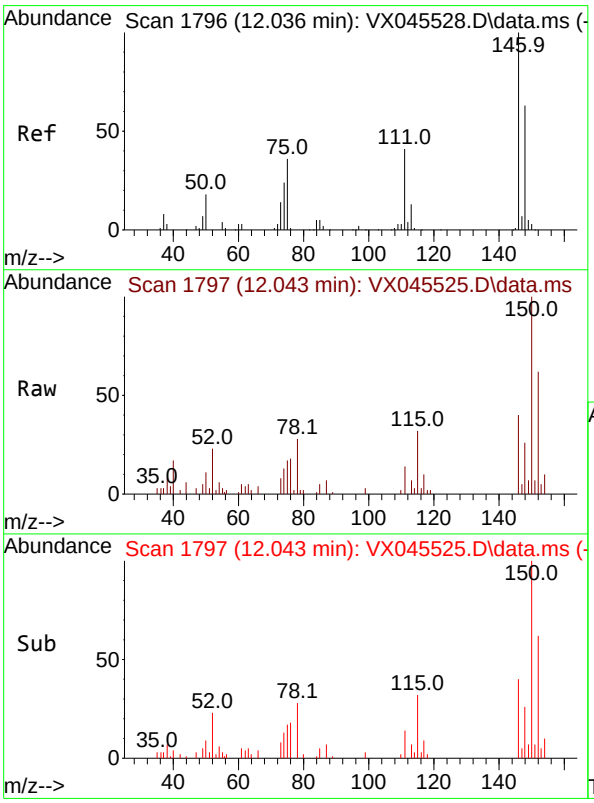
Ion	Ratio	Lower	Upper
146	100		
111	42.2	22.2	66.6
148	61.2	31.9	95.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

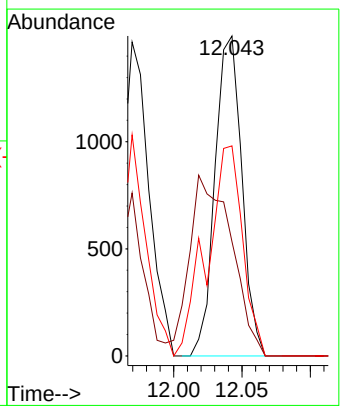
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

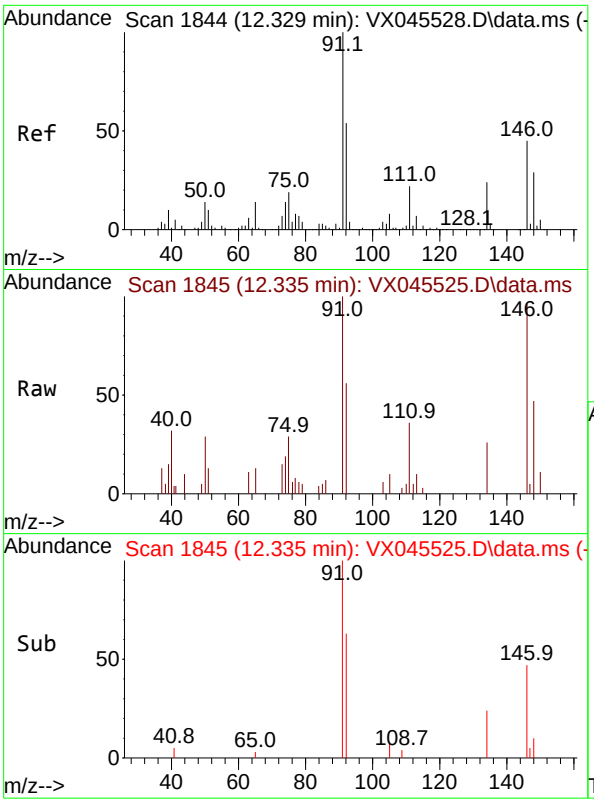


#88
1,4-Dichlorobenzene
Concen: 0.978 ug/l m
RT: 12.043 min Scan# 1797
Delta R.T. 0.006 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion:146 Resp: 2042

Ion	Ratio	Lower	Upper
146	100		
111	41.8	20.9	62.8
148	60.7	31.5	94.5

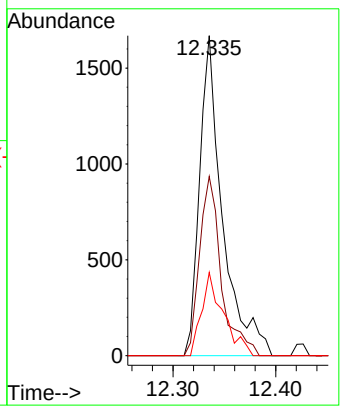




#89
n-Butylbenzene
Concen: 0.735 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion: 91 Resp: 258

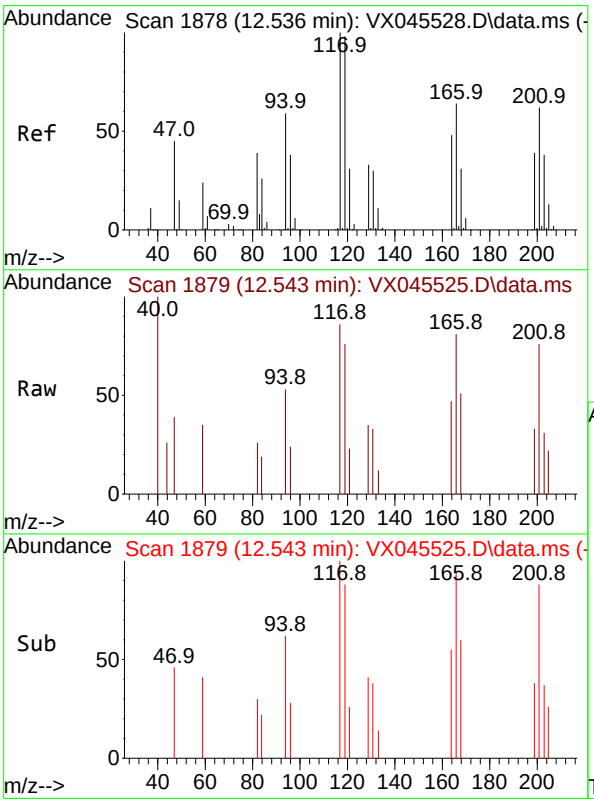
Ion	Ratio	Lower	Upper
91	100		
92	53.2	26.9	80.6
134	24.8	11.9	35.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

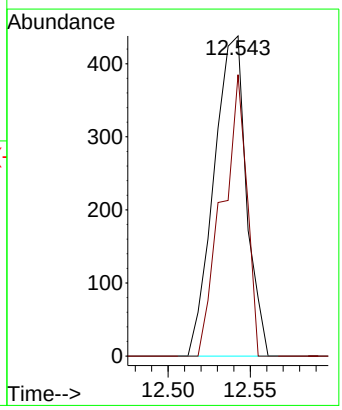
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

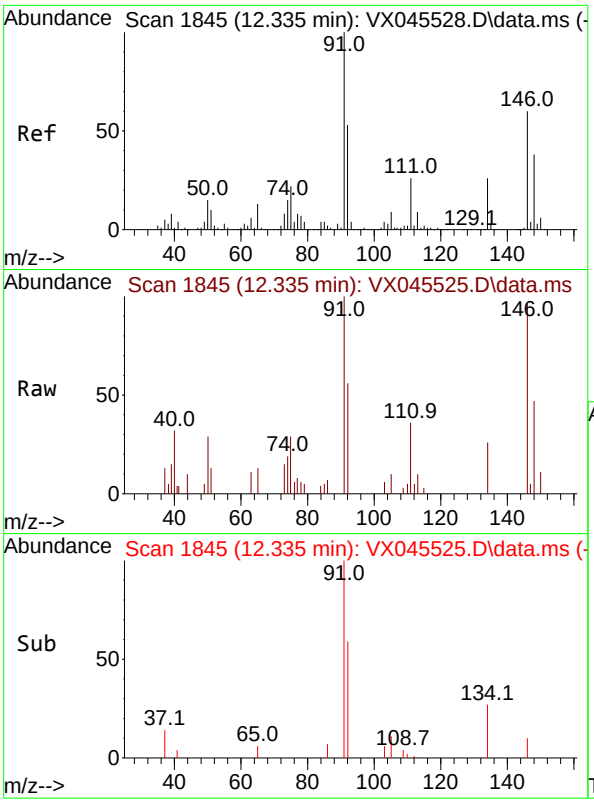


#90
Hexachloroethane
Concen: 0.863 ug/l
RT: 12.543 min Scan# 1879
Delta R.T. 0.006 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion:117 Resp: 602

Ion	Ratio	Lower	Upper
117	100		
201	66.3	31.2	93.6

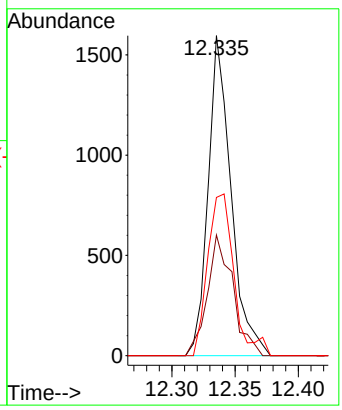




#91
1,2-Dichlorobenzene
Concen: 0.981 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion:146 Resp: 200

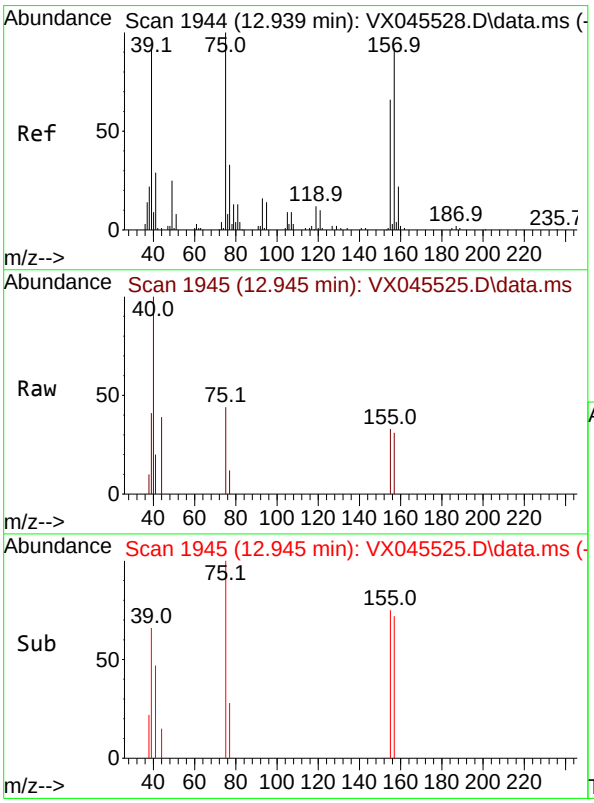
Ion	Ratio	Lower	Upper
146	100		
111	42.0	22.9	68.8
148	58.2	31.9	95.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

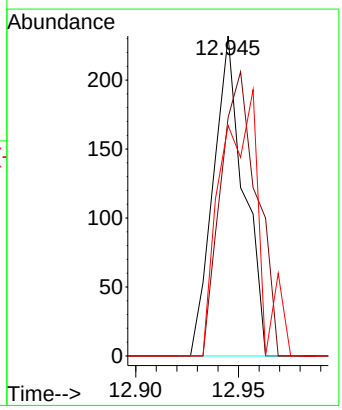
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

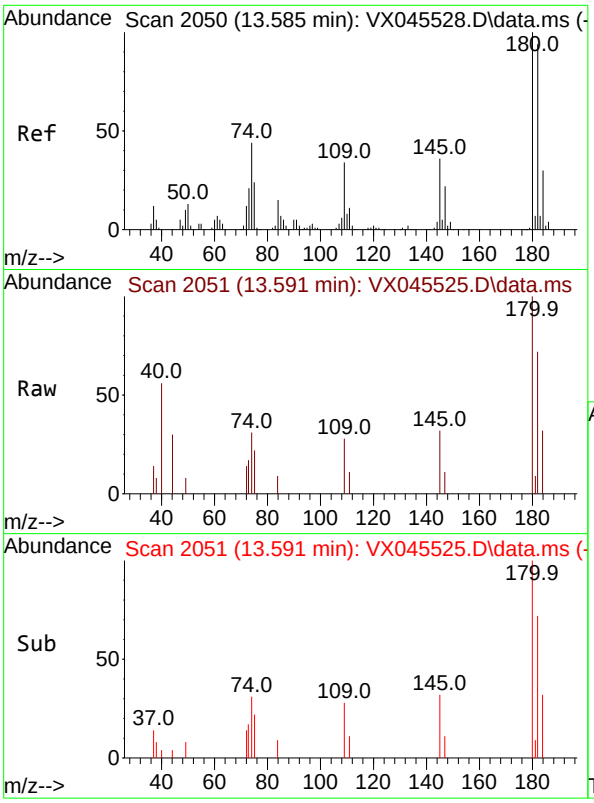


#92
1,2-Dibromo-3-Chloropropane
Concen: 0.665 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. 0.006 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion: 75 Resp: 239

Ion	Ratio	Lower	Upper
75	100		
155	105.4	34.9	104.7#
157	103.8	44.9	134.7

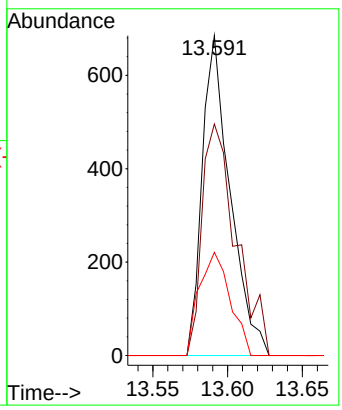




#93
1,2,4-Trichlorobenzene
Concen: 0.779 ug/l
RT: 13.591 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion:180 Resp: 88

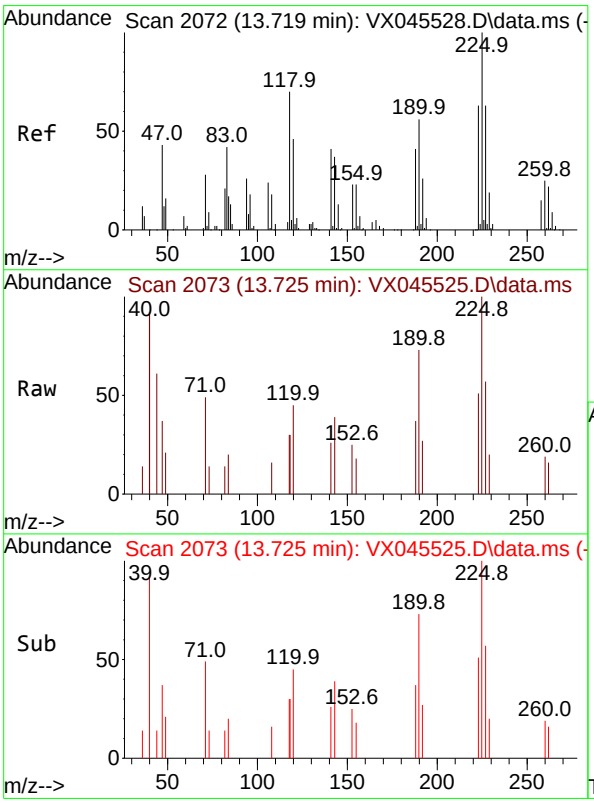
Ion	Ratio	Lower	Upper
180	100		
182	87.6	47.9	143.6
145	35.8	17.9	53.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

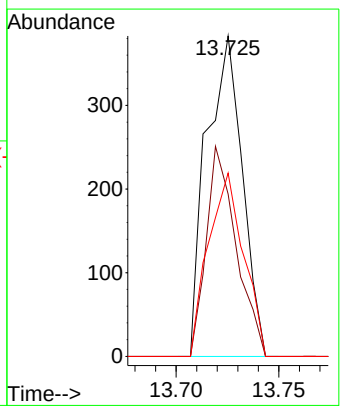
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

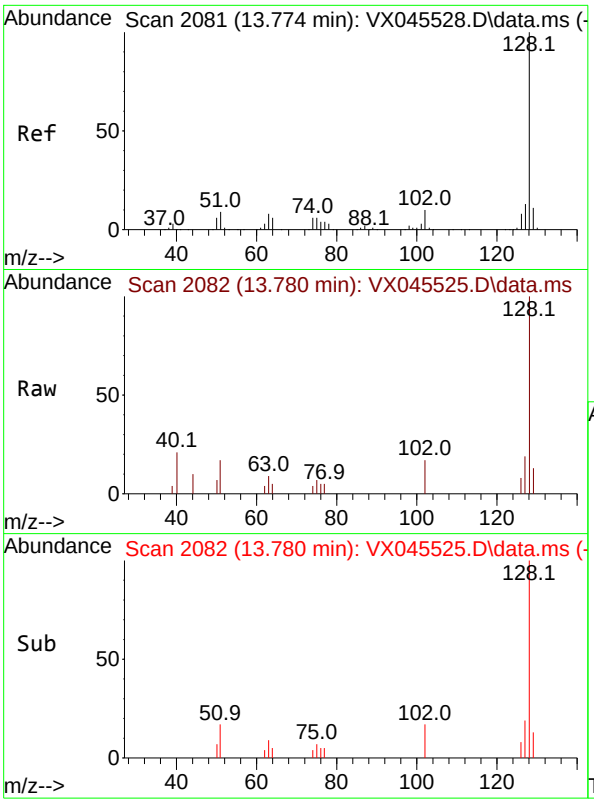


#94
Hexachlorobutadiene
Concen: 0.943 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.006 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion:225 Resp: 463

Ion	Ratio	Lower	Upper
225	100		
223	54.9	31.1	93.3
227	56.4	32.2	96.6

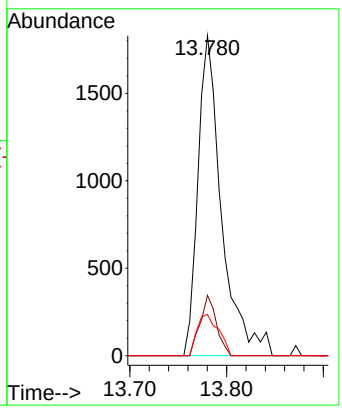




#95
Naphthalene
Concen: 0.733 ug/l
RT: 13.780 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion:128 Resp: 310

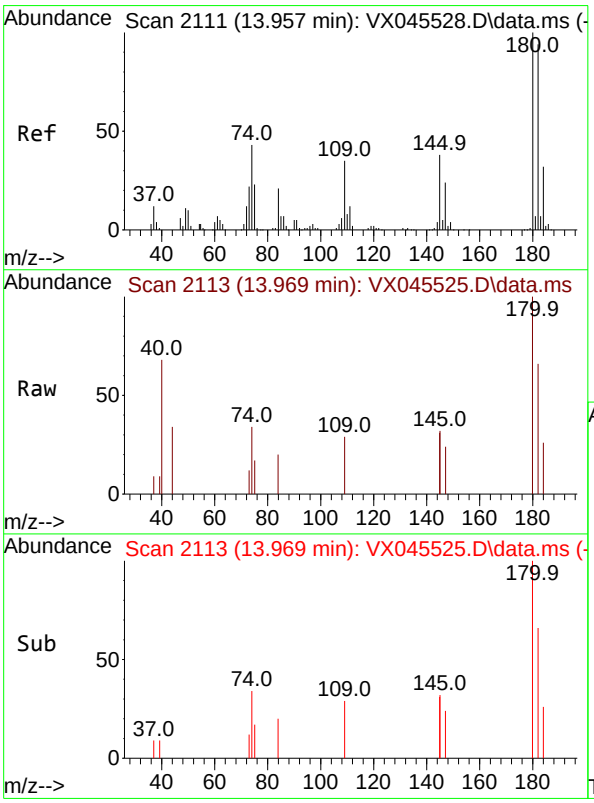
Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.3	15.5
129	11.7	8.6	12.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

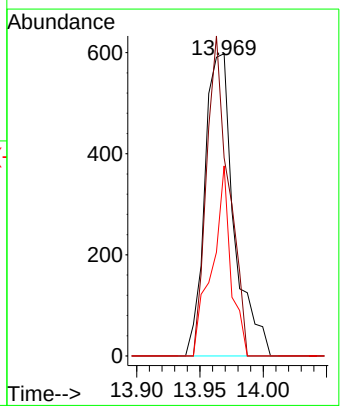
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#96
1,2,3-Trichlorobenzene
Concen: 0.801 ug/l
RT: 13.969 min Scan# 2113
Delta R.T. 0.012 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion:180 Resp: 956

Ion	Ratio	Lower	Upper
180	100		
182	80.5	47.3	141.8
145	40.4	18.2	54.6



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045526.D
Acq On : 01 Apr 2025 17:29
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 02 02:51:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 02:44:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	93234	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	166137	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	143937	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	63909	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	8969	5.260	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	10.520%#		
35) Dibromofluoromethane	5.391	113	6181	5.244	ug/l	0.01
Spiked Amount 50.000	Range 75 - 124		Recovery =	10.480%#		
50) Toluene-d8	8.647	98	20890	5.077	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	10.160%#		
62) 4-Bromofluorobenzene	11.079	95	6867	4.582	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	9.160%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	6482	4.649	ug/l	91
3) Chloromethane	1.307	50	6846	4.779	ug/l	99
4) Vinyl Chloride	1.374	62	6169	4.706	ug/l	100
5) Bromomethane	1.593	94	3185	5.124	ug/l	90
6) Chloroethane	1.666	64	3703	5.324	ug/l	96
7) Trichlorofluoromethane	1.874	101	9316	4.766	ug/l	94
8) Diethyl Ether	2.136	74	3171	4.832	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.325	101	5589	4.879	ug/l	99
10) Methyl Iodide	2.447	142	6574	4.601	ug/l	97
11) Tert butyl alcohol	2.983	59	5186	22.633	ug/l	99
12) 1,1-Dichloroethene	2.313	96	5485	4.901	ug/l	90
13) Acrolein	2.239	56	8202	25.993	ug/l	97
14) Allyl chloride	2.654	41	9960	4.690	ug/l	95
15) Acrylonitrile	3.069	53	17811	24.624	ug/l	97
16) Acetone	2.386	43	17188	24.550	ug/l	99
17) Carbon Disulfide	2.502	76	12376	4.477	ug/l #	93
18) Methyl Acetate	2.703	43	8042	4.989	ug/l	96
19) Methyl tert-butyl Ether	3.111	73	18314	4.677	ug/l	100
20) Methylene Chloride	2.782	84	6481	4.945	ug/l	96
21) trans-1,2-Dichloroethene	3.087	96	5534	4.840	ug/l	95
22) Diisopropyl ether	3.764	45	19765	4.725	ug/l #	82
23) Vinyl Acetate	3.721	43	78907	21.831	ug/l	98
24) 1,1-Dichloroethane	3.605	63	11562	4.887	ug/l	98
25) 2-Butanone	4.574	43	25026	24.419	ug/l	99
26) 2,2-Dichloropropane	4.477	77	7054	4.615	ug/l	95
27) cis-1,2-Dichloroethene	4.483	96	6485	4.655	ug/l	95
28) Bromochloromethane	4.898	49	5666	4.956	ug/l	95
29) Tetrahydrofuran	5.013	42	15913	23.950	ug/l	100
30) Chloroform	5.087	83	12200	5.012	ug/l	99
31) Cyclohexane	5.465	56	9731	4.653	ug/l	97
32) 1,1,1-Trichloroethane	5.379	97	9811	4.763	ug/l	99
36) 1,1-Dichloropropene	5.690	75	7354	4.621	ug/l	98
37) Ethyl Acetate	4.721	43	9384	4.679	ug/l #	91
38) Carbon Tetrachloride	5.666	117	8264	4.804	ug/l	99
39) Methylcyclohexane	7.379	83	8757	4.489	ug/l	95
40) Benzene	6.038	78	23522	4.839	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045526.D
Acq On : 01 Apr 2025 17:29
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 02 02:51:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 02:44:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.922	41	4593	4.302	ug/l		92
42) 1,2-Dichloroethane	6.092	62	9713	4.838	ug/l		100
43) Isopropyl Acetate	6.348	43	13803	4.541	ug/l		97
44) Trichloroethene	7.129	130	5355	4.635	ug/l		99
45) 1,2-Dichloropropane	7.434	63	6060	4.997	ug/l		99
46) Dibromomethane	7.580	93	4767	5.120	ug/l		99
47) Bromodichloromethane	7.818	83	8619	4.636	ug/l	#	97
48) Methyl methacrylate	7.696	41	6908	4.401	ug/l		98
49) 1,4-Dioxane	7.665	88	3205	112.864	ug/l		95
51) 4-Methyl-2-Pentanone	8.574	43	48050	23.844	ug/l		97
52) Toluene	8.714	92	14391	4.893	ug/l		100
53) t-1,3-Dichloropropene	8.982	75	6643	5.834	ug/l		97
54) cis-1,3-Dichloropropene	8.366	75	7873	4.506	ug/l		95
55) 1,1,2-Trichloroethane	9.153	97	5741	4.898	ug/l		90
56) Ethyl methacrylate	9.116	69	8012	4.417	ug/l		95
57) 1,3-Dichloropropane	9.305	76	10208	5.002	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.244	63	21382	23.302	ug/l		99
59) 2-Hexanone	9.433	43	35628	23.875	ug/l		99
60) Dibromochloromethane	9.519	129	5855	4.582	ug/l		99
61) 1,2-Dibromoethane	9.610	107	5837	4.920	ug/l		98
64) Tetrachloroethene	9.275	164	5373	5.287	ug/l		93
65) Chlorobenzene	10.073	112	15178	4.935	ug/l		96
66) 1,1,1,2-Tetrachloroethane	10.159	131	4945	4.631	ug/l		97
67) Ethyl Benzene	10.195	91	26180	4.753	ug/l		97
68) m/p-Xylenes	10.299	106	19268	9.617	ug/l		99
69) o-Xylene	10.640	106	9735	4.932	ug/l		99
70) Styrene	10.653	104	15017	4.610	ug/l		96
71) Bromoform	10.799	173	3634	4.558	ug/l	#	95
73) Isopropylbenzene	10.964	105	24604	4.806	ug/l		100
74) N-amyl acetate	10.848	43	10750	4.390	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.213	83	9127	5.075	ug/l		98
76) 1,2,3-Trichloropropane	11.238	75	8032m	5.152	ug/l		
77) Bromobenzene	11.195	156	5927	5.011	ug/l		97
78) n-propylbenzene	11.305	91	27777	4.711	ug/l		98
79) 2-Chlorotoluene	11.360	91	18358	4.870	ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	19936	4.710	ug/l		98
81) trans-1,4-Dichloro-2-b...	11.018	75	1752	3.814	ug/l		85
82) 4-Chlorotoluene	11.457	91	20171	4.799	ug/l		99
83) tert-Butylbenzene	11.713	119	19962	4.763	ug/l		98
84) 1,2,4-Trimethylbenzene	11.750	105	19998	4.707	ug/l		99
85) sec-Butylbenzene	11.890	105	24465	4.753	ug/l		100
86) p-Isopropyltoluene	12.006	119	20178	4.755	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	10255	4.763	ug/l		98
88) 1,4-Dichlorobenzene	12.036	146	11016	5.047	ug/l		93
89) n-Butylbenzene	12.329	91	15887	4.317	ug/l		98
90) Hexachloroethane	12.536	117	3151	4.320	ug/l		98
91) 1,2-Dichlorobenzene	12.335	146	10510	4.910	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.945	75	1661	4.417	ug/l		92
93) 1,2,4-Trichlorobenzene	13.591	180	5391	4.524	ug/l		95
94) Hexachlorobutadiene	13.719	225	2483	4.836	ug/l		98
95) Naphthalene	13.774	128	19618	4.424	ug/l		97
96) 1,2,3-Trichlorobenzene	13.957	180	5854	4.692	ug/l		97

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045526.D
Acq On : 01 Apr 2025 17:29
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 02 02:51:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 02:44:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

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

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

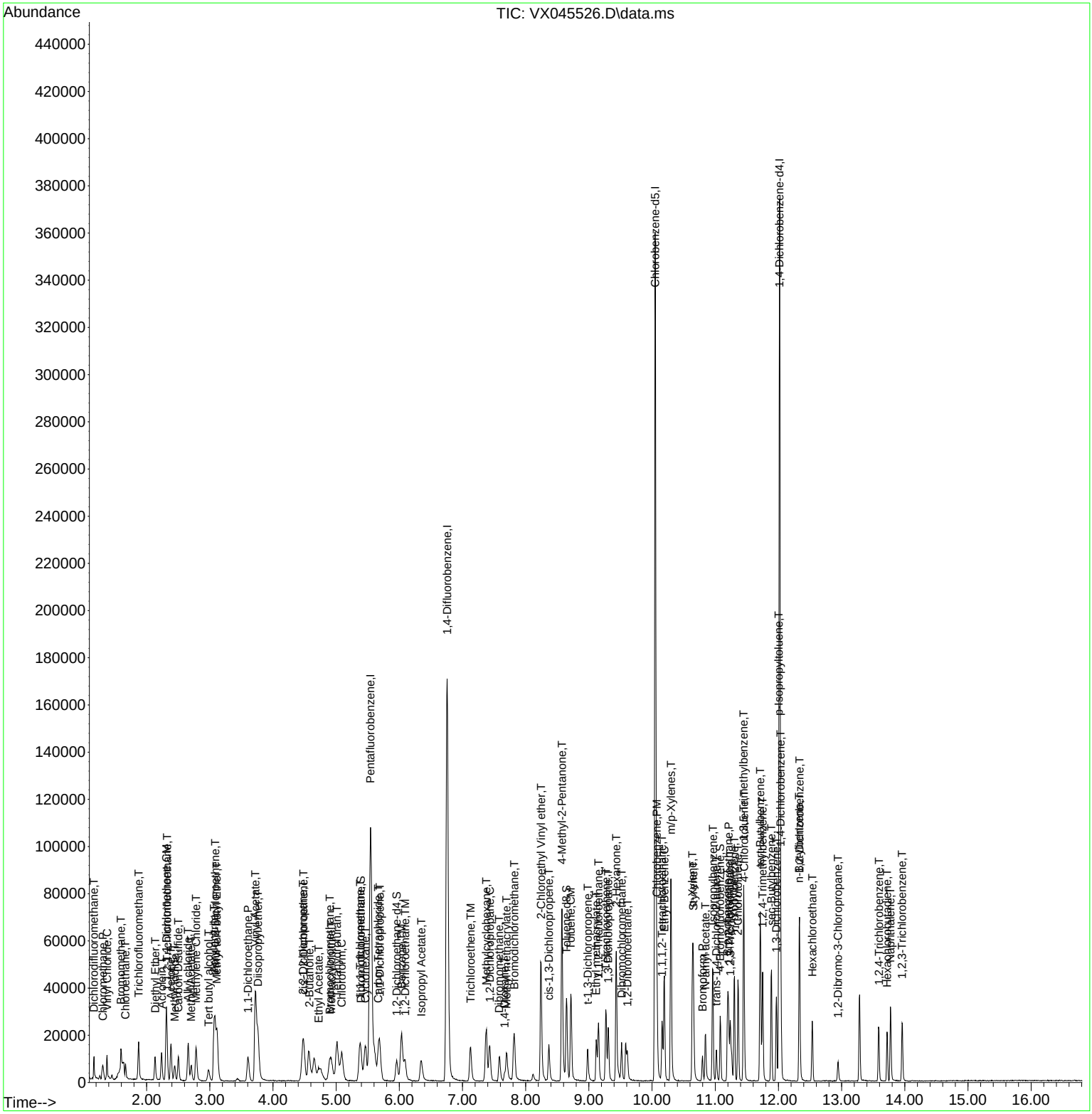
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045526.D
Acq On : 01 Apr 2025 17:29
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

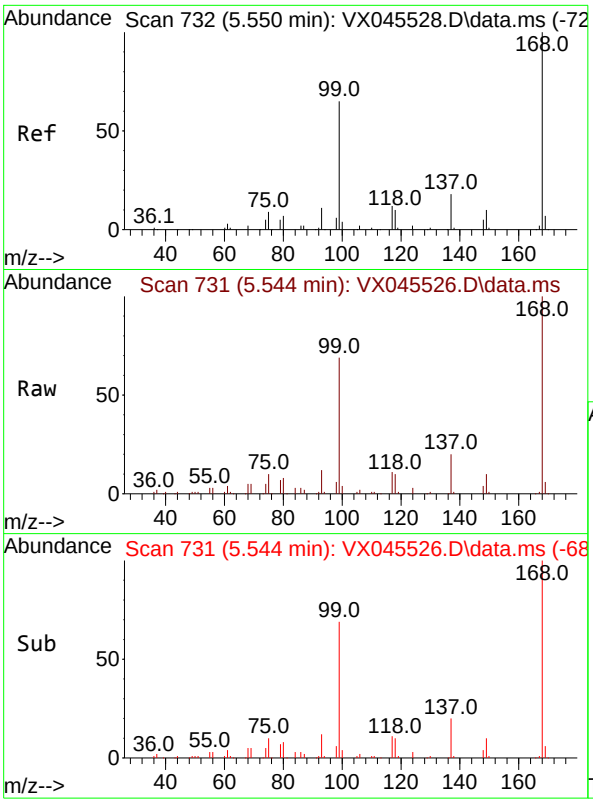
Quant Time: Apr 02 02:51:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 02:44:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

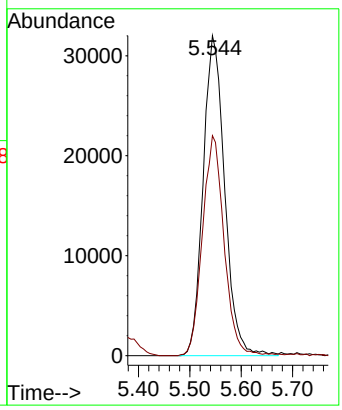




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion:168 Resp: 9323

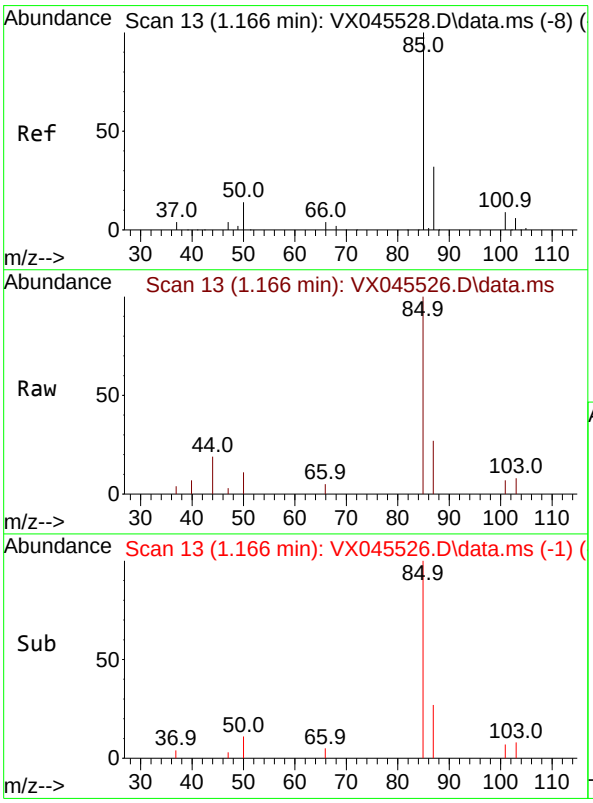
Ion	Ratio	Lower	Upper
168	100		
99	68.8	52.3	78.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

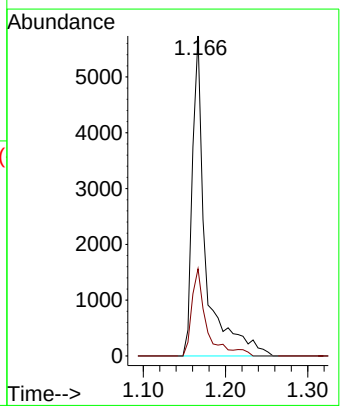
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

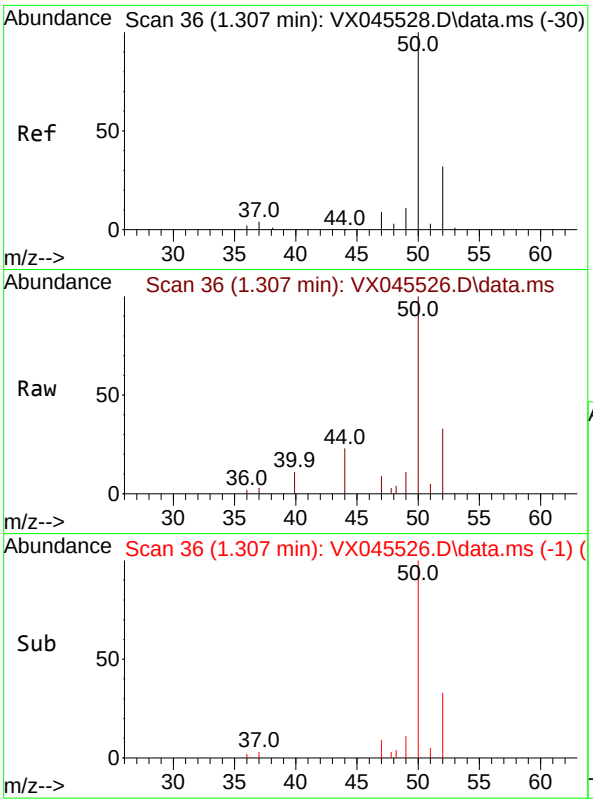


#2
Dichlorodifluoromethane
Concen: 4.649 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion: 85 Resp: 6482

Ion	Ratio	Lower	Upper
85	100		
87	27.3	16.1	48.2

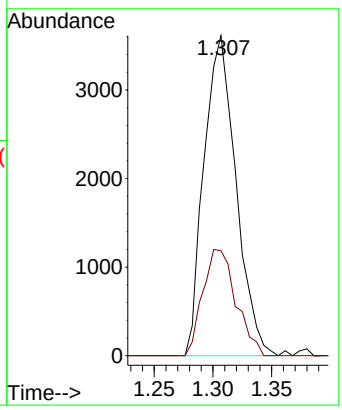




#3
Chloromethane
Concen: 4.779 ug/l
RT: 1.307 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion: 50 Resp: 684

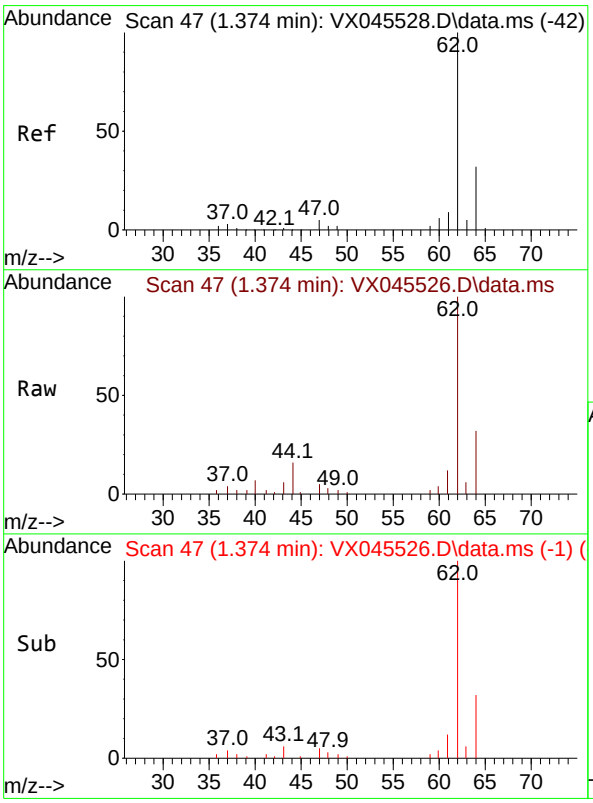
Ion	Ratio	Lower	Upper
50	100		
52	32.8	25.9	38.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

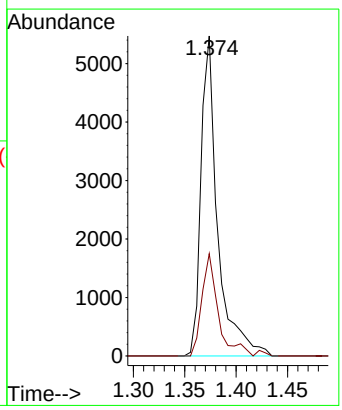
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

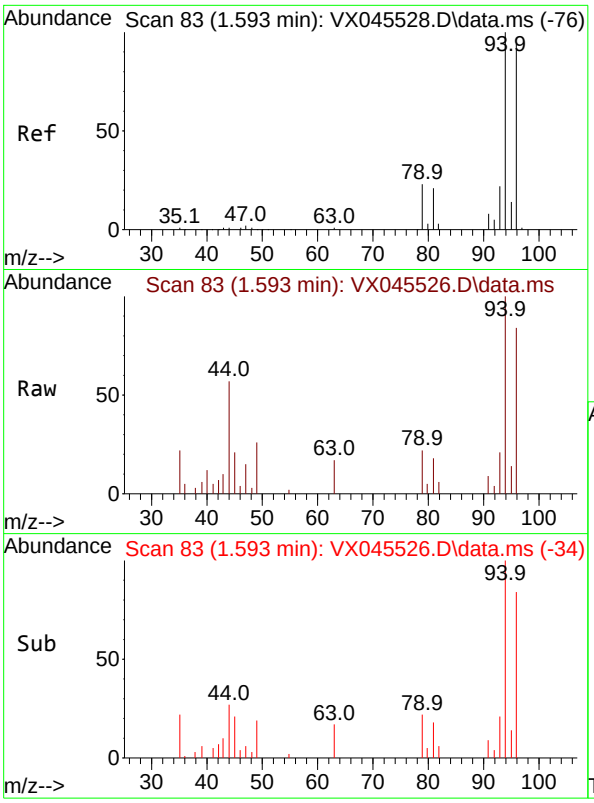


#4
Vinyl Chloride
Concen: 4.706 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion: 62 Resp: 6169

Ion	Ratio	Lower	Upper
62	100		
64	31.9	25.5	38.3

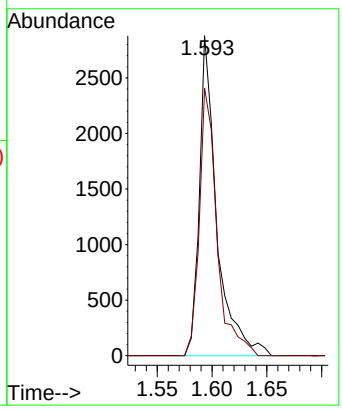




#5
Bromomethane
Concen: 5.124 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion: 94 Resp: 318

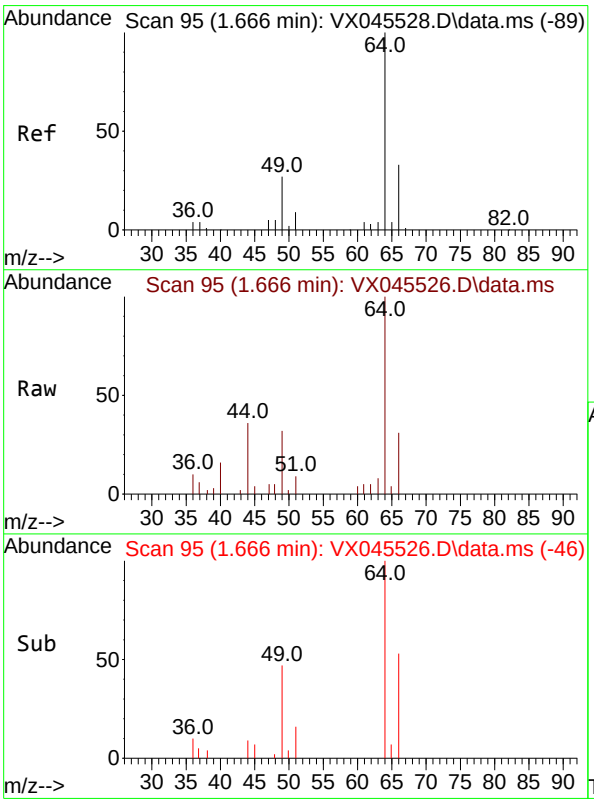
Ion	Ratio	Lower	Upper
94	100		
96	83.6	74.8	112.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

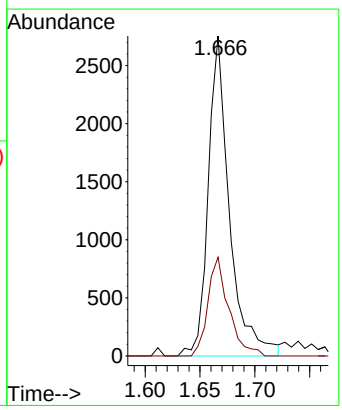
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

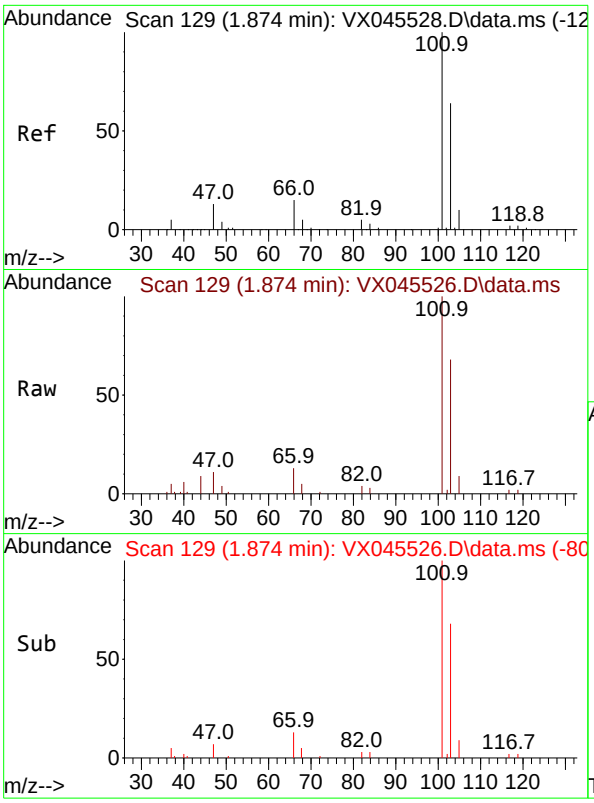


#6
Chloroethane
Concen: 5.324 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.000 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion: 64 Resp: 3703

Ion	Ratio	Lower	Upper
64	100		
66	30.9	26.3	39.5





#7
Trichlorofluoromethane
Concen: 4.766 ug/l
RT: 1.874 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

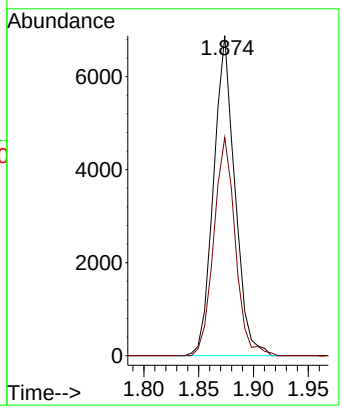
Tgt Ion:101 Resp: 931

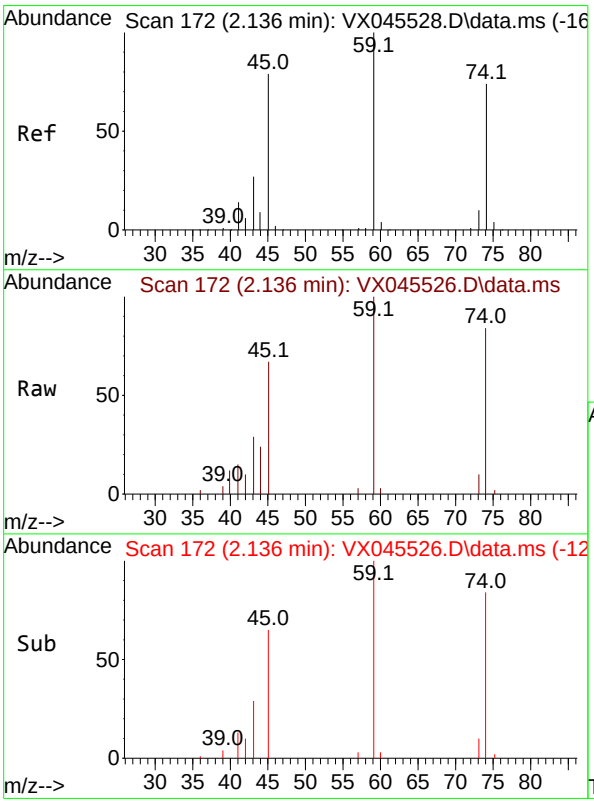
Ion	Ratio	Lower	Upper
101	100		
103	68.2	51.1	76.7

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

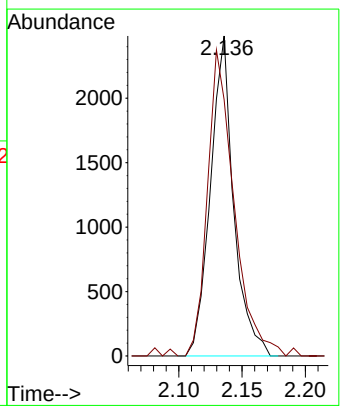


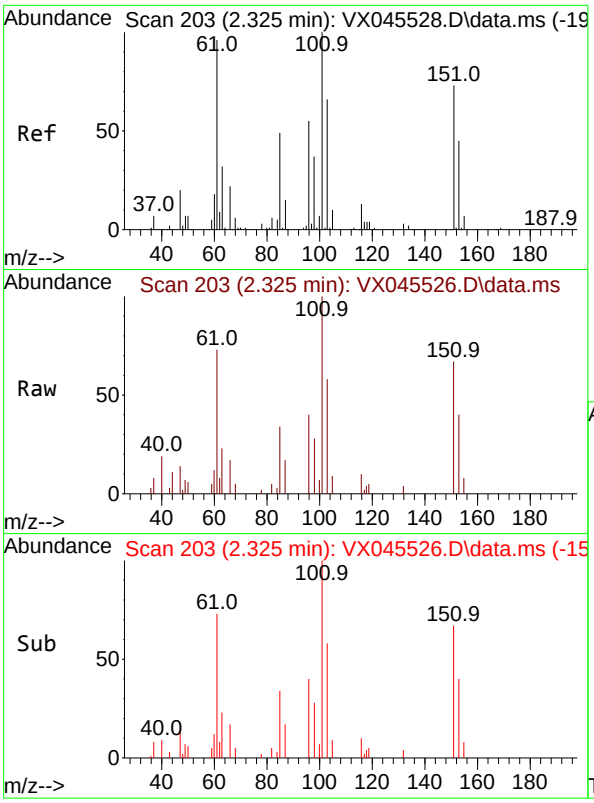


#8
Diethyl Ether
Concen: 4.832 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion: 74 Resp: 3171

Ion	Ratio	Lower	Upper
74	100		
45	110.2	53.0	159.1

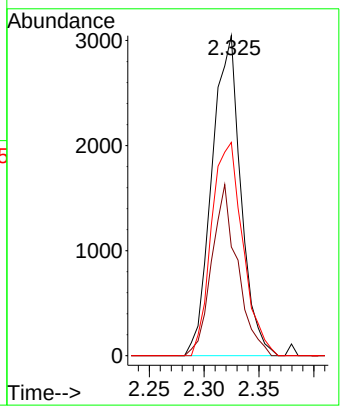




#9
1,1,2-Trichlorotrifluoroethane
Concen: 4.879 ug/l
RT: 2.325 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion:101 Resp: 558

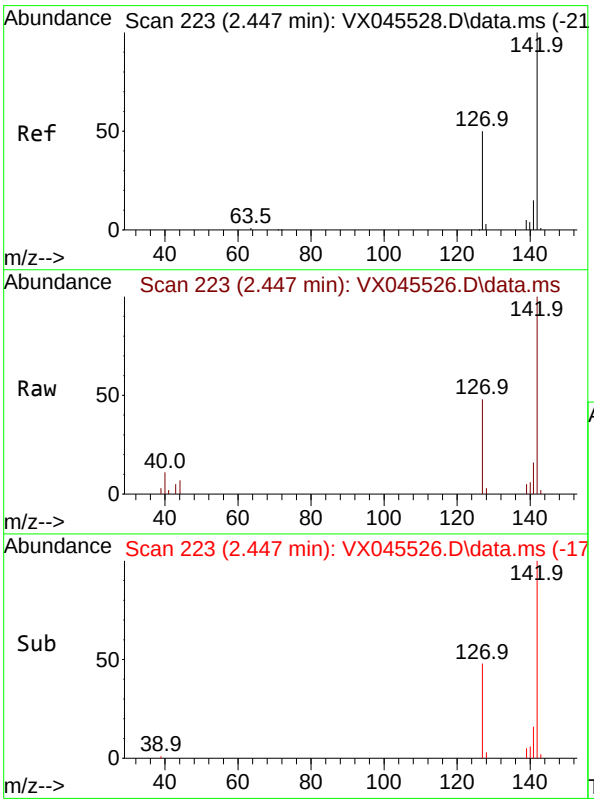
Ion	Ratio	Lower	Upper
101	100		
85	47.8	38.9	58.3
151	72.4	57.5	86.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

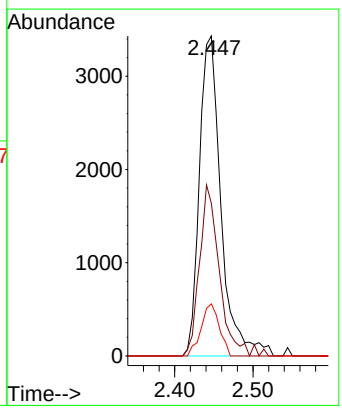
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

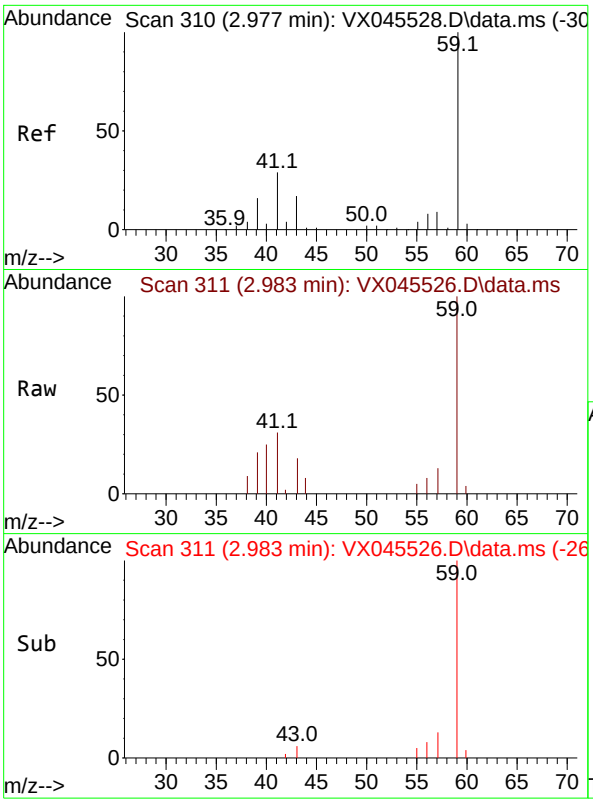


#10
Methyl Iodide
Concen: 4.601 ug/l
RT: 2.447 min Scan# 223
Delta R.T. 0.000 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion:142 Resp: 6574

Ion	Ratio	Lower	Upper
142	100		
127	48.4	40.2	60.4
141	13.7	11.7	17.5

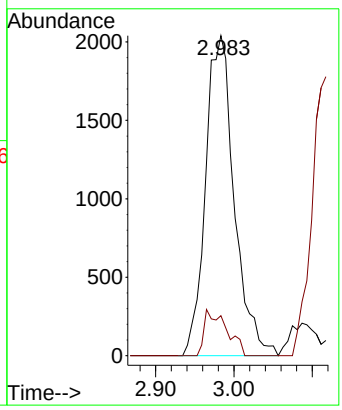




#11
Tert butyl alcohol
Concen: 22.633 ug/l
RT: 2.983 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion: 59 Resp: 518

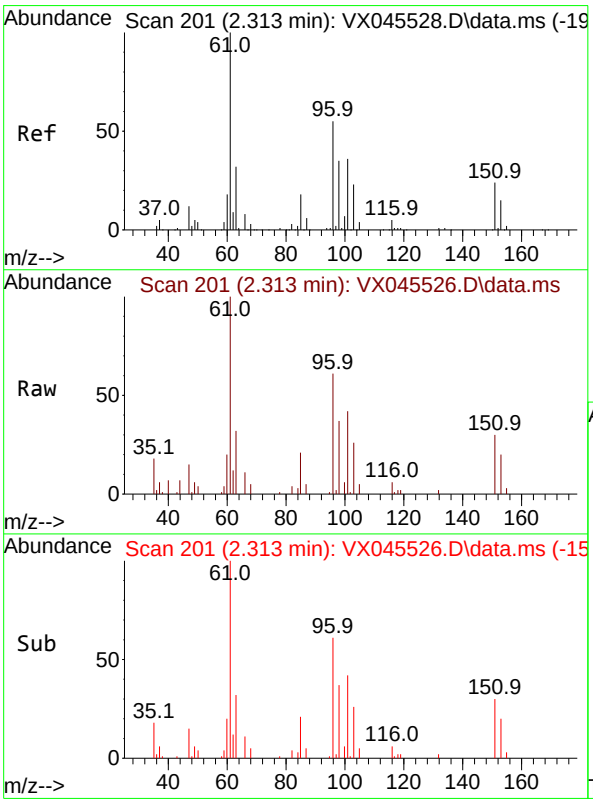
Ion	Ratio	Lower	Upper
59	100		
57	11.2	8.6	12.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

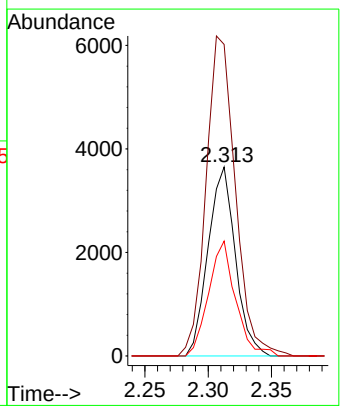
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

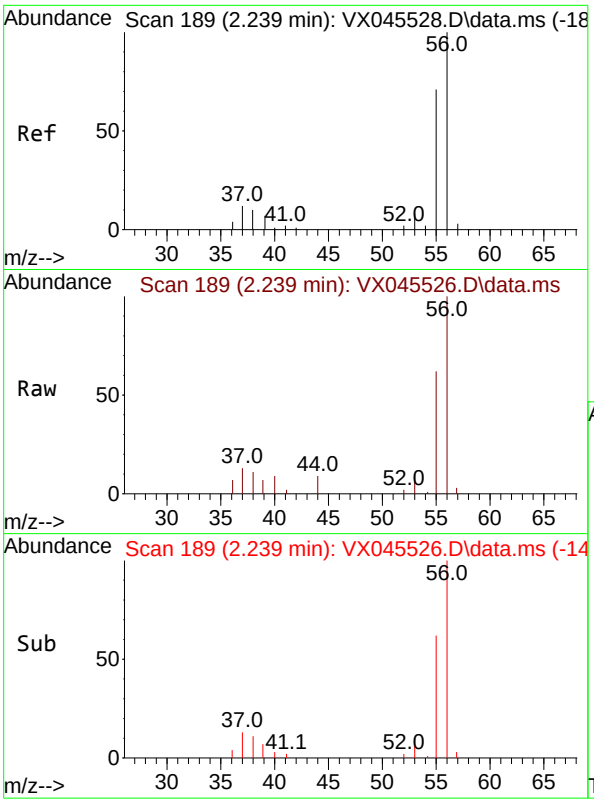


#12
1,1-Dichloroethene
Concen: 4.901 ug/l
RT: 2.313 min Scan# 201
Delta R.T. 0.000 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion: 96 Resp: 5485

Ion	Ratio	Lower	Upper
96	100		
61	164.9	145.7	218.5
98	60.8	51.6	77.4

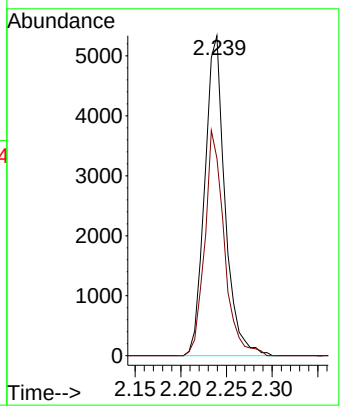




#13
Acrolein
Concen: 25.993 ug/l
RT: 2.239 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion: 56 Resp: 820

Ion	Ratio	Lower	Upper
56	100		
55	67.9	56.2	84.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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Reviewed By :Amit Patel 04/02/2025
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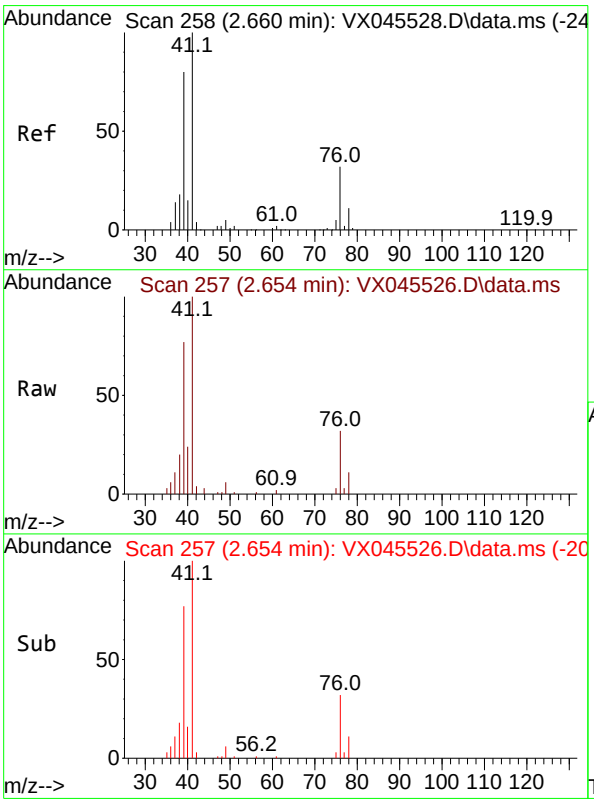
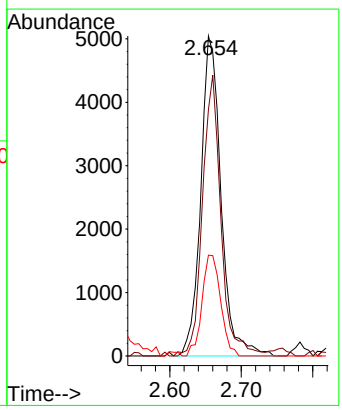
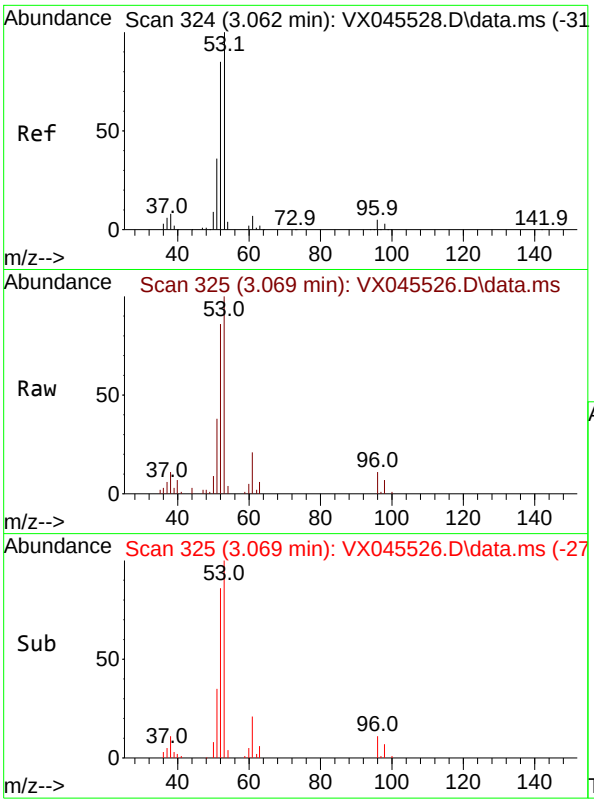


#14
Allyl chloride
Concen: 4.690 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.006 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion: 41 Resp: 9960

Ion	Ratio	Lower	Upper
41	100		
39	79.8	60.2	90.2
76	28.8	24.6	36.8





#15
Acrylonitrile
Concen: 24.624 ug/l
RT: 3.069 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

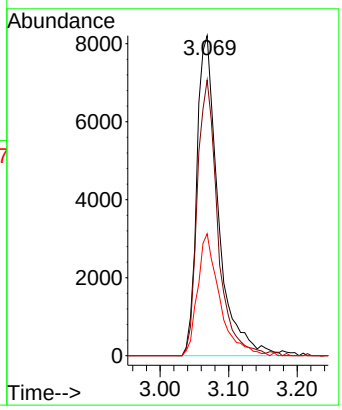
Tgt Ion: 53 Resp: 1781

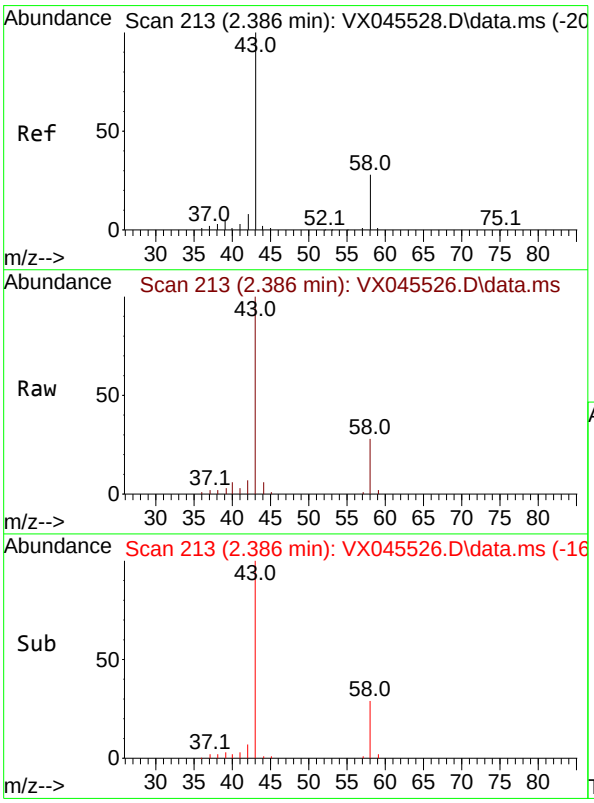
Ion	Ratio	Lower	Upper
53	100		
52	82.1	67.4	101.2
51	39.3	29.9	44.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

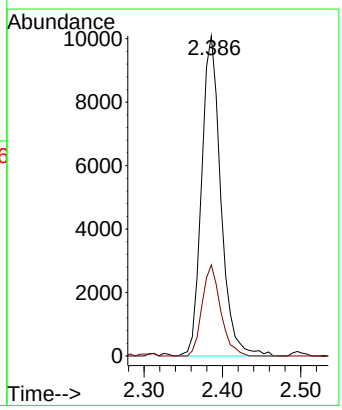


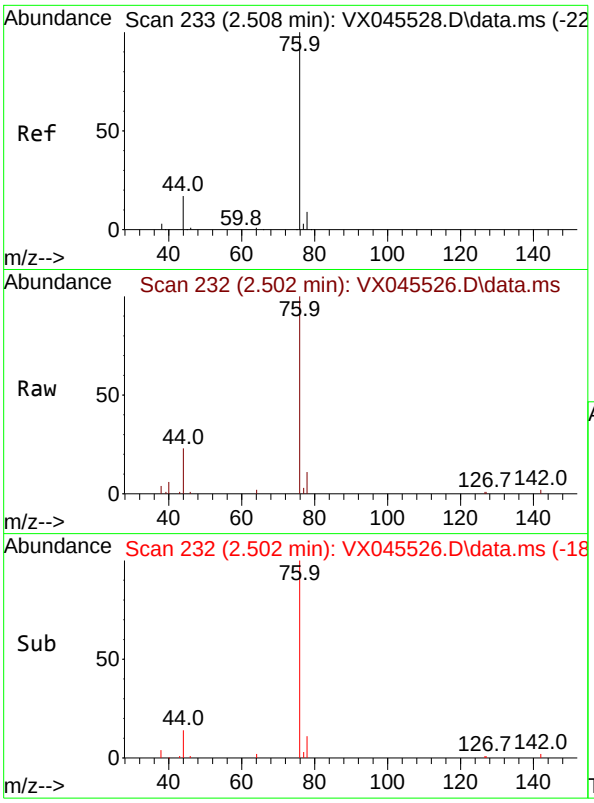


#16
Acetone
Concen: 24.550 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.000 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion: 43 Resp: 17188

Ion	Ratio	Lower	Upper
43	100		
58	28.4	22.3	33.5

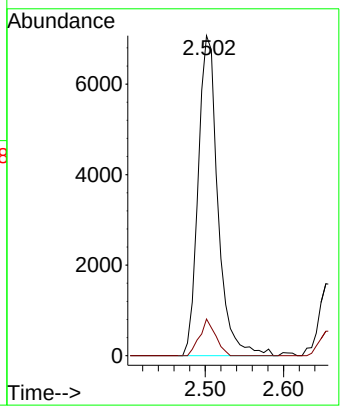




#17
Carbon Disulfide
Concen: 4.477 ug/l
RT: 2.502 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion: 76 Resp: 1237

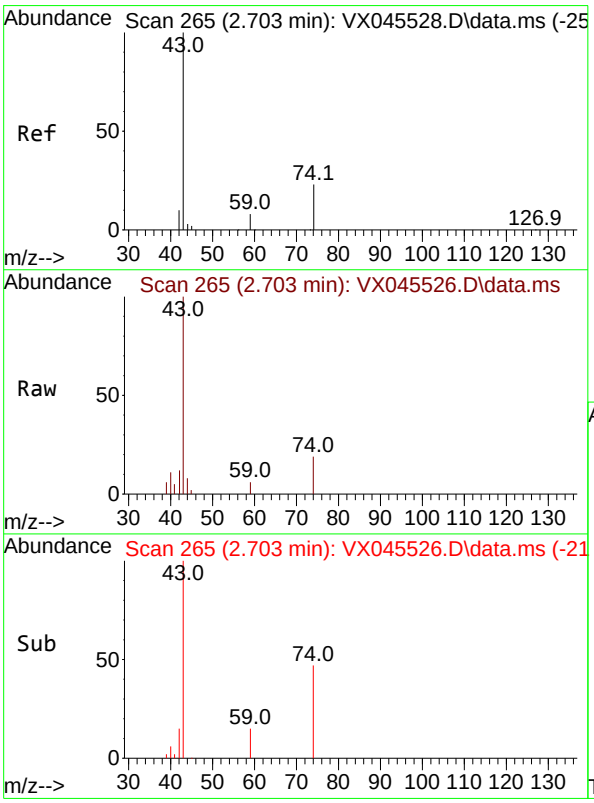
Ion	Ratio	Lower	Upper
76	100		
78	11.4	7.0	10.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

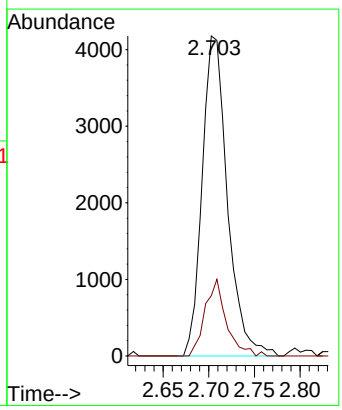
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

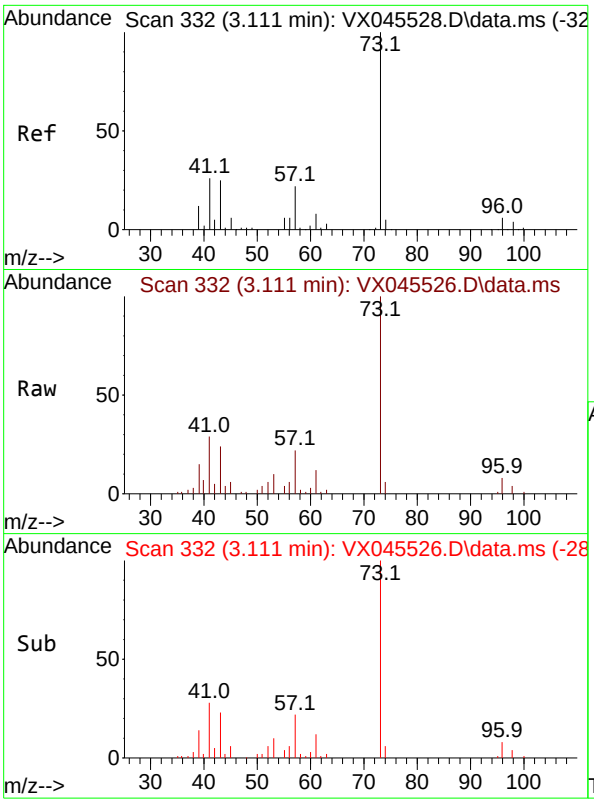


#18
Methyl Acetate
Concen: 4.989 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion: 43 Resp: 8042

Ion	Ratio	Lower	Upper
43	100		
74	20.2	17.5	26.3

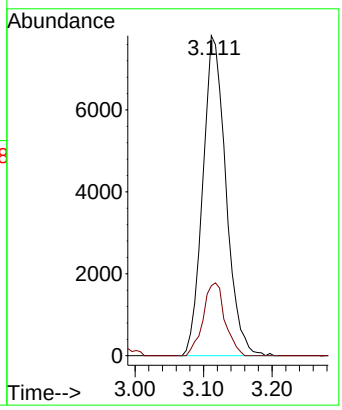




#19
Methyl tert-butyl Ether
Concen: 4.677 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion: 73 Resp: 1831

Ion	Ratio	Lower	Upper
73	100		
57	21.9	17.6	26.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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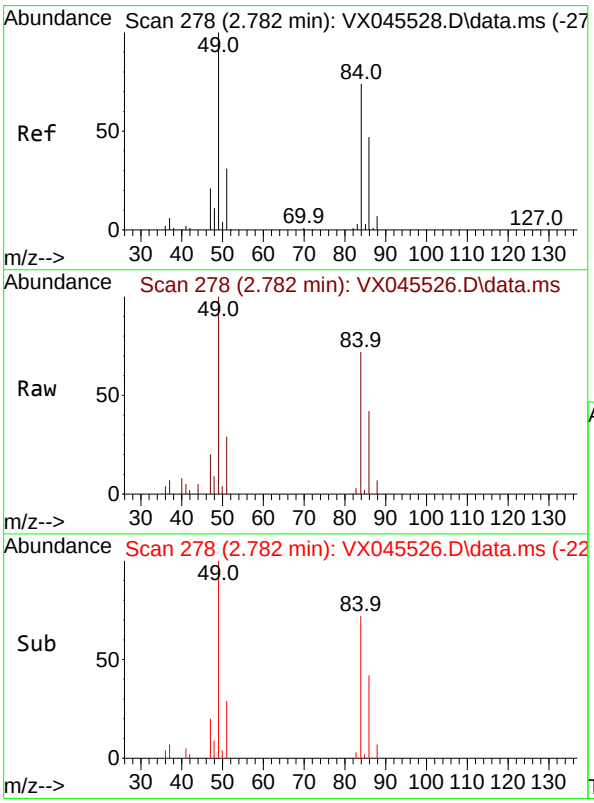
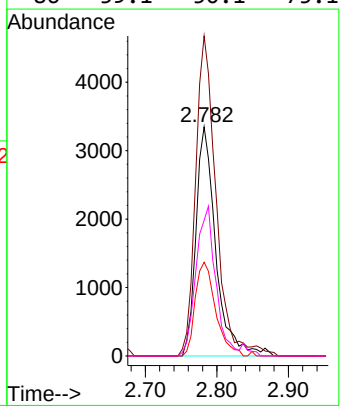
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

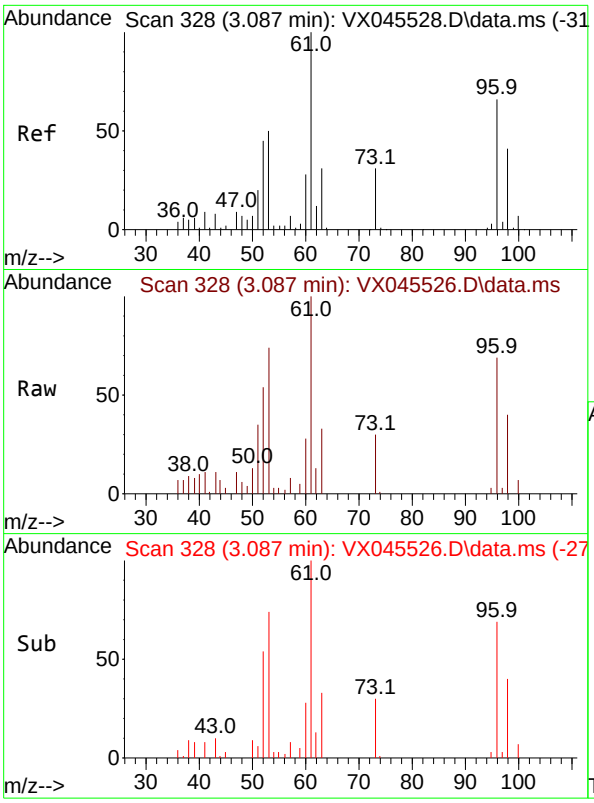


#20
Methylene Chloride
Concen: 4.945 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion: 84 Resp: 6481

Ion	Ratio	Lower	Upper
84	100		
49	139.6	107.5	161.3
51	40.9	33.0	49.6
86	59.1	50.1	75.1

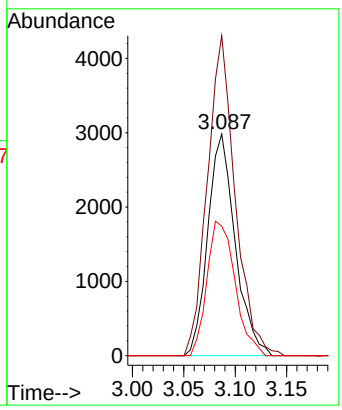




#21
trans-1,2-Dichloroethene
Concen: 4.840 ug/l
RT: 3.087 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion: 96 Resp: 553

Ion	Ratio	Lower	Upper
96	100		
61	144.4	121.0	181.6
98	58.5	49.7	74.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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Reviewed By :Amit Patel 04/02/2025
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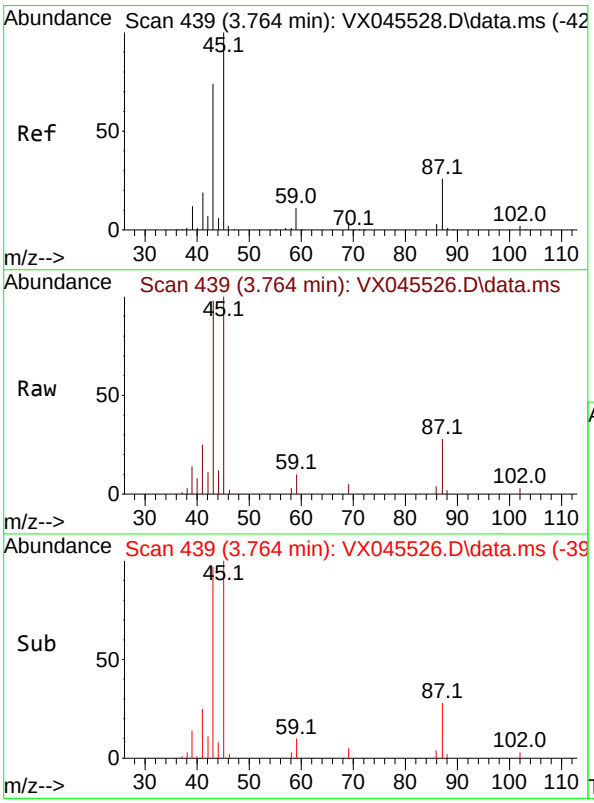
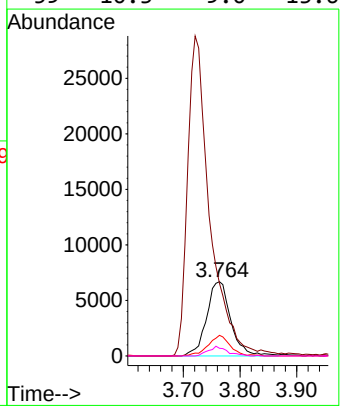
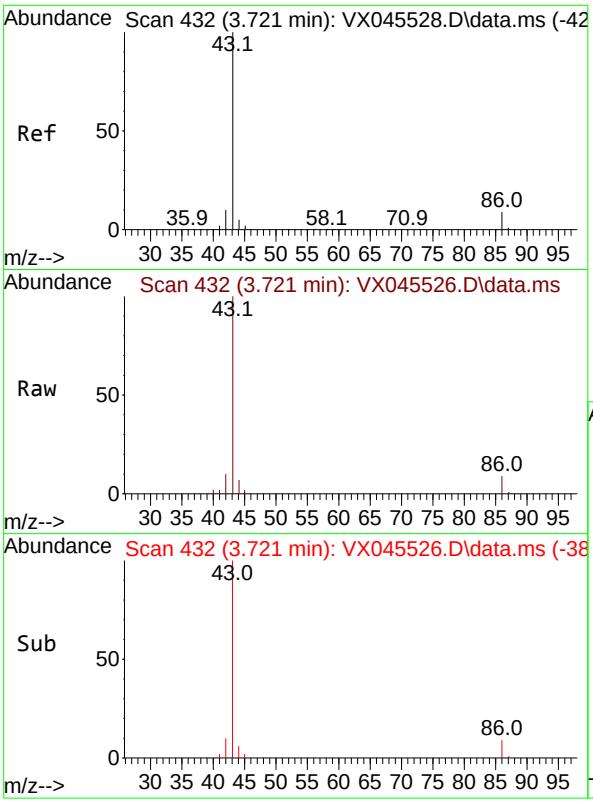


#22
Diisopropyl ether
Concen: 4.725 ug/l
RT: 3.764 min Scan# 439
Delta R.T. 0.000 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion: 45 Resp: 19765

Ion	Ratio	Lower	Upper
45	100		
43	94.7	59.3	88.9#
87	27.8	20.4	30.6
59	10.3	9.0	13.6

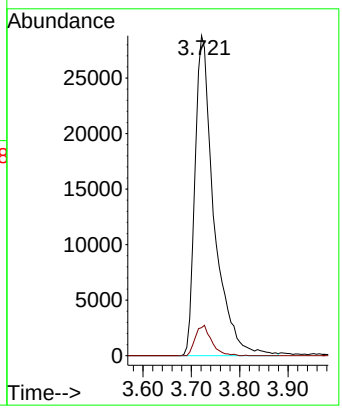




#23
Vinyl Acetate
Concen: 21.831 ug/l
RT: 3.721 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion: 43 Resp: 7890

Ion	Ratio	Lower	Upper
43	100		
86	8.7	7.5	11.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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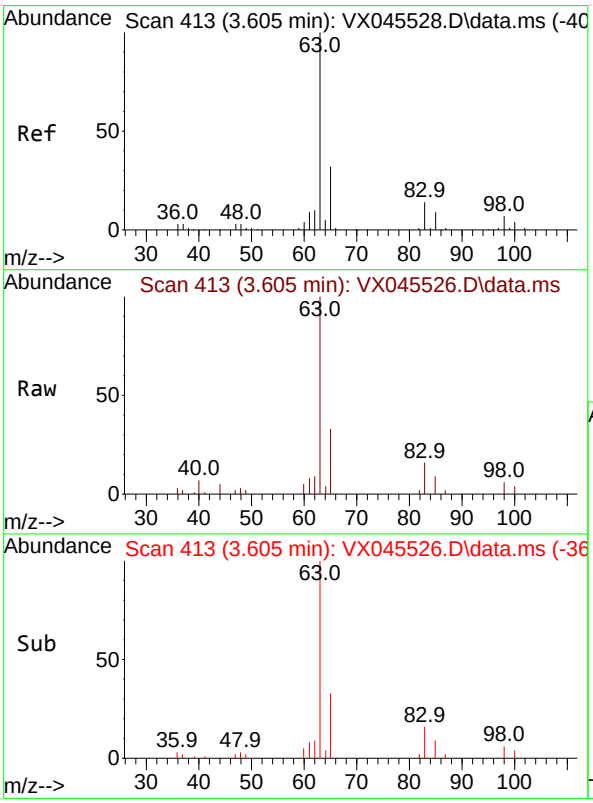
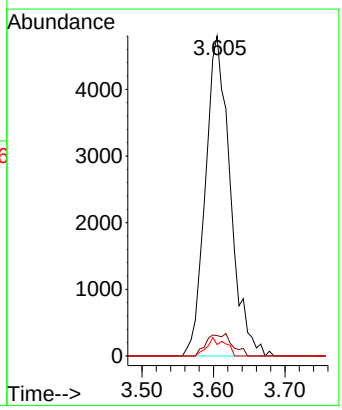
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

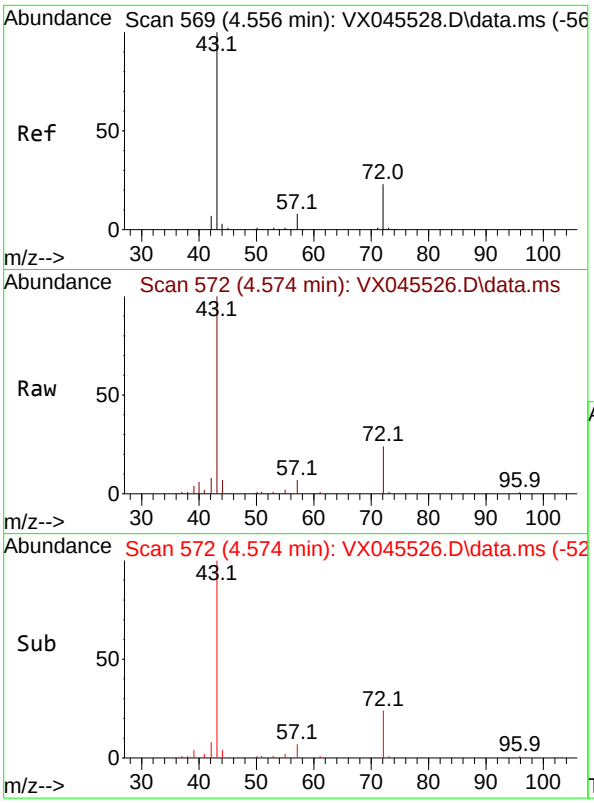


#24
1,1-Dichloroethane
Concen: 4.887 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion: 63 Resp: 11562

Ion	Ratio	Lower	Upper
63	100		
98	6.3	3.4	10.1
100	3.6	2.2	6.6

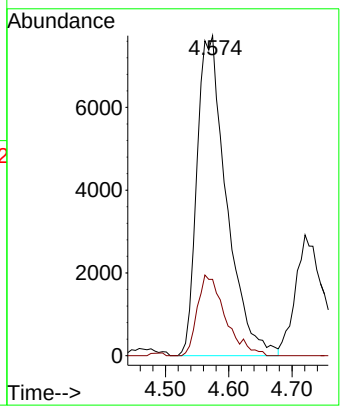




#25
2-Butanone
Concen: 24.419 ug/l
RT: 4.574 min Scan# 5
Delta R.T. 0.018 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion: 43 Resp: 2502

Ion	Ratio	Lower	Upper
43	100		
72	23.8	18.6	28.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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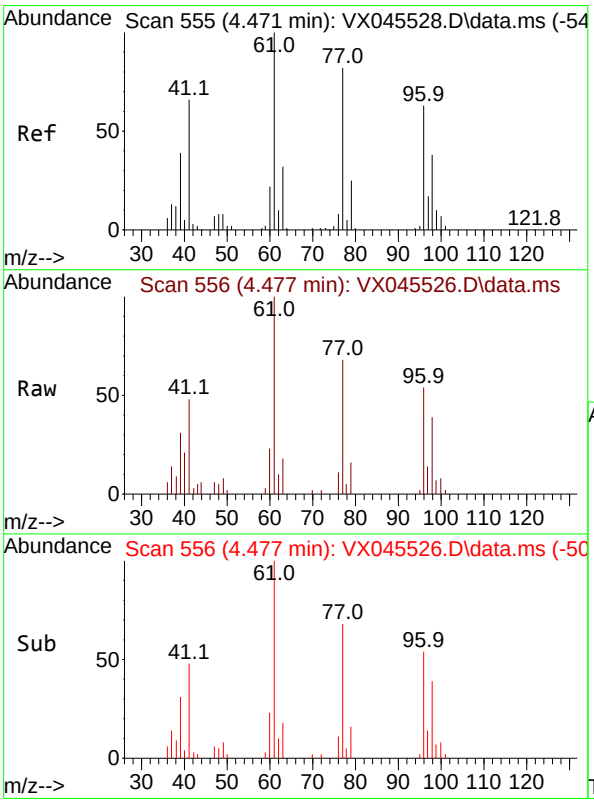
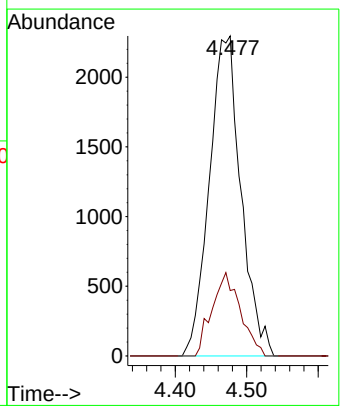
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

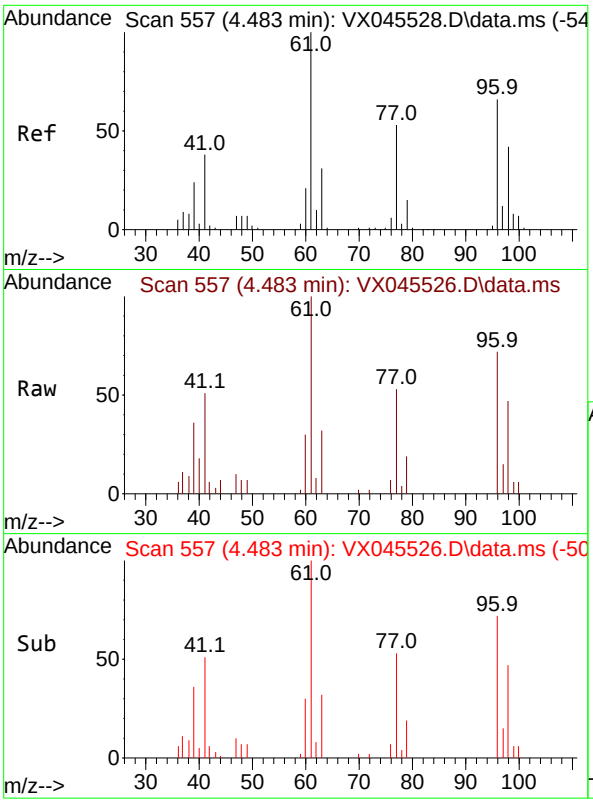


#26
2,2-Dichloropropane
Concen: 4.615 ug/l
RT: 4.477 min Scan# 556
Delta R.T. 0.006 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion: 77 Resp: 7054

Ion	Ratio	Lower	Upper
77	100		
97	23.4	10.6	31.8

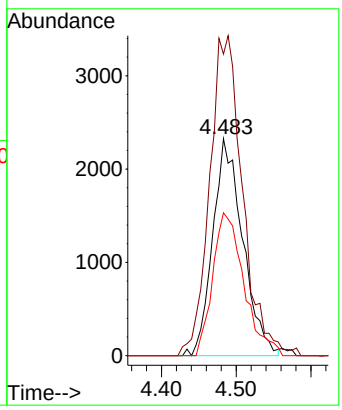




#27
cis-1,2-Dichloroethene
Concen: 4.655 ug/l
RT: 4.483 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion: 96 Resp: 648

Ion	Ratio	Lower	Upper
96	100		
61	162.4	0.0	313.2
98	68.5	0.0	126.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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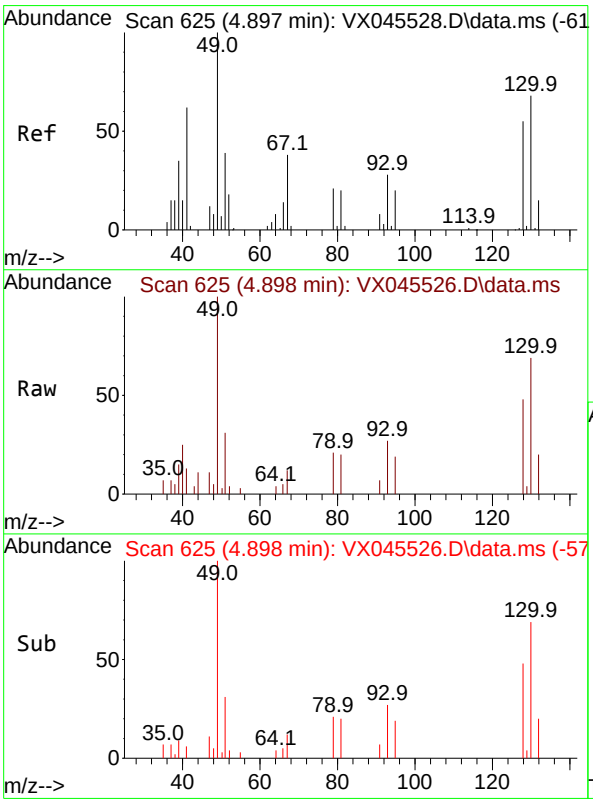
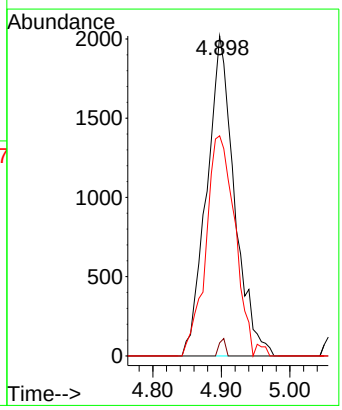
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

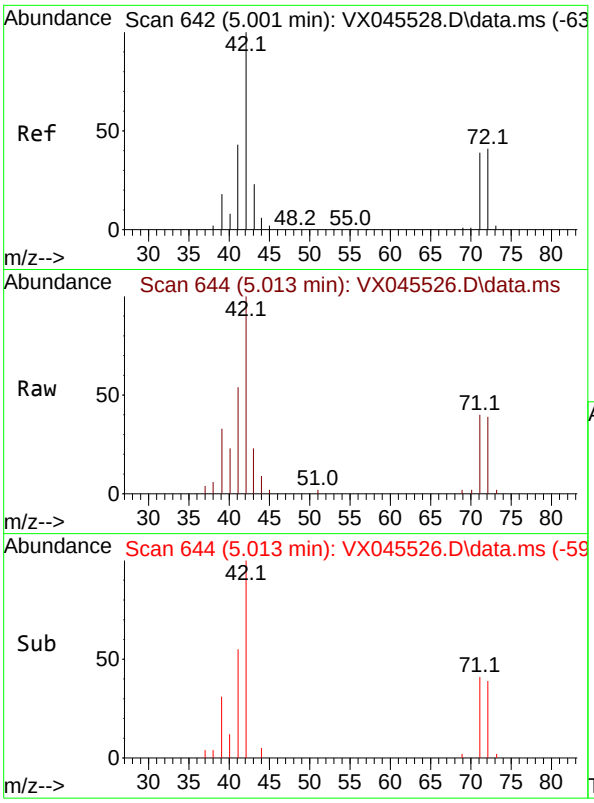


#28
Bromochloromethane
Concen: 4.956 ug/l
RT: 4.898 min Scan# 625
Delta R.T. 0.000 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion: 49 Resp: 5666

Ion	Ratio	Lower	Upper
49	100		
129	1.2	0.0	3.8
130	72.2	54.6	81.8





#29
Tetrahydrofuran
Concen: 23.950 ug/l
RT: 5.013 min Scan# 64
Delta R.T. 0.012 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

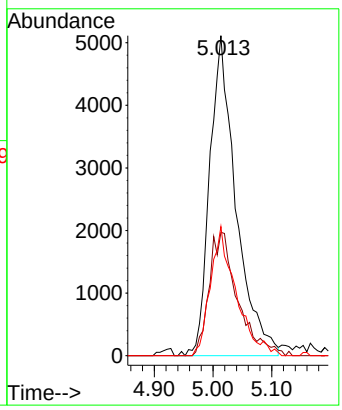
Tgt Ion: 42 Resp: 1591

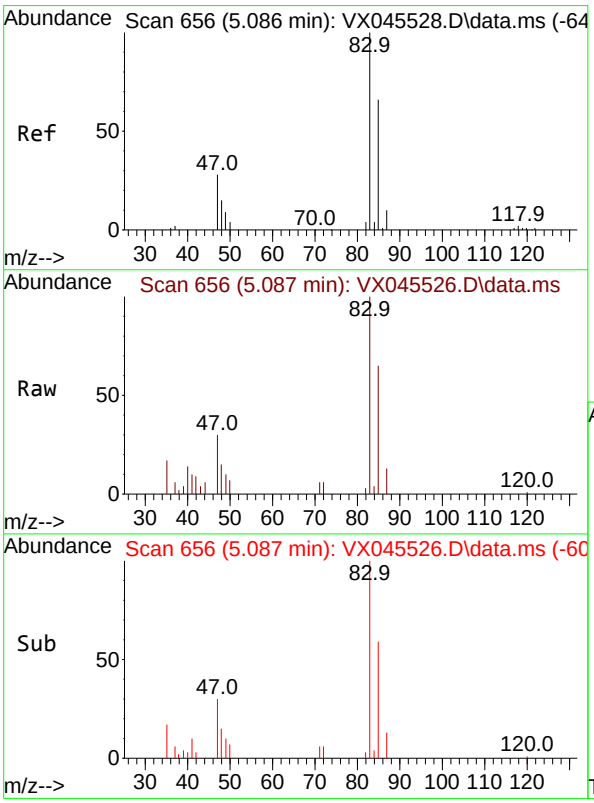
Ion	Ratio	Lower	Upper
42	100		
72	41.9	33.4	50.0
71	39.2	31.4	47.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

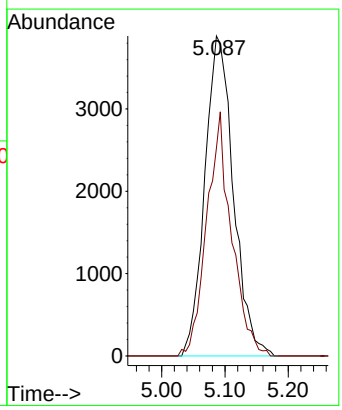


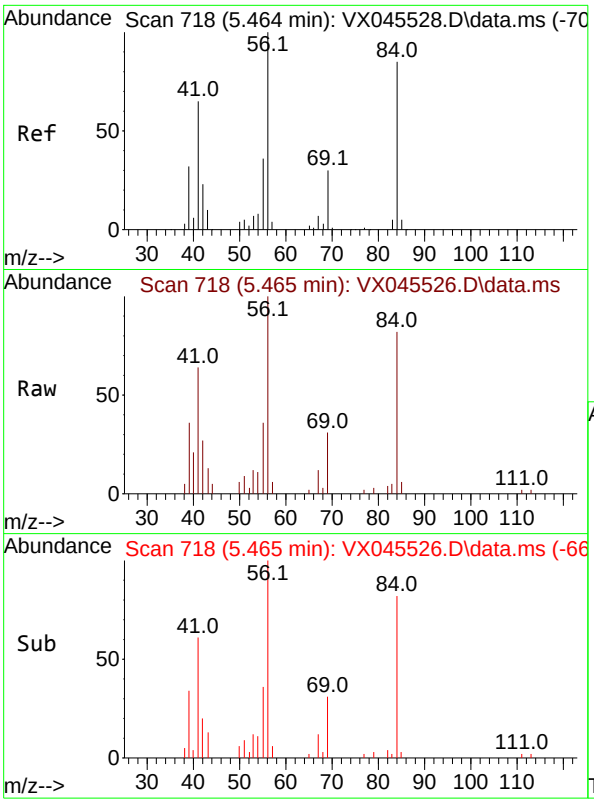


#30
Chloroform
Concen: 5.012 ug/l
RT: 5.087 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion: 83 Resp: 12200

Ion	Ratio	Lower	Upper
83	100		
85	65.0	52.8	79.2

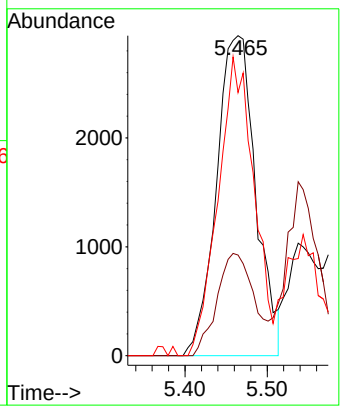




#31
Cyclohexane
Concen: 4.653 ug/l
RT: 5.465 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion: 56 Resp: 973

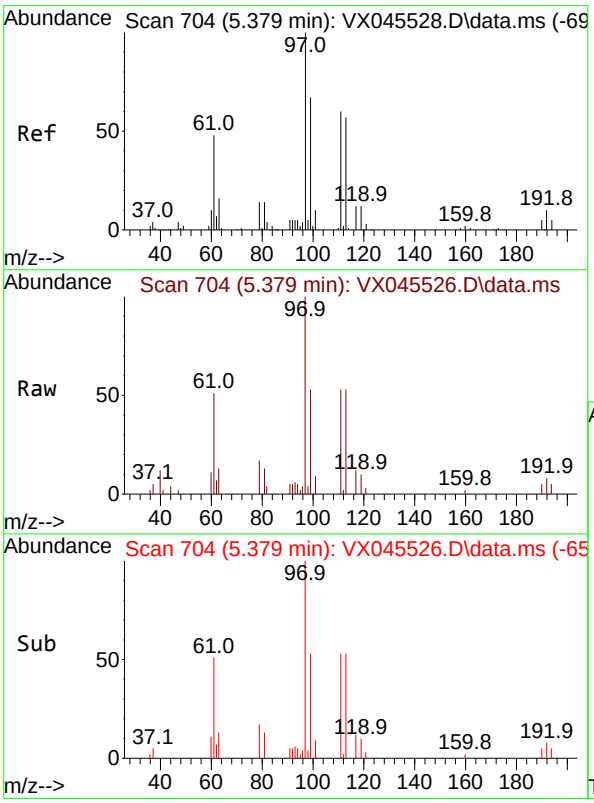
Ion	Ratio	Lower	Upper
56	100		
69	31.5	23.6	35.4
84	82.2	67.7	101.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

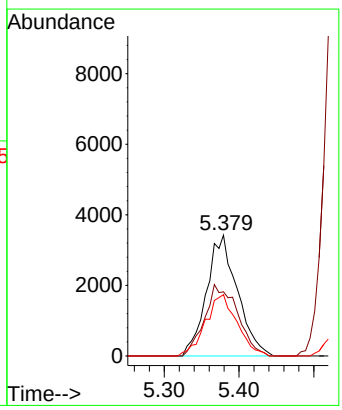
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

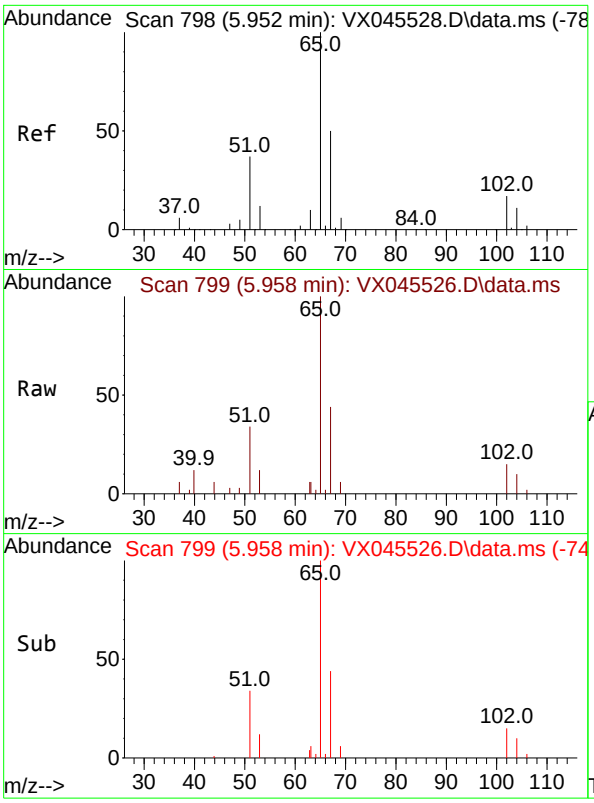


#32
1,1,1-Trichloroethane
Concen: 4.763 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.000 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion: 97 Resp: 9811

Ion	Ratio	Lower	Upper
97	100		
99	63.2	51.7	77.5
61	52.0	41.0	61.4

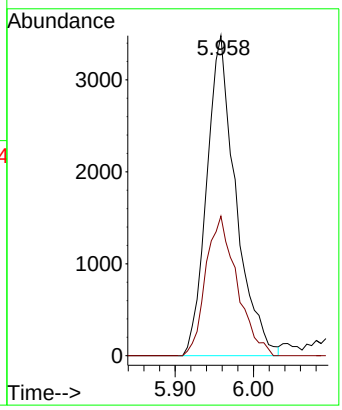




#33
1,2-Dichloroethane-d4
Concen: 5.260 ug/l
RT: 5.958 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion: 65 Resp: 896

Ion	Ratio	Lower	Upper
65	100		
67	46.7	0.0	99.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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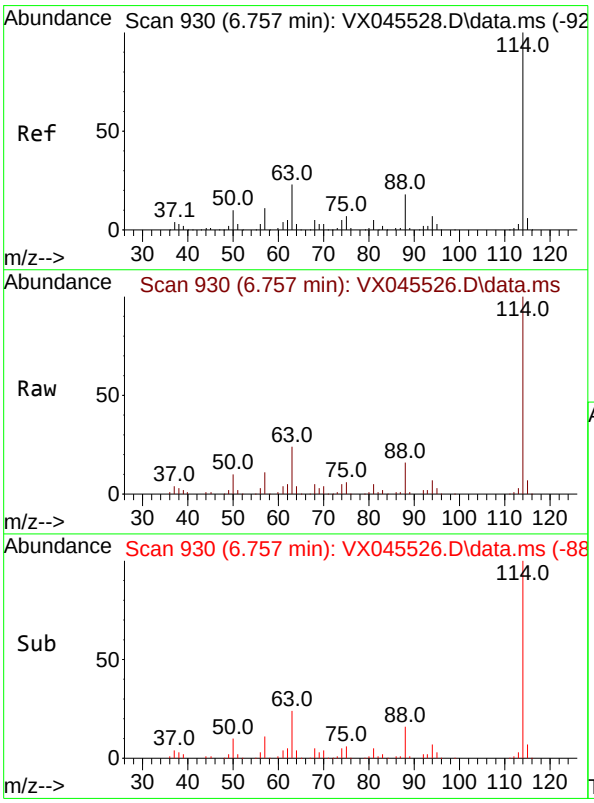
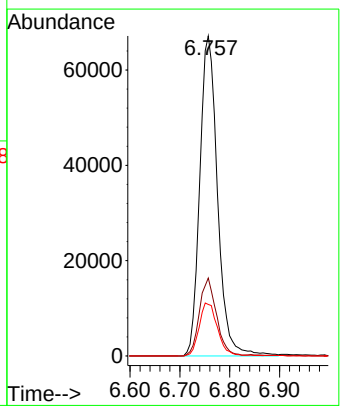
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

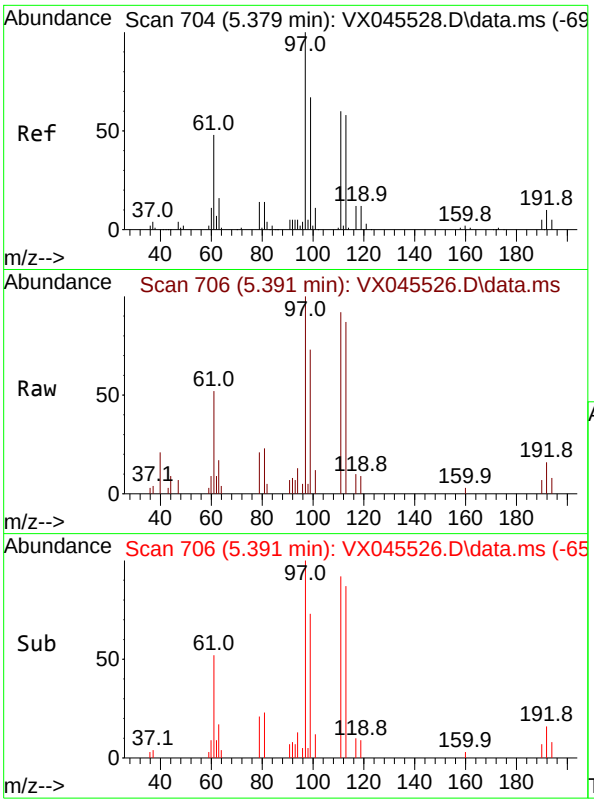


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion:114 Resp: 166137

Ion	Ratio	Lower	Upper
114	100		
63	24.4	0.0	46.8
88	16.1	0.0	35.4

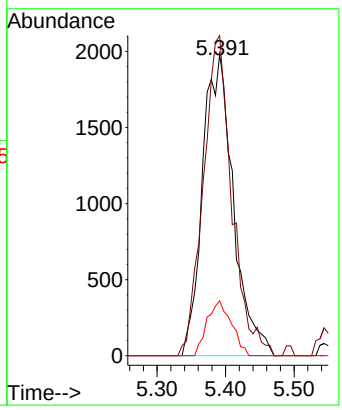




#35
Dibromofluoromethane
Concen: 5.244 ug/l
RT: 5.391 min Scan# 7
Delta R.T. 0.012 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion:113 Resp: 618

Ion	Ratio	Lower	Upper
113	100		
111	98.8	81.8	122.6
192	14.4	13.8	20.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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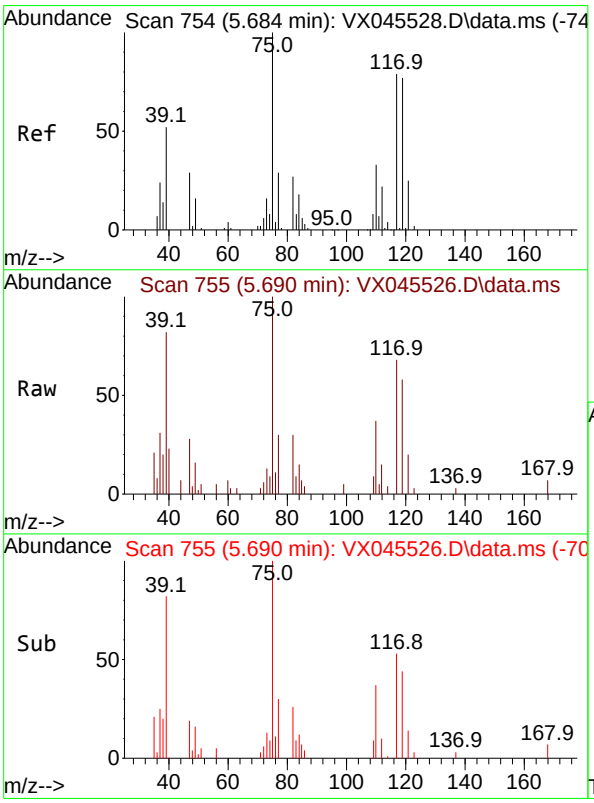
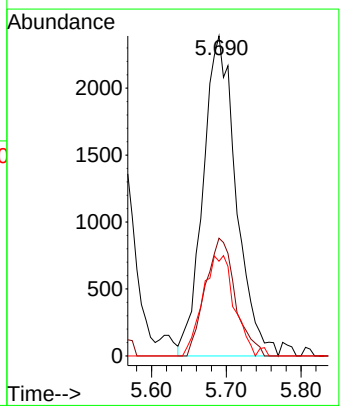
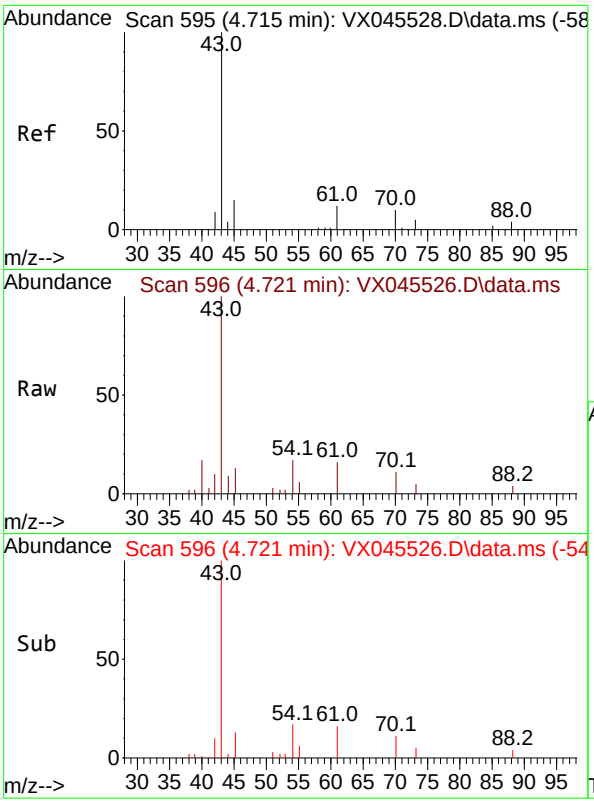


#36
1,1-Dichloropropene
Concen: 4.621 ug/l
RT: 5.690 min Scan# 755
Delta R.T. 0.006 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion: 75 Resp: 7354

Ion	Ratio	Lower	Upper
75	100		
110	33.3	16.9	50.6
77	29.8	25.0	37.4

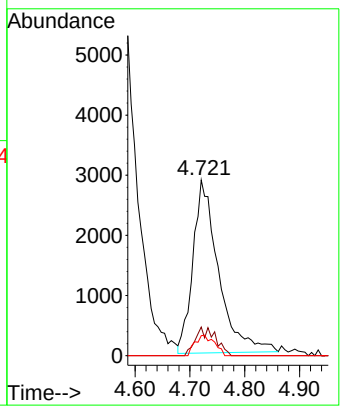




#37
Ethyl Acetate
Concen: 4.679 ug/l
RT: 4.721 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion: 43 Resp: 938

Ion	Ratio	Lower	Upper
43	100		
61	6.3	9.9	14.9
70	8.9	7.5	11.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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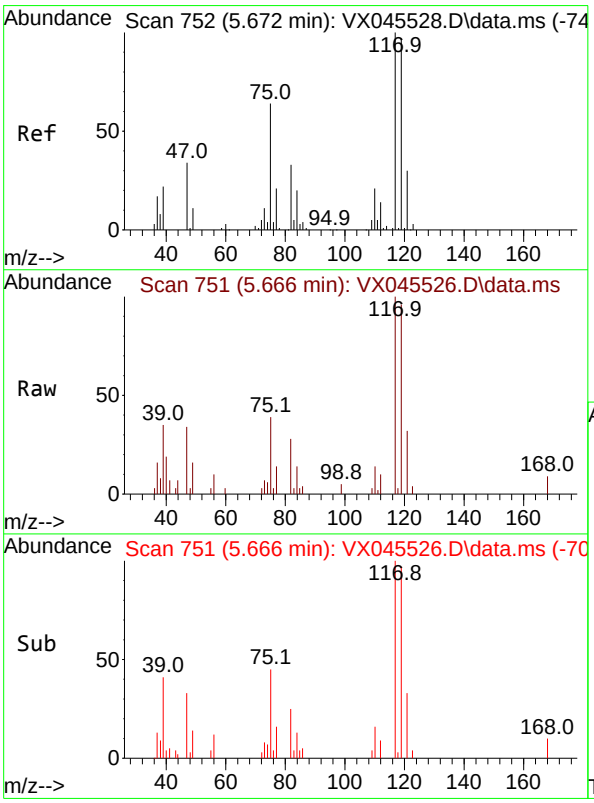
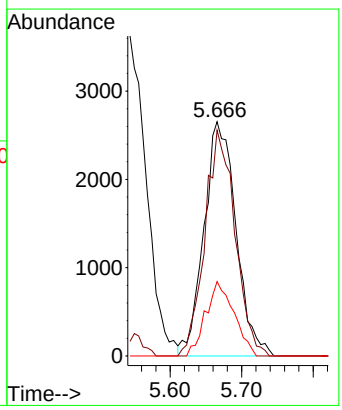
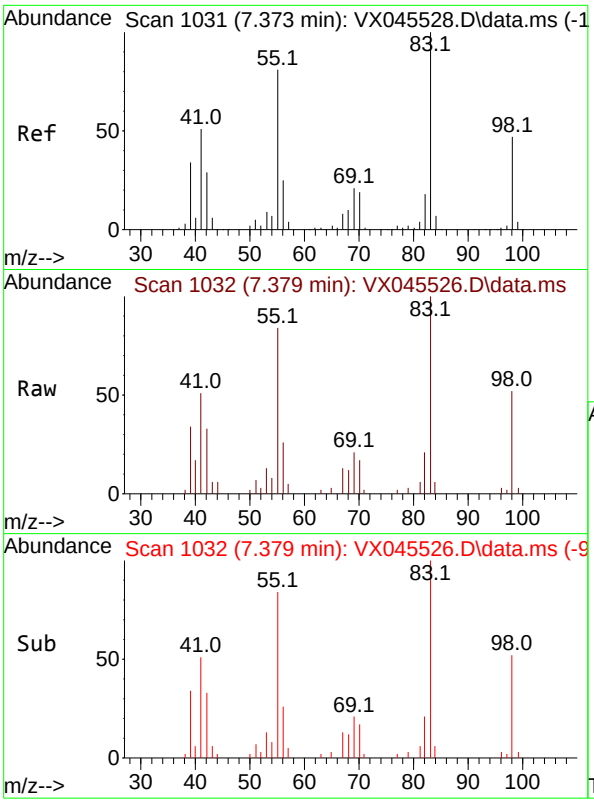


#38
Carbon Tetrachloride
Concen: 4.804 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion:117 Resp: 8264

Ion	Ratio	Lower	Upper
117	100		
119	96.4	76.9	115.3
121	31.7	24.2	36.2

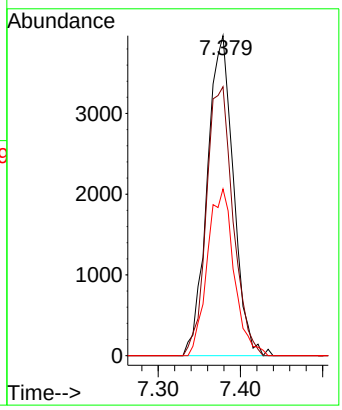




#39
Methylcyclohexane
Concen: 4.489 ug/l
RT: 7.379 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion: 83 Resp: 875

Ion	Ratio	Lower	Upper
83	100		
55	84.0	64.9	97.3
98	52.1	37.4	56.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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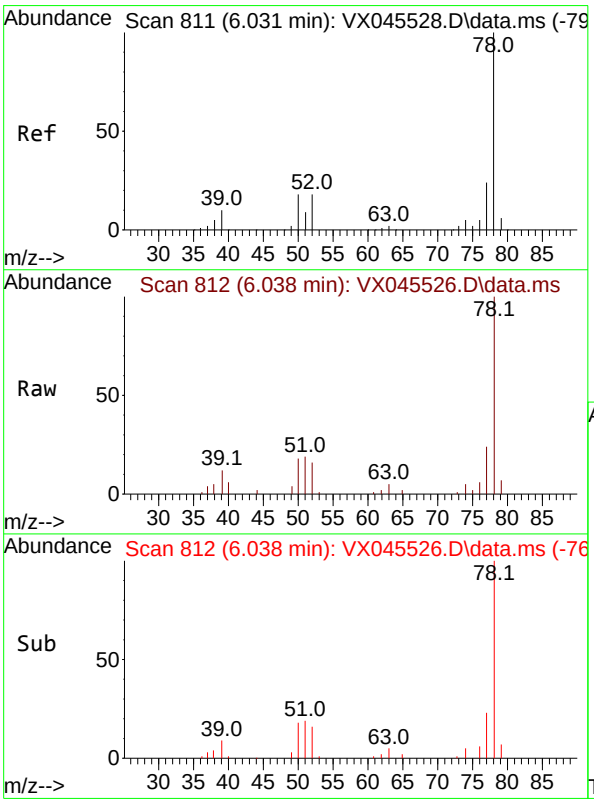
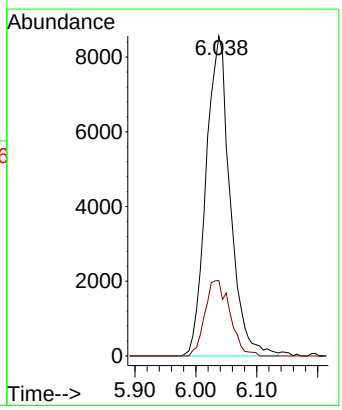
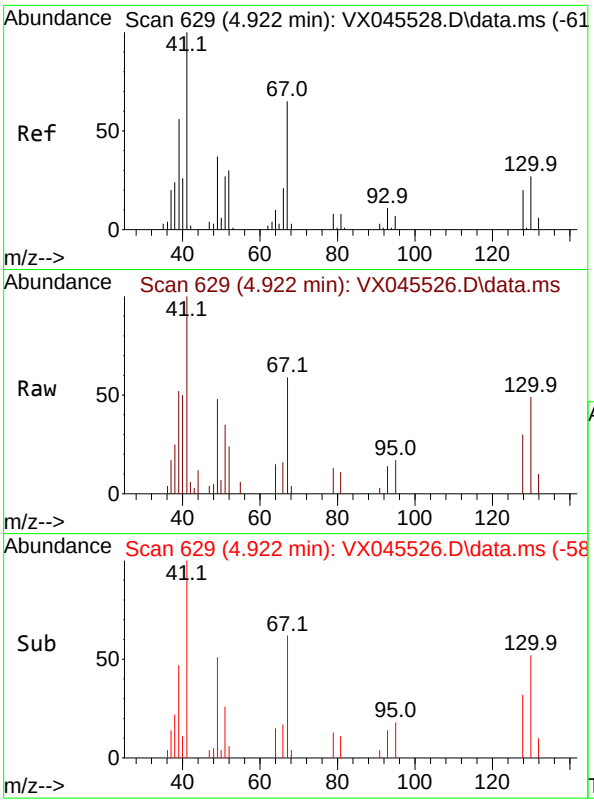


#40
Benzene
Concen: 4.839 ug/l
RT: 6.038 min Scan# 812
Delta R.T. 0.006 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion: 78 Resp: 23522

Ion	Ratio	Lower	Upper
78	100		
77	23.6	19.0	28.6

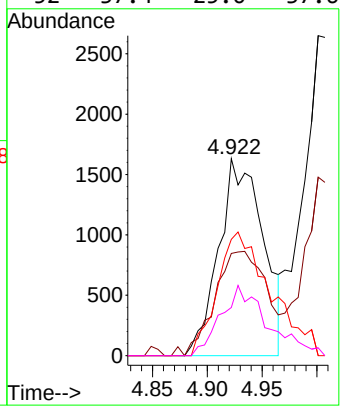




#41
Methacrylonitrile
Concen: 4.302 ug/l
RT: 4.922 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion: 41 Resp: 459

Ion	Ratio	Lower	Upper
41	100		
39	61.4	47.0	70.6
67	75.2	53.2	79.8
52	37.4	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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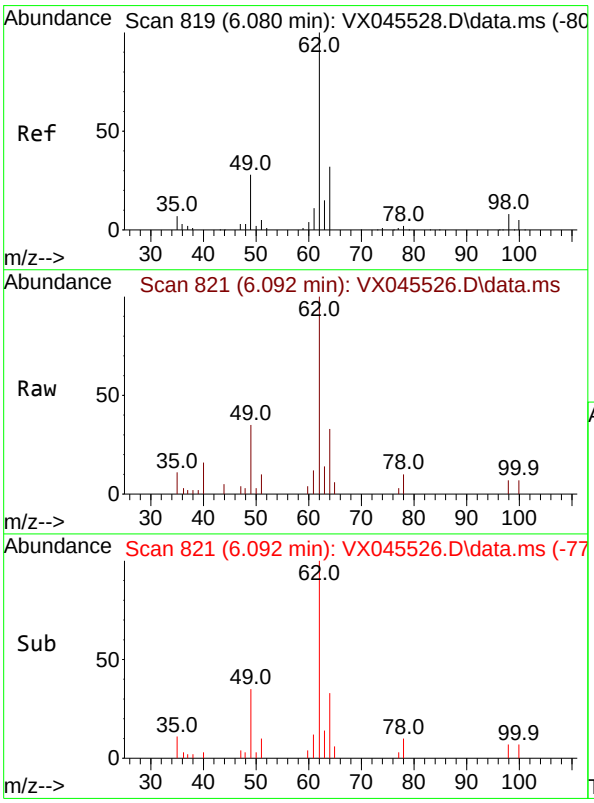
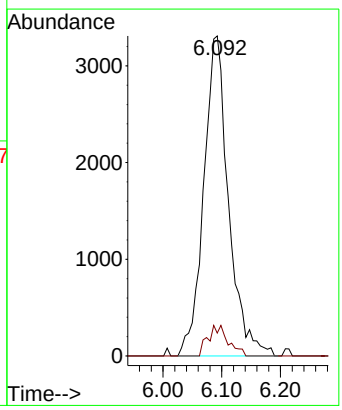
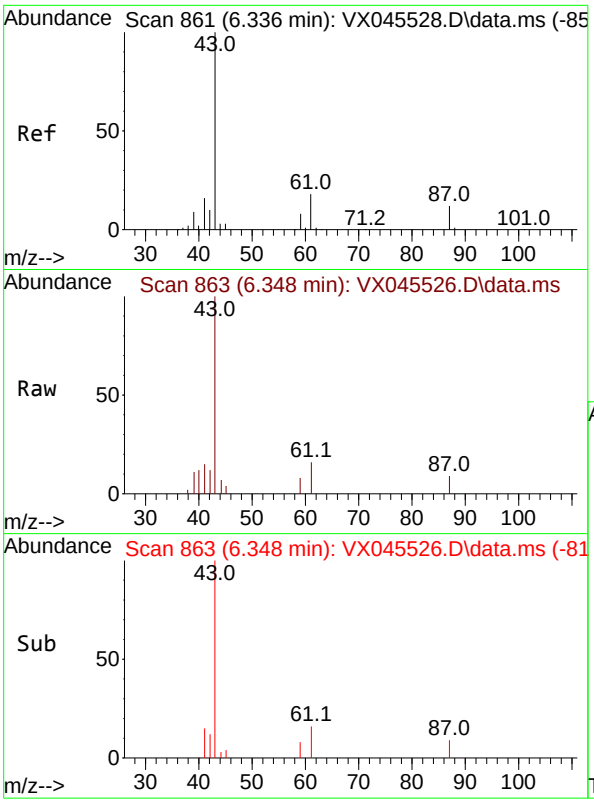


#42
1,2-Dichloroethane
Concen: 4.838 ug/l
RT: 6.092 min Scan# 821
Delta R.T. 0.012 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion: 62 Resp: 9713

Ion	Ratio	Lower	Upper
62	100		
98	7.7	0.0	15.2





#43
Isopropyl Acetate
Concen: 4.541 ug/l
RT: 6.348 min Scan# 8
Delta R.T. 0.012 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion: 43 Resp: 1380

Ion	Ratio	Lower	Upper
43	100		
61	15.8	14.1	21.1
87	11.3	9.2	13.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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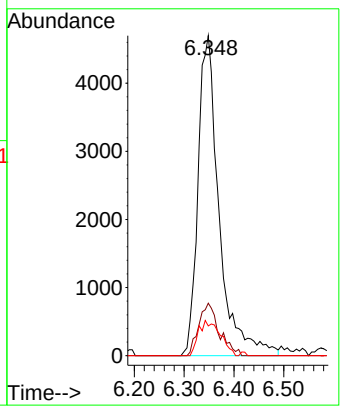
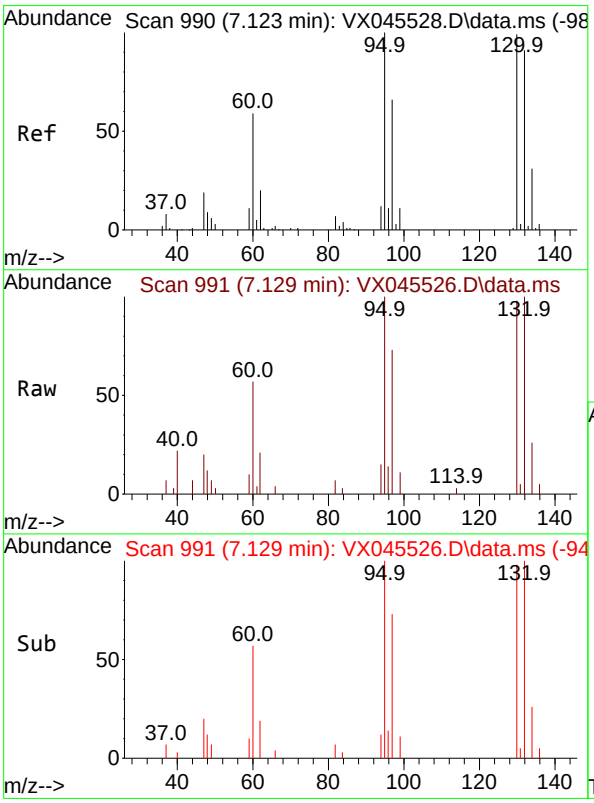
Supervised By :Mahesh Dadoda 04/02/2025

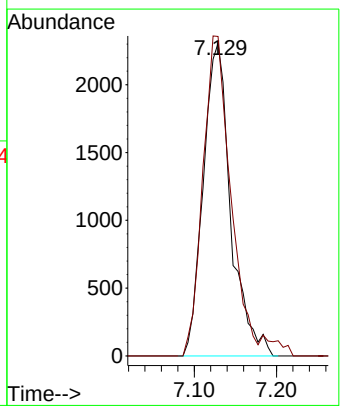


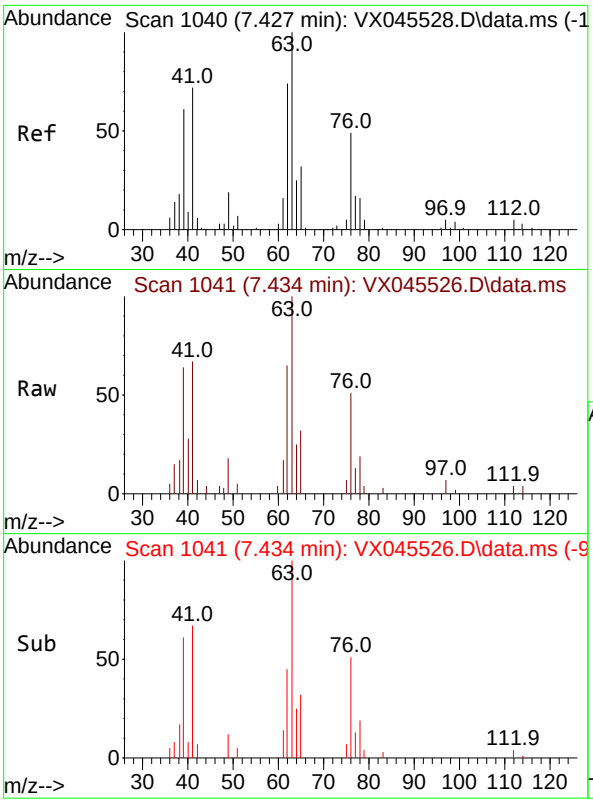


#44
Trichloroethene
Concen: 4.635 ug/l
RT: 7.129 min Scan# 991
Delta R.T. 0.006 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion:130 Resp: 5355

Ion	Ratio	Lower	Upper
130	100		
95	102.2	0.0	202.0

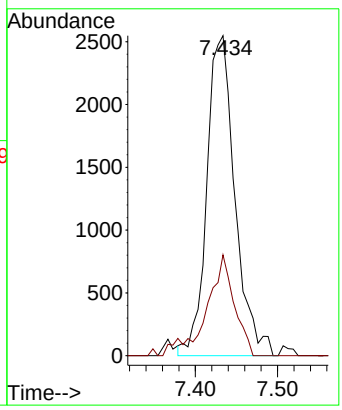




#45
1,2-Dichloropropane
Concen: 4.997 ug/l
RT: 7.434 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion: 63 Resp: 606

Ion	Ratio	Lower	Upper
63	100		
65	31.5	25.8	38.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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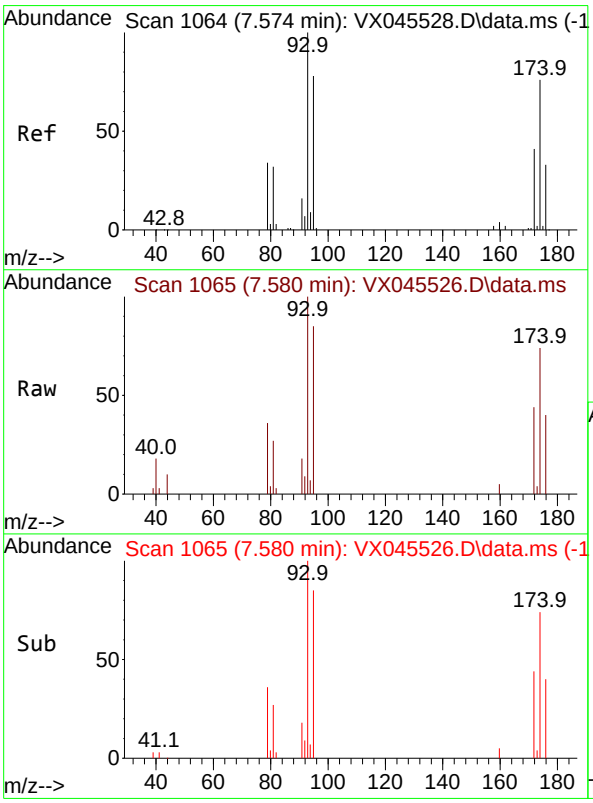
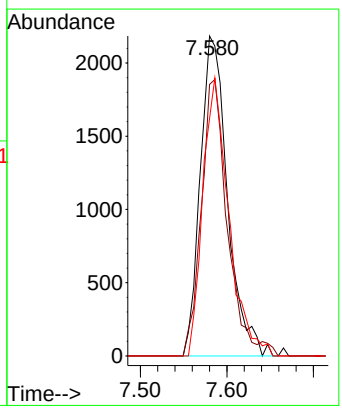
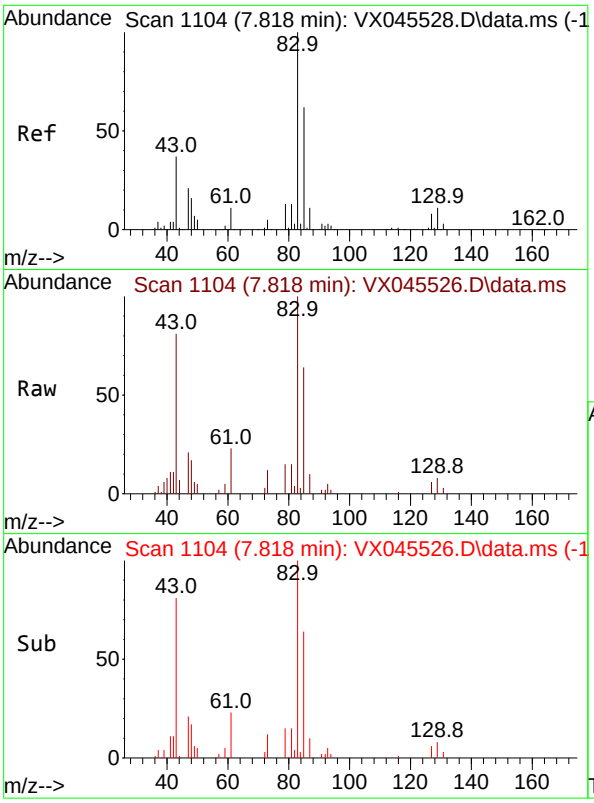


#46
Dibromomethane
Concen: 5.120 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. 0.006 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion: 93 Resp: 4767

Ion	Ratio	Lower	Upper
93	100		
95	81.0	64.8	97.2
174	83.1	65.4	98.0

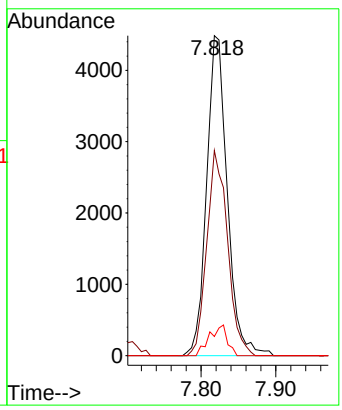




#47
Bromodichloromethane
Concen: 4.636 ug/l
RT: 7.818 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion: 83 Resp: 861

Ion	Ratio	Lower	Upper
83	100		
85	64.1	49.7	74.5
127	6.0	6.1	9.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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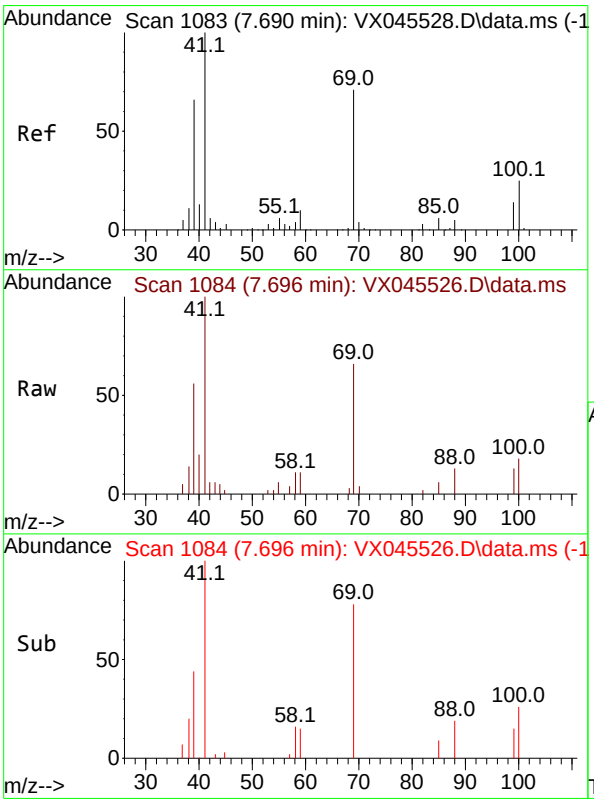
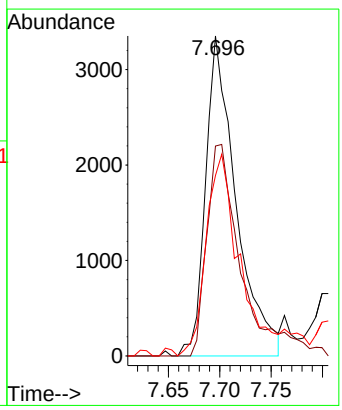
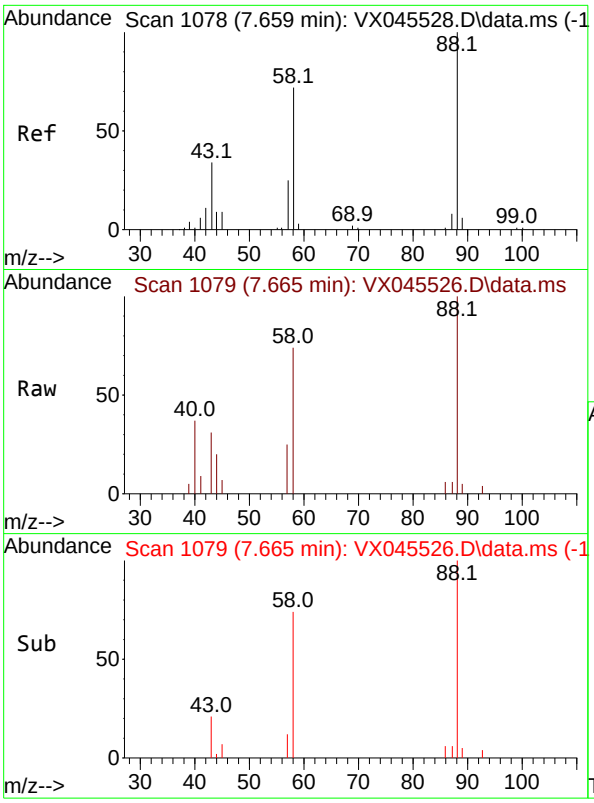


#48
Methyl methacrylate
Concen: 4.401 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. 0.006 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion: 41 Resp: 6908

Ion	Ratio	Lower	Upper
41	100		
69	74.6	58.2	87.2
39	68.3	53.6	80.4

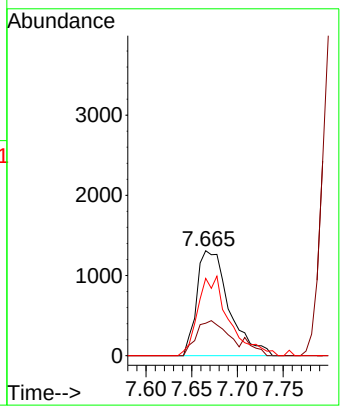




#49
1,4-Dioxane
Concen: 112.864 ug/l
RT: 7.665 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion: 88 Resp: 320

Ion	Ratio	Lower	Upper
88	100		
43	32.4	32.2	48.4
58	72.7	58.6	88.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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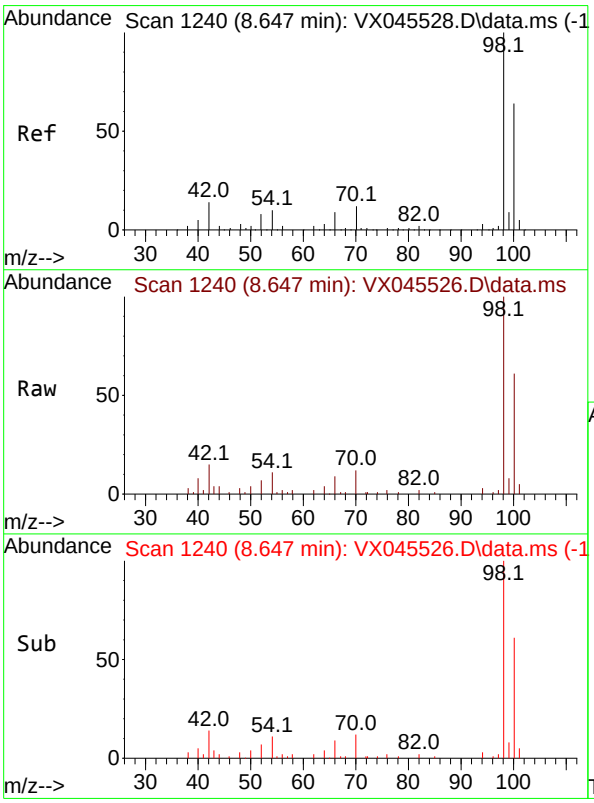
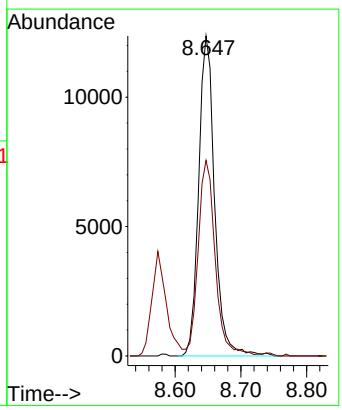
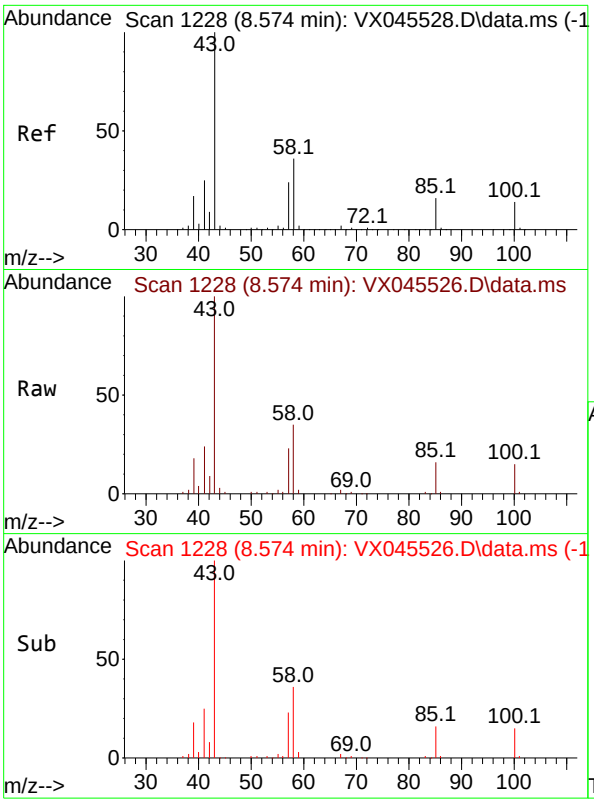


#50
Toluene-d8
Concen: 5.077 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion: 98 Resp: 20890

Ion	Ratio	Lower	Upper
98	100		
100	63.5	52.2	78.4

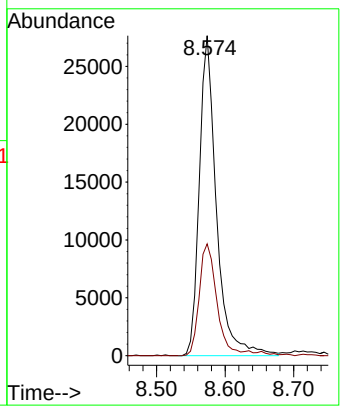




#51
4-Methyl-2-Pentanone
Concen: 23.844 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion: 43 Resp: 4805

Ion	Ratio	Lower	Upper
43	100		
58	37.3	28.5	42.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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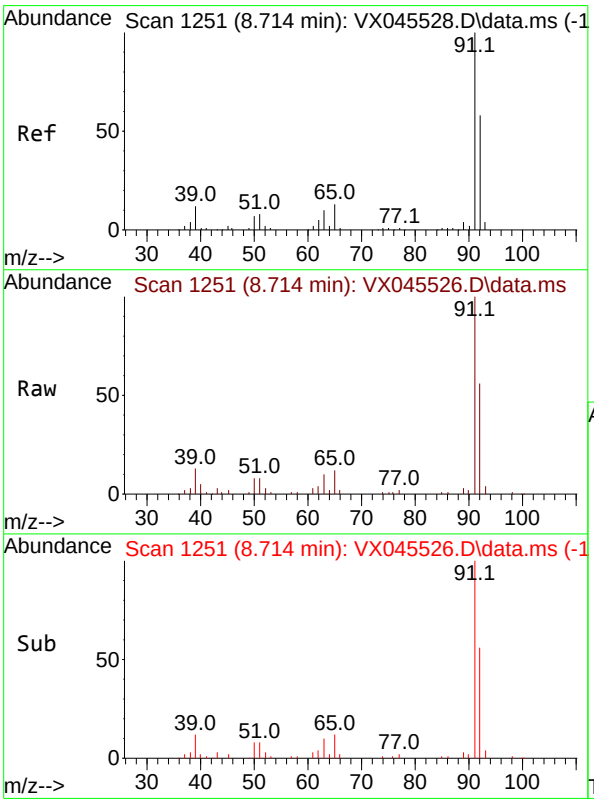
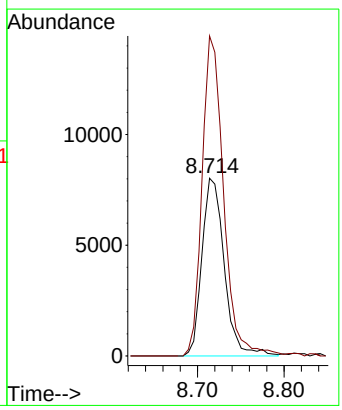
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

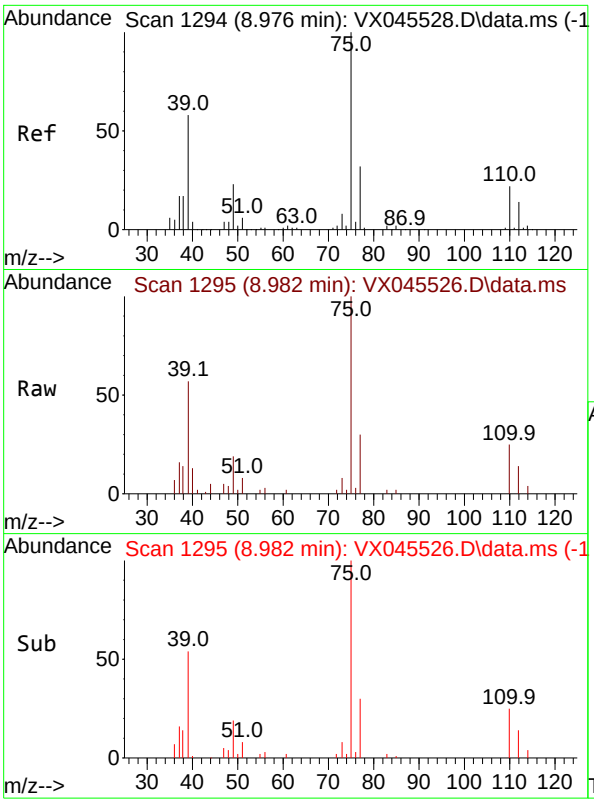


#52
Toluene
Concen: 4.893 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion: 92 Resp: 14391

Ion	Ratio	Lower	Upper
92	100		
91	173.1	138.7	208.1

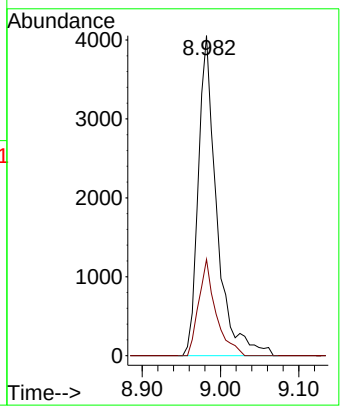




#53
t-1,3-Dichloropropene
Concen: 5.834 ug/l
RT: 8.982 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion: 75 Resp: 664

Ion	Ratio	Lower	Upper
75	100		
77	30.1	25.4	38.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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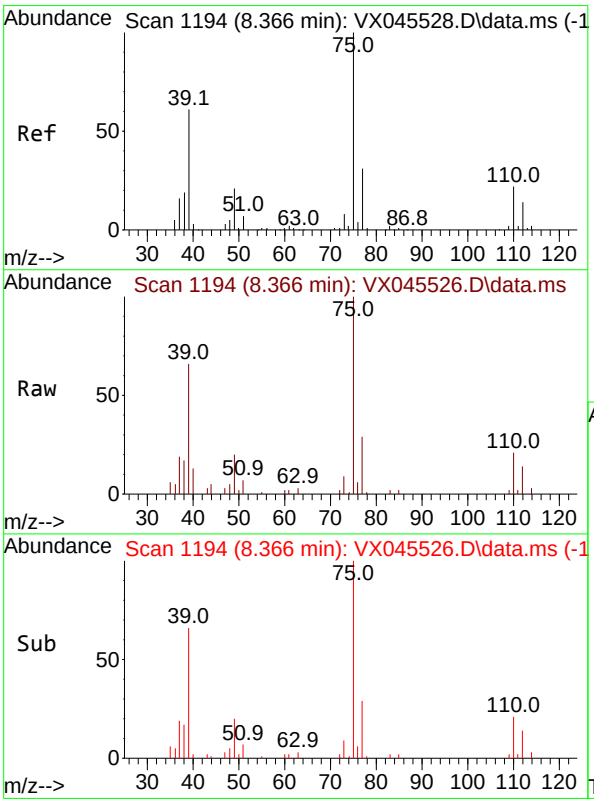
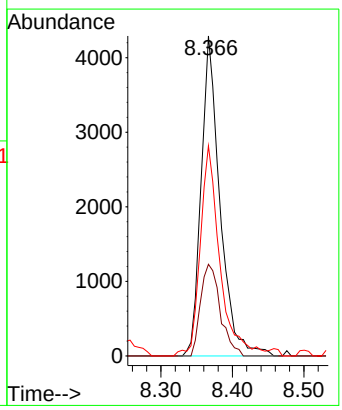
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

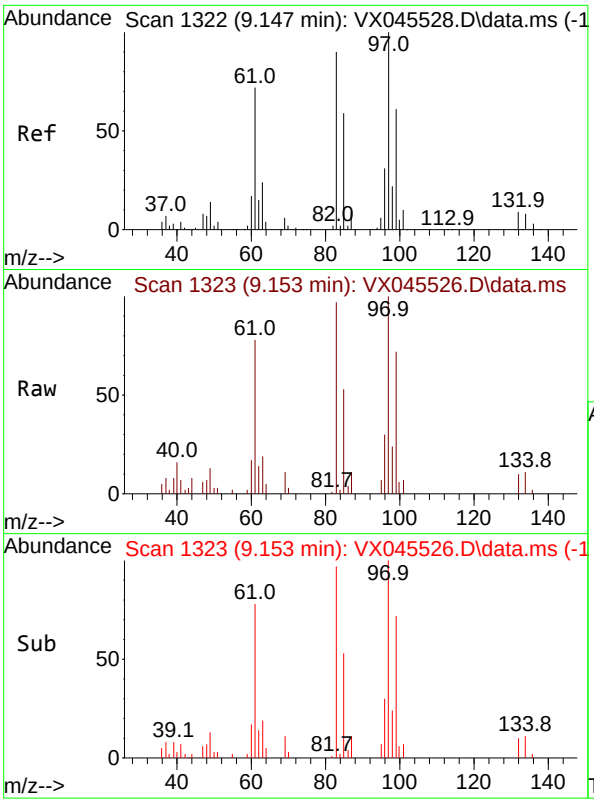


#54
cis-1,3-Dichloropropene
Concen: 4.506 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.000 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion: 75 Resp: 7873

Ion	Ratio	Lower	Upper
75	100		
77	28.6	24.6	36.8
39	64.4	48.4	72.6

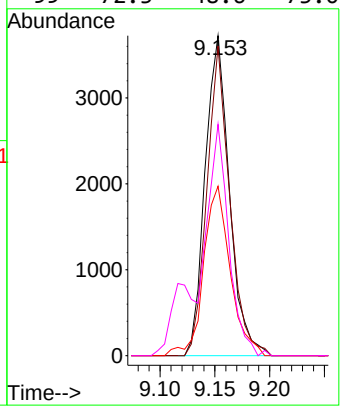




#55
1,1,2-Trichloroethane
Concen: 4.898 ug/l
RT: 9.153 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion: 97 Resp: 574

Ion	Ratio	Lower	Upper
97	100		
83	96.8	71.8	107.8
85	52.9	47.0	70.6
99	72.3	48.6	73.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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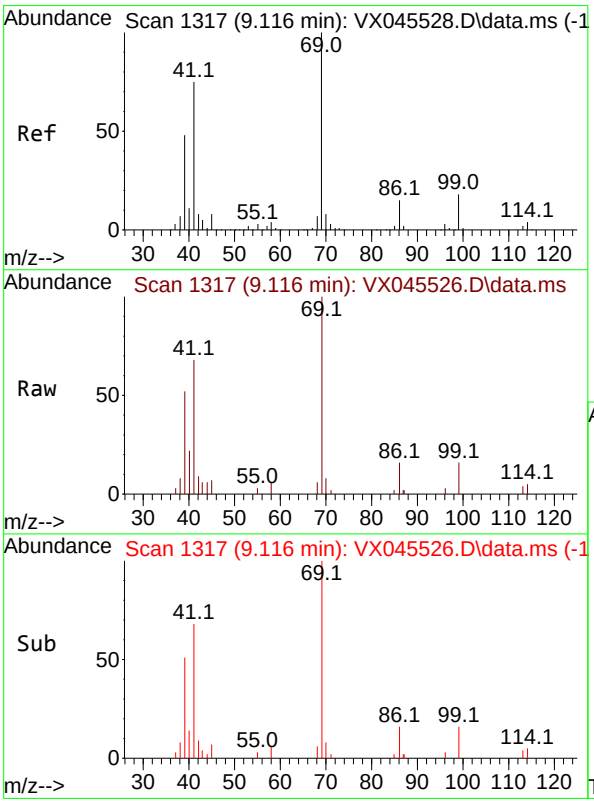
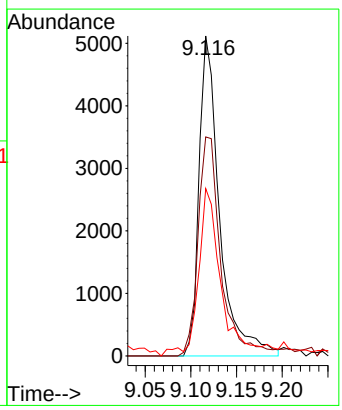
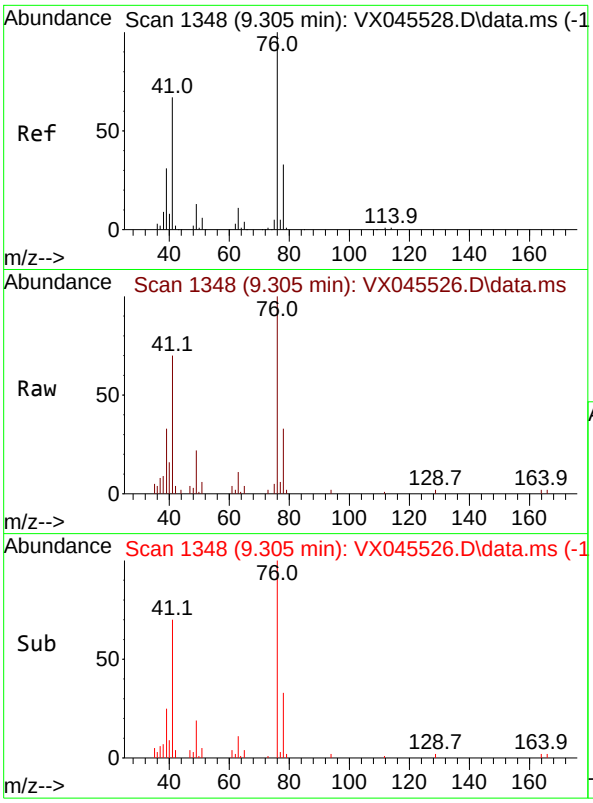


#56
Ethyl methacrylate
Concen: 4.417 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion: 69 Resp: 8012

Ion	Ratio	Lower	Upper
69	100		
41	75.8	61.3	91.9
39	58.5	40.2	60.2

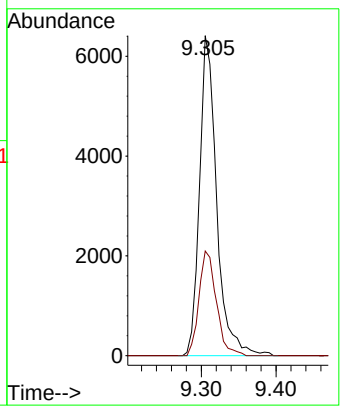




#57
1,3-Dichloropropane
Concen: 5.002 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion: 76 Resp: 1020

Ion	Ratio	Lower	Upper
76	100		
78	33.1	26.0	39.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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Reviewed By :Amit Patel 04/02/2025
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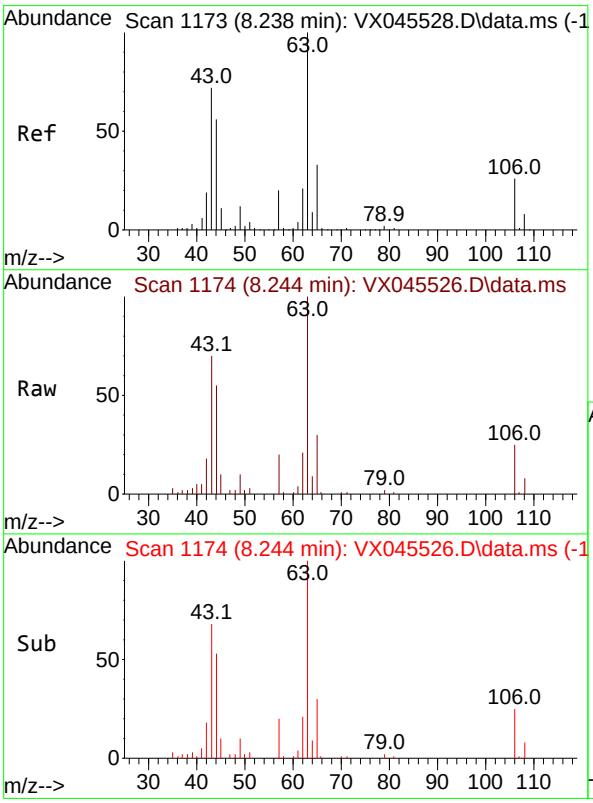
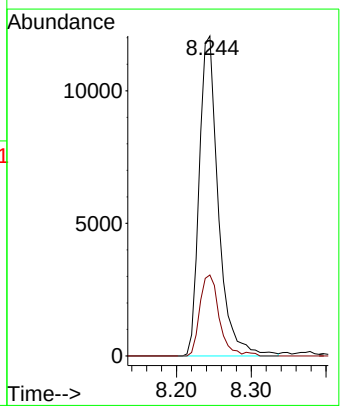
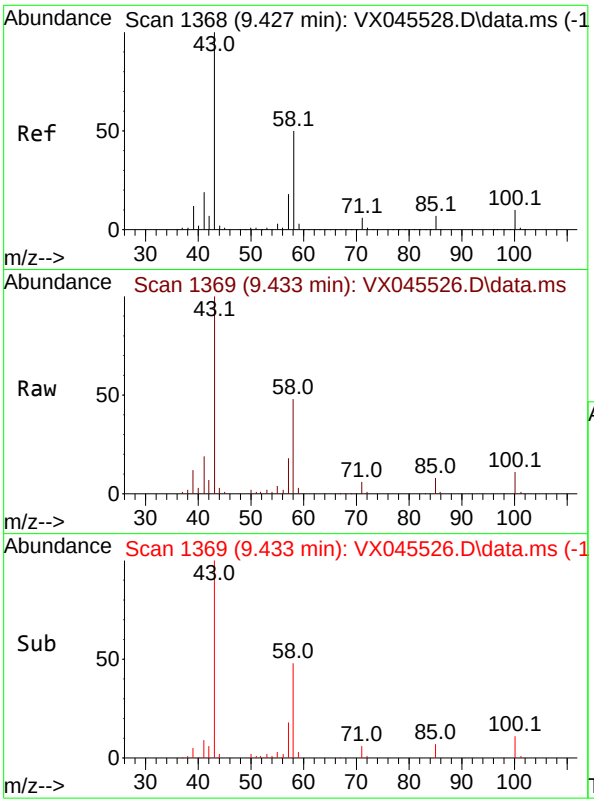


#58
2-Chloroethyl Vinyl ether
Concen: 23.302 ug/l
RT: 8.244 min Scan# 1174
Delta R.T. 0.006 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion: 63 Resp: 21382

Ion	Ratio	Lower	Upper
63	100		
106	25.8	21.0	31.6

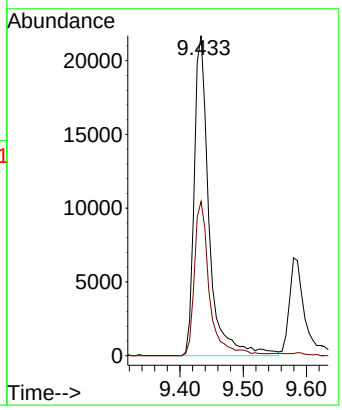




#59
2-Hexanone
Concen: 23.875 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion: 43 Resp: 3562

Ion	Ratio	Lower	Upper
43	100		
58	48.7	24.9	74.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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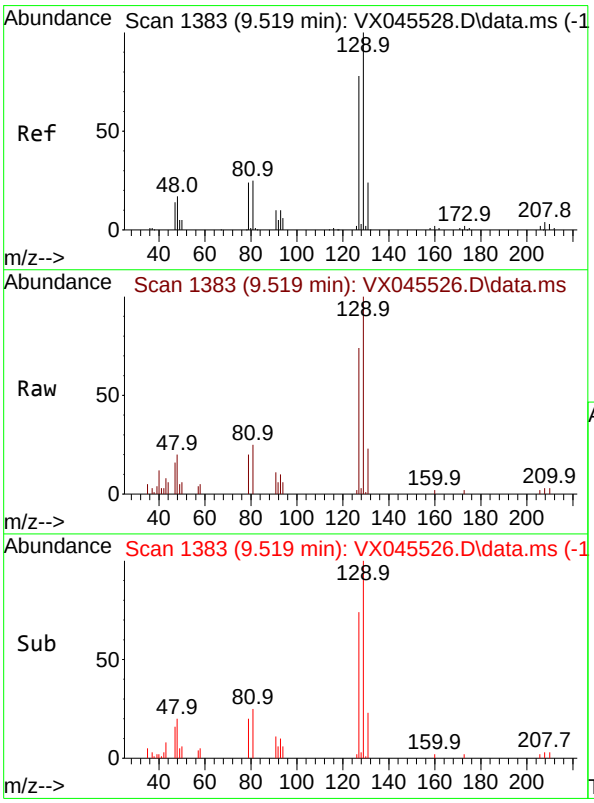
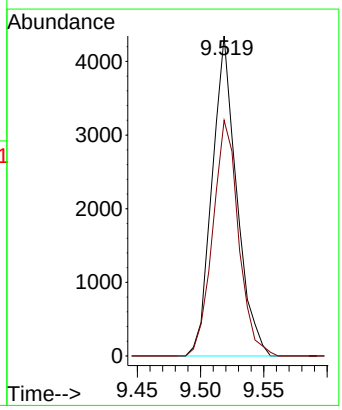
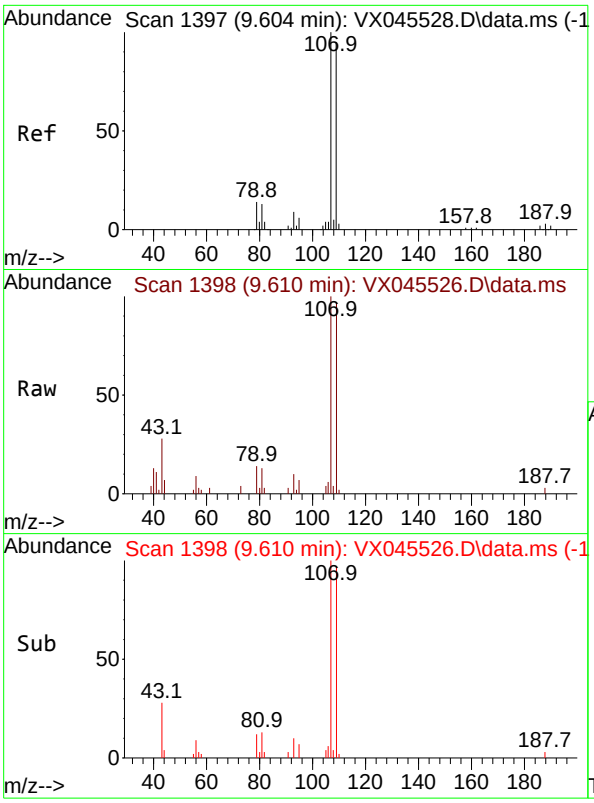


#60
Dibromochloromethane
Concen: 4.582 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion:129 Resp: 5855

Ion	Ratio	Lower	Upper
129	100		
127	77.5	39.4	118.2

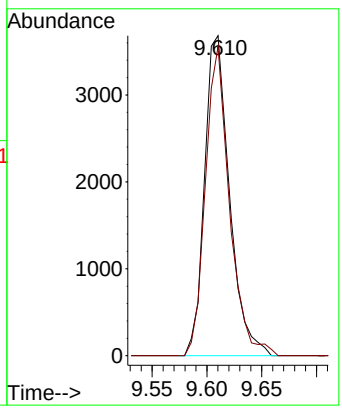




#61
1,2-Dibromoethane
Concen: 4.920 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion:107 Resp: 583

Ion	Ratio	Lower	Upper
107	100		
109	93.0	75.7	113.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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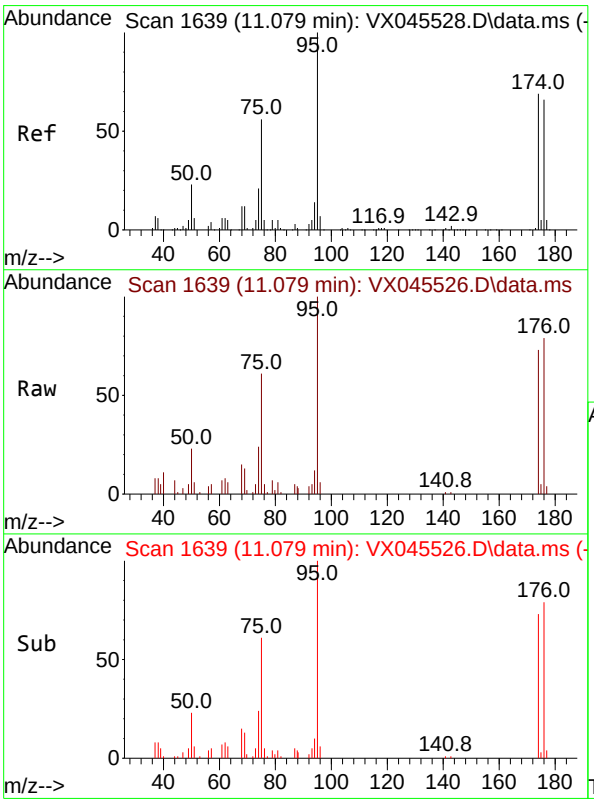
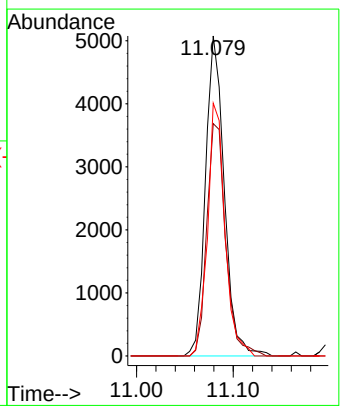
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

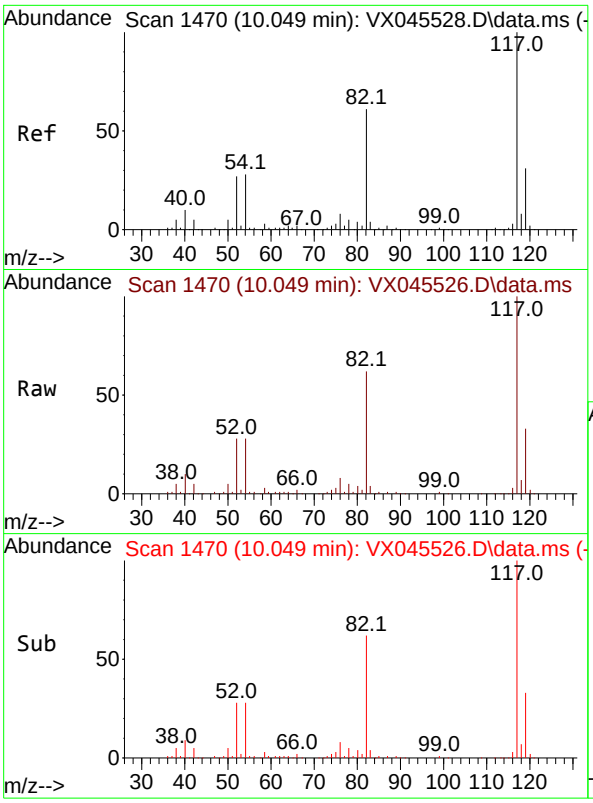


#62
4-Bromofluorobenzene
Concen: 4.582 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion: 95 Resp: 6867

Ion	Ratio	Lower	Upper
95	100		
174	73.1	0.0	135.8
176	73.3	0.0	131.4

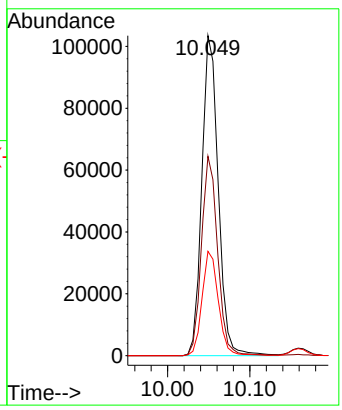




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion:117 Resp: 14393

Ion	Ratio	Lower	Upper
117	100		
82	62.3	49.2	73.8
119	32.6	25.1	37.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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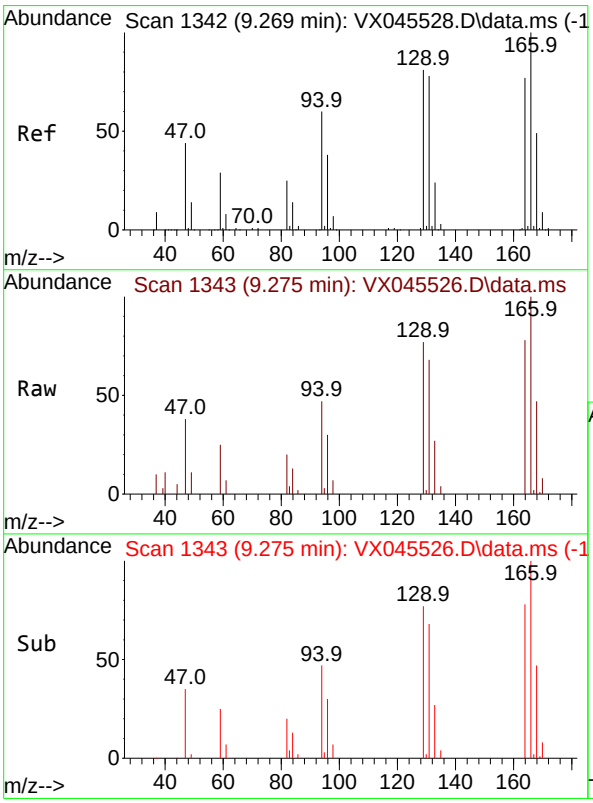
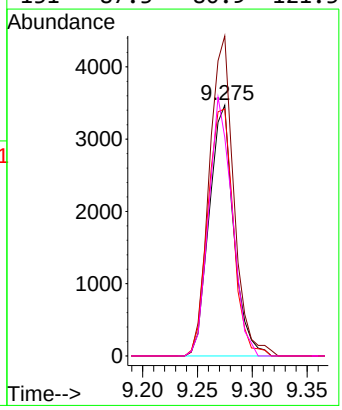
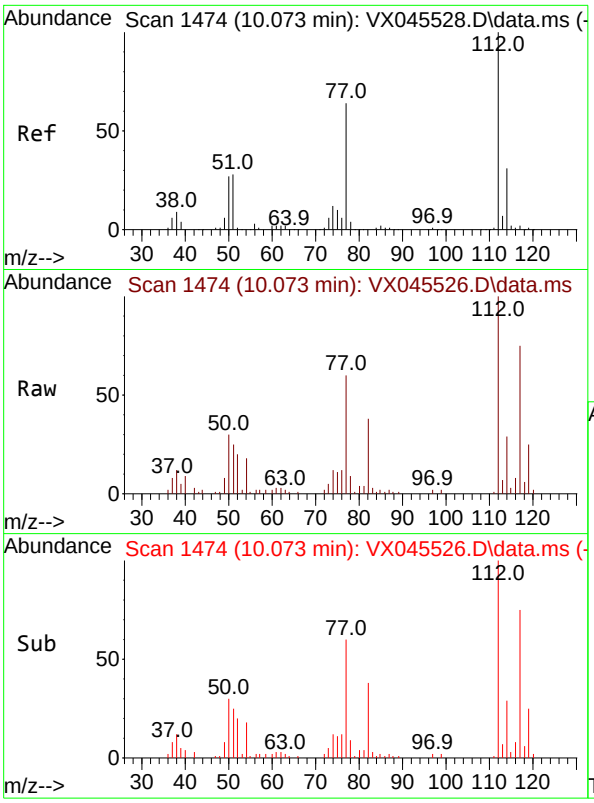


#64
Tetrachloroethene
Concen: 5.287 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. 0.006 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion:164 Resp: 5373

Ion	Ratio	Lower	Upper
164	100		
166	127.6	103.8	155.8
129	98.6	84.3	126.5
131	87.3	80.9	121.3

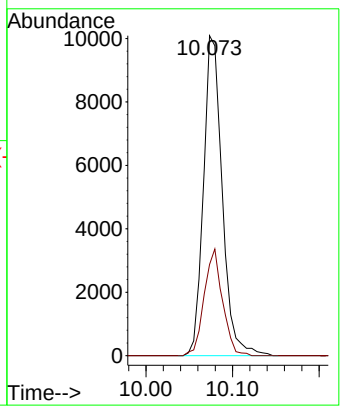




#65
Chlorobenzene
Concen: 4.935 ug/l
RT: 10.073 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion:112 Resp: 1517

Ion	Ratio	Lower	Upper
112	100		
114	28.5	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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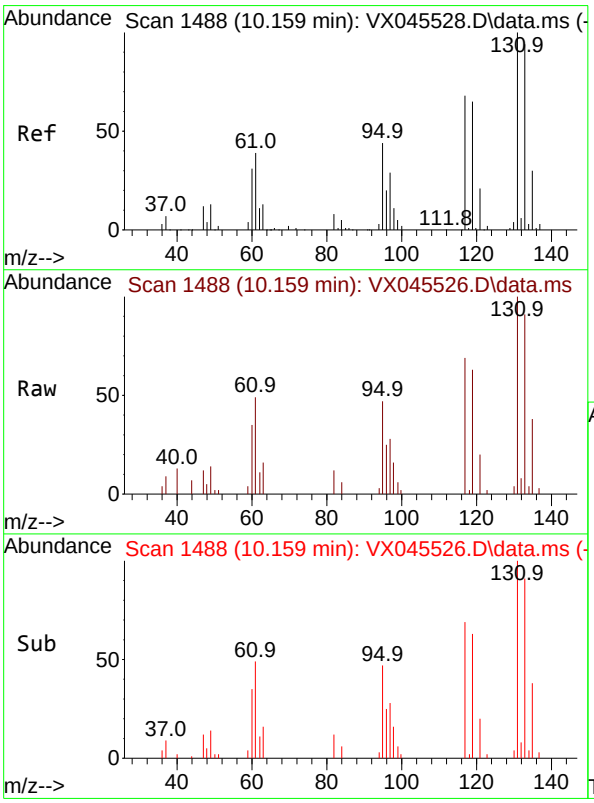
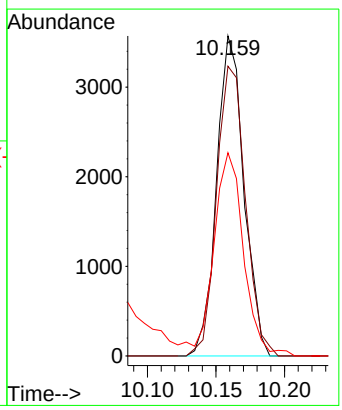
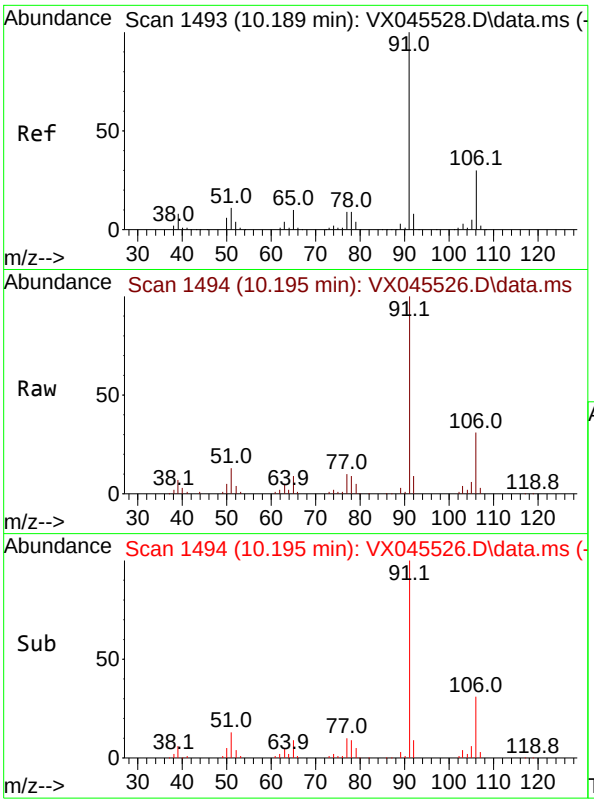


#66
1,1,1,2-Tetrachloroethane
Concen: 4.631 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion:131 Resp: 4945

Ion	Ratio	Lower	Upper
131	100		
133	95.6	47.5	142.5
119	70.0	32.9	98.6





#67
Ethyl Benzene
Concen: 4.753 ug/l
RT: 10.195 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion: 91 Resp: 2618

Ion	Ratio	Lower	Upper
91	100		
106	31.4	23.7	35.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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Reviewed By :Amit Patel 04/02/2025
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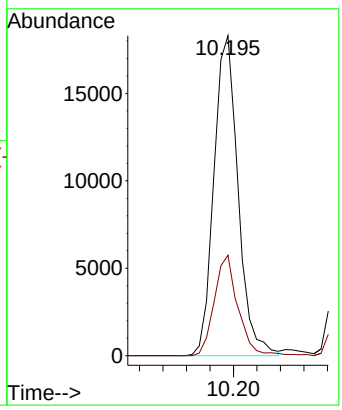
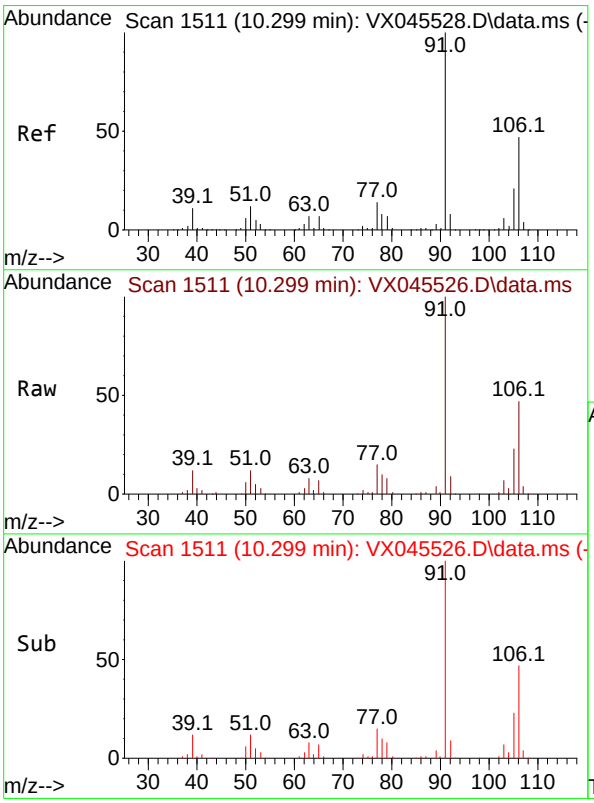
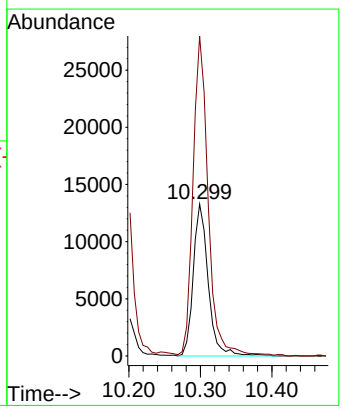


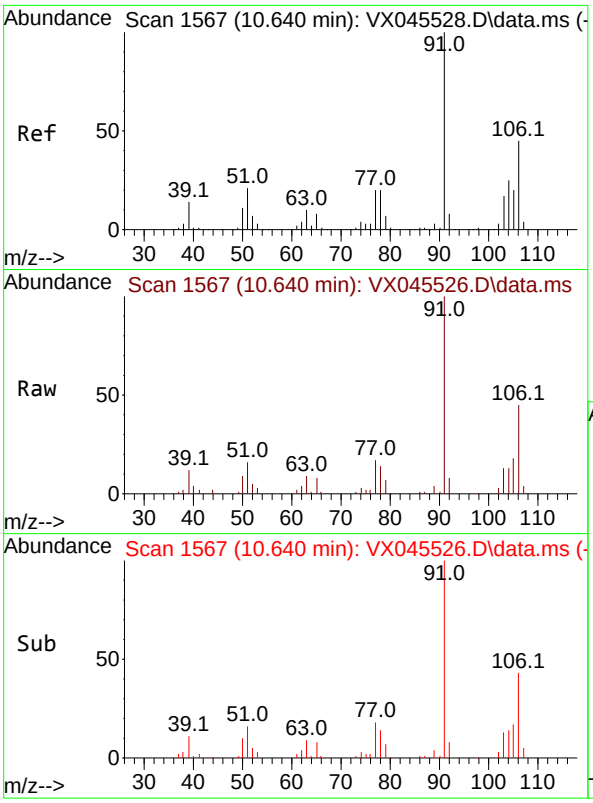


#68
m/p-Xylenes
Concen: 9.617 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion:106 Resp: 19268

Ion	Ratio	Lower	Upper
106	100		
91	213.6	172.6	258.8

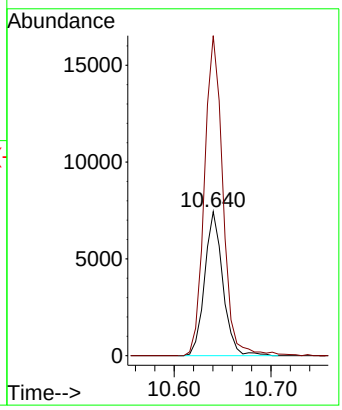




#69
o-Xylene
Concen: 4.932 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion:106 Resp: 973

Ion	Ratio	Lower	Upper
106	100		
91	225.8	113.6	340.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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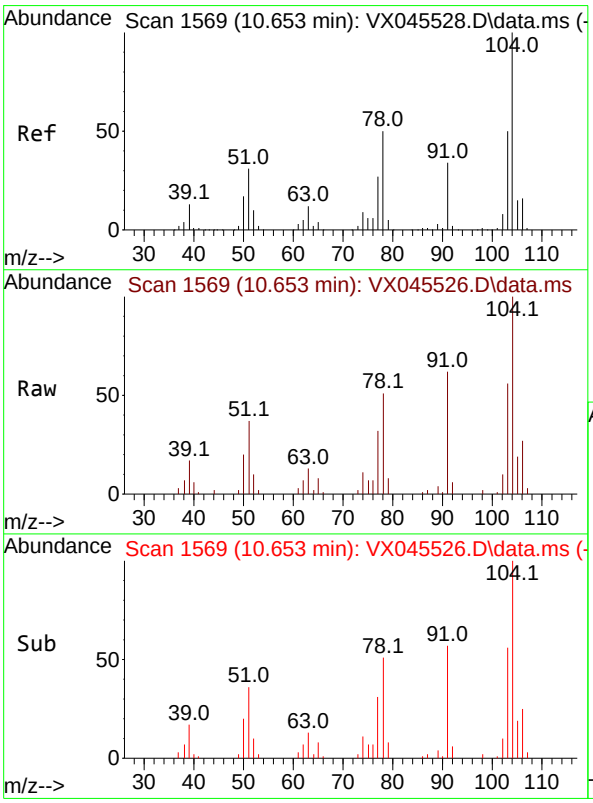
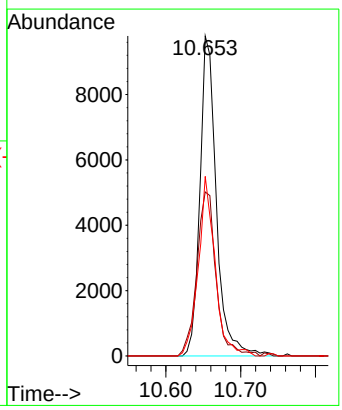
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

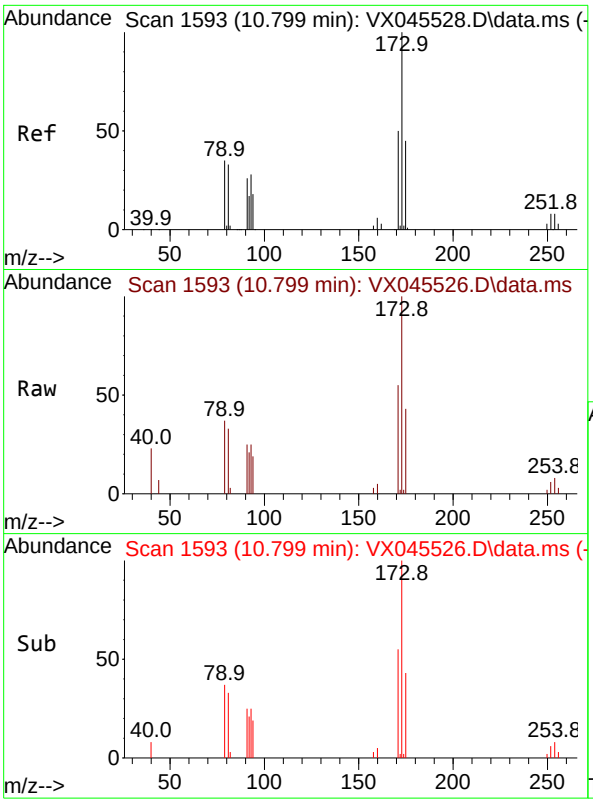


#70
Styrene
Concen: 4.610 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion:104 Resp: 15017

Ion	Ratio	Lower	Upper
104	100		
78	59.8	45.4	68.2
103	57.1	43.8	65.8

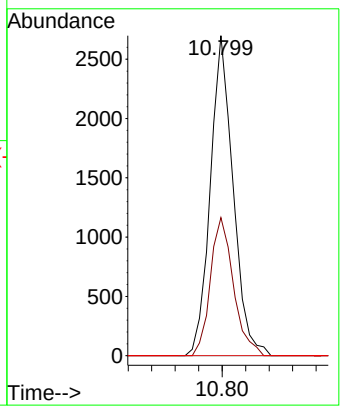




#71
Bromoform
Concen: 4.558 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion:173 Resp: 363

Ion	Ratio	Lower	Upper
173	100		
175	43.7	23.4	70.2
254	0.0	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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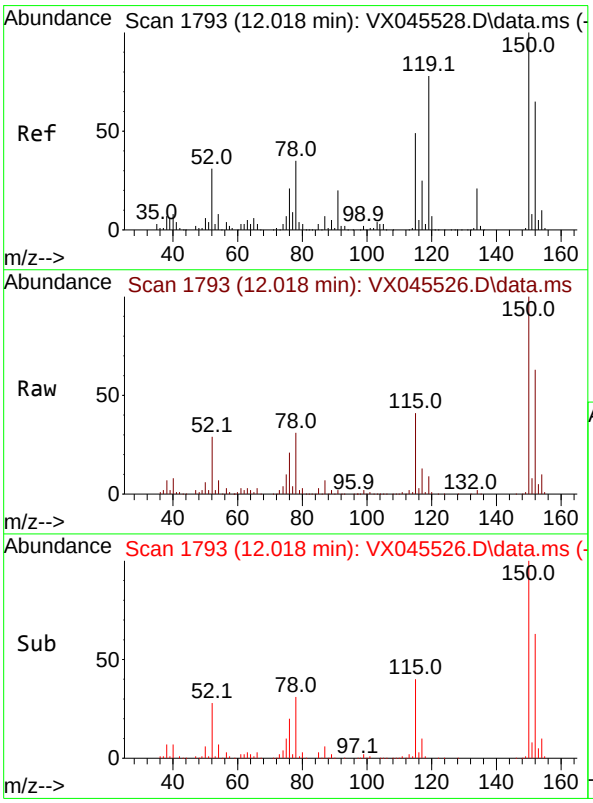
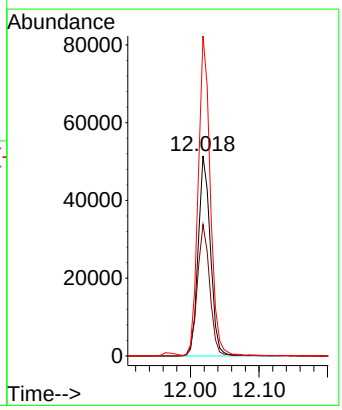
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

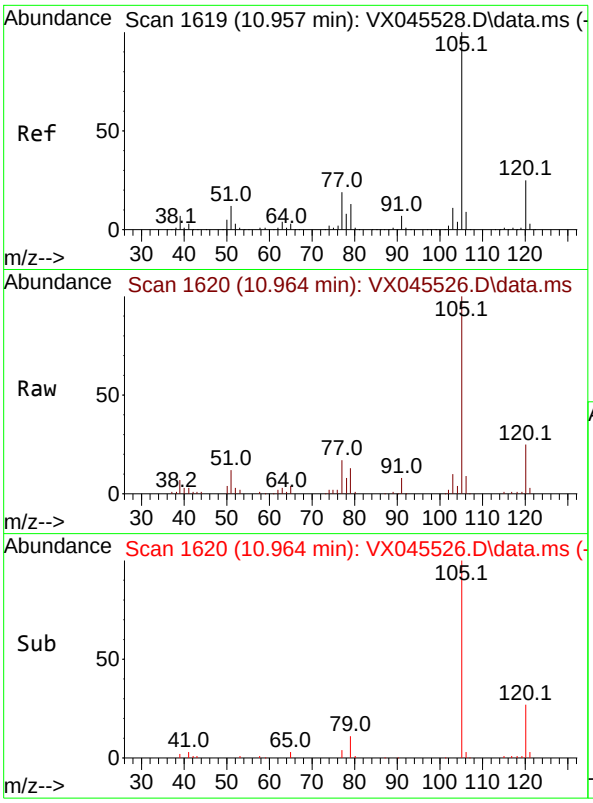


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion:152 Resp: 63909

Ion	Ratio	Lower	Upper
152	100		
115	66.5	46.9	140.7
150	157.5	0.0	349.4





#73
Isopropylbenzene
Concen: 4.806 ug/l
RT: 10.964 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

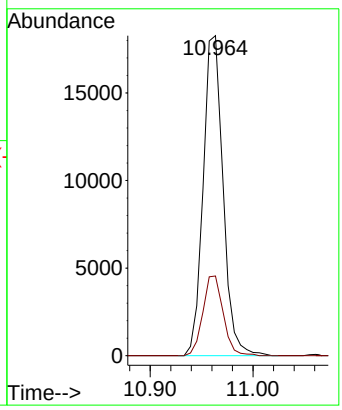
Tgt Ion:105 Resp: 2460

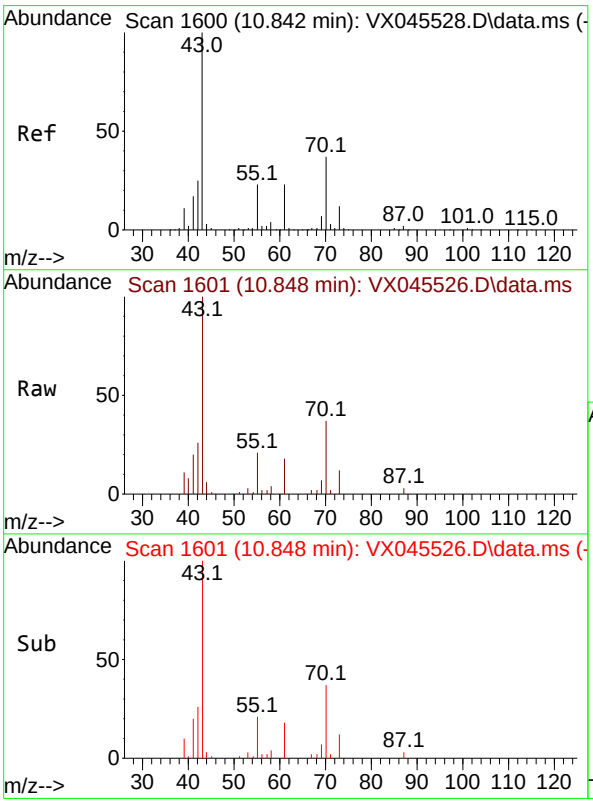
Ion	Ratio	Lower	Upper
105	100		
120	25.5	12.7	38.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

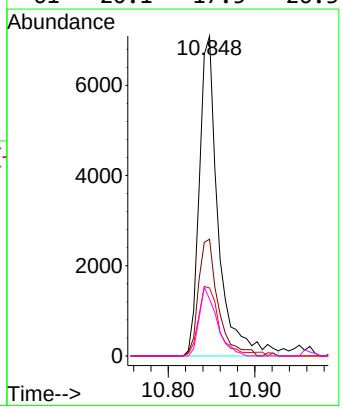


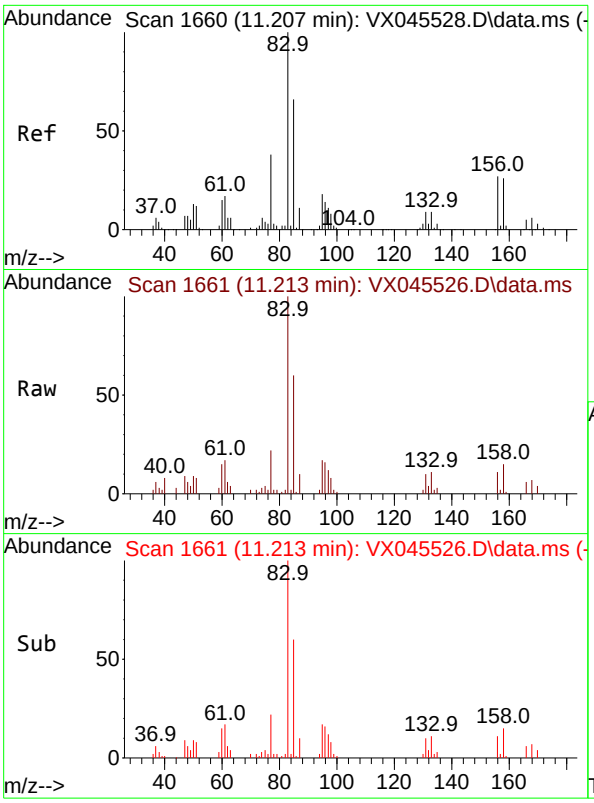


#74
N-amyl acetate
Concen: 4.390 ug/l
RT: 10.848 min Scan# 1601
Delta R.T. 0.006 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion: 43 Resp: 10750

Ion	Ratio	Lower	Upper
43	100		
70	37.8	30.1	45.1
55	23.0	18.3	27.5
61	20.1	17.5	26.3

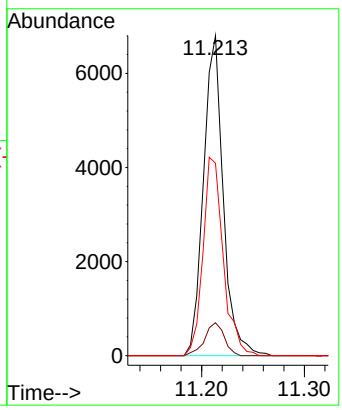




#75
1,1,2,2-Tetrachloroethane
Concen: 5.075 ug/l
RT: 11.213 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion: 83 Resp: 912

Ion	Ratio	Lower	Upper
83	100		
131	10.2	4.7	14.1
85	63.5	32.4	97.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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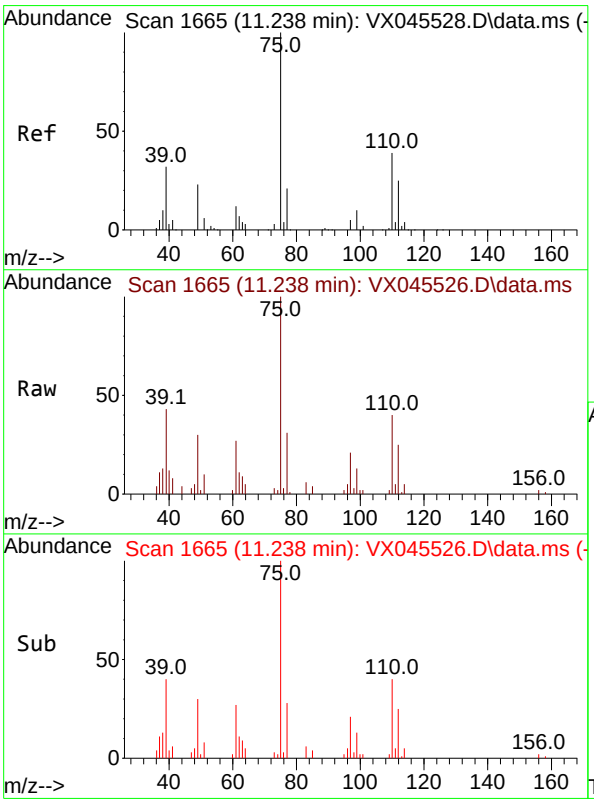
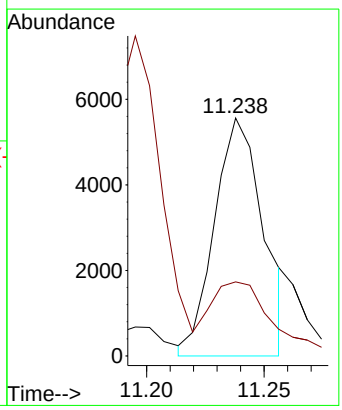
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

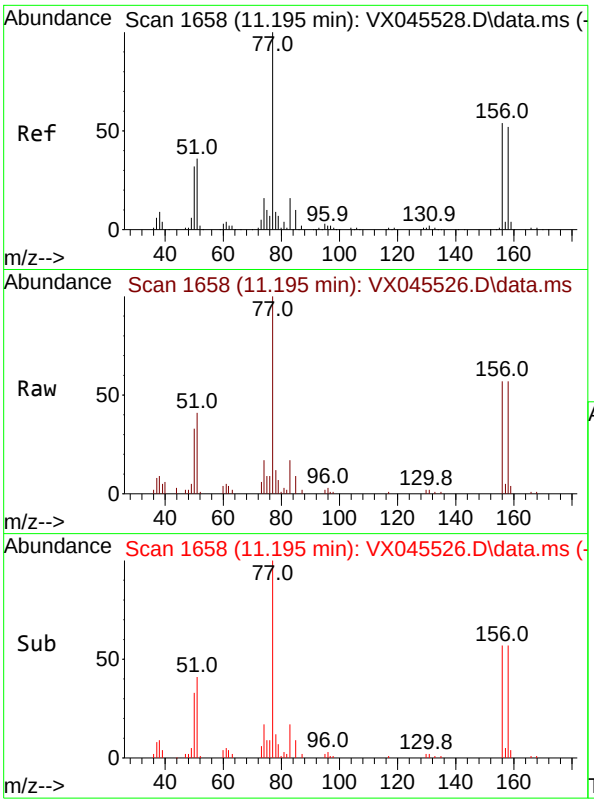


#76
1,2,3-Trichloropropane
Concen: 5.152 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion: 75 Resp: 8032

Ion	Ratio	Lower	Upper
75	100		
77	40.2	20.0	59.9

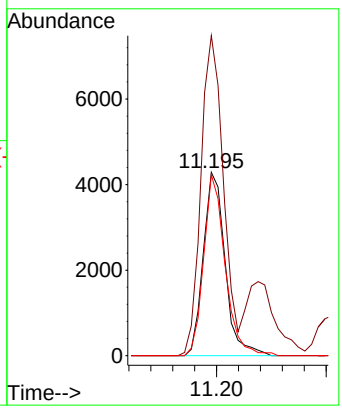




#77
Bromobenzene
Concen: 5.011 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion:156 Resp: 592

Ion	Ratio	Lower	Upper
156	100		
77	178.8	92.6	277.8
158	97.0	48.1	144.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

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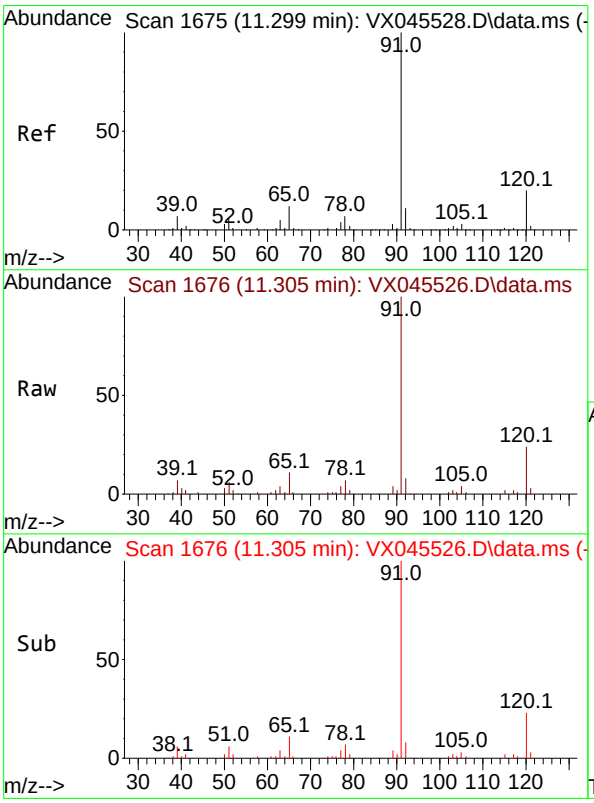
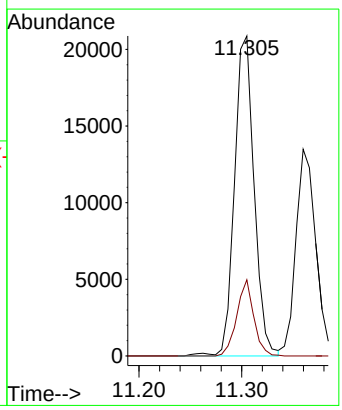
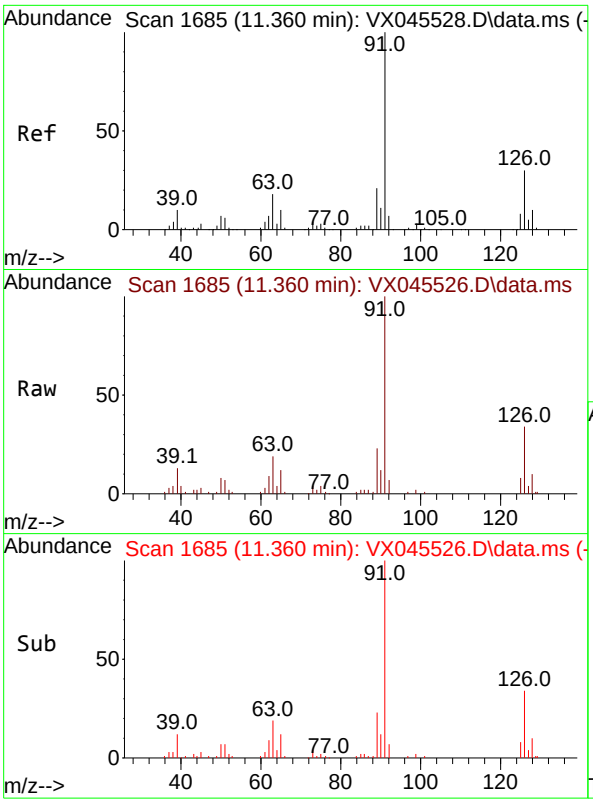


#78
n-propylbenzene
Concen: 4.711 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.006 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion: 91 Resp: 27777

Ion	Ratio	Lower	Upper
91	100		
120	20.6	10.8	32.3





#79
2-Chlorotoluene
Concen: 4.870 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion: 91 Resp: 1835

Ion	Ratio	Lower	Upper
91	100		
126	31.3	15.8	47.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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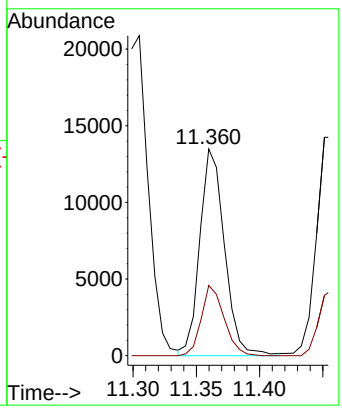
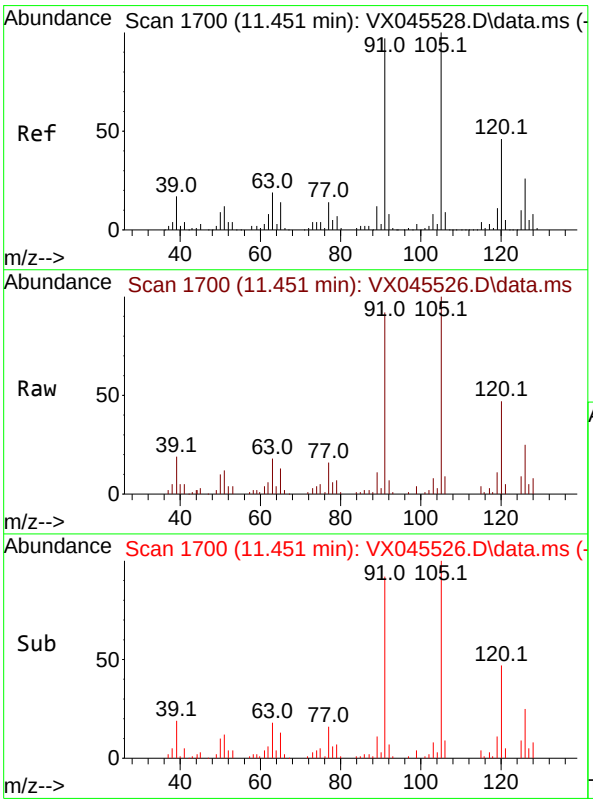
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

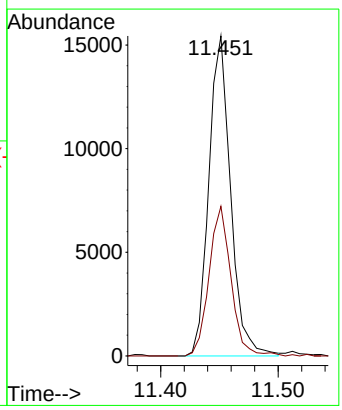


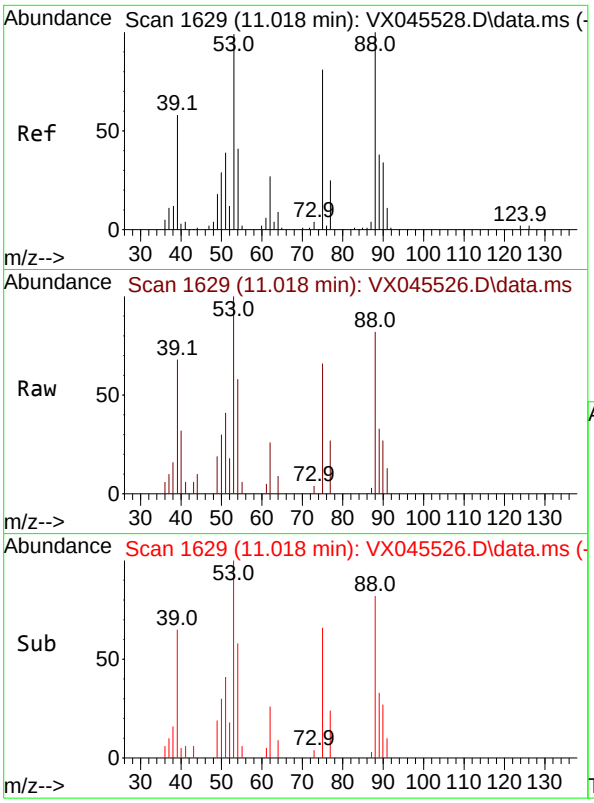


#80
1,3,5-Trimethylbenzene
Concen: 4.710 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion:105 Resp: 19936

Ion	Ratio	Lower	Upper
105	100		
120	47.1	23.0	69.0





#81
trans-1,4-Dichloro-2-butene
Concen: 3.814 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion: 75 Resp: 175

Ion	Ratio	Lower	Upper
75	100		
53	149.1	101.8	152.6
89	43.1	37.2	55.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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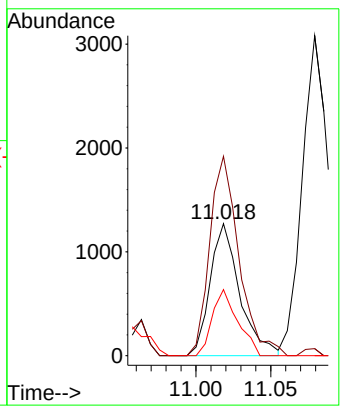
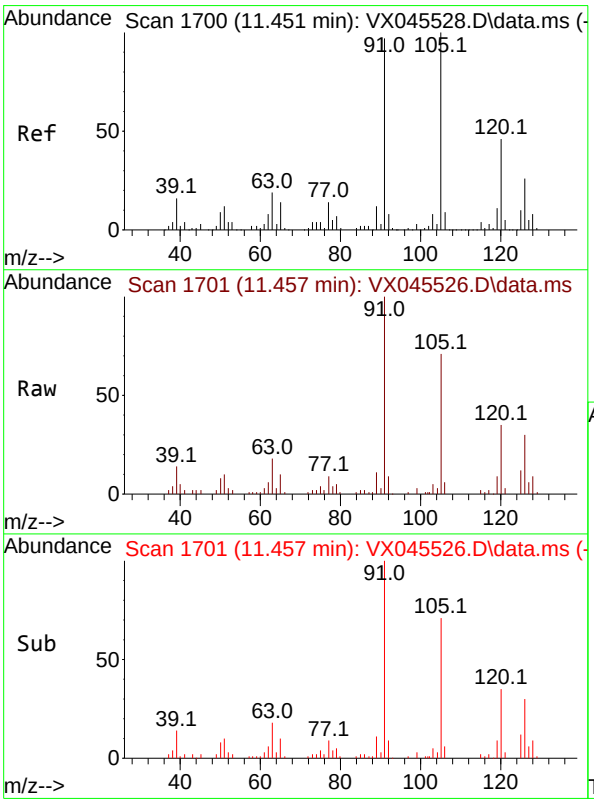
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

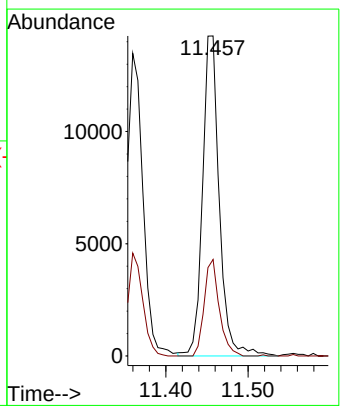


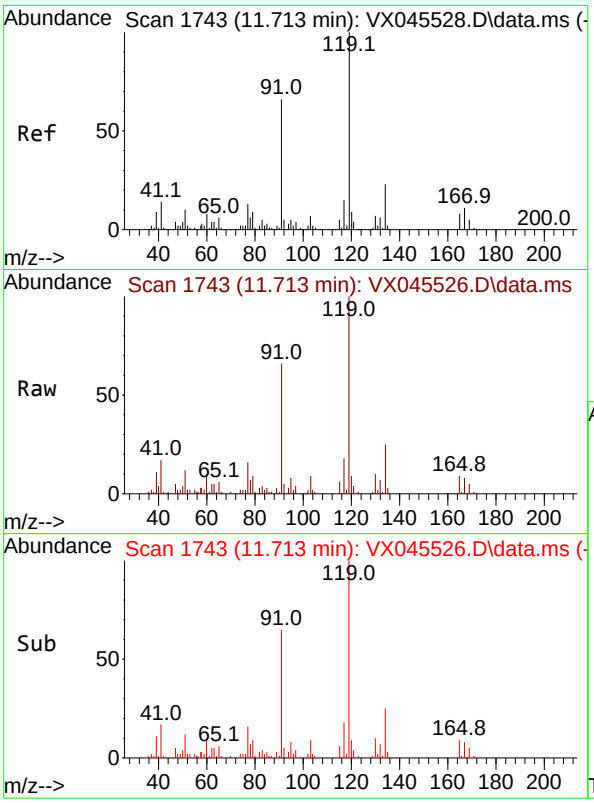


#82
4-Chlorotoluene
Concen: 4.799 ug/l
RT: 11.457 min Scan# 1701
Delta R.T. 0.006 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion: 91 Resp: 20171

Ion	Ratio	Lower	Upper
91	100		
126	27.2	13.3	39.9





#83
tert-Butylbenzene
Concen: 4.763 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion:119 Resp: 1996

Ion	Ratio	Lower	Upper
119	100		
91	65.7	32.4	97.2
134	24.6	11.5	34.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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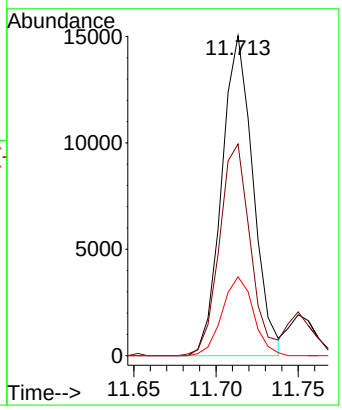
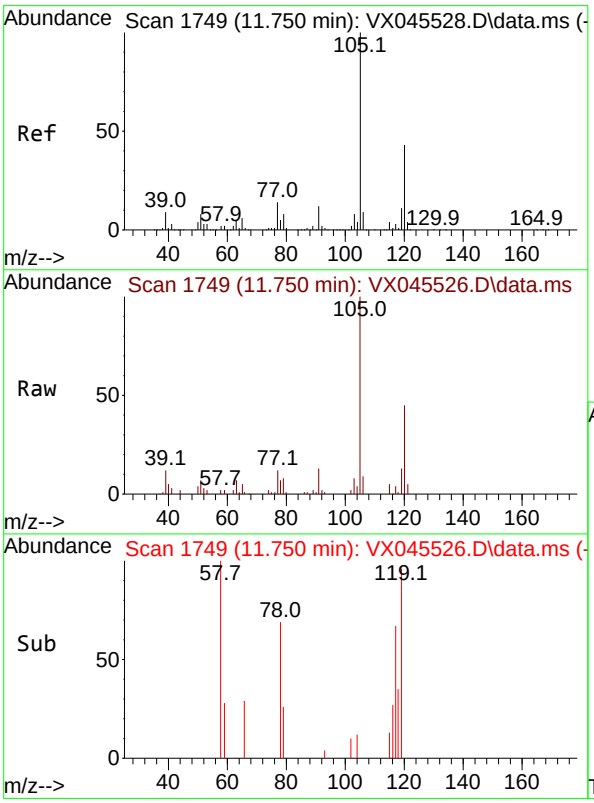
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

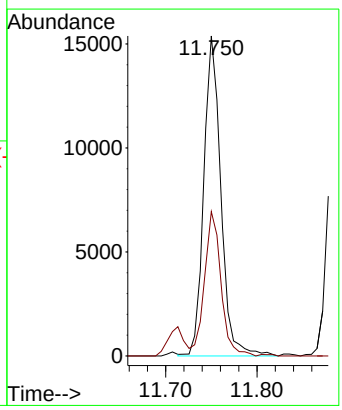


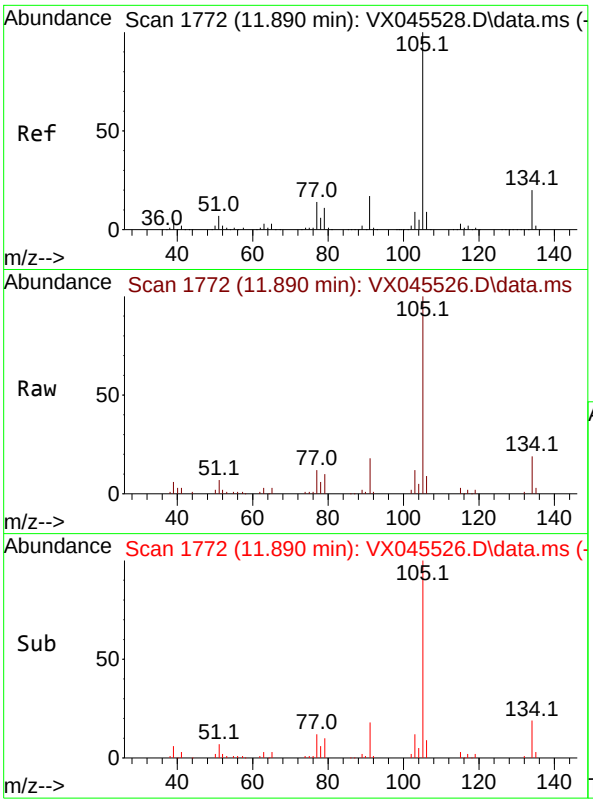


#84
1,2,4-Trimethylbenzene
Concen: 4.707 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion:105 Resp: 19998

Ion	Ratio	Lower	Upper
105	100		
120	43.5	21.4	64.3

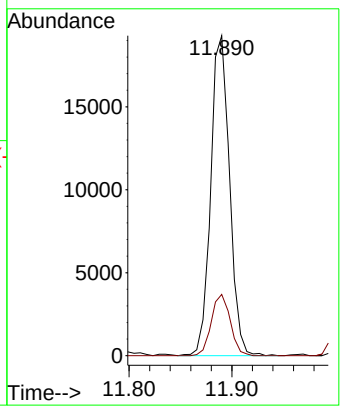




#85
sec-Butylbenzene
Concen: 4.753 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion:105 Resp: 2446

Ion	Ratio	Lower	Upper
105	100		
134	19.3	9.6	28.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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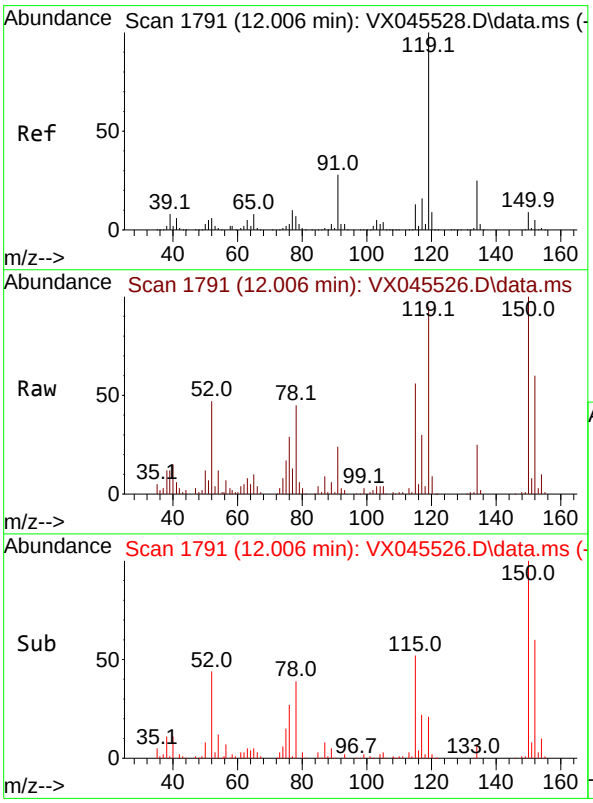
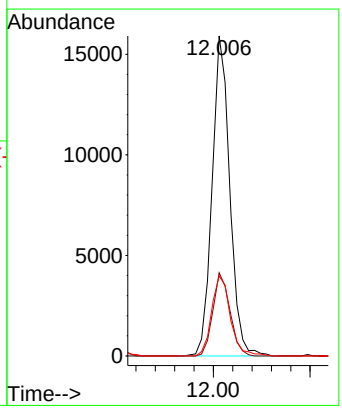
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

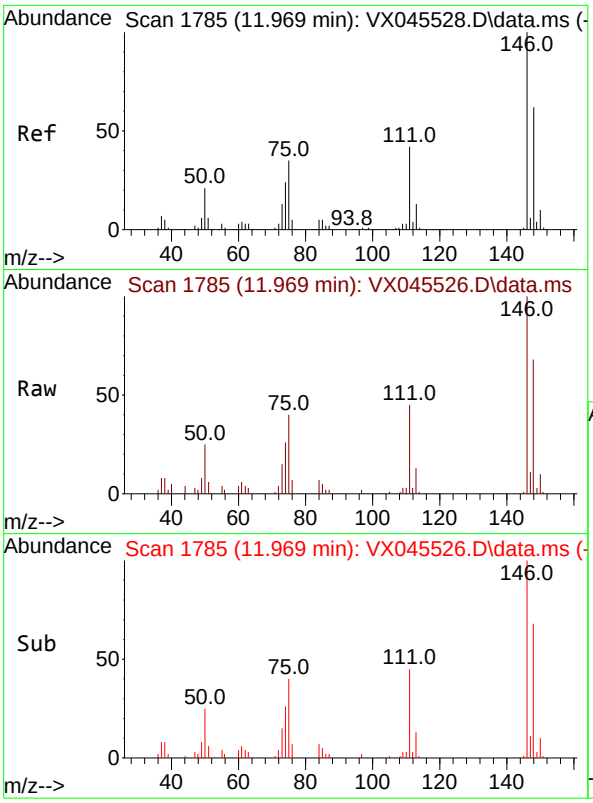


#86
p-Isopropyltoluene
Concen: 4.755 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion:119 Resp: 20178

Ion	Ratio	Lower	Upper
119	100		
134	25.1	12.6	37.8
91	26.4	13.7	41.1

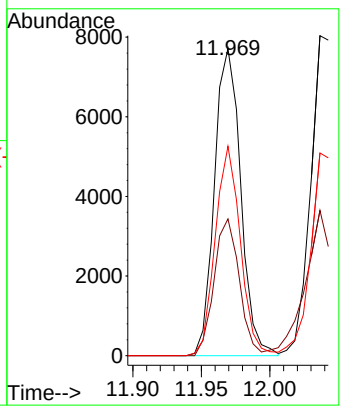




#87
1,3-Dichlorobenzene
Concen: 4.763 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion:146 Resp: 1025

Ion	Ratio	Lower	Upper
146	100		
111	42.9	22.2	66.6
148	65.7	31.9	95.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
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Reviewed By :Amit Patel 04/02/2025
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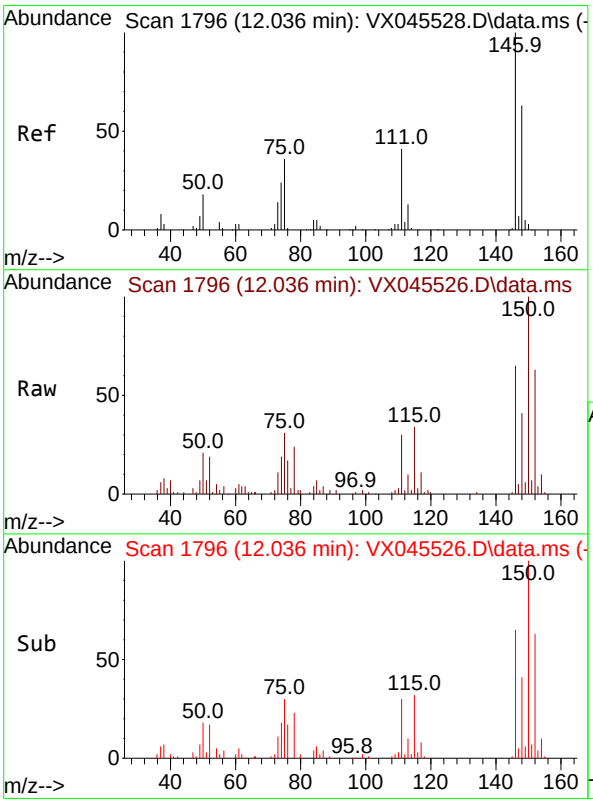
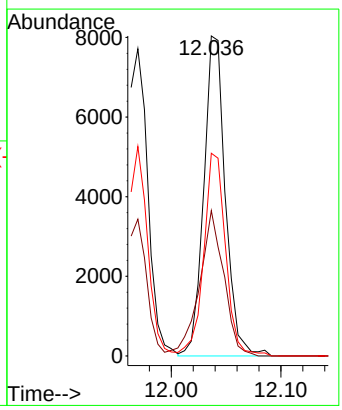
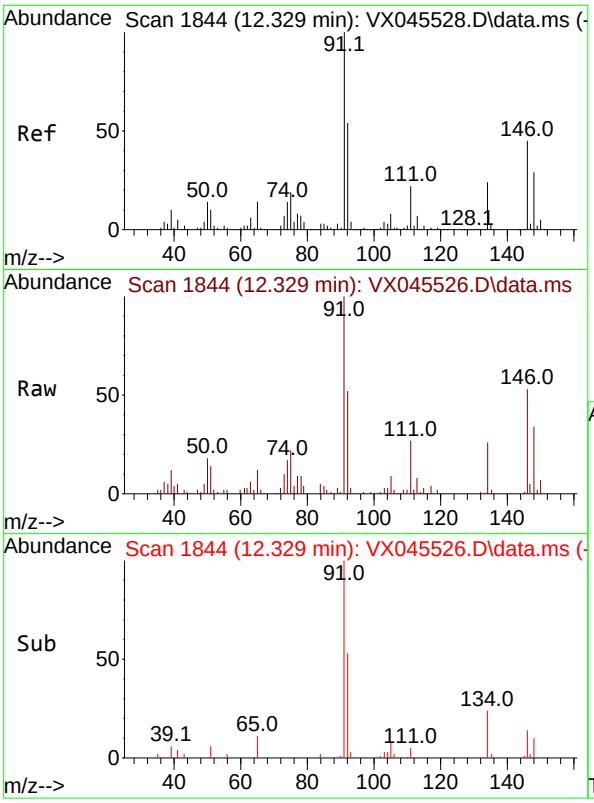


#88
1,4-Dichlorobenzene
Concen: 5.047 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion:146 Resp: 11016

Ion	Ratio	Lower	Upper
146	100		
111	51.4	20.9	62.8
148	64.2	31.5	94.5

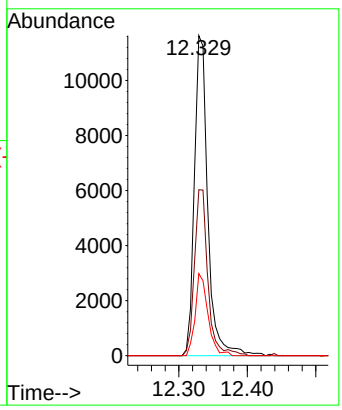




#89
n-Butylbenzene
Concen: 4.317 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion: 91 Resp: 1588

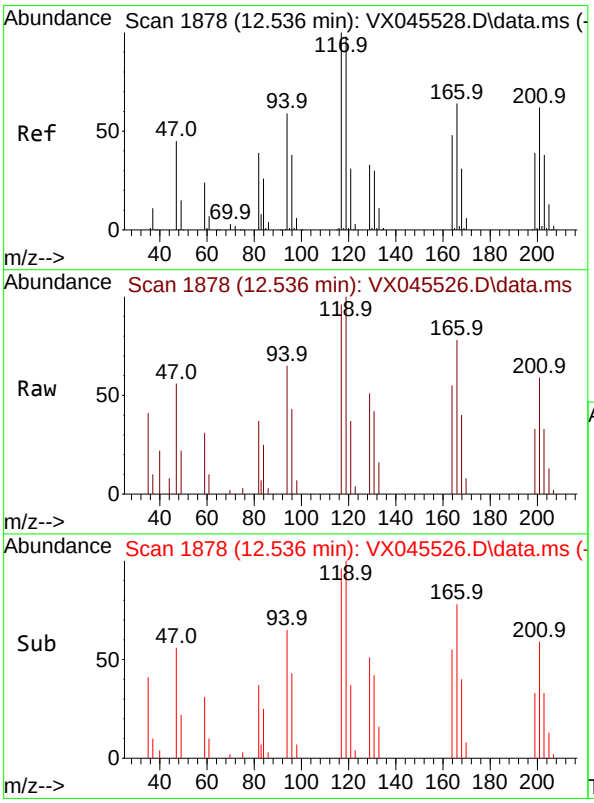
Ion	Ratio	Lower	Upper
91	100		
92	52.1	26.9	80.6
134	24.4	11.9	35.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

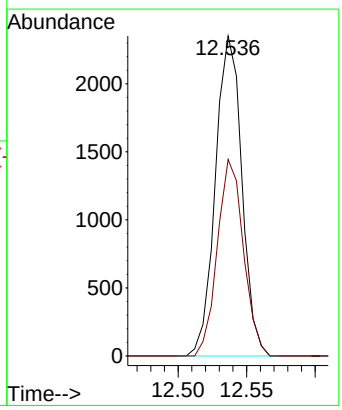
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

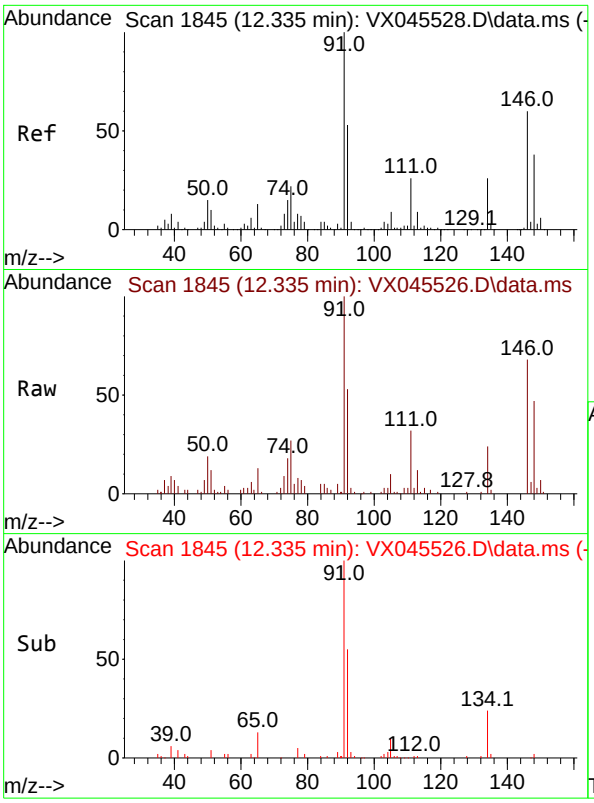


#90
Hexachloroethane
Concen: 4.320 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion:117 Resp: 3151

Ion	Ratio	Lower	Upper
117	100		
201	60.6	31.2	93.6

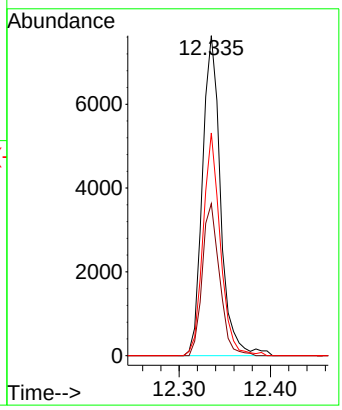




#91
1,2-Dichlorobenzene
Concen: 4.910 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion:146 Resp: 1051

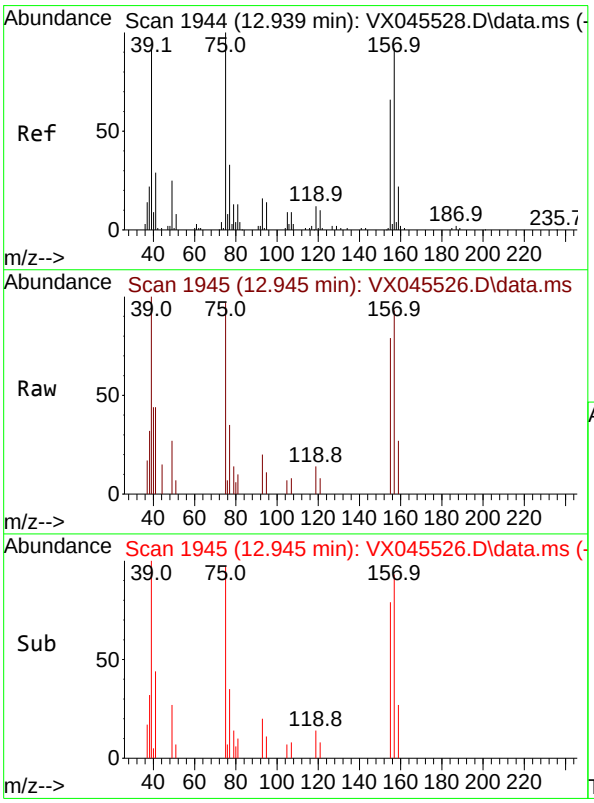
Ion	Ratio	Lower	Upper
146	100		
111	45.2	22.9	68.8
148	66.3	31.9	95.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

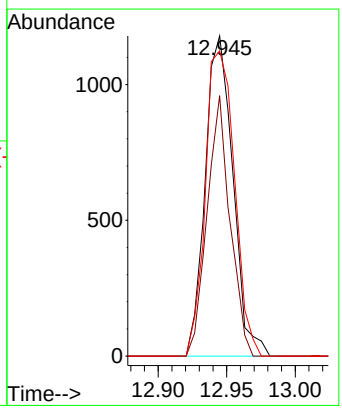
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

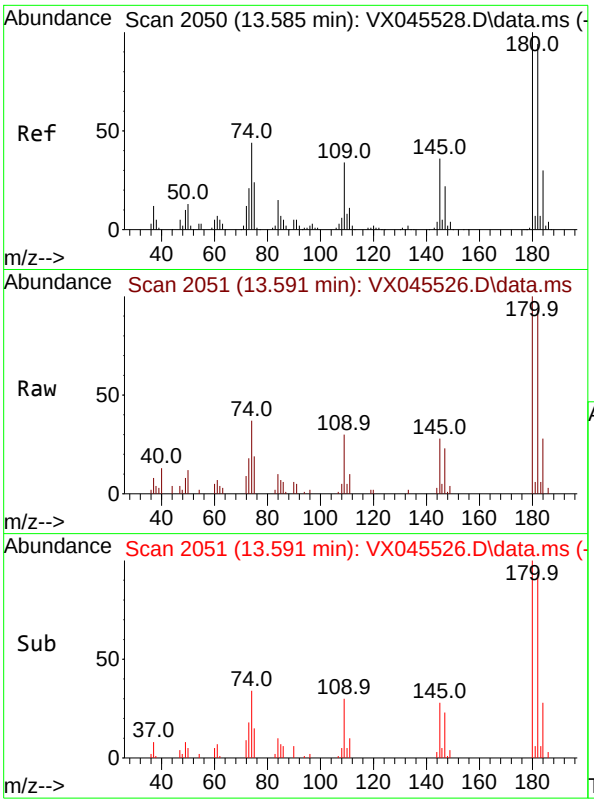


#92
1,2-Dibromo-3-Chloropropane
Concen: 4.417 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. 0.006 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion: 75 Resp: 1661

Ion	Ratio	Lower	Upper
75	100		
155	67.3	34.9	104.7
157	100.4	44.9	134.7

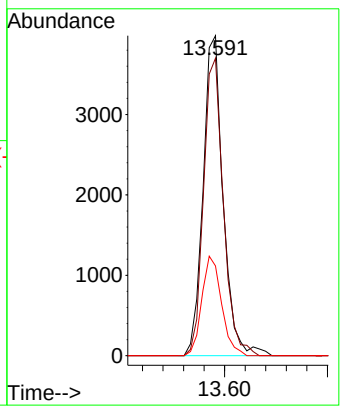




#93
1,2,4-Trichlorobenzene
Concen: 4.524 ug/l
RT: 13.591 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion:180 Resp: 539

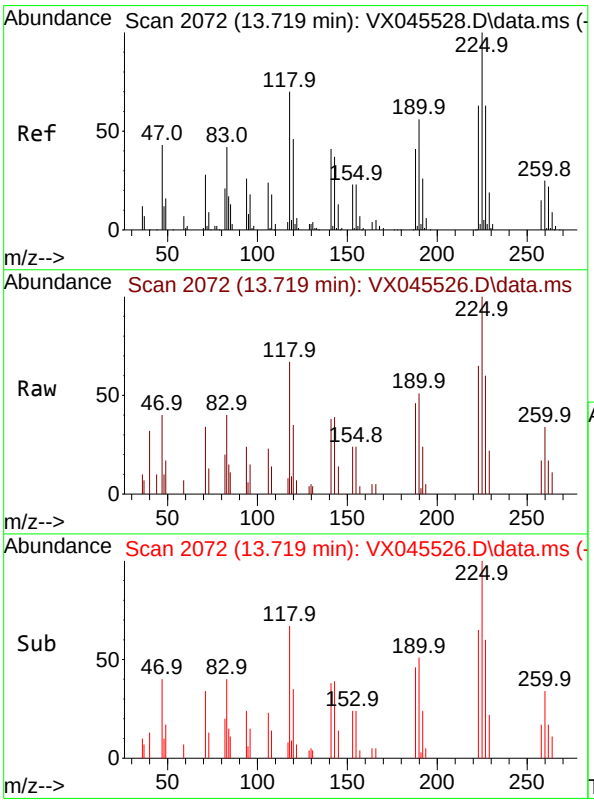
Ion	Ratio	Lower	Upper
180	100		
182	91.7	47.9	143.6
145	30.7	17.9	53.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

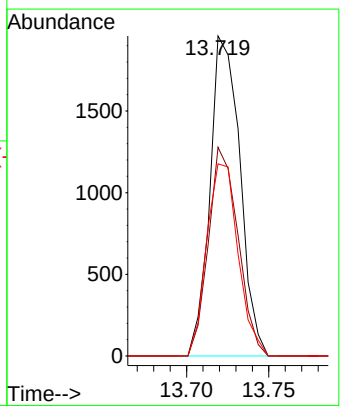
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

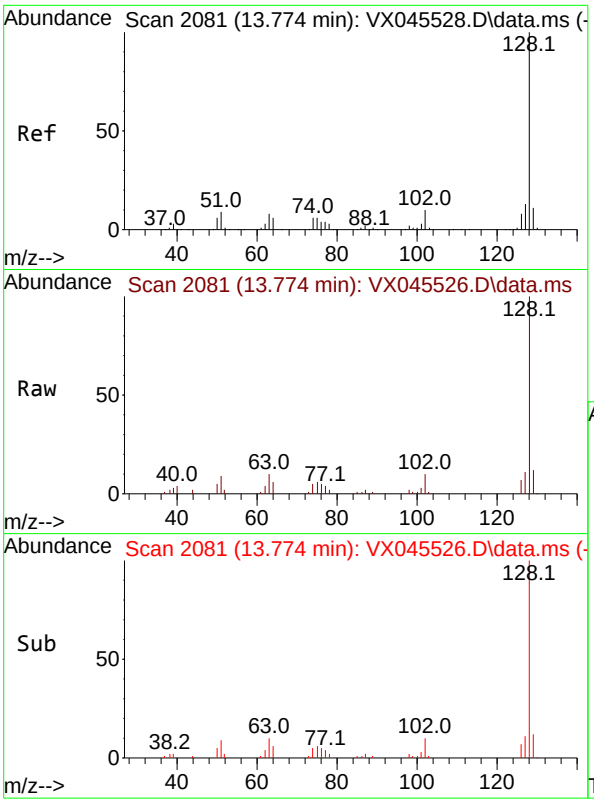


#94
Hexachlorobutadiene
Concen: 4.836 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. 0.000 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion:225 Resp: 2483

Ion	Ratio	Lower	Upper
225	100		
223	64.4	31.1	93.3
227	62.8	32.2	96.6

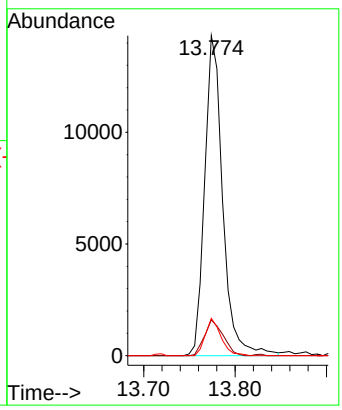




#95
Naphthalene
Concen: 4.424 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion:128 Resp: 1961

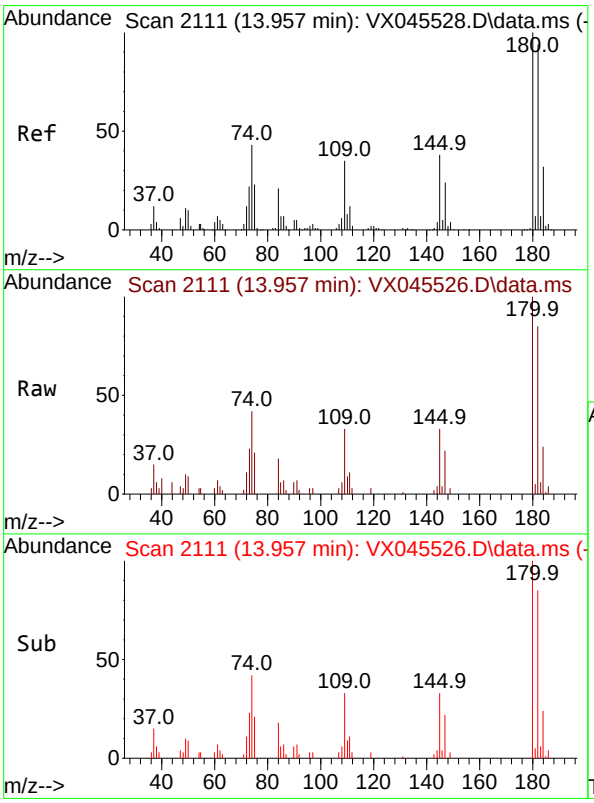
Ion	Ratio	Lower	Upper
128	100		
127	11.5	10.3	15.5
129	10.2	8.6	12.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

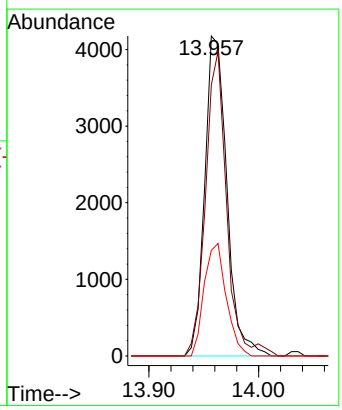
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#96
1,2,3-Trichlorobenzene
Concen: 4.692 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion:180 Resp: 5854

Ion	Ratio	Lower	Upper
180	100		
182	90.7	47.3	141.8
145	35.2	18.2	54.6



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045527.D
Acq On : 01 Apr 2025 17:52
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 02 02:52:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 02:44:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	90228	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	160754	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	144087	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	65341	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	32500	19.697	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	39.400%#		
35) Dibromofluoromethane	5.385	113	21963	19.256	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	38.520%#		
50) Toluene-d8	8.647	98	79303	19.921	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	39.840%#		
62) 4-Bromofluorobenzene	11.079	95	28795	19.858	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	39.720%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	25265	18.724	ug/l	97
3) Chloromethane	1.301	50	28034	20.223	ug/l	98
4) Vinyl Chloride	1.374	62	25285	19.931	ug/l	97
5) Bromomethane	1.593	94	11815	19.642	ug/l	99
6) Chloroethane	1.666	64	14071	20.905	ug/l	98
7) Trichlorofluoromethane	1.874	101	38815	20.518	ug/l	98
8) Diethyl Ether	2.136	74	12852	20.235	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.319	101	22917	20.673	ug/l	95
10) Methyl Iodide	2.441	142	28478	20.596	ug/l	99
11) Tert butyl alcohol	2.983	59	22453	101.253	ug/l	100
12) 1,1-Dichloroethene	2.306	96	22103	20.406	ug/l	96
13) Acrolein	2.239	56	28991	94.938	ug/l	99
14) Allyl chloride	2.660	41	41233	20.063	ug/l	99
15) Acrylonitrile	3.062	53	74487	106.412	ug/l	98
16) Acetone	2.386	43	69788	103.000	ug/l	99
17) Carbon Disulfide	2.502	76	51771	19.352	ug/l	98
18) Methyl Acetate	2.703	43	31190	19.994	ug/l	99
19) Methyl tert-butyl Ether	3.117	73	78284	20.660	ug/l	96
20) Methylene Chloride	2.782	84	26212	20.664	ug/l	96
21) trans-1,2-Dichloroethene	3.087	96	22968	20.755	ug/l	92
22) Diisopropyl ether	3.757	45	84046	20.760	ug/l #	81
23) Vinyl Acetate	3.721	43	361881	103.458	ug/l	99
24) 1,1-Dichloroethane	3.605	63	47560	20.772	ug/l	99
25) 2-Butanone	4.556	43	105062	105.931	ug/l	99
26) 2,2-Dichloropropane	4.471	77	28956	19.574	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	27425	20.342	ug/l	98
28) Bromochloromethane	4.897	49	22285	20.141	ug/l	100
29) Tetrahydrofuran	5.007	42	66994	104.187	ug/l	99
30) Chloroform	5.093	83	48639	20.646	ug/l	100
31) Cyclohexane	5.458	56	41450	20.478	ug/l	99
32) 1,1,1-Trichloroethane	5.373	97	40407	20.270	ug/l	99
36) 1,1-Dichloropropene	5.684	75	30504	19.808	ug/l	98
37) Ethyl Acetate	4.715	43	39163	20.180	ug/l	98
38) Carbon Tetrachloride	5.672	117	33533	20.148	ug/l	94
39) Methylcyclohexane	7.373	83	38303	20.291	ug/l	97
40) Benzene	6.031	78	97667	20.766	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045527.D
Acq On : 01 Apr 2025 17:52
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 02 02:52:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 02:44:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.922	41	21740	21.046	ug/l		97
42) 1,2-Dichloroethane	6.086	62	41733	21.484	ug/l		100
43) Isopropyl Acetate	6.342	43	61222	20.814	ug/l		99
44) Trichloroethene	7.123	130	22918	20.501	ug/l		97
45) 1,2-Dichloropropane	7.428	63	24926	21.241	ug/l		90
46) Dibromomethane	7.580	93	19104	21.207	ug/l		99
47) Bromodichloromethane	7.818	83	37036	20.587	ug/l		99
48) Methyl methacrylate	7.696	41	31247	20.575	ug/l		99
49) 1,4-Dioxane	7.659	88	12104	440.515	ug/l		96
51) 4-Methyl-2-Pentanone	8.574	43	212645	109.055	ug/l		99
52) Toluene	8.714	92	60357	21.208	ug/l		99
53) t-1,3-Dichloropropene	8.976	75	29870	18.764	ug/l		96
54) cis-1,3-Dichloropropene	8.366	75	35099	20.762	ug/l		95
55) 1,1,2-Trichloroethane	9.147	97	24191	21.331	ug/l		96
56) Ethyl methacrylate	9.116	69	36155	20.600	ug/l		99
57) 1,3-Dichloropropane	9.305	76	41900	21.217	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	91923	103.534	ug/l		100
59) 2-Hexanone	9.427	43	156999	108.730	ug/l		99
60) Dibromochloromethane	9.519	129	25992	21.023	ug/l		98
61) 1,2-Dibromoethane	9.604	107	24456	21.303	ug/l		99
64) Tetrachloroethene	9.269	164	21379	21.015	ug/l		98
65) Chlorobenzene	10.079	112	64727	21.023	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.159	131	21447	20.064	ug/l		98
67) Ethyl Benzene	10.189	91	115368	20.921	ug/l		99
68) m/p-Xylenes	10.299	106	84420	42.092	ug/l		99
69) o-Xylene	10.640	106	41803	21.158	ug/l		100
70) Styrene	10.653	104	69290	21.249	ug/l		99
71) Bromoform	10.799	173	15659	19.619	ug/l	#	99
73) Isopropylbenzene	10.957	105	110396	21.093	ug/l		100
74) N-amyl acetate	10.842	43	51238	20.466	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.207	83	38177	20.764	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	32690m	20.510	ug/l		
77) Bromobenzene	11.195	156	24902	20.592	ug/l		100
78) n-propylbenzene	11.299	91	130994	21.729	ug/l		98
79) 2-Chlorotoluene	11.360	91	81817	21.229	ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	93328	21.564	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	8435	17.961	ug/l		88
82) 4-Chlorotoluene	11.451	91	90704	21.108	ug/l		99
83) tert-Butylbenzene	11.713	119	89828	20.964	ug/l		98
84) 1,2,4-Trimethylbenzene	11.750	105	92242	21.235	ug/l		100
85) sec-Butylbenzene	11.890	105	112800	21.433	ug/l		100
86) p-Isopropyltoluene	12.006	119	91866	21.173	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	45105	20.490	ug/l		100
88) 1,4-Dichlorobenzene	12.036	146	46208	20.706	ug/l		99
89) n-Butylbenzene	12.329	91	77739	20.662	ug/l		100
90) Hexachloroethane	12.536	117	14544	19.505	ug/l		100
91) 1,2-Dichlorobenzene	12.335	146	45732	20.896	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	8153	21.203	ug/l		100
93) 1,2,4-Trichlorobenzene	13.585	180	24787	20.347	ug/l		98
94) Hexachlorobutadiene	13.725	225	10488	19.979	ug/l		97
95) Naphthalene	13.774	128	94875	20.928	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	26113	20.471	ug/l		98

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045527.D
Acq On : 01 Apr 2025 17:52
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 02 02:52:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 02:44:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

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

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

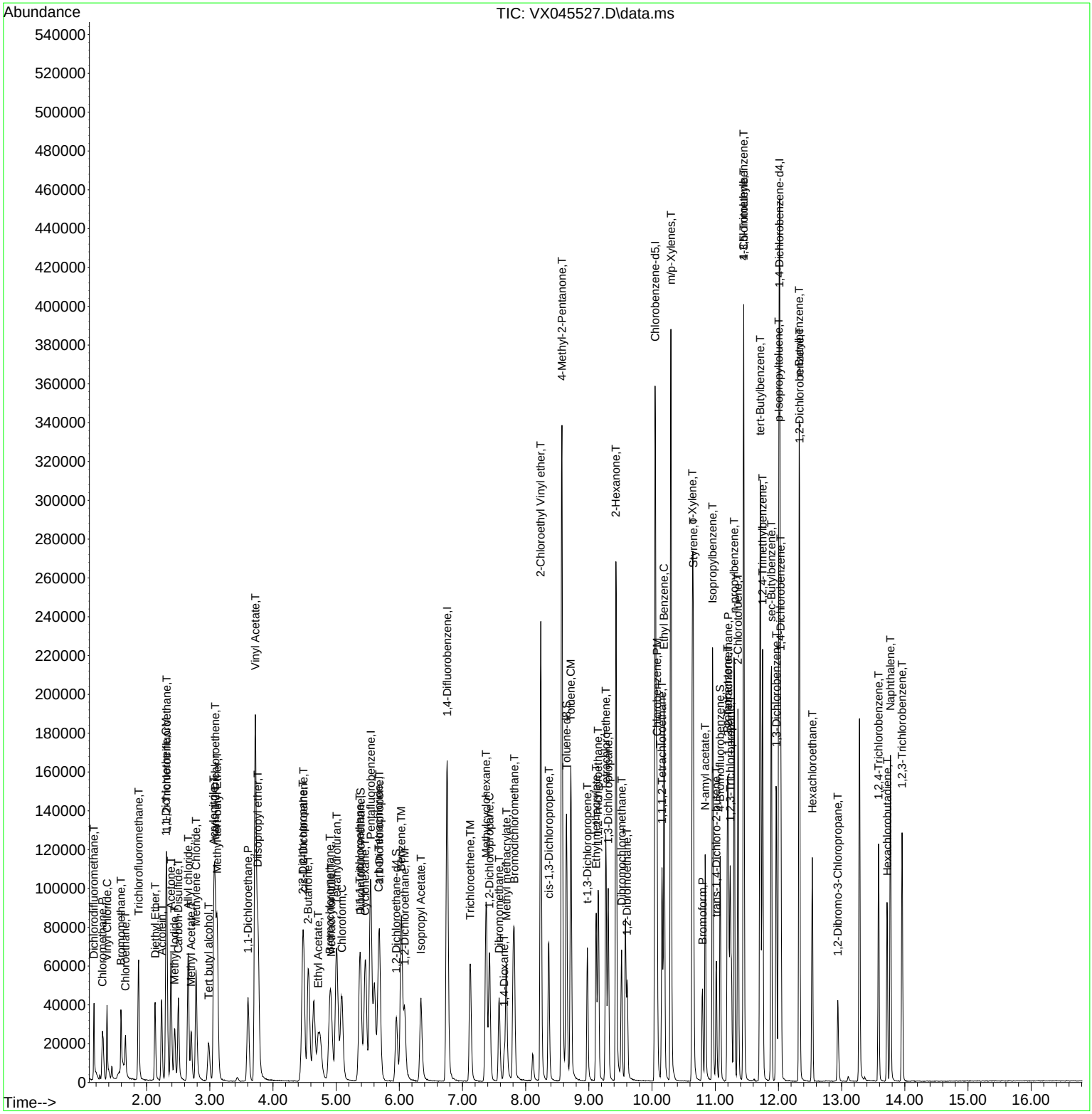
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045527.D
Acq On : 01 Apr 2025 17:52
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

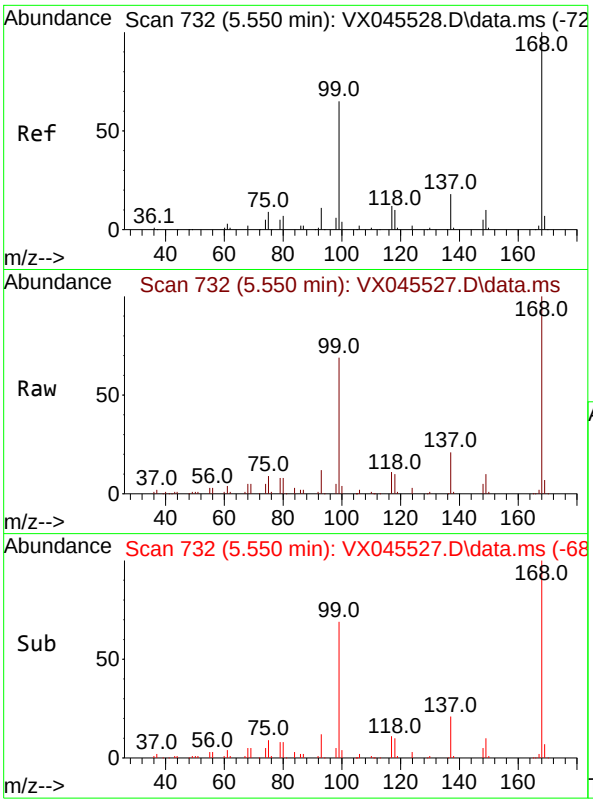
Quant Time: Apr 02 02:52:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 02:44:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

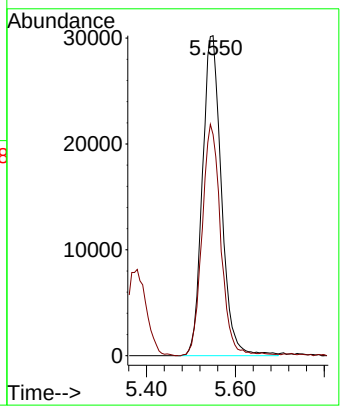




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion:168 Resp: 9022

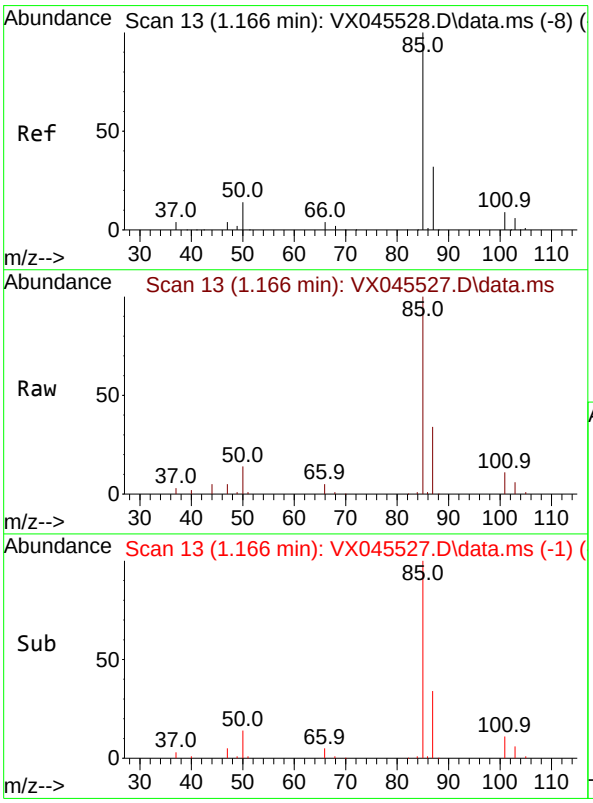
Ion	Ratio	Lower	Upper
168	100		
99	69.1	52.3	78.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

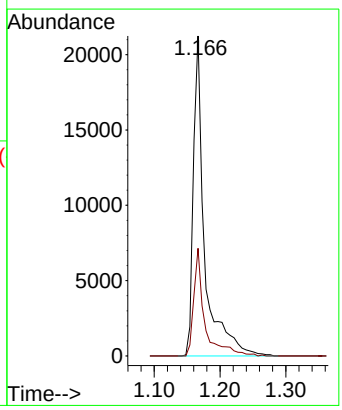
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

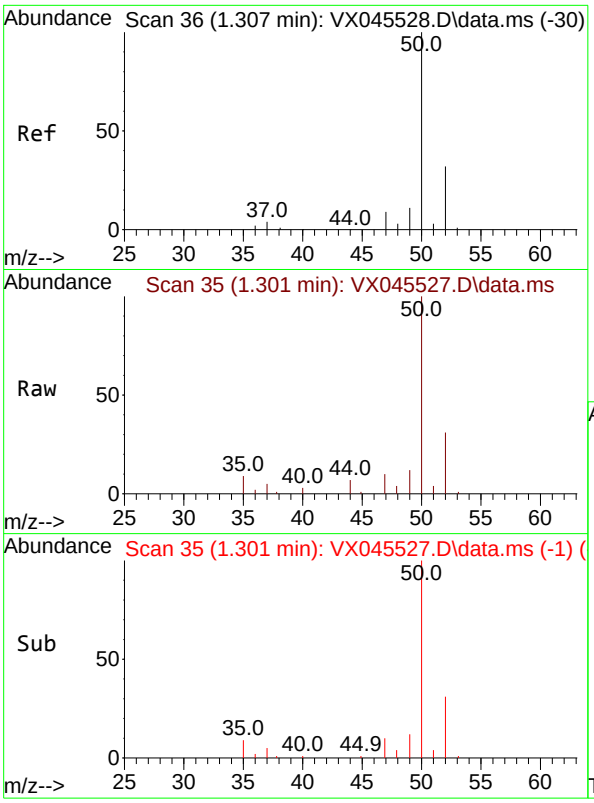


#2
Dichlorodifluoromethane
Concen: 18.724 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion: 85 Resp: 25265

Ion	Ratio	Lower	Upper
85	100		
87	33.7	16.1	48.2

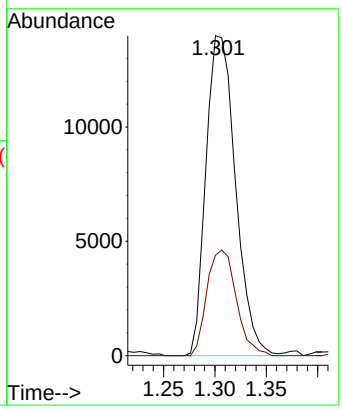




#3
Chloromethane
Concen: 20.223 ug/l
RT: 1.301 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion: 50 Resp: 2803

Ion	Ratio	Lower	Upper
50	100		
52	31.4	25.9	38.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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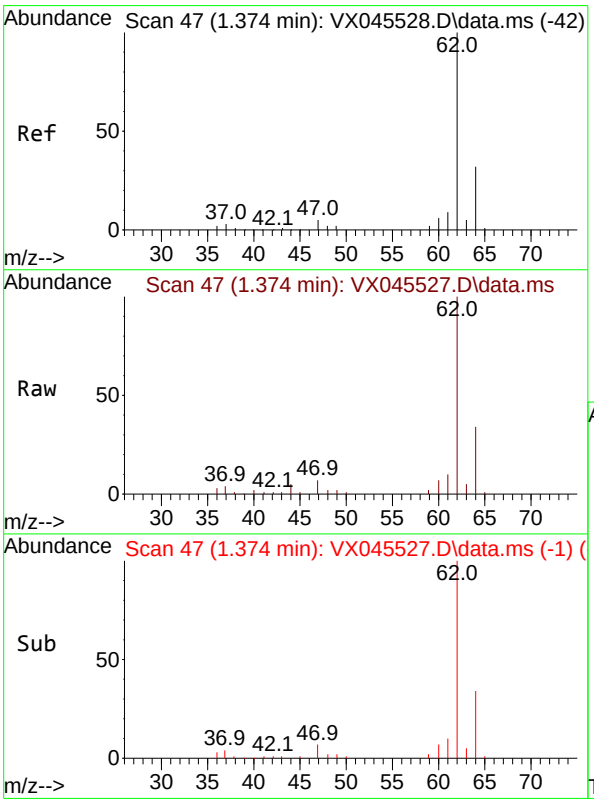
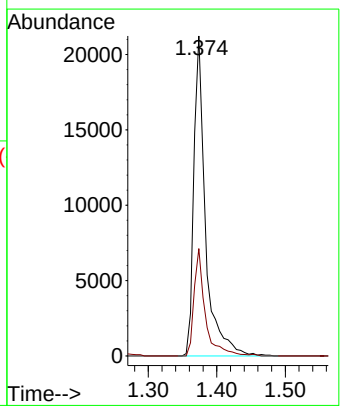
Supervised By :Mahesh Dadoda 04/02/2025

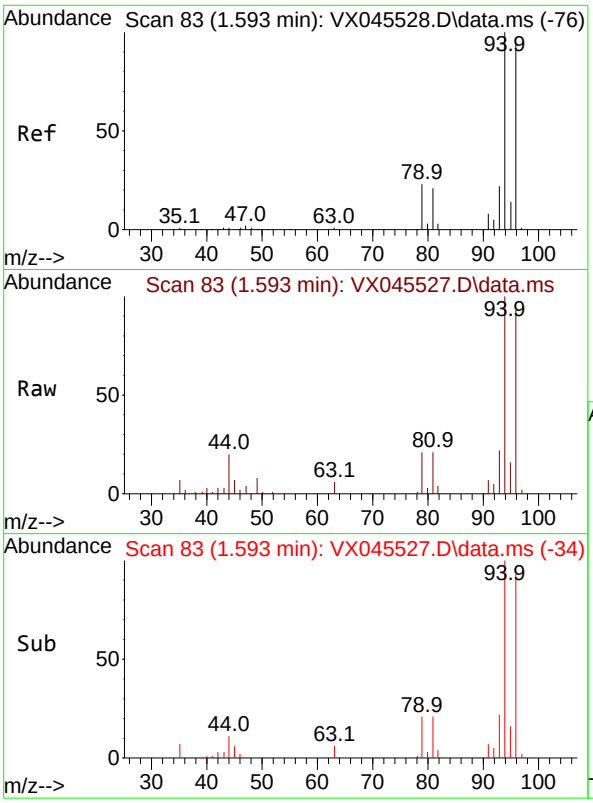


#4
Vinyl Chloride
Concen: 19.931 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion: 62 Resp: 25285

Ion	Ratio	Lower	Upper
62	100		
64	33.5	25.5	38.3

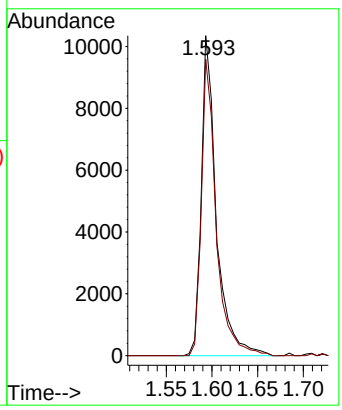




#5
Bromomethane
Concen: 19.642 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion: 94 Resp: 1181

Ion	Ratio	Lower	Upper
94	100		
96	92.7	74.8	112.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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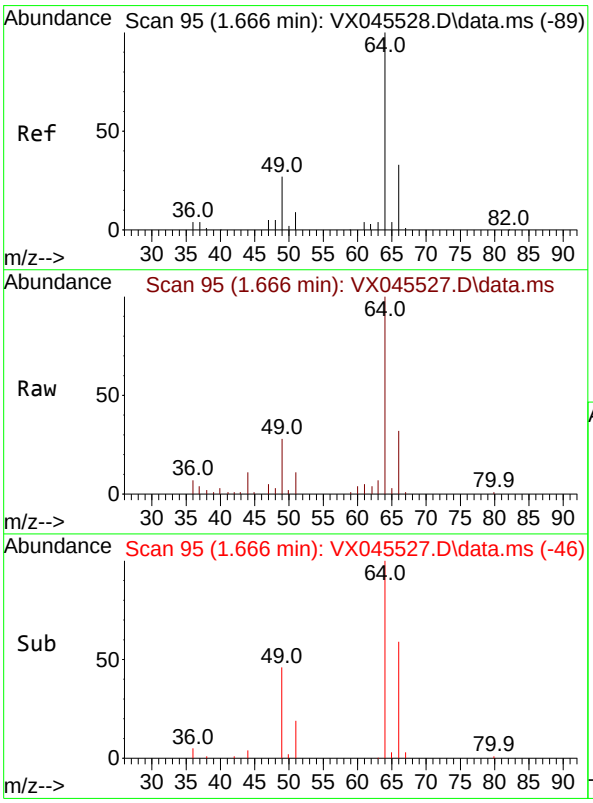
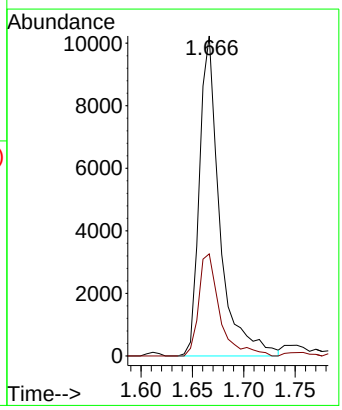
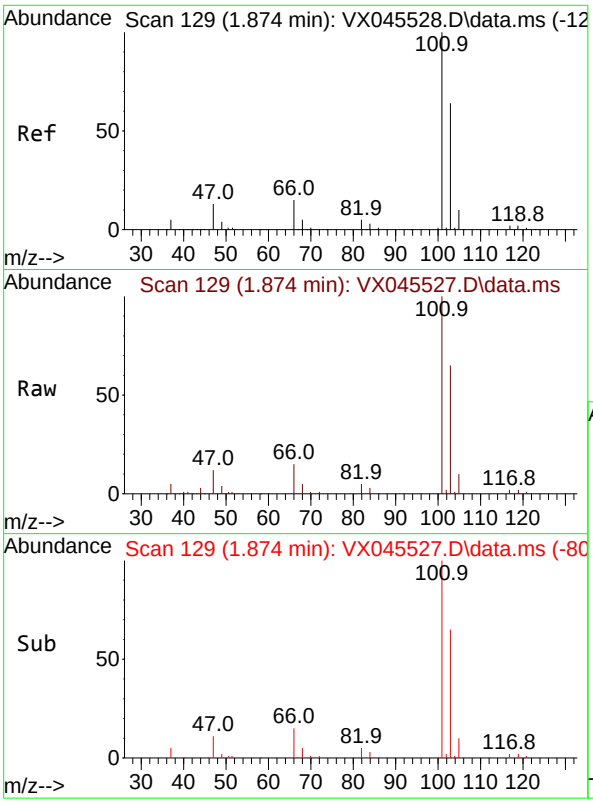


#6
Chloroethane
Concen: 20.905 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion: 64 Resp: 14071

Ion	Ratio	Lower	Upper
64	100		
66	31.9	26.3	39.5

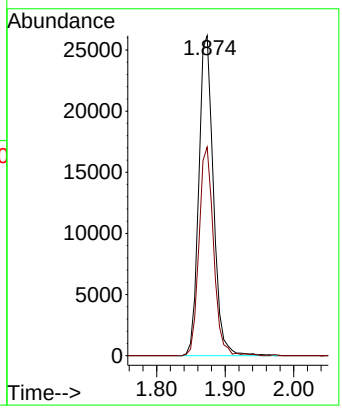




#7
Trichlorofluoromethane
Concen: 20.518 ug/l
RT: 1.874 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion:101 Resp: 3881

Ion	Ratio	Lower	Upper
101	100		
103	65.2	51.1	76.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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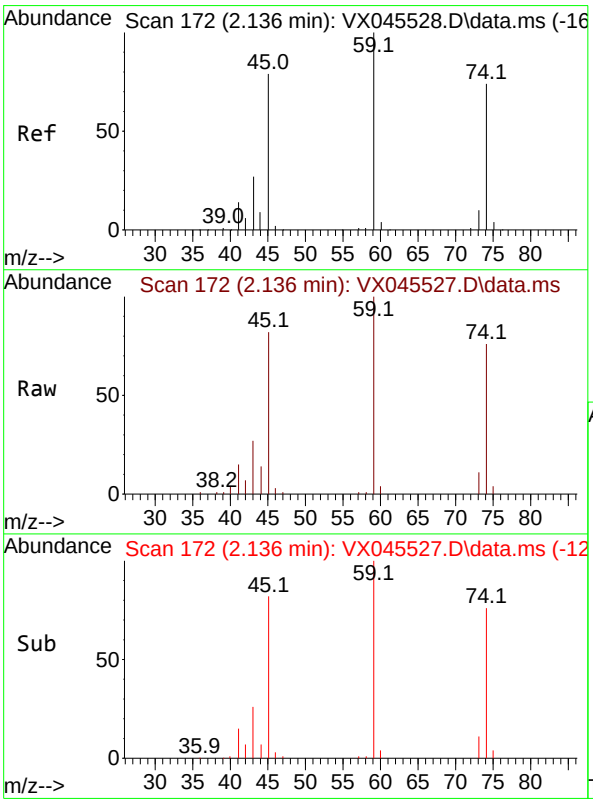
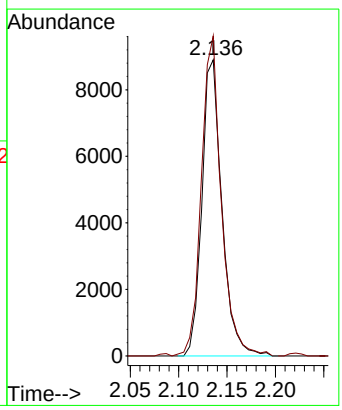
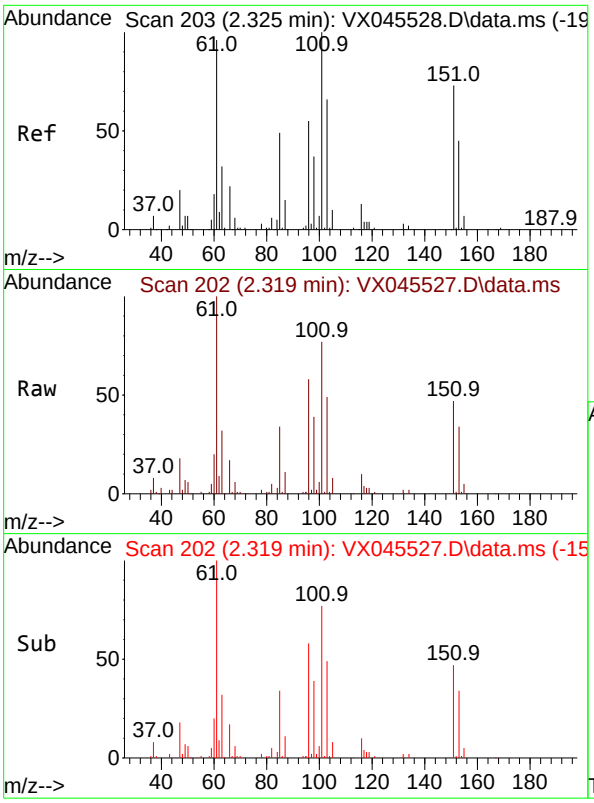


#8
Diethyl Ether
Concen: 20.235 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion: 74 Resp: 12852

Ion	Ratio	Lower	Upper
74	100		
45	107.6	53.0	159.1

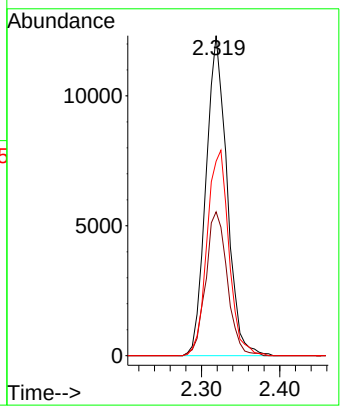




#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.673 ug/l
RT: 2.319 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion:101 Resp: 2291

Ion	Ratio	Lower	Upper
101	100		
85	46.2	38.9	58.3
151	66.8	57.5	86.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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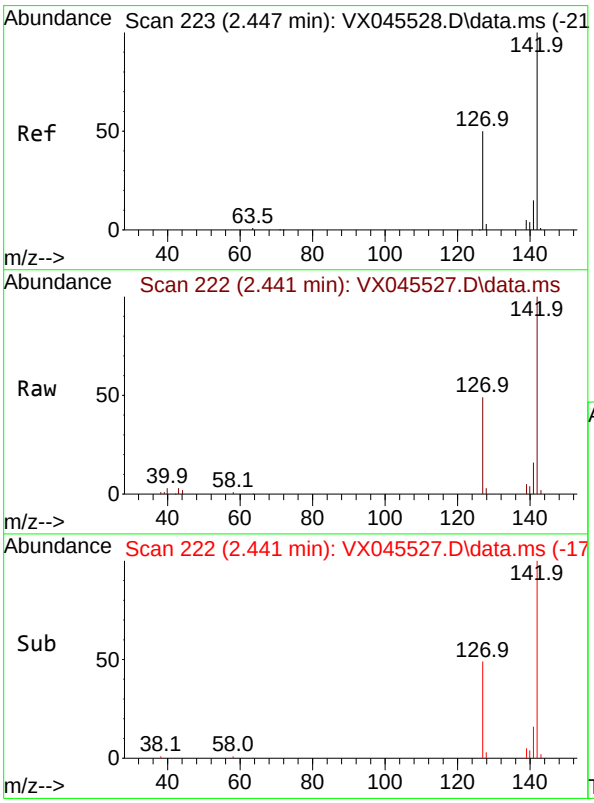
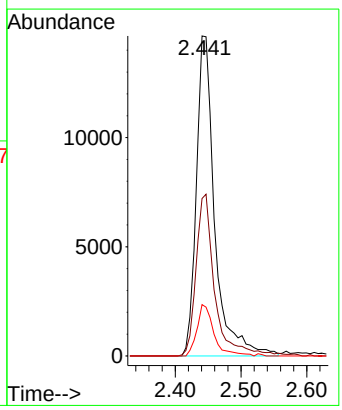
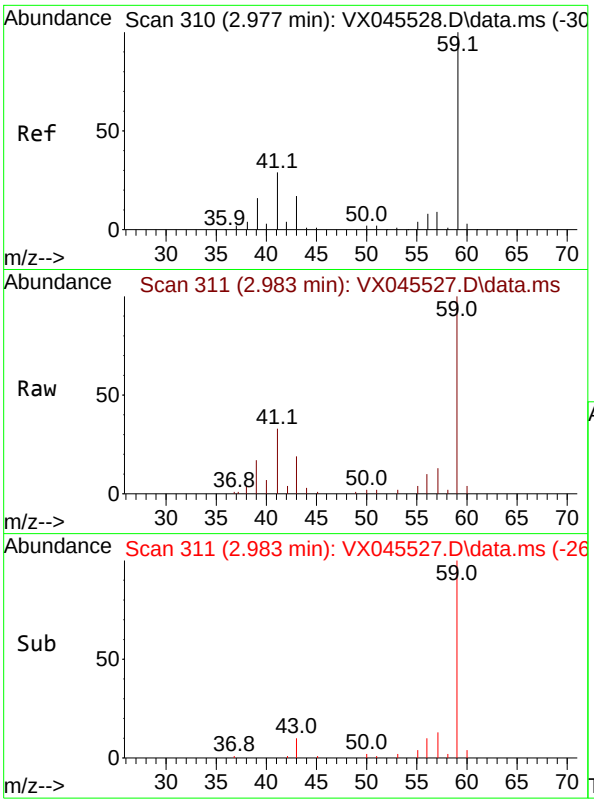


#10
Methyl Iodide
Concen: 20.596 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.006 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion:142 Resp: 28478

Ion	Ratio	Lower	Upper
142	100		
127	51.5	40.2	60.4
141	14.8	11.7	17.5

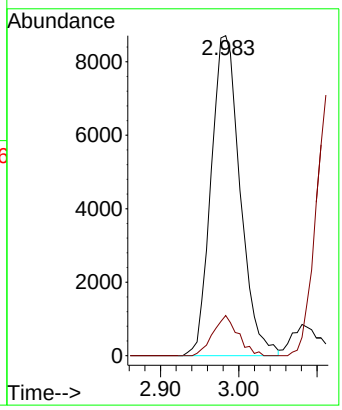




#11
Tert butyl alcohol
Concen: 101.253 ug/l
RT: 2.983 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion: 59 Resp: 2245

Ion	Ratio	Lower	Upper
59	100		
57	10.8	8.6	12.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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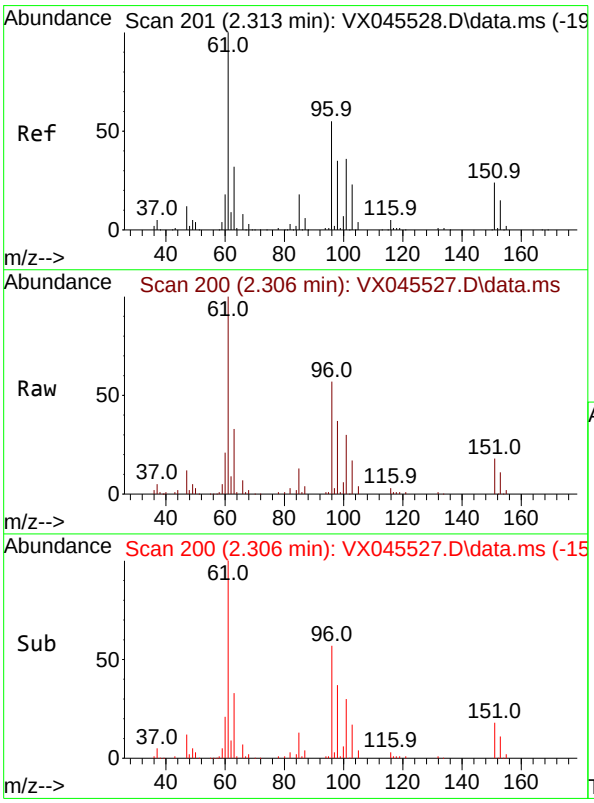
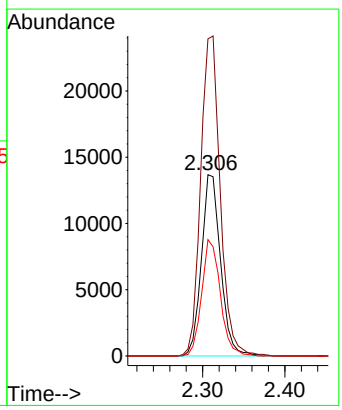
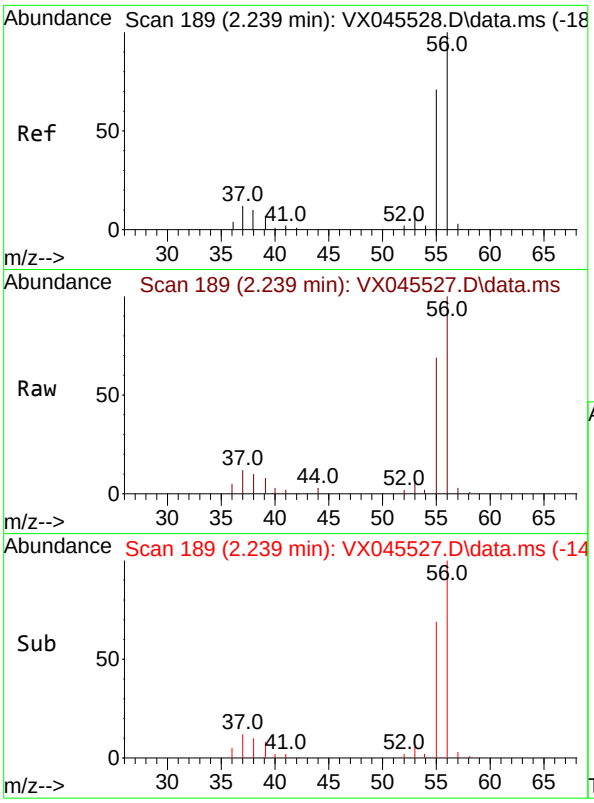


#12
1,1-Dichloroethene
Concen: 20.406 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.006 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion: 96 Resp: 22103

Ion	Ratio	Lower	Upper
96	100		
61	175.0	145.7	218.5
98	64.2	51.6	77.4

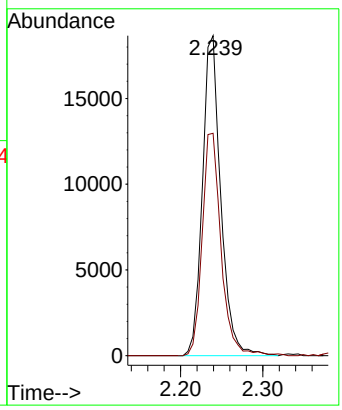




#13
Acrolein
Concen: 94.938 ug/l
RT: 2.239 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion: 56 Resp: 2899

Ion	Ratio	Lower	Upper
56	100		
55	71.2	56.2	84.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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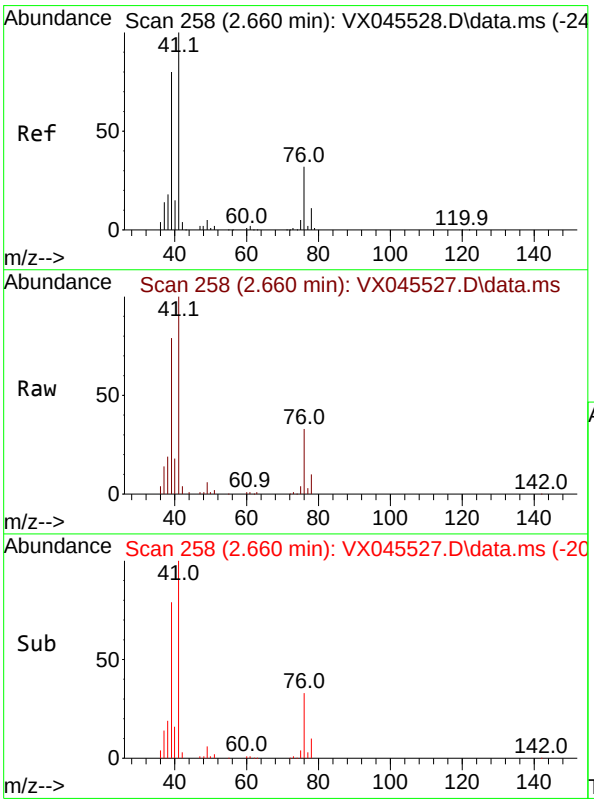
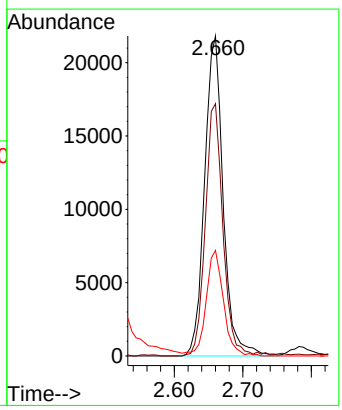
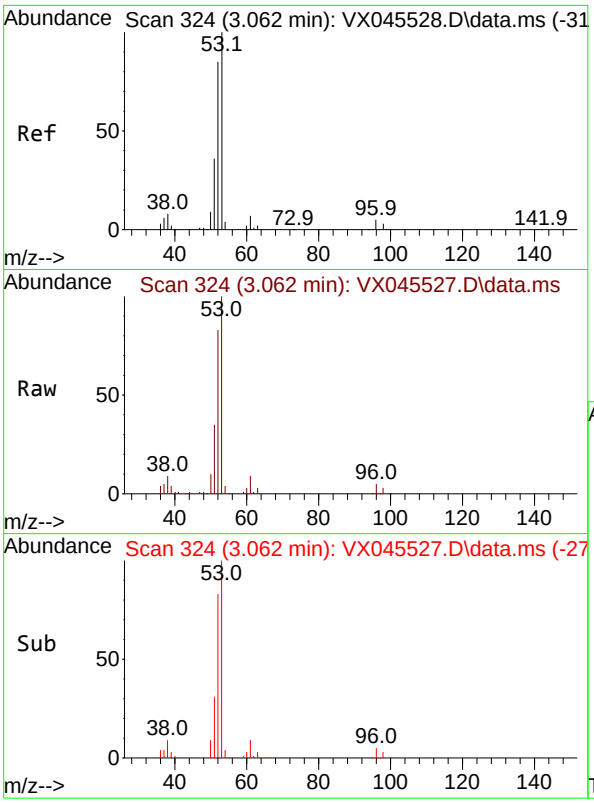


#14
Allyl chloride
Concen: 20.063 ug/l
RT: 2.660 min Scan# 258
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion: 41 Resp: 41233

Ion	Ratio	Lower	Upper
41	100		
39	74.2	60.2	90.2
76	31.0	24.6	36.8

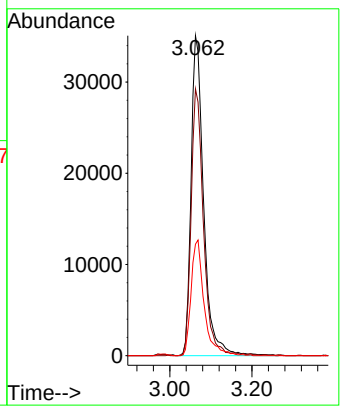




#15
Acrylonitrile
Concen: 106.412 ug/l
RT: 3.062 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion: 53 Resp: 7448

Ion	Ratio	Lower	Upper
53	100		
52	81.8	67.4	101.2
51	37.6	29.9	44.9



Instrument :
MSVOA_X
ClientSampleId :
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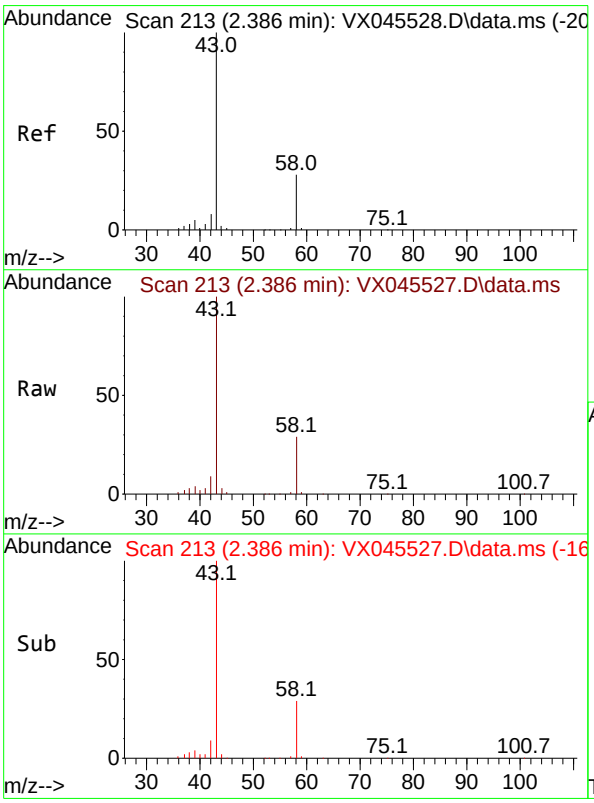
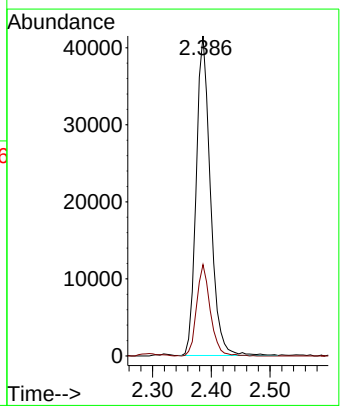
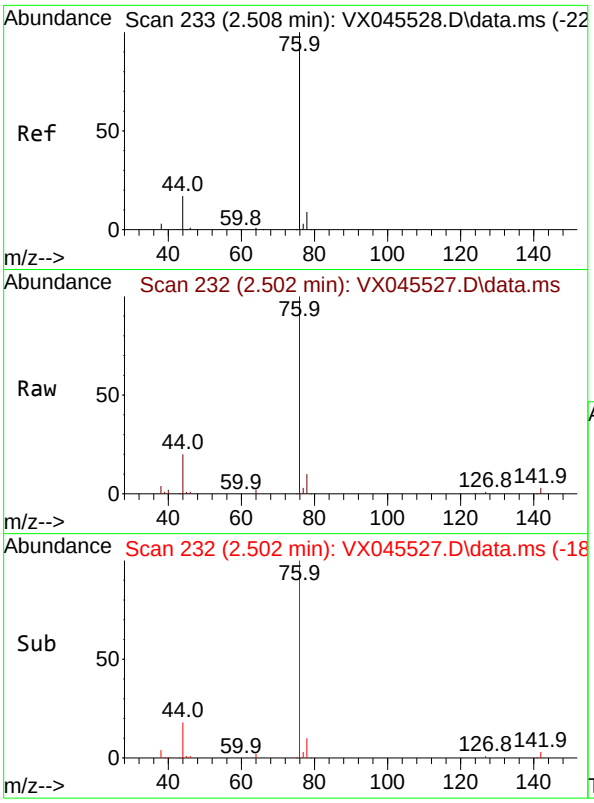


#16
Acetone
Concen: 103.000 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion: 43 Resp: 69788

Ion	Ratio	Lower	Upper
43	100		
58	28.6	22.3	33.5





#17
Carbon Disulfide
Concen: 19.352 ug/l
RT: 2.502 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion: 76 Resp: 5177

Ion	Ratio	Lower	Upper
76	100		
78	9.5	7.0	10.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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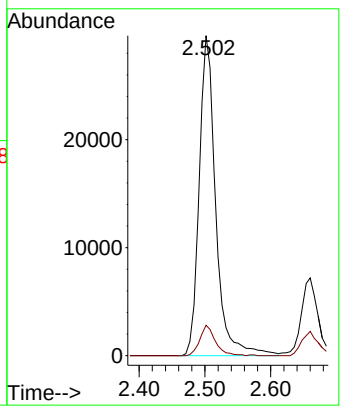
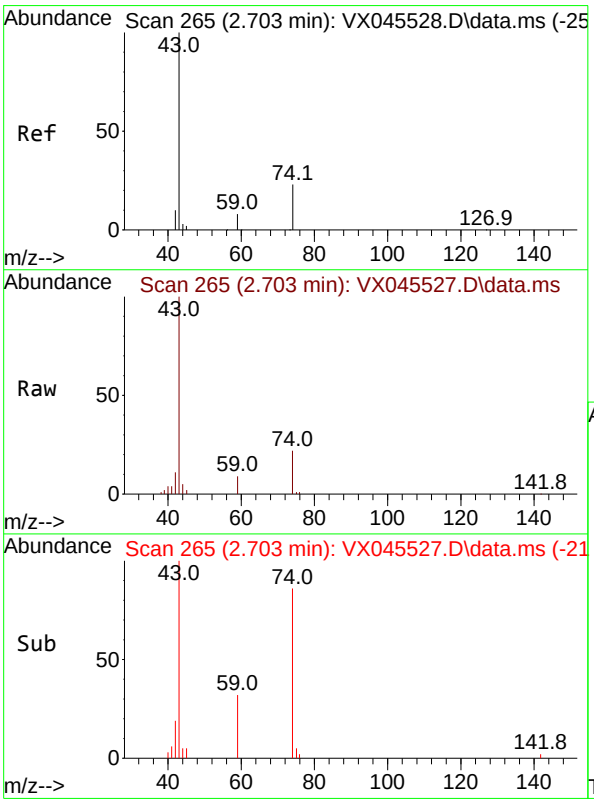
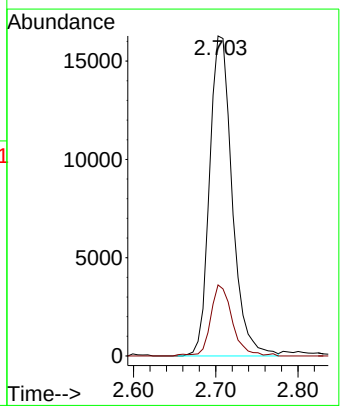


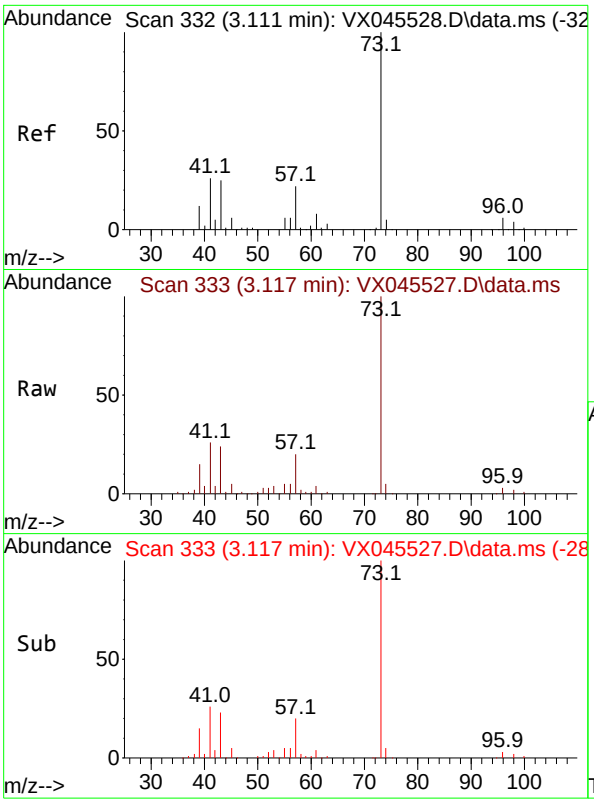


#18
Methyl Acetate
Concen: 19.994 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion: 43 Resp: 31190

Ion	Ratio	Lower	Upper
43	100		
74	21.3	17.5	26.3

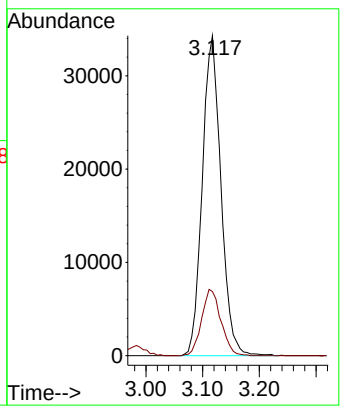




#19
Methyl tert-butyl Ether
Concen: 20.660 ug/l
RT: 3.117 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion: 73 Resp: 7828

Ion	Ratio	Lower	Upper
73	100		
57	20.0	17.6	26.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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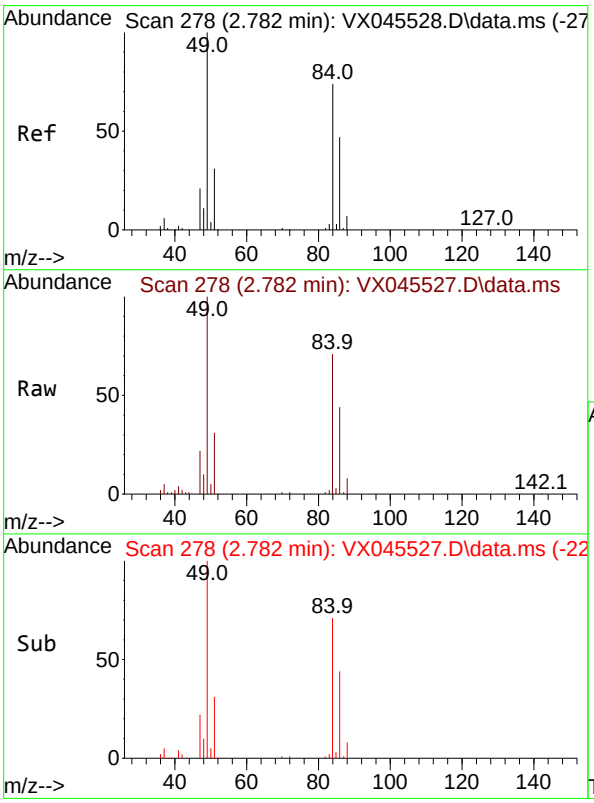
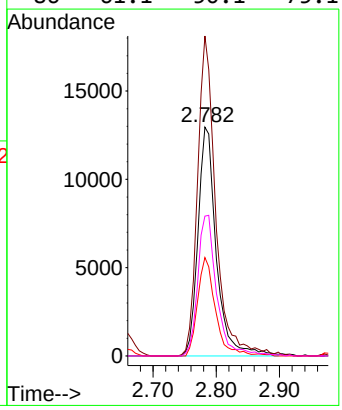
Supervised By :Mahesh Dadoda 04/02/2025

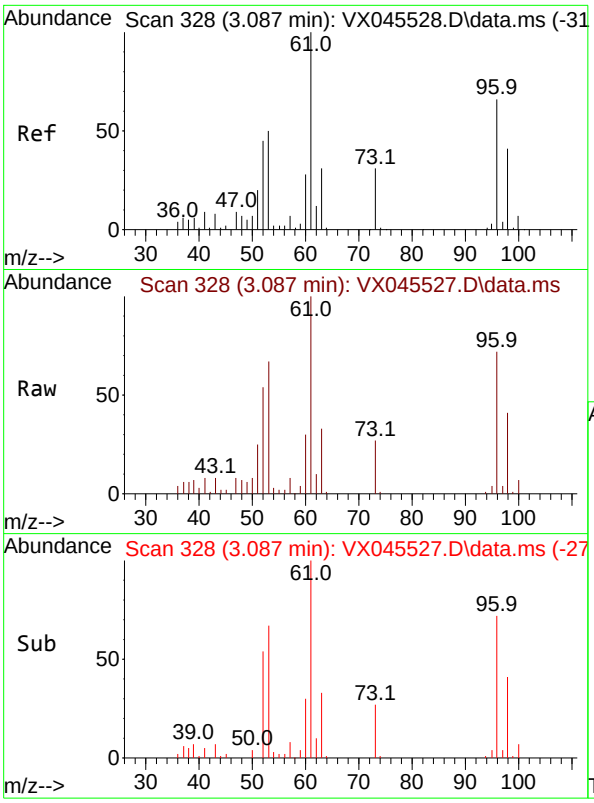


#20
Methylene Chloride
Concen: 20.664 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion: 84 Resp: 26212

Ion	Ratio	Lower	Upper
84	100		
49	139.9	107.5	161.3
51	43.0	33.0	49.6
86	61.1	50.1	75.1

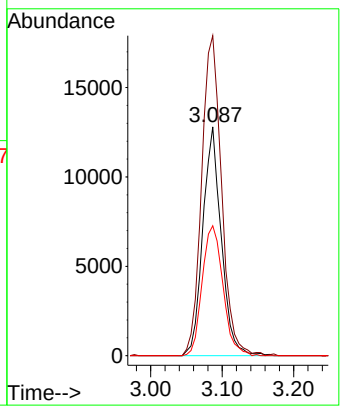




#21
trans-1,2-Dichloroethene
Concen: 20.755 ug/l
RT: 3.087 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion: 96 Resp: 2296

Ion	Ratio	Lower	Upper
96	100		
61	139.8	121.0	181.6
98	56.7	49.7	74.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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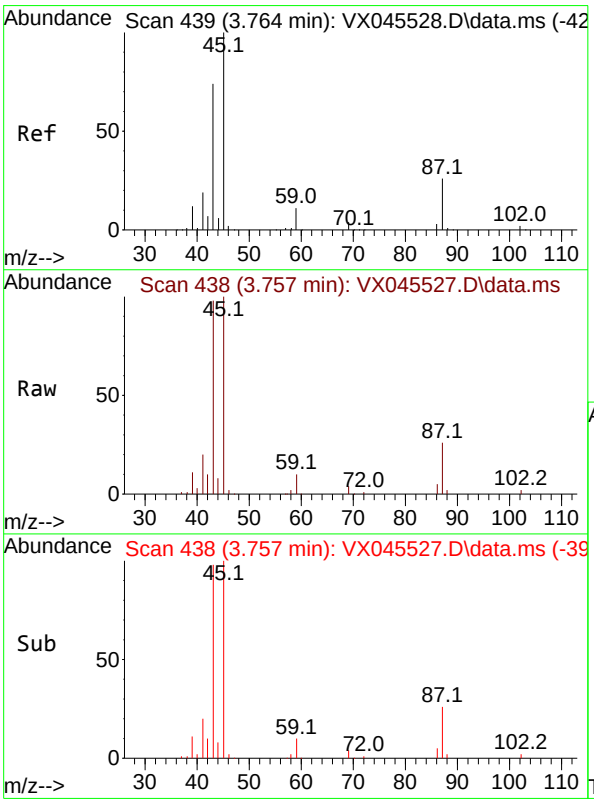
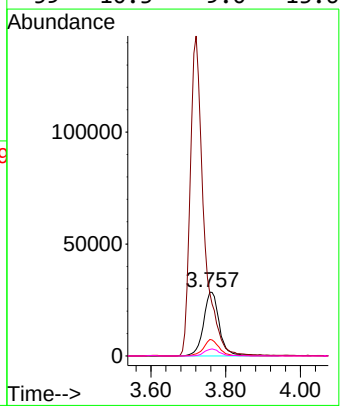
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

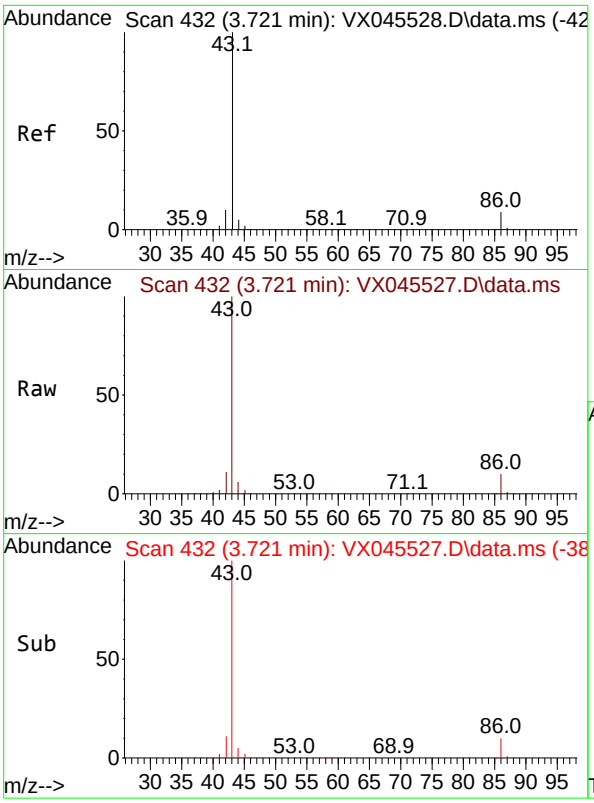


#22
Diisopropyl ether
Concen: 20.760 ug/l
RT: 3.757 min Scan# 438
Delta R.T. -0.006 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion: 45 Resp: 84046

Ion	Ratio	Lower	Upper
45	100		
43	98.0	59.3	88.9#
87	25.9	20.4	30.6
59	10.3	9.0	13.6





#23
Vinyl Acetate
Concen: 103.458 ug/l
RT: 3.721 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion: 43 Resp: 36188

Ion	Ratio	Lower	Upper
43	100		
86	9.6	7.5	11.3

Instrument :
MSVOA_X
ClientSampleId :
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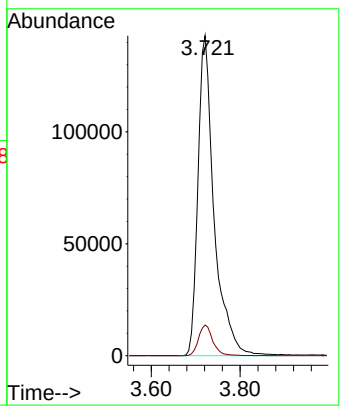
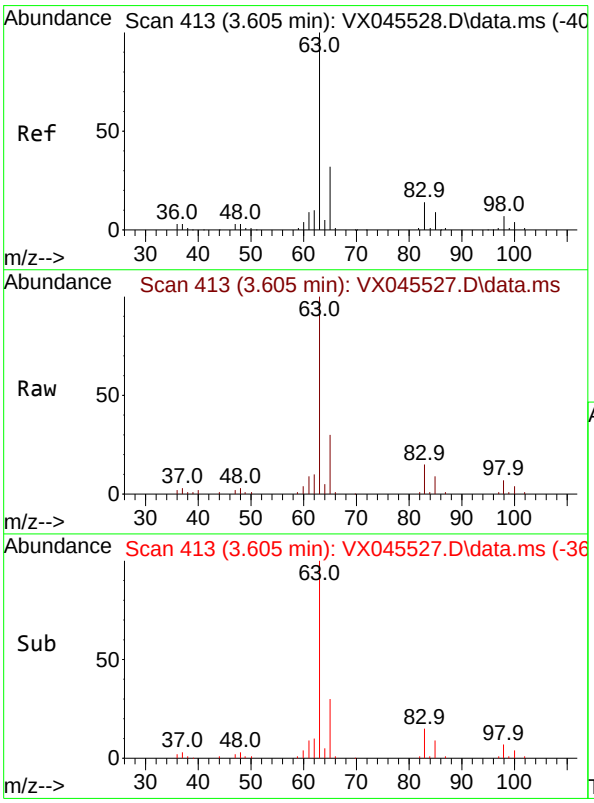
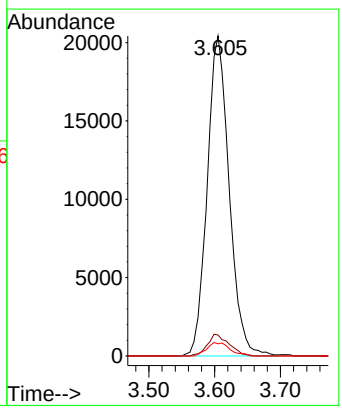


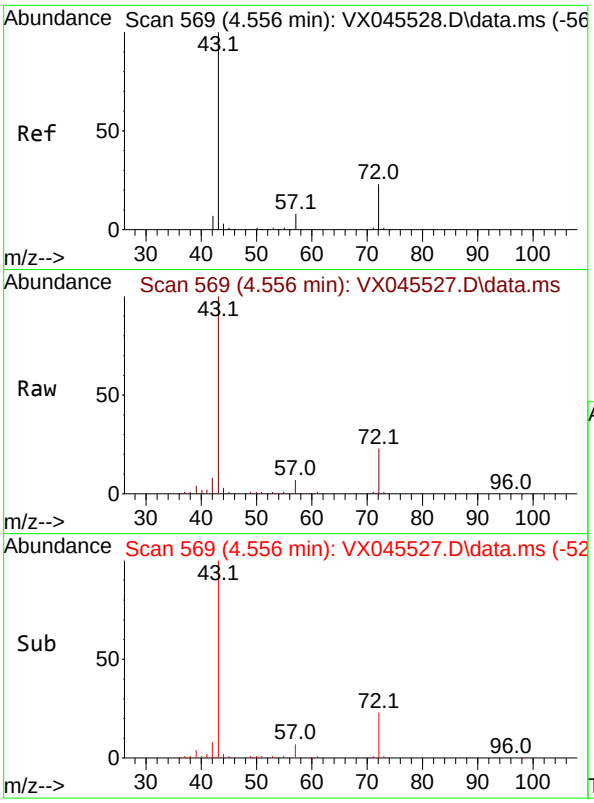


#24
1,1-Dichloroethane
Concen: 20.772 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion: 63 Resp: 47560

Ion	Ratio	Lower	Upper
63	100		
98	6.5	3.4	10.1
100	3.8	2.2	6.6

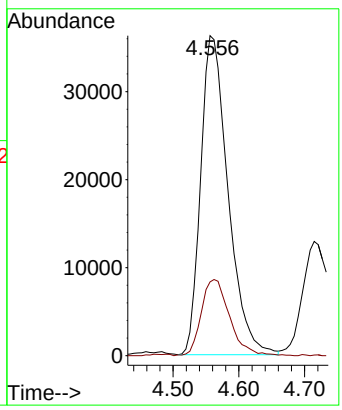




#25
2-Butanone
Concen: 105.931 ug/l
RT: 4.556 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion: 43 Resp: 10506

Ion	Ratio	Lower	Upper
43	100		
72	22.9	18.6	28.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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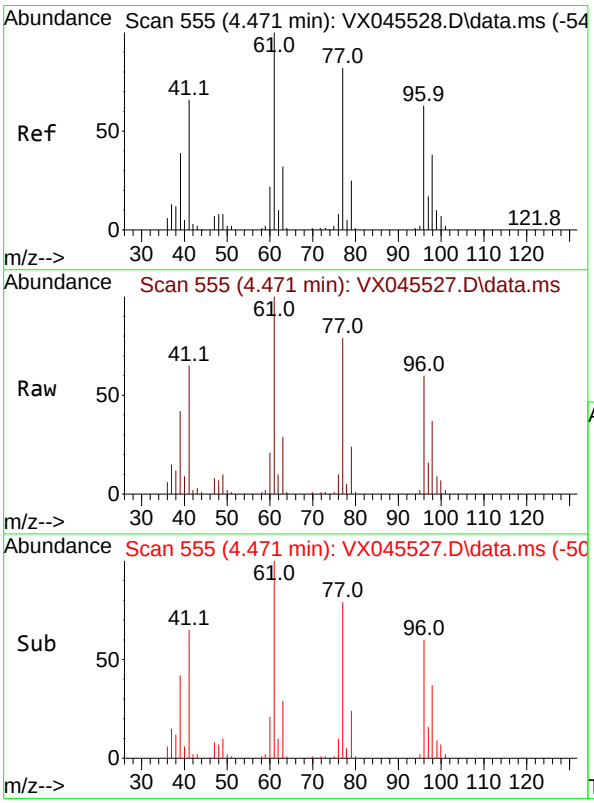
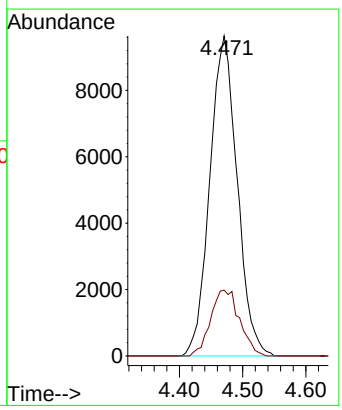
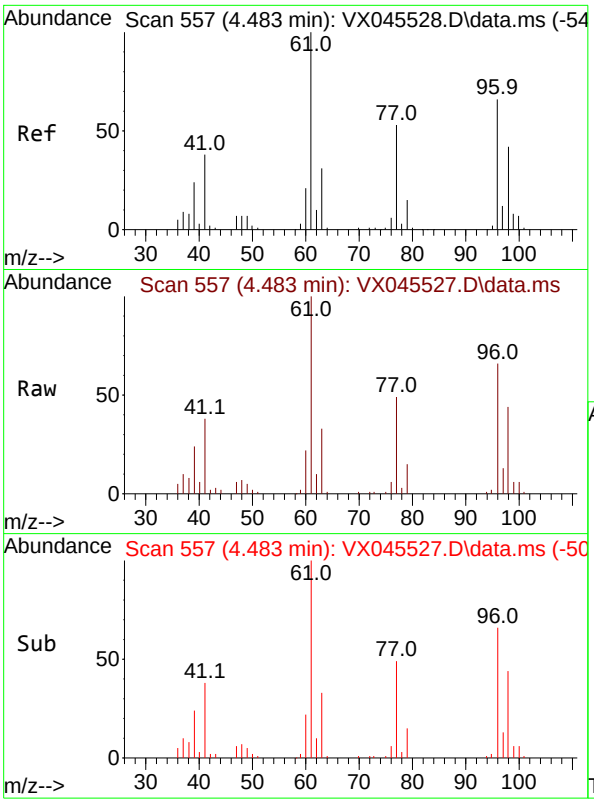


#26
2,2-Dichloropropane
Concen: 19.574 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion: 77 Resp: 28956

Ion	Ratio	Lower	Upper
77	100		
97	21.8	10.6	31.8

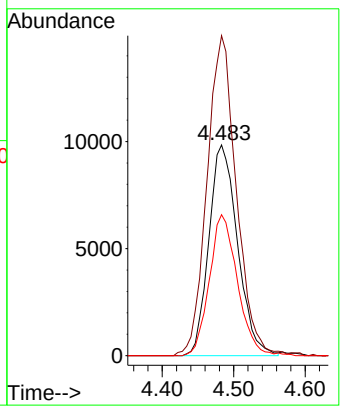




#27
cis-1,2-Dichloroethene
Concen: 20.342 ug/l
RT: 4.483 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion: 96 Resp: 2742

Ion	Ratio	Lower	Upper
96	100		
61	155.2	0.0	313.2
98	65.5	0.0	126.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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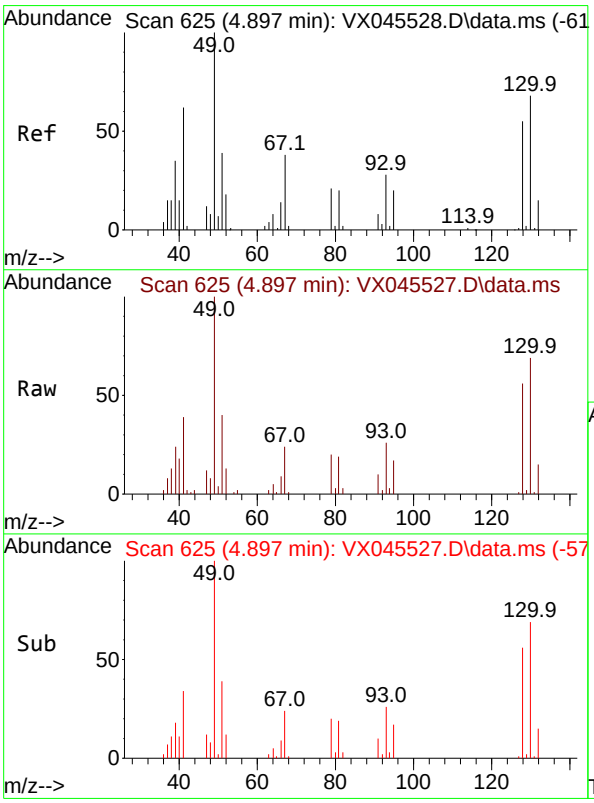
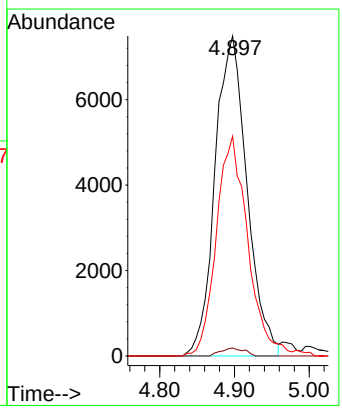
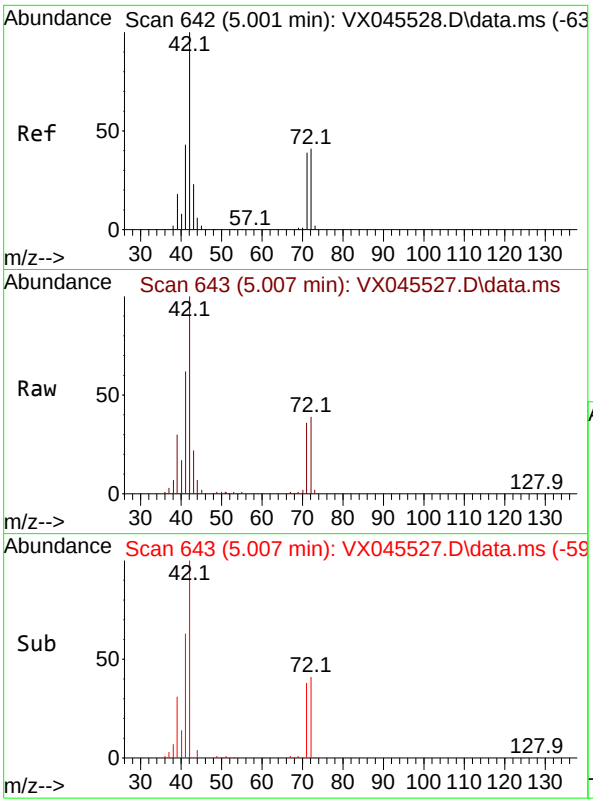


#28
Bromochloromethane
Concen: 20.141 ug/l
RT: 4.897 min Scan# 625
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion: 49 Resp: 22285

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	3.8
130	68.0	54.6	81.8

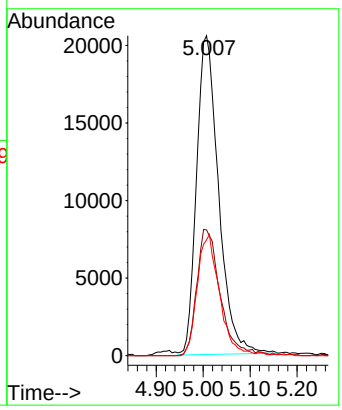




#29
Tetrahydrofuran
Concen: 104.187 ug/l
RT: 5.007 min Scan# 64
Delta R.T. 0.006 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion: 42 Resp: 6699

Ion	Ratio	Lower	Upper
42	100		
72	42.1	33.4	50.0
71	38.2	31.4	47.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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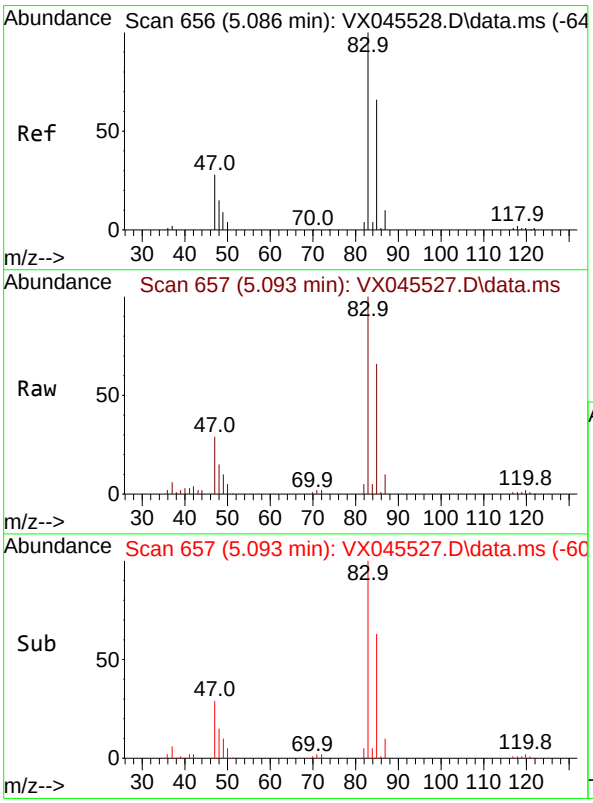
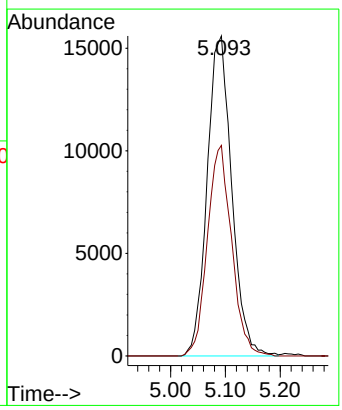
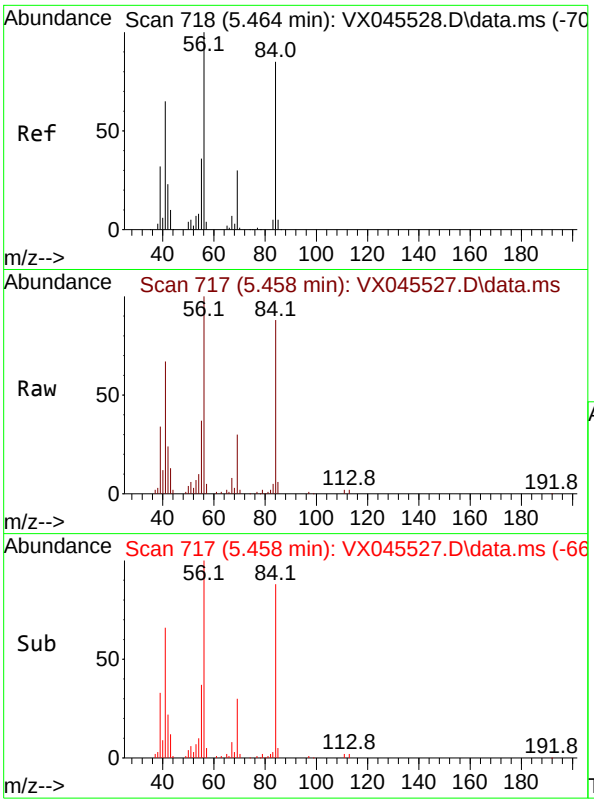


#30
Chloroform
Concen: 20.646 ug/l
RT: 5.093 min Scan# 657
Delta R.T. 0.006 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion: 83 Resp: 48639

Ion	Ratio	Lower	Upper
83	100		
85	65.8	52.8	79.2

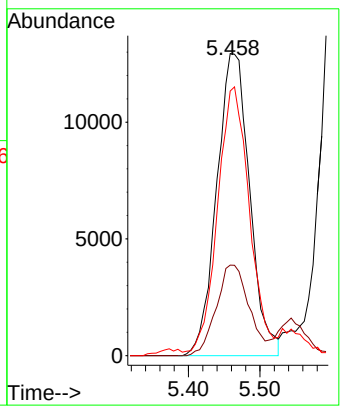




#31
Cyclohexane
Concen: 20.478 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion: 56 Resp: 4145

Ion	Ratio	Lower	Upper
56	100		
69	30.0	23.6	35.4
84	85.5	67.7	101.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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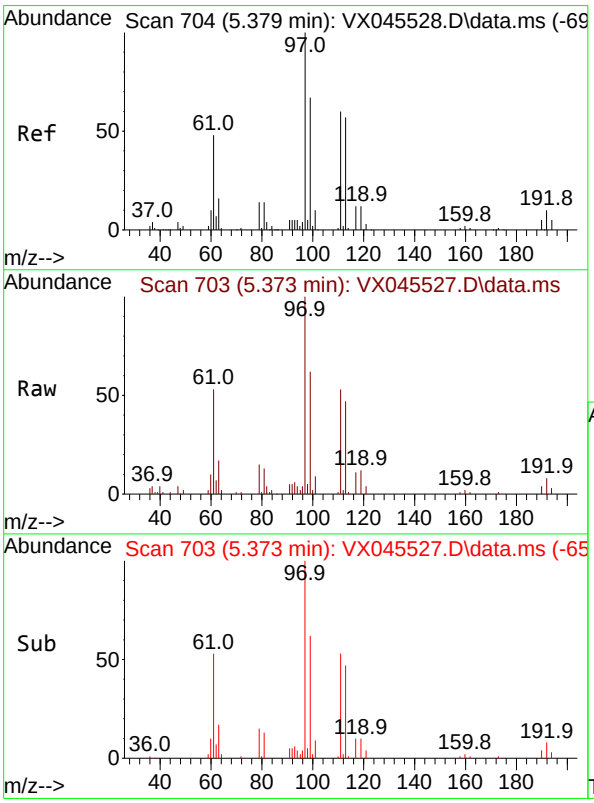
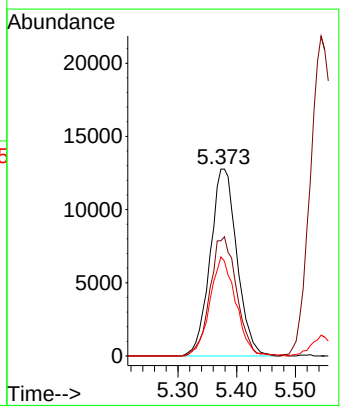
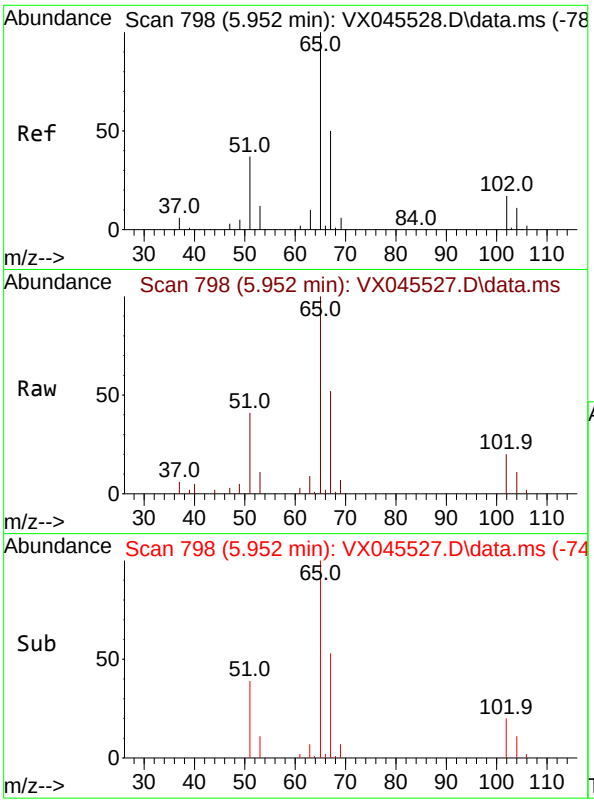


#32
1,1,1-Trichloroethane
Concen: 20.270 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.006 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion: 97 Resp: 40407

Ion	Ratio	Lower	Upper
97	100		
99	63.3	51.7	77.5
61	51.3	41.0	61.4

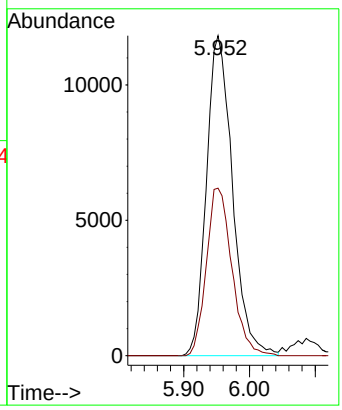




#33
1,2-Dichloroethane-d4
Concen: 19.697 ug/l
RT: 5.952 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion: 65 Resp: 3250

Ion	Ratio	Lower	Upper
65	100		
67	51.5	0.0	99.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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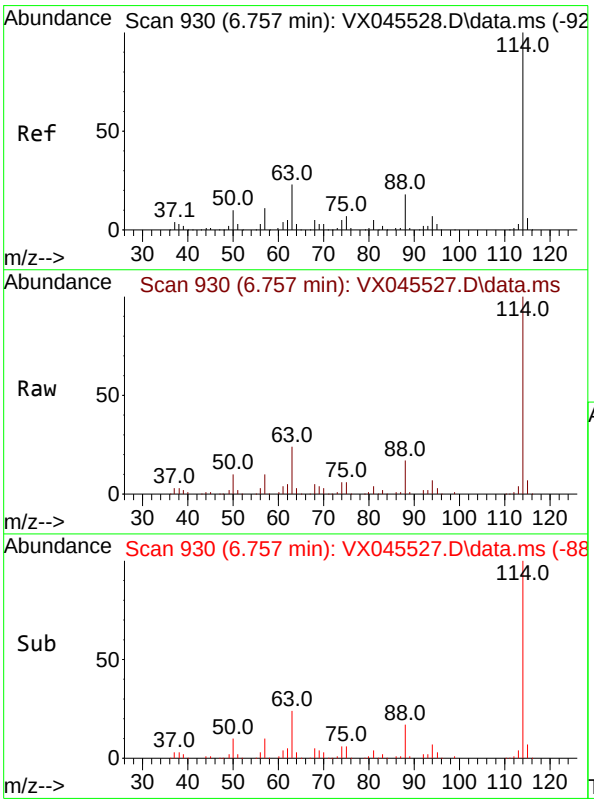
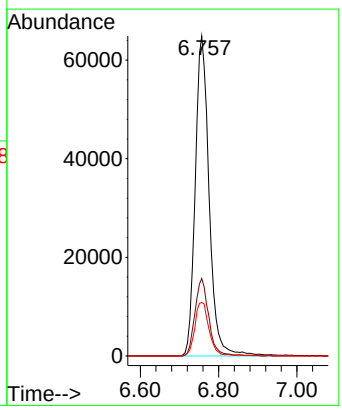
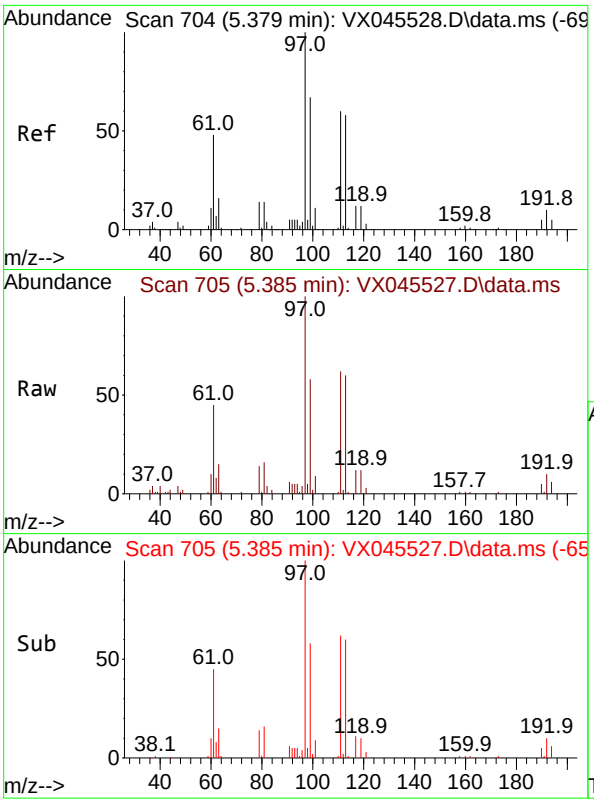


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion:114 Resp: 160754

Ion	Ratio	Lower	Upper
114	100		
63	24.2	0.0	46.8
88	16.7	0.0	35.4

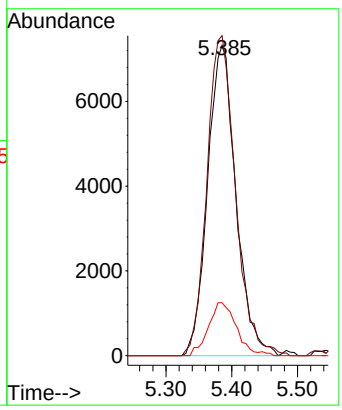




#35
Dibromofluoromethane
Concen: 19.256 ug/l
RT: 5.385 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion:113 Resp: 2196

Ion	Ratio	Lower	Upper
113	100		
111	103.8	81.8	122.6
192	17.0	13.8	20.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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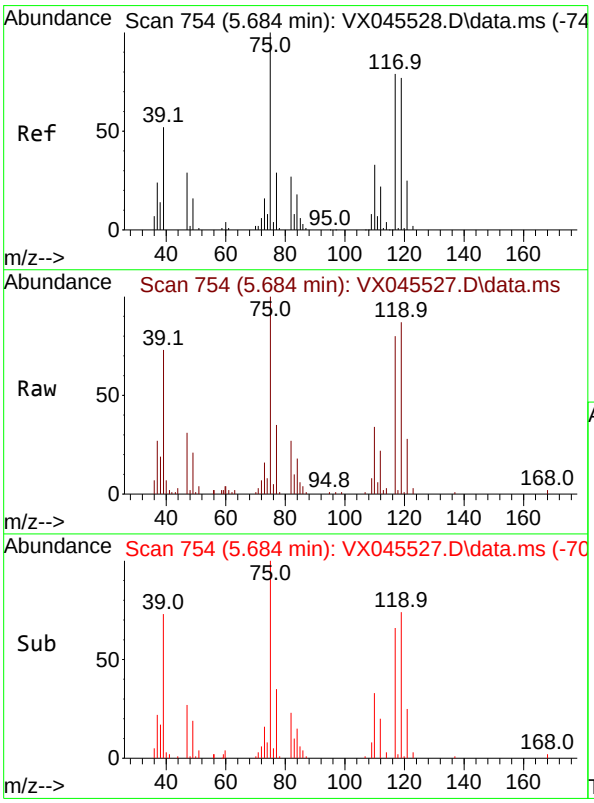
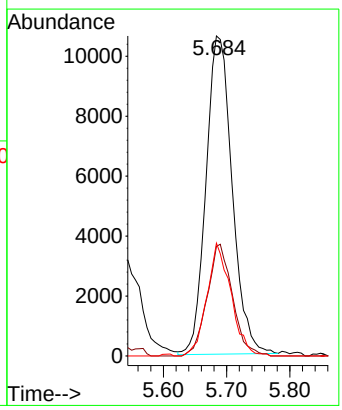
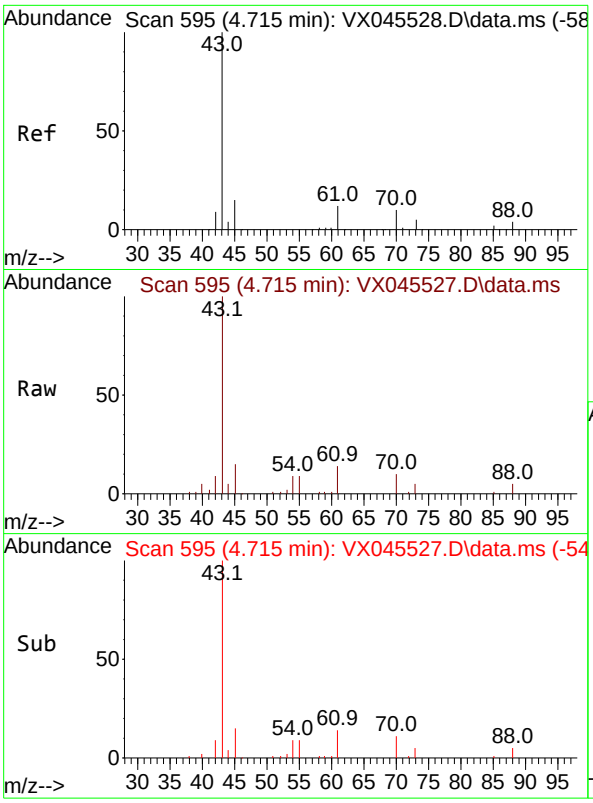


#36
1,1-Dichloropropene
Concen: 19.808 ug/l
RT: 5.684 min Scan# 754
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion: 75 Resp: 30504

Ion	Ratio	Lower	Upper
75	100		
110	34.0	16.9	50.6
77	32.7	25.0	37.4





#37
Ethyl Acetate
Concen: 20.180 ug/l
RT: 4.715 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion: 43 Resp: 3916

Ion	Ratio	Lower	Upper
43	100		
61	13.1	9.9	14.9
70	10.1	7.5	11.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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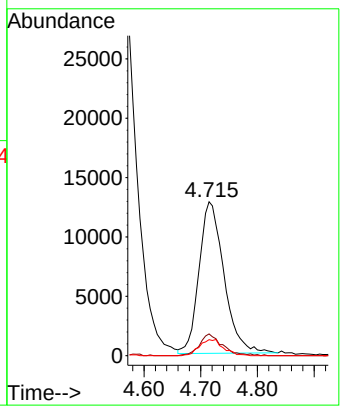
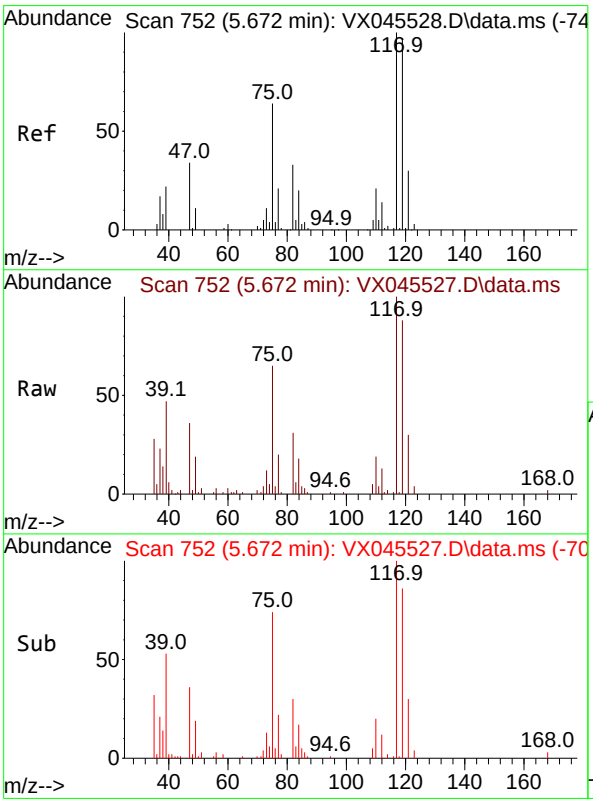
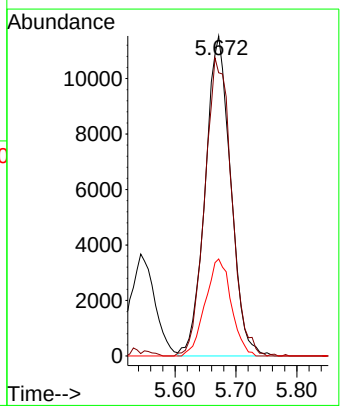


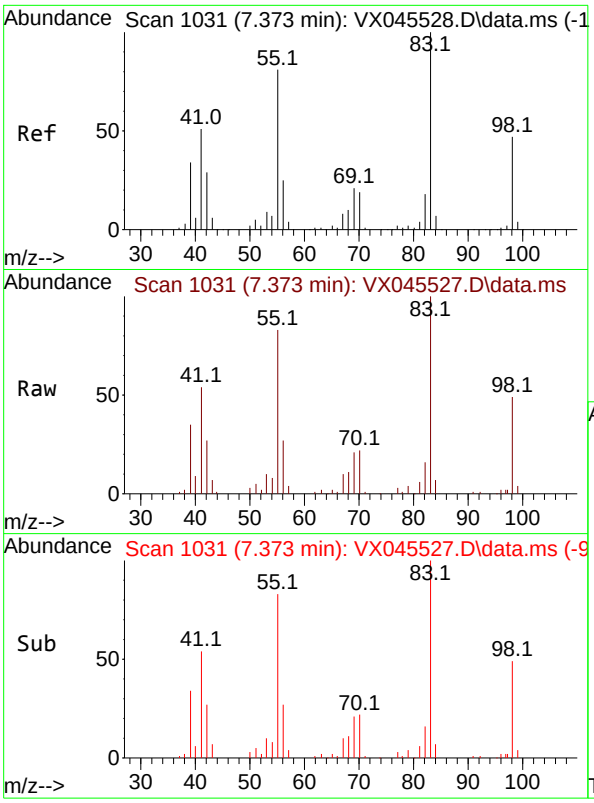


#38
Carbon Tetrachloride
Concen: 20.148 ug/l
RT: 5.672 min Scan# 752
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion:117 Resp: 33533

Ion	Ratio	Lower	Upper
117	100		
119	88.5	76.9	115.3
121	30.3	24.2	36.2

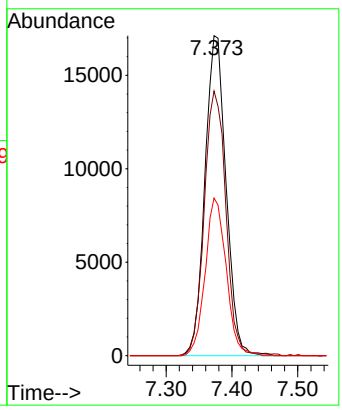




#39
Methylcyclohexane
Concen: 20.291 ug/l
RT: 7.373 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion: 83 Resp: 3830

Ion	Ratio	Lower	Upper
83	100		
55	82.7	64.9	97.3
98	49.2	37.4	56.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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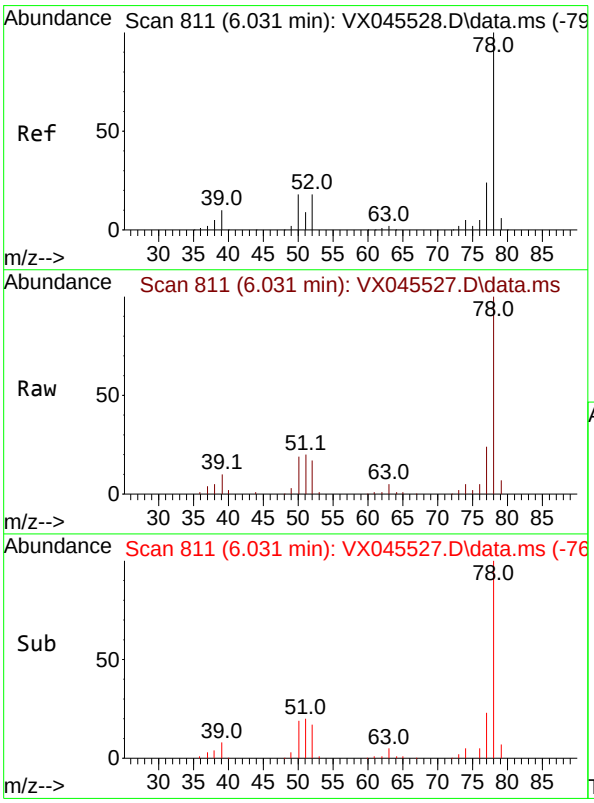
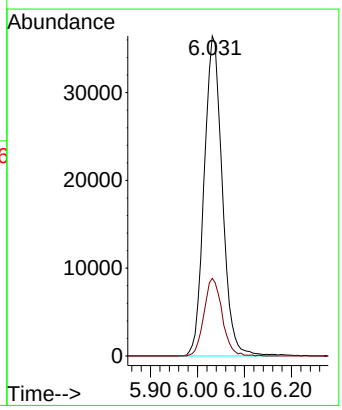
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

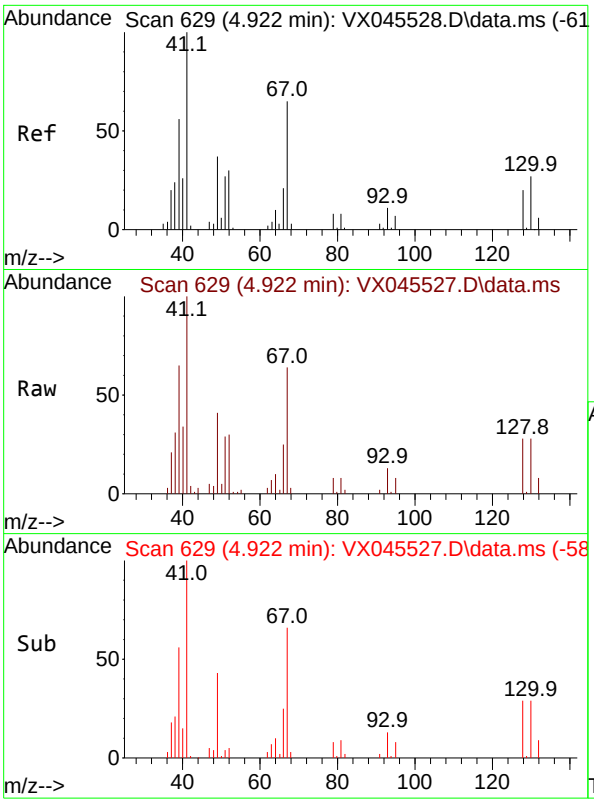


#40
Benzene
Concen: 20.766 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion: 78 Resp: 97667

Ion	Ratio	Lower	Upper
78	100		
77	24.3	19.0	28.6

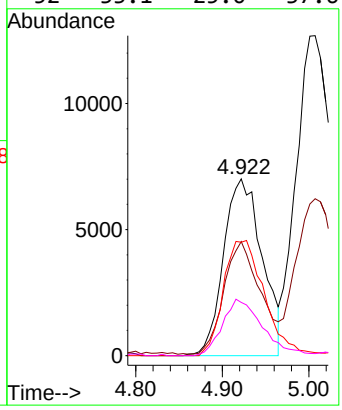




#41
Methacrylonitrile
Concen: 21.046 ug/l
RT: 4.922 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion: 41 Resp: 2174

Ion	Ratio	Lower	Upper
41	100		
39	60.3	47.0	70.6
67	69.9	53.2	79.8
52	33.1	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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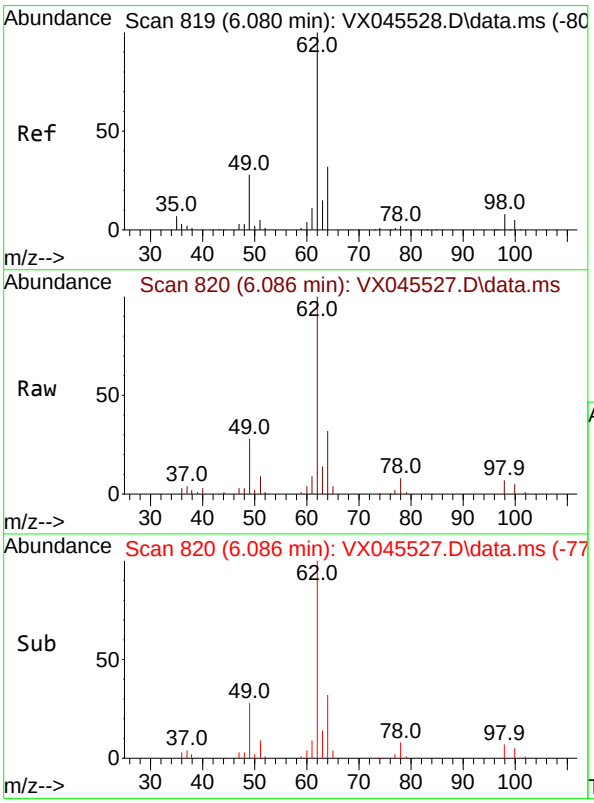
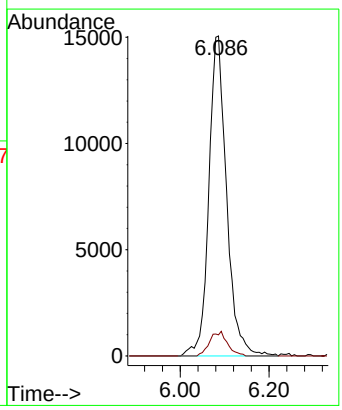
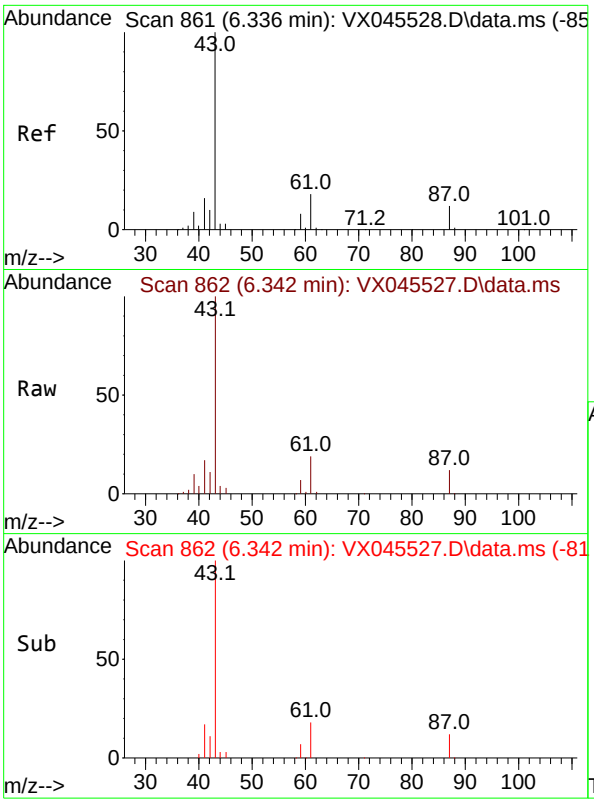


#42
1,2-Dichloroethane
Concen: 21.484 ug/l
RT: 6.086 min Scan# 820
Delta R.T. 0.006 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion: 62 Resp: 41733

Ion	Ratio	Lower	Upper
62	100		
98	7.7	0.0	15.2





#43
Isopropyl Acetate
Concen: 20.814 ug/l
RT: 6.342 min Scan# 8
Delta R.T. 0.006 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion: 43 Resp: 6122

Ion	Ratio	Lower	Upper
43	100		
61	17.3	14.1	21.1
87	11.2	9.2	13.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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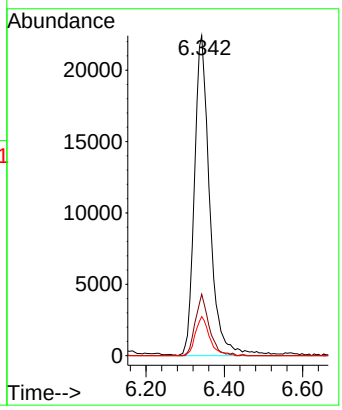
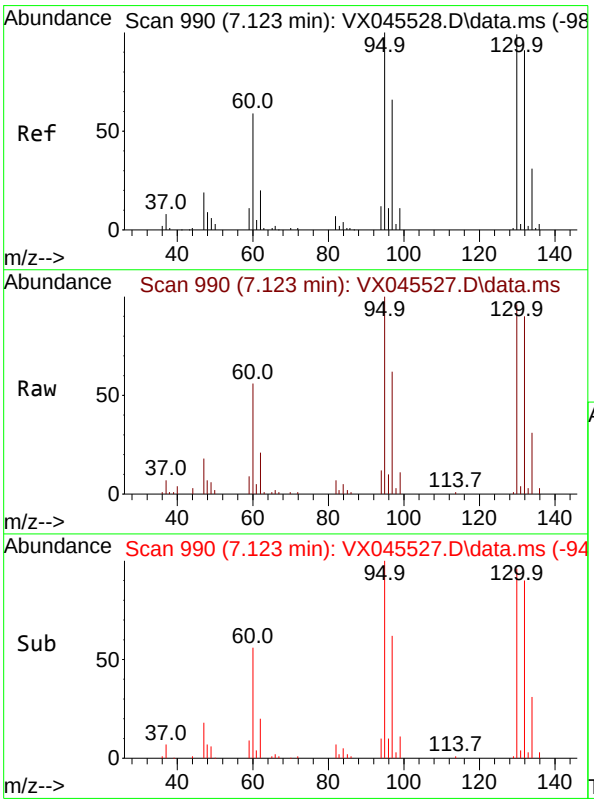
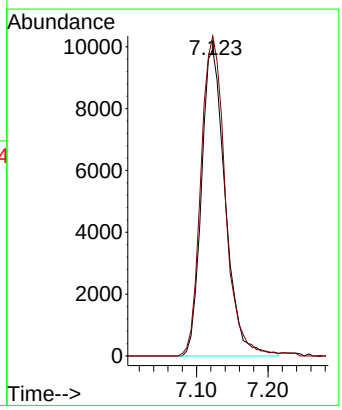


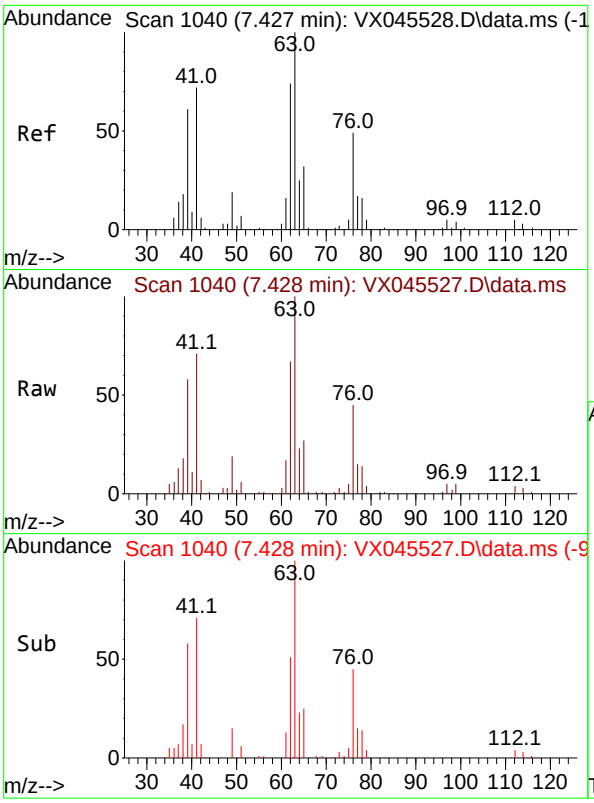


#44
Trichloroethene
Concen: 20.501 ug/l
RT: 7.123 min Scan# 990
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion:130 Resp: 22918

Ion	Ratio	Lower	Upper
130	100		
95	104.4	0.0	202.0

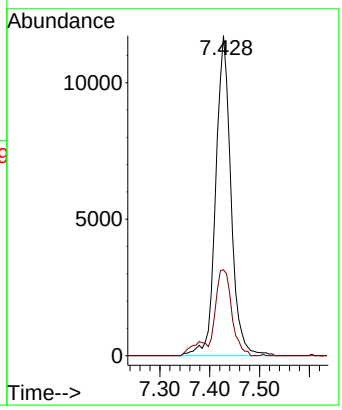




#45
1,2-Dichloropropane
Concen: 21.241 ug/l
RT: 7.428 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion: 63 Resp: 2492

Ion	Ratio	Lower	Upper
63	100		
65	26.9	25.8	38.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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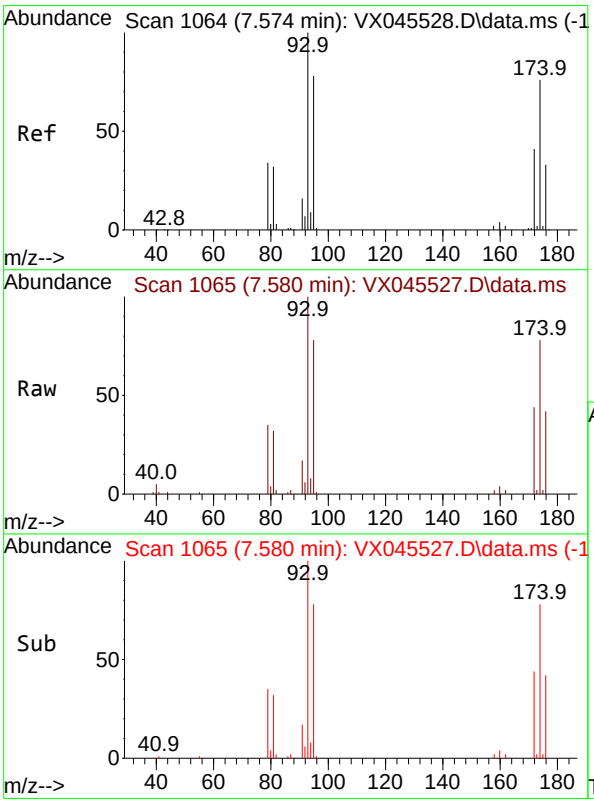
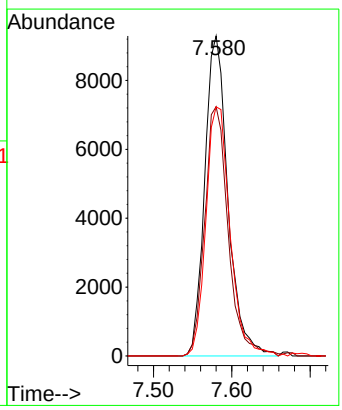
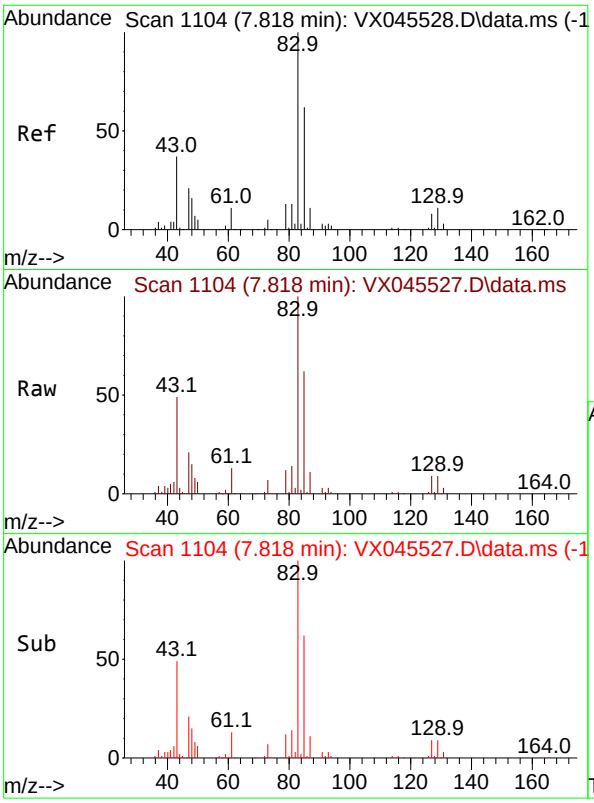


#46
Dibromomethane
Concen: 21.207 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. 0.006 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion: 93 Resp: 19104

Ion	Ratio	Lower	Upper
93	100		
95	79.2	64.8	97.2
174	81.1	65.4	98.0

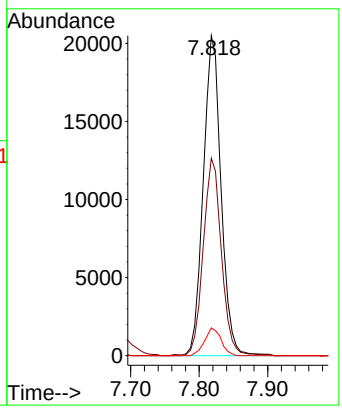




#47
Bromodichloromethane
Concen: 20.587 ug/l
RT: 7.818 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion: 83 Resp: 3703

Ion	Ratio	Lower	Upper
83	100		
85	61.7	49.7	74.5
127	8.7	6.1	9.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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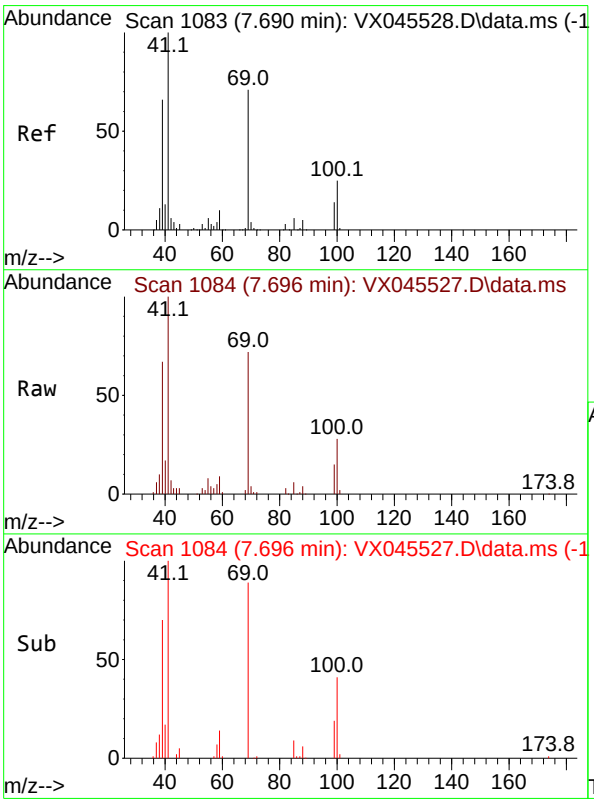
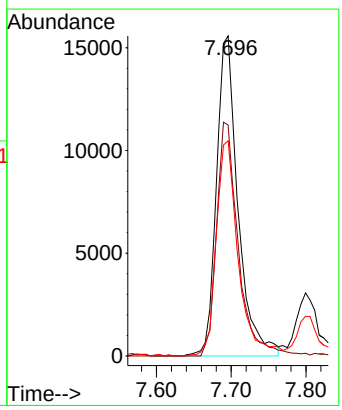
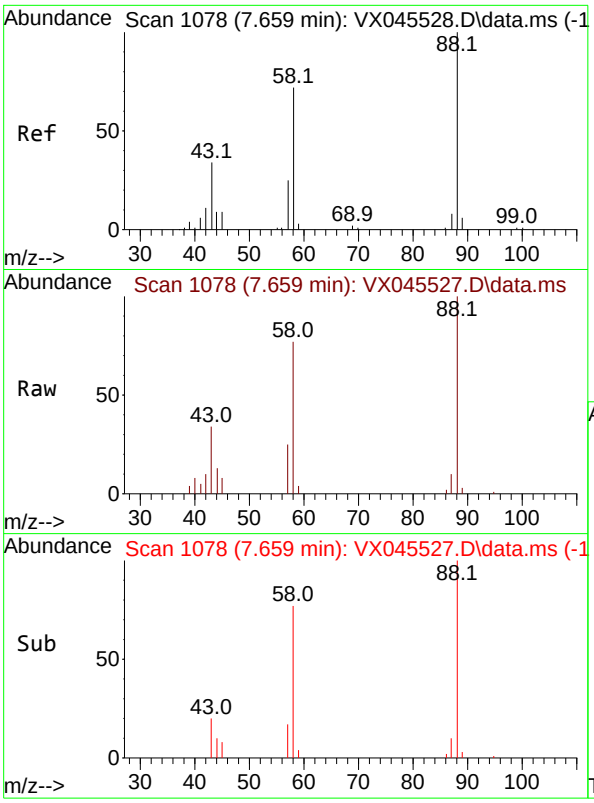


#48
Methyl methacrylate
Concen: 20.575 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. 0.006 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion: 41 Resp: 31247

Ion	Ratio	Lower	Upper
41	100		
69	73.4	58.2	87.2
39	68.7	53.6	80.4

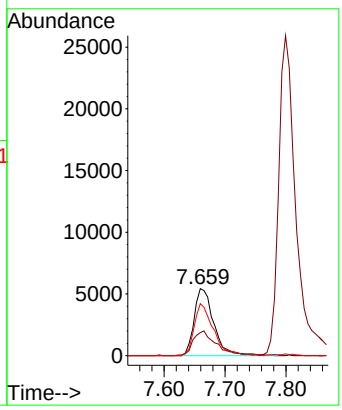




#49
1,4-Dioxane
Concen: 440.515 ug/l
RT: 7.659 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion: 88 Resp: 1210

Ion	Ratio	Lower	Upper
88	100		
43	43.5	32.2	48.4
58	76.4	58.6	88.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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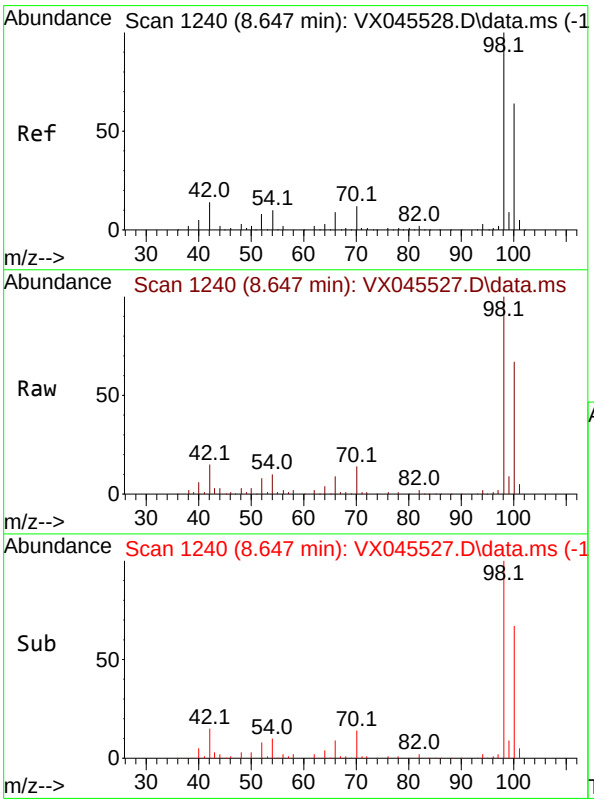
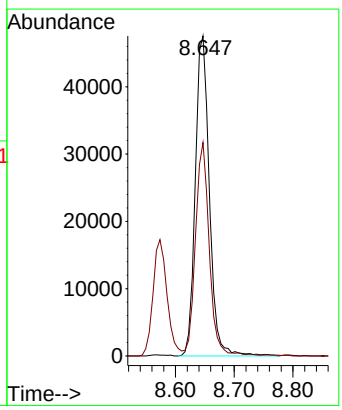
Supervised By :Mahesh Dadoda 04/02/2025

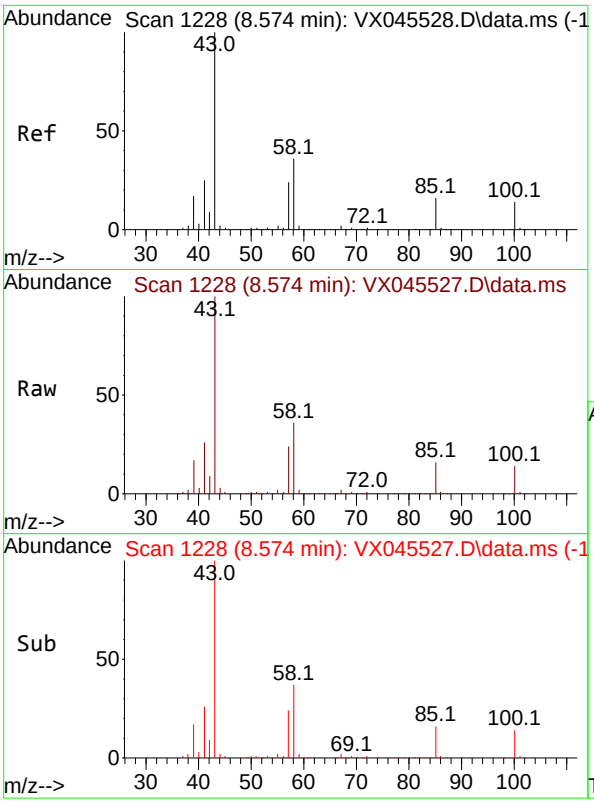


#50
Toluene-d8
Concen: 19.921 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion: 98 Resp: 79303

Ion	Ratio	Lower	Upper
98	100		
100	64.7	52.2	78.4

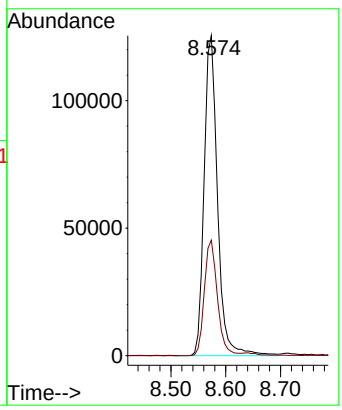




#51
4-Methyl-2-Pentanone
Concen: 109.055 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion: 43 Resp: 21264

Ion	Ratio	Lower	Upper
43	100		
58	35.2	28.5	42.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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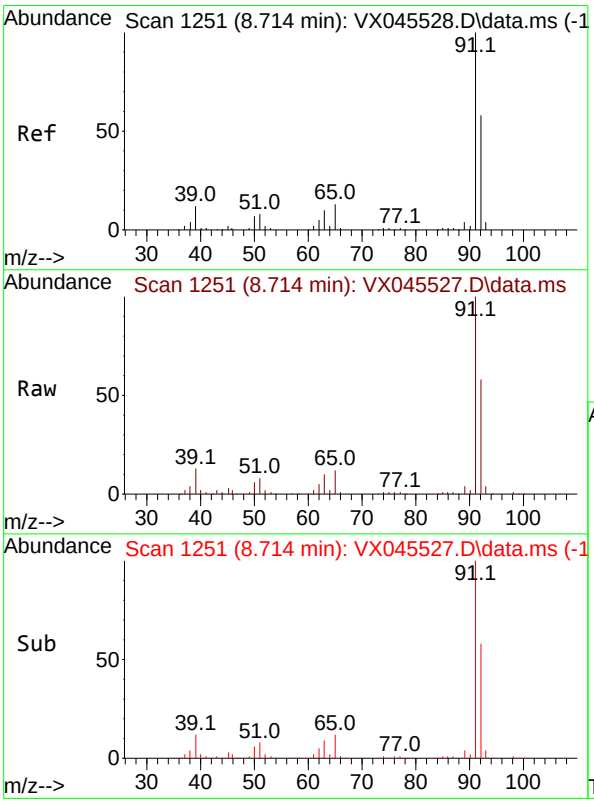
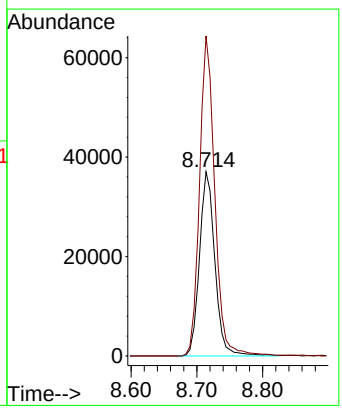
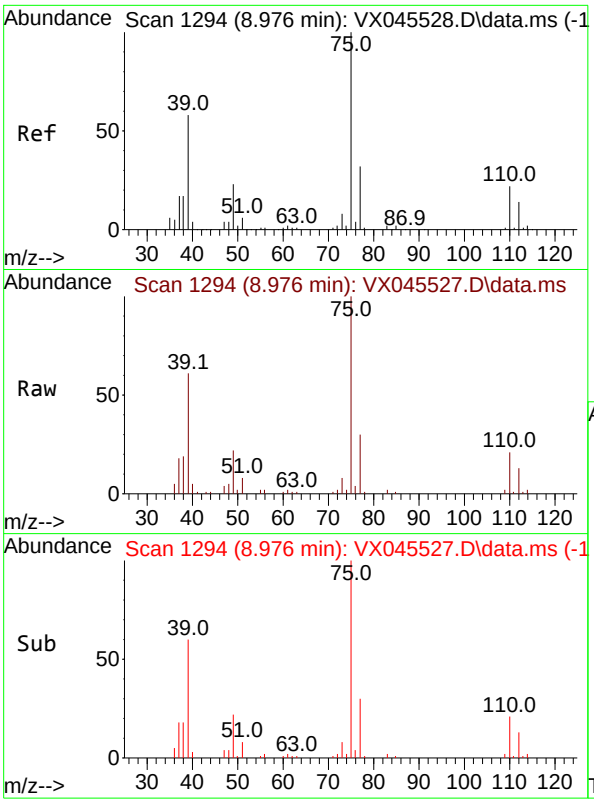


#52
Toluene
Concen: 21.208 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion: 92 Resp: 60357

Ion	Ratio	Lower	Upper
92	100		
91	171.6	138.7	208.1

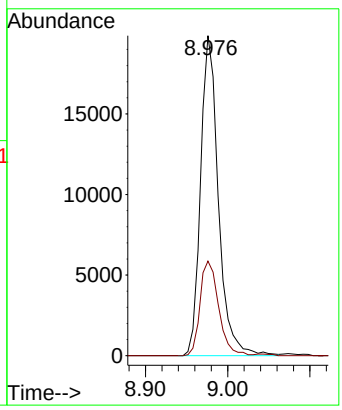




#53
t-1,3-Dichloropropene
Concen: 18.764 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion: 75 Resp: 2987

Ion	Ratio	Lower	Upper
75	100		
77	29.5	25.4	38.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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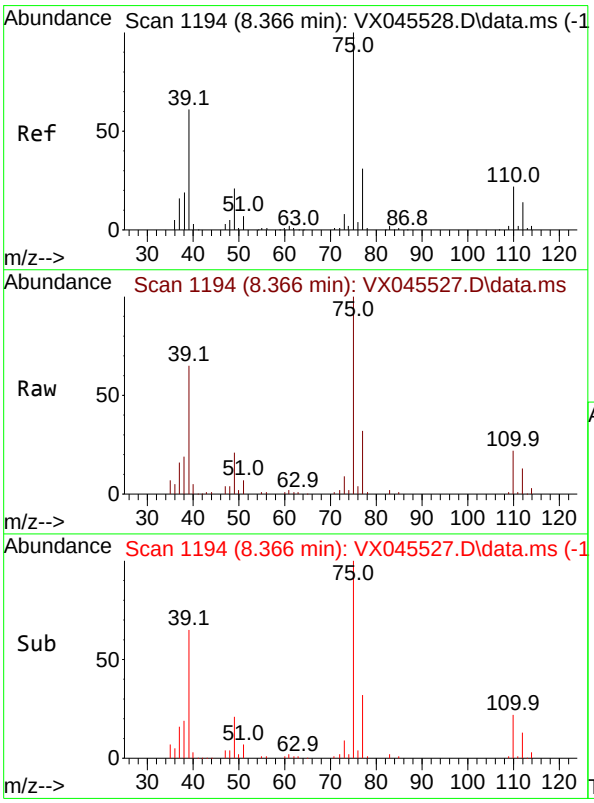
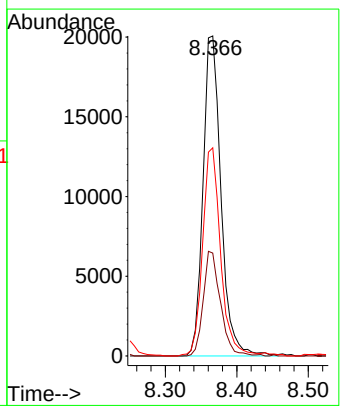
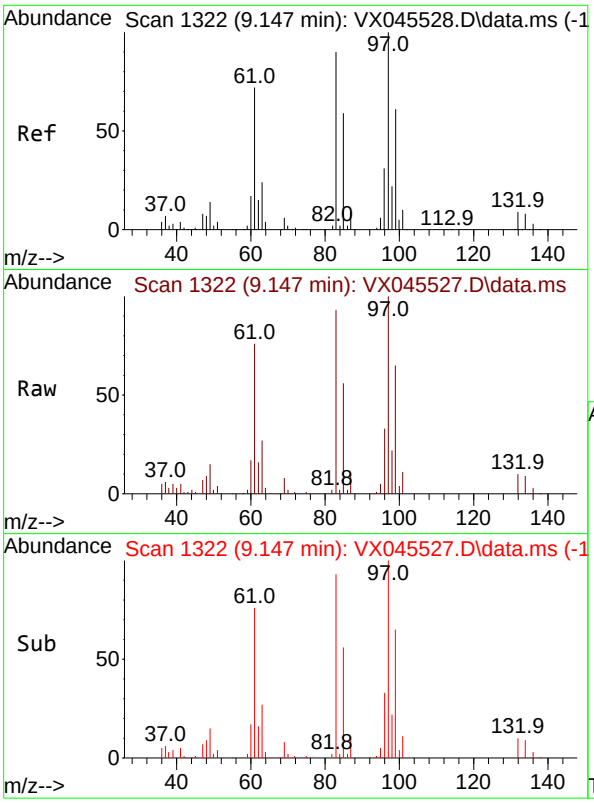


#54
cis-1,3-Dichloropropene
Concen: 20.762 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion: 75 Resp: 35099

Ion	Ratio	Lower	Upper
75	100		
77	32.1	24.6	36.8
39	65.0	48.4	72.6

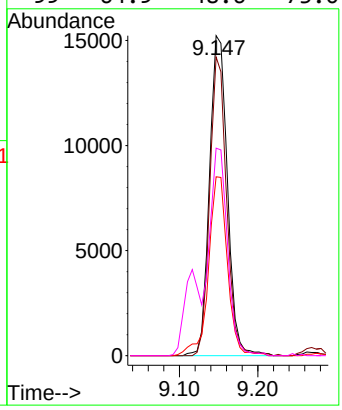




#55
1,1,2-Trichloroethane
Concen: 21.331 ug/l
RT: 9.147 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion: 97 Resp: 2419

Ion	Ratio	Lower	Upper
97	100		
83	93.4	71.8	107.8
85	55.9	47.0	70.6
99	64.9	48.6	73.0



Instrument :
MSVOA_X
ClientSampleId :
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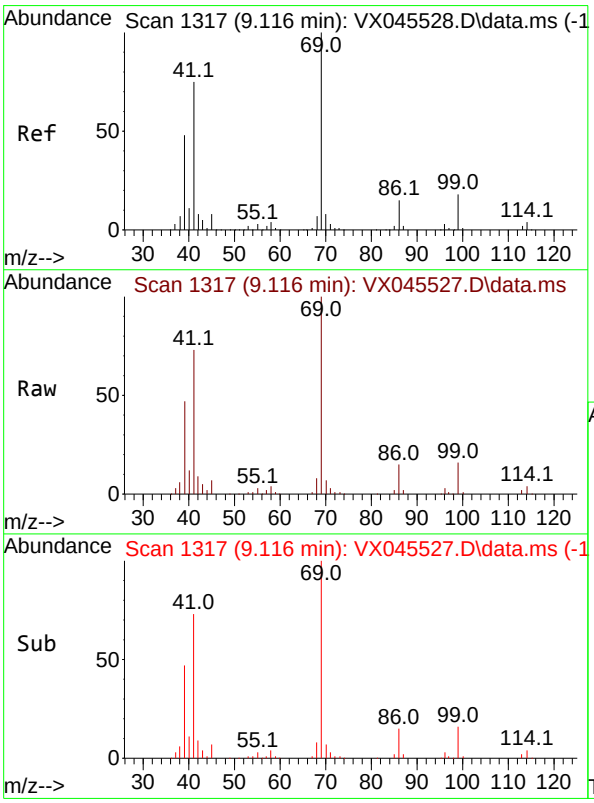
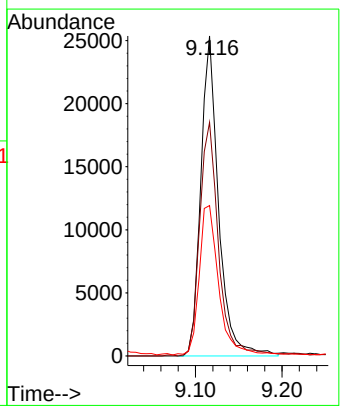
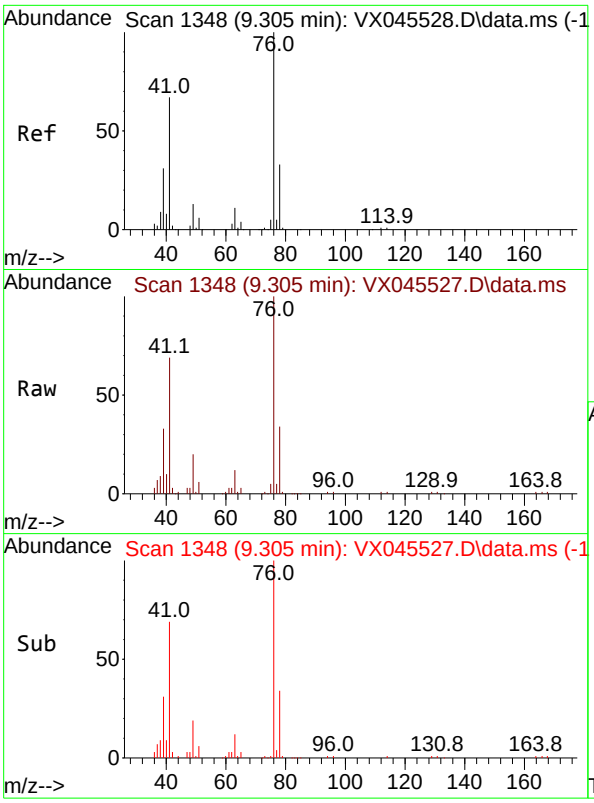


#56
Ethyl methacrylate
Concen: 20.600 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion: 69 Resp: 36155

Ion	Ratio	Lower	Upper
69	100		
41	77.4	61.3	91.9
39	51.5	40.2	60.2

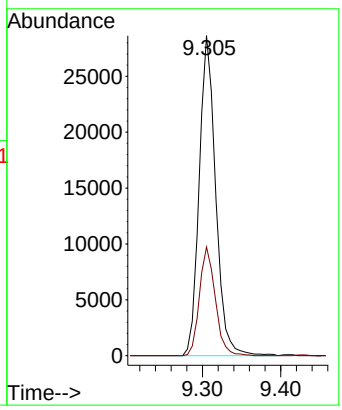




#57
1,3-Dichloropropane
Concen: 21.217 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion: 76 Resp: 4190

Ion	Ratio	Lower	Upper
76	100		
78	32.5	26.0	39.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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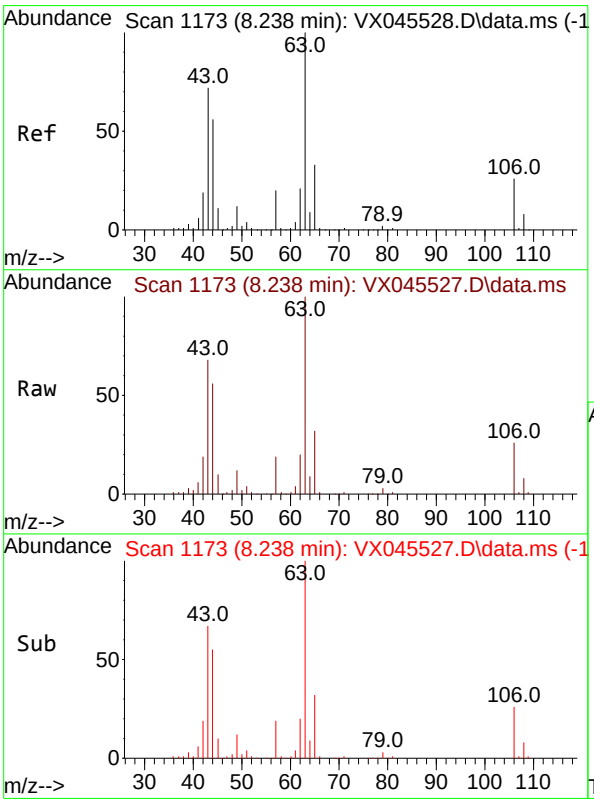
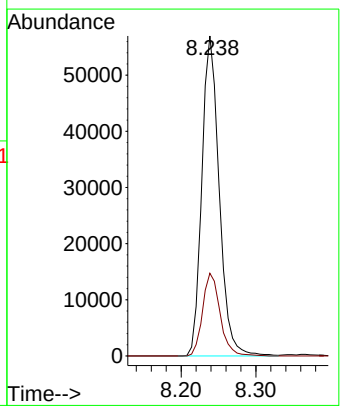
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

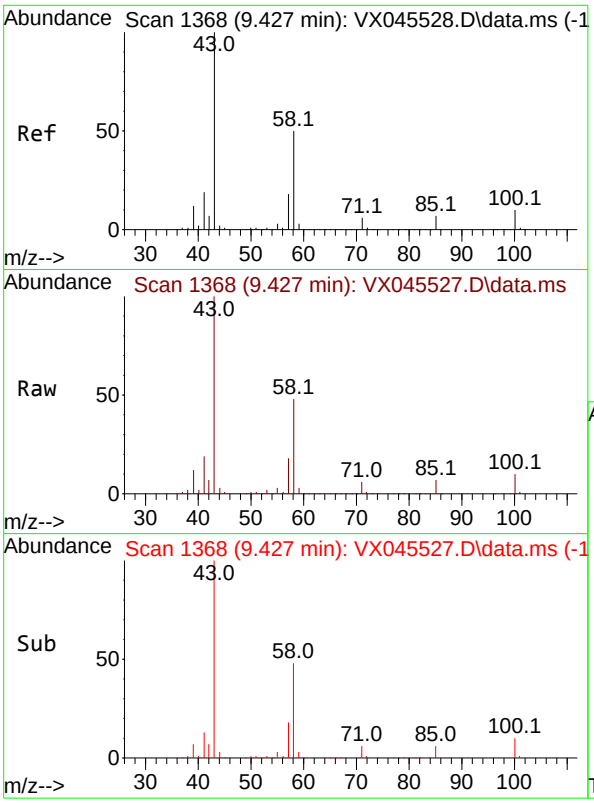


#58
2-Chloroethyl Vinyl ether
Concen: 103.534 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion: 63 Resp: 91923

Ion	Ratio	Lower	Upper
63	100		
106	26.1	21.0	31.6

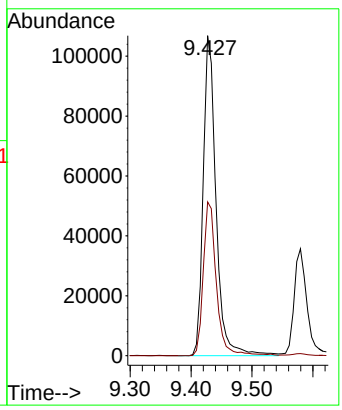




#59
2-Hexanone
Concen: 108.730 ug/l
RT: 9.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion: 43 Resp: 15699

Ion	Ratio	Lower	Upper
43	100		
58	49.1	24.9	74.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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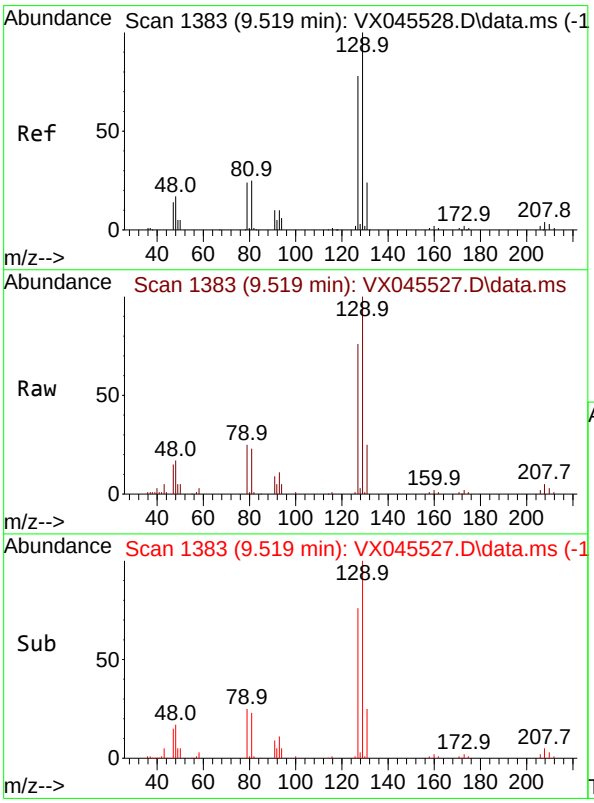
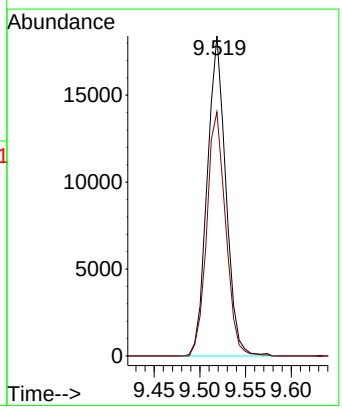
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

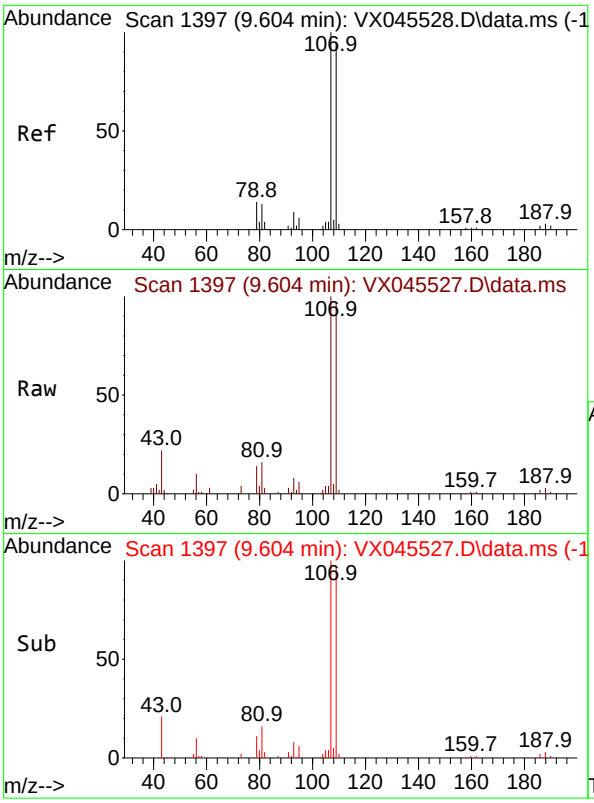


#60
Dibromochloromethane
Concen: 21.023 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion:129 Resp: 25992

Ion	Ratio	Lower	Upper
129	100		
127	77.3	39.4	118.2

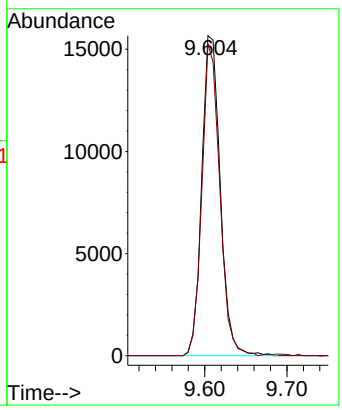




#61
1,2-Dibromoethane
Concen: 21.303 ug/l
RT: 9.604 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion:107 Resp: 2445

Ion	Ratio	Lower	Upper
107	100		
109	93.8	75.7	113.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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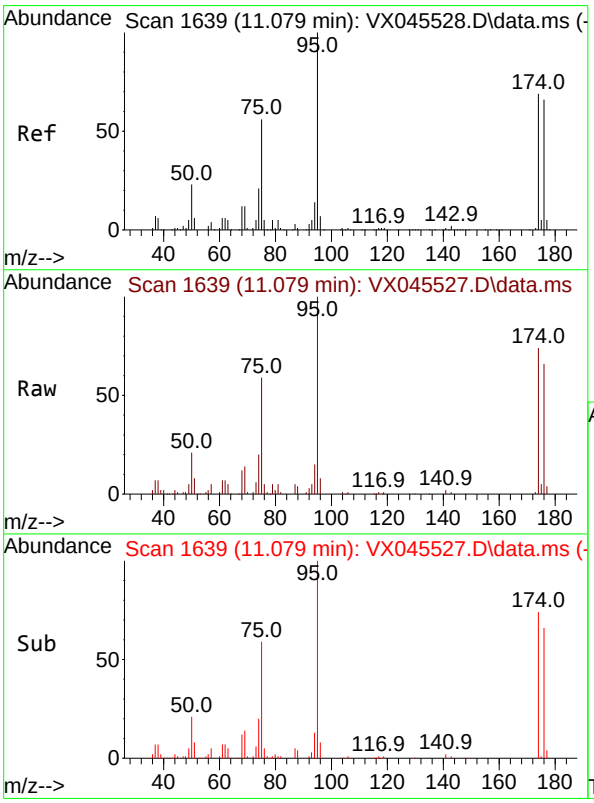
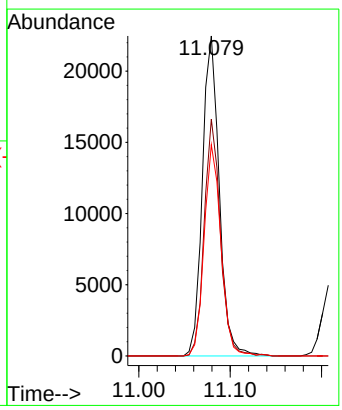
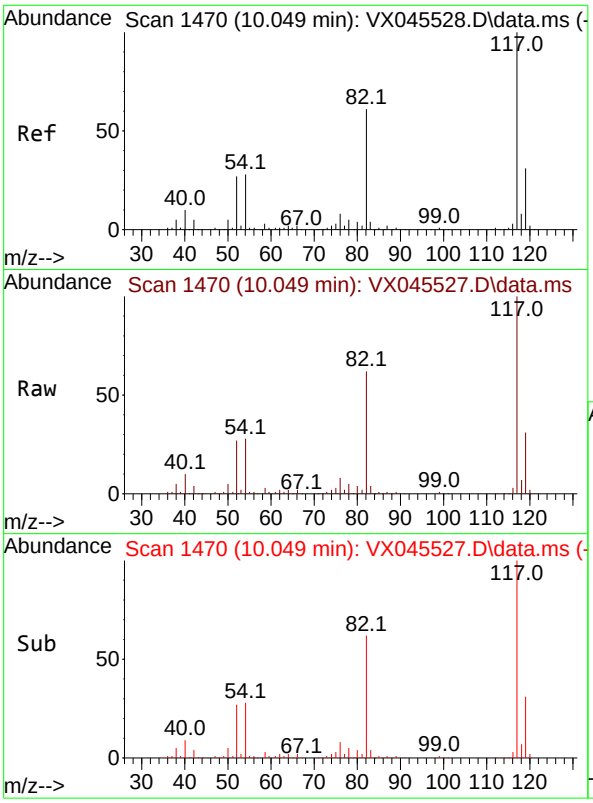


#62
4-Bromofluorobenzene
Concen: 19.858 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion: 95 Resp: 28795

Ion	Ratio	Lower	Upper
95	100		
174	71.1	0.0	135.8
176	65.8	0.0	131.4

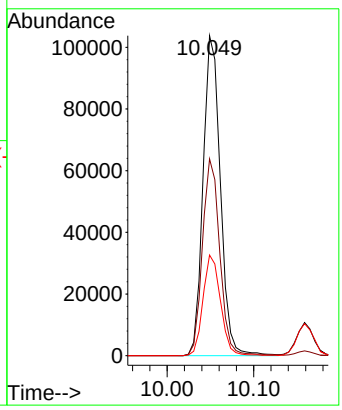




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion:117 Resp: 14408

Ion	Ratio	Lower	Upper
117	100		
82	61.5	49.2	73.8
119	31.5	25.1	37.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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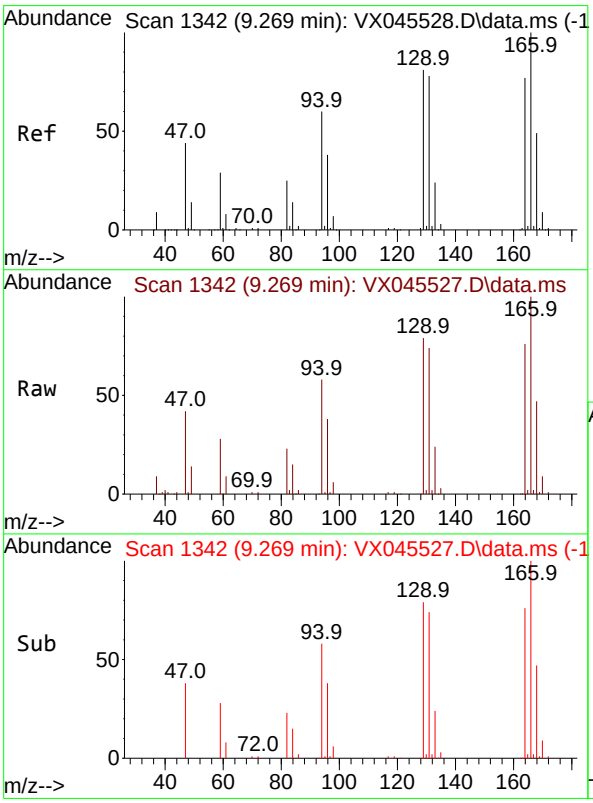
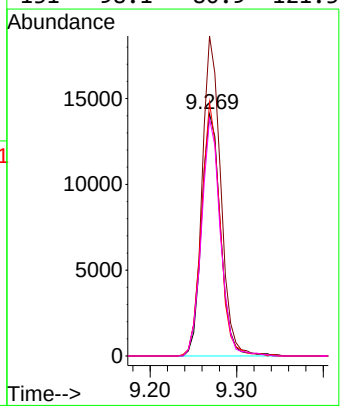
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

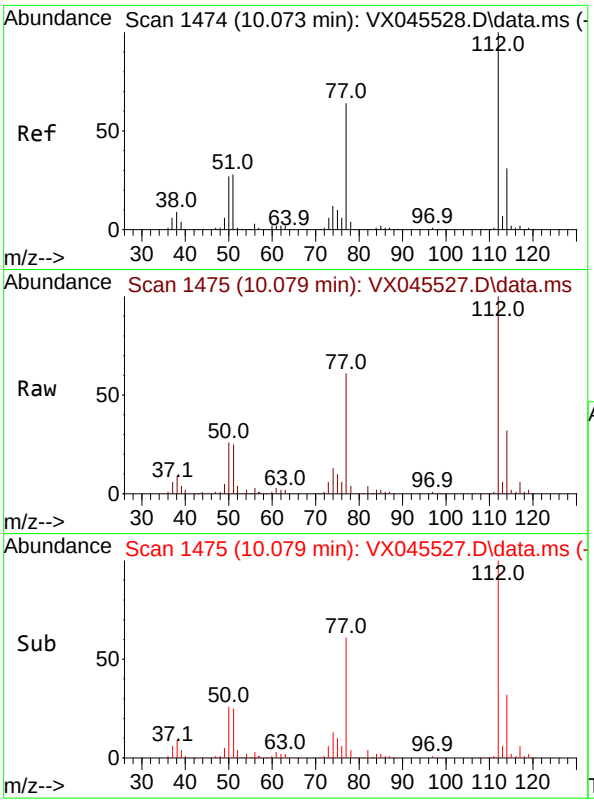


#64
Tetrachloroethene
Concen: 21.015 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion:164 Resp: 21379

Ion	Ratio	Lower	Upper
164	100		
166	132.2	103.8	155.8
129	104.9	84.3	126.5
131	98.1	80.9	121.3

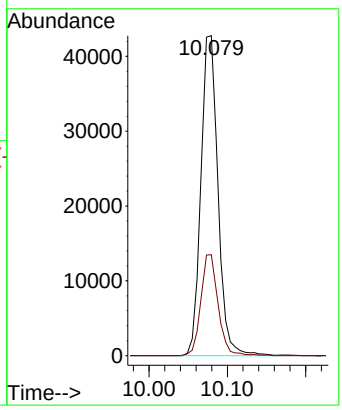




#65
Chlorobenzene
Concen: 21.023 ug/l
RT: 10.079 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion:112 Resp: 6472

Ion	Ratio	Lower	Upper
112	100		
114	31.6	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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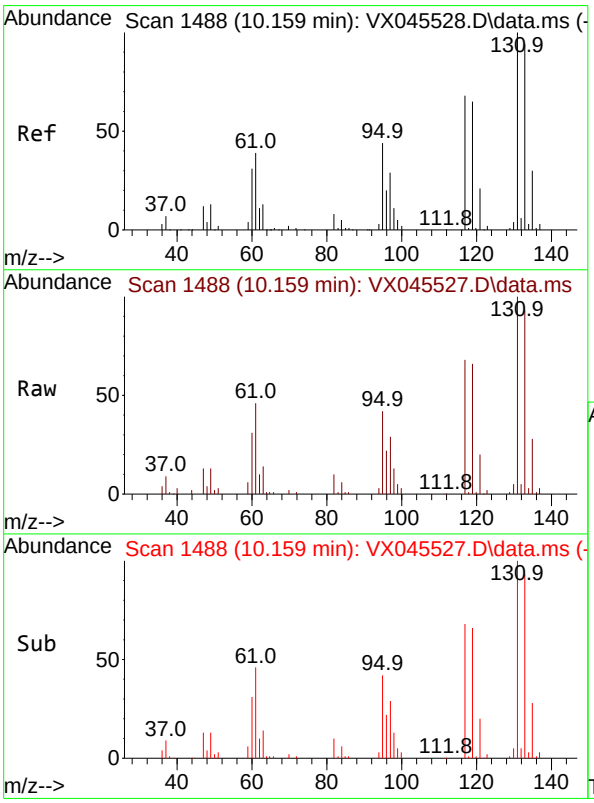
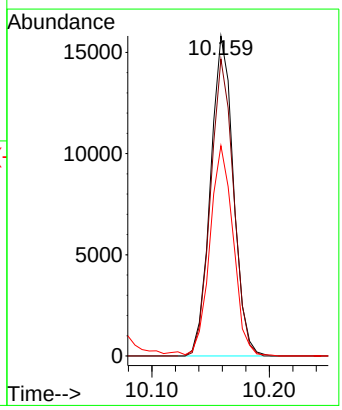
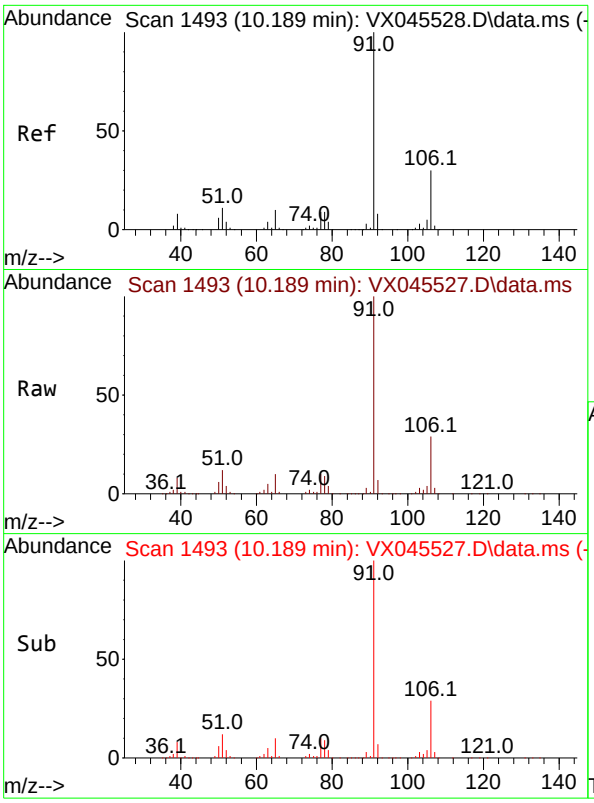


#66
1,1,1,2-Tetrachloroethane
Concen: 20.064 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion:131 Resp: 21447

Ion	Ratio	Lower	Upper
131	100		
133	92.8	47.5	142.5
119	66.3	32.9	98.6

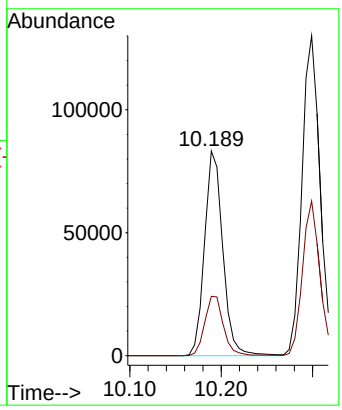




#67
Ethyl Benzene
Concen: 20.921 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion: 91 Resp: 11536

Ion	Ratio	Lower	Upper
91	100		
106	29.0	23.7	35.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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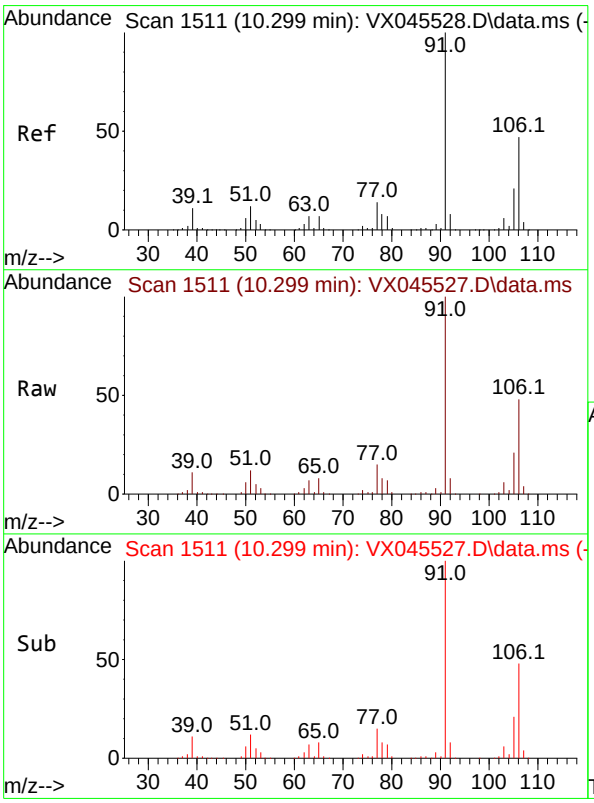
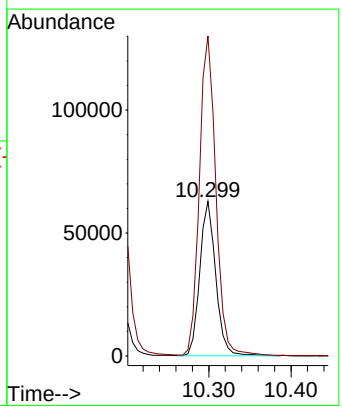
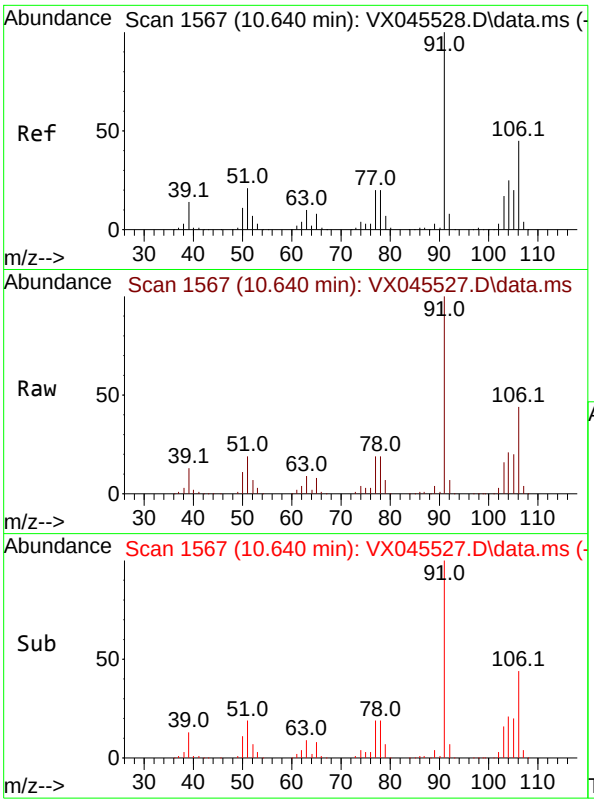


#68
m/p-Xylenes
Concen: 42.092 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion:106 Resp: 84420

Ion	Ratio	Lower	Upper
106	100		
91	214.4	172.6	258.8

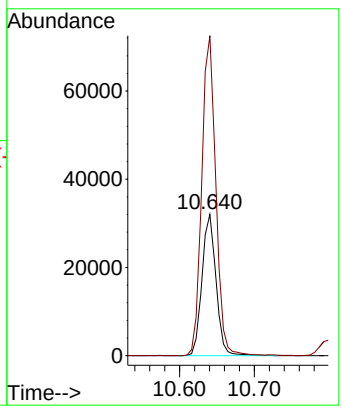




#69
o-Xylene
Concen: 21.158 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion:106 Resp: 4180

Ion	Ratio	Lower	Upper
106	100		
91	226.9	113.6	340.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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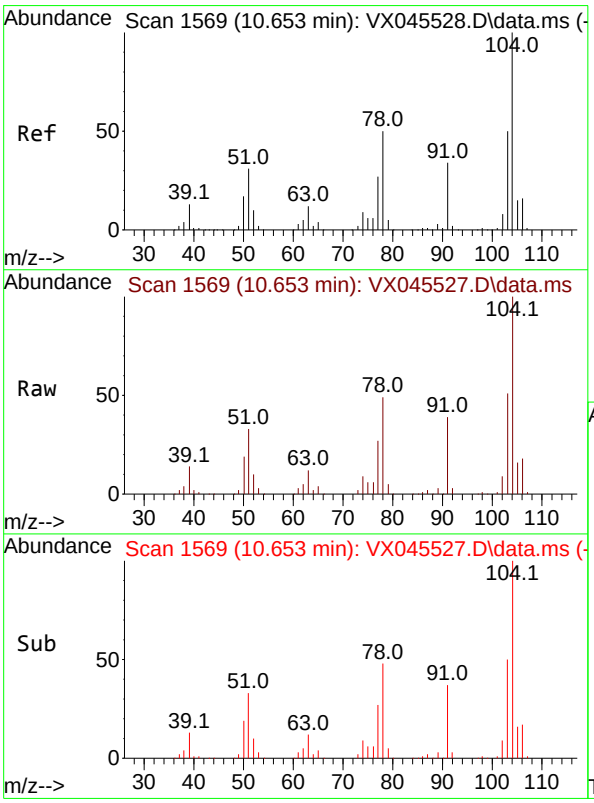
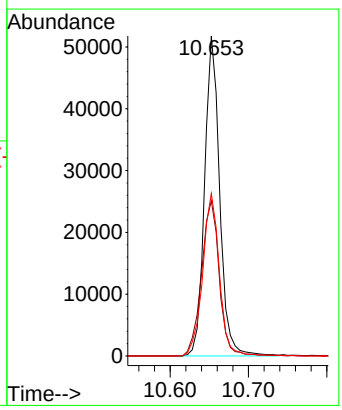
Supervised By :Mahesh Dadoda 04/02/2025

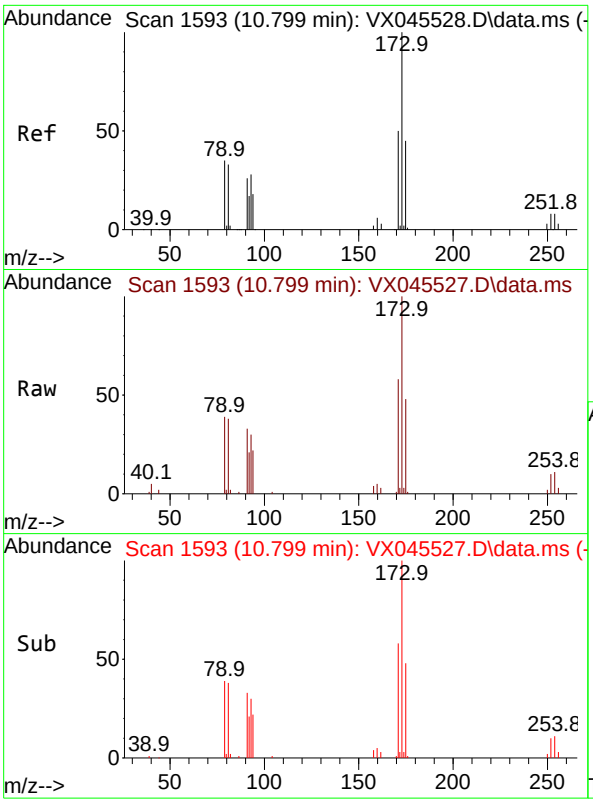


#70
Styrene
Concen: 21.249 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion:104 Resp: 69290

Ion	Ratio	Lower	Upper
104	100		
78	57.0	45.4	68.2
103	56.5	43.8	65.8

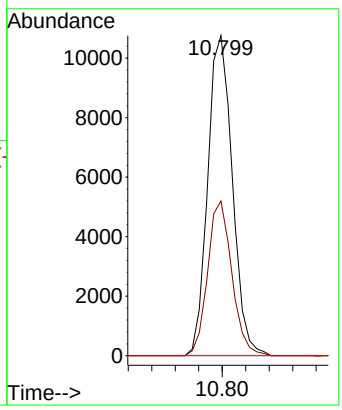




#71
Bromoform
Concen: 19.619 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion:173 Resp: 1565

Ion	Ratio	Lower	Upper
173	100		
175	47.5	23.4	70.2
254	0.0	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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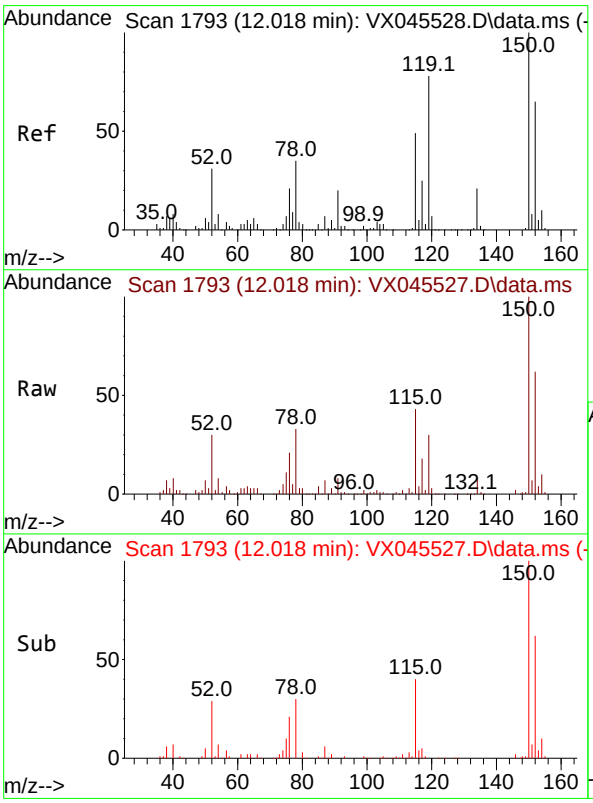
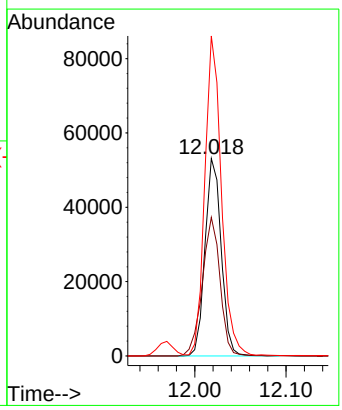
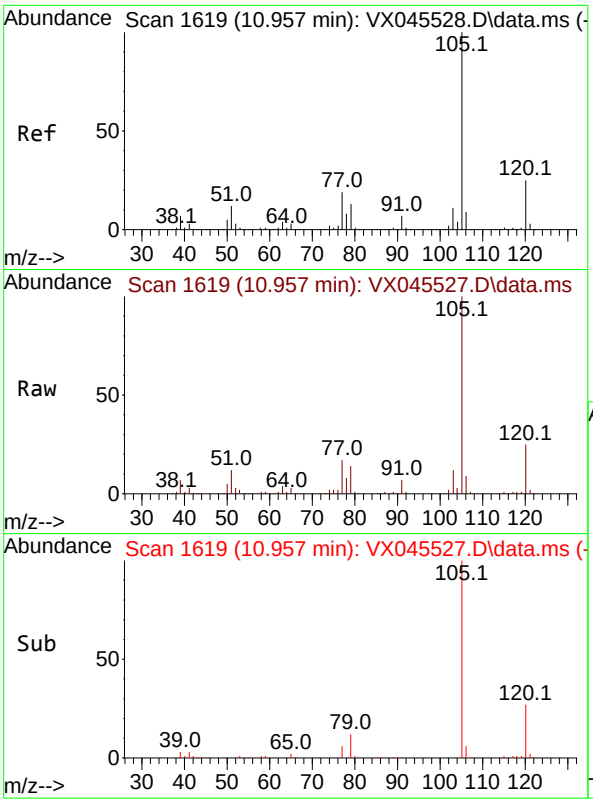


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion:152 Resp: 65341

Ion	Ratio	Lower	Upper
152	100		
115	76.8	46.9	140.7
150	166.0	0.0	349.4





#73
Isopropylbenzene
Concen: 21.093 ug/l
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion:105 Resp: 11039

Ion	Ratio	Lower	Upper
105	100		
120	25.5	12.7	38.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
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Reviewed By :Amit Patel 04/02/2025
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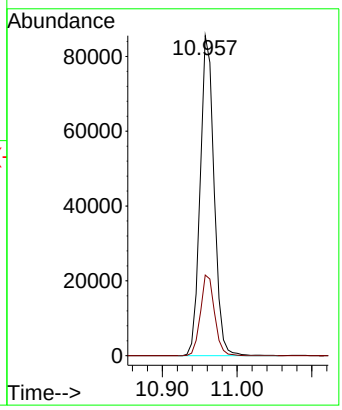
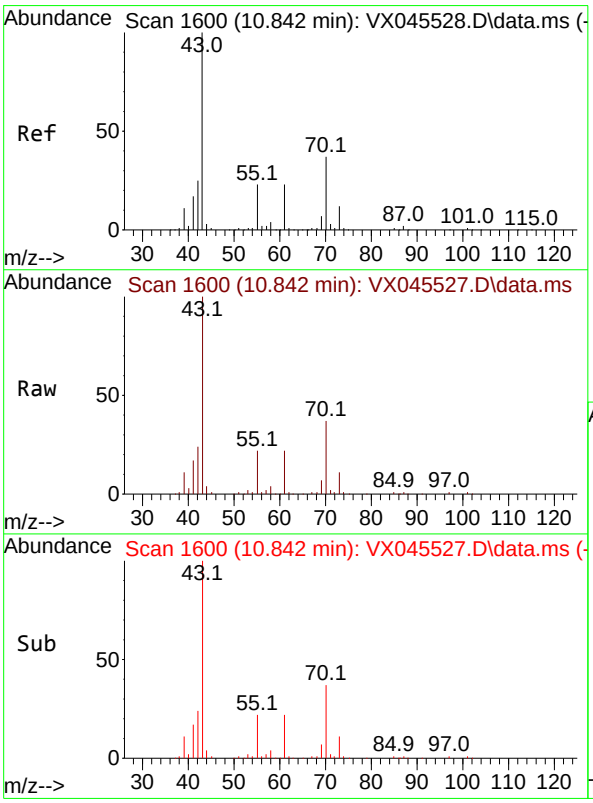
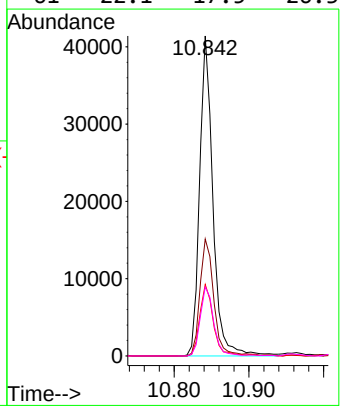


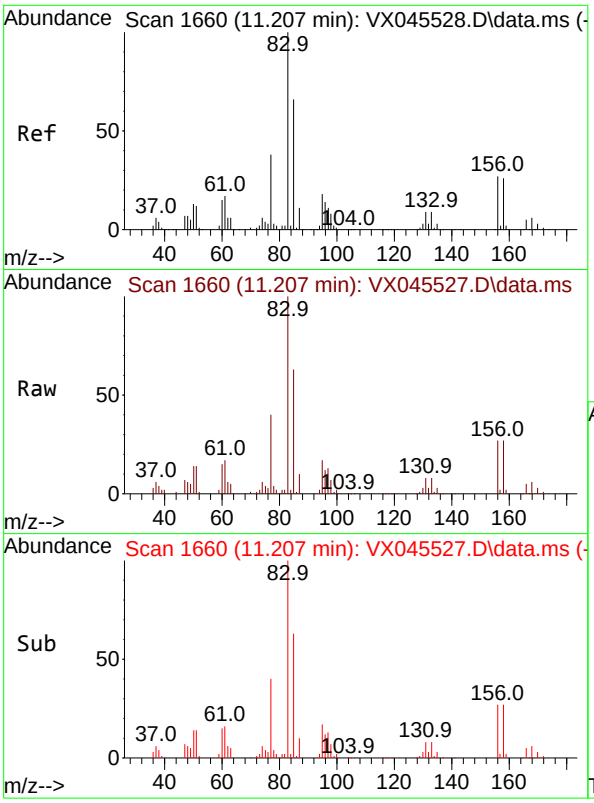


#74
N-amyl acetate
Concen: 20.466 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion: 43 Resp: 51238

Ion	Ratio	Lower	Upper
43	100		
70	38.1	30.1	45.1
55	22.5	18.3	27.5
61	22.1	17.5	26.3





#75
1,1,2,2-Tetrachloroethane
Concen: 20.764 ug/l
RT: 11.207 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion: 83 Resp: 3817

Ion	Ratio	Lower	Upper
83	100		
131	9.0	4.7	14.1
85	63.7	32.4	97.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
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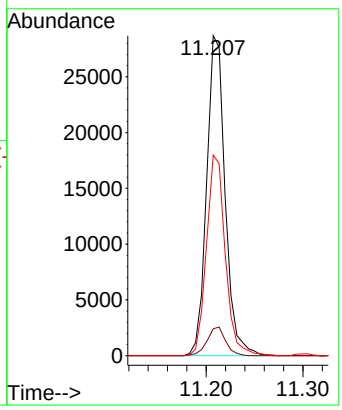
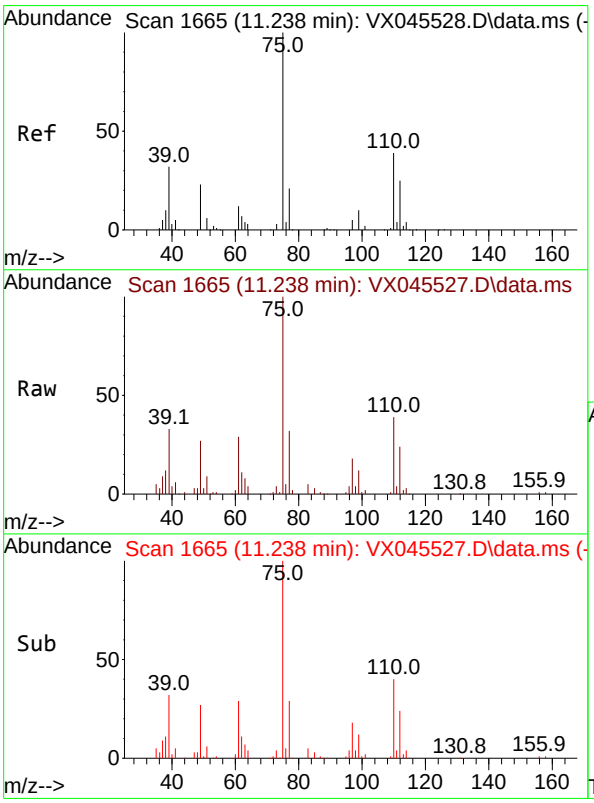
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

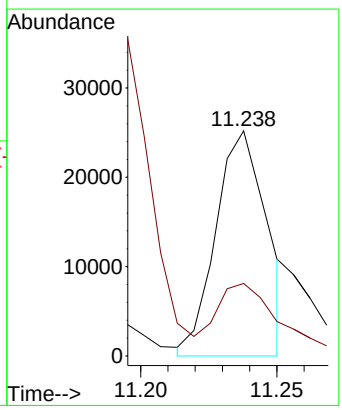


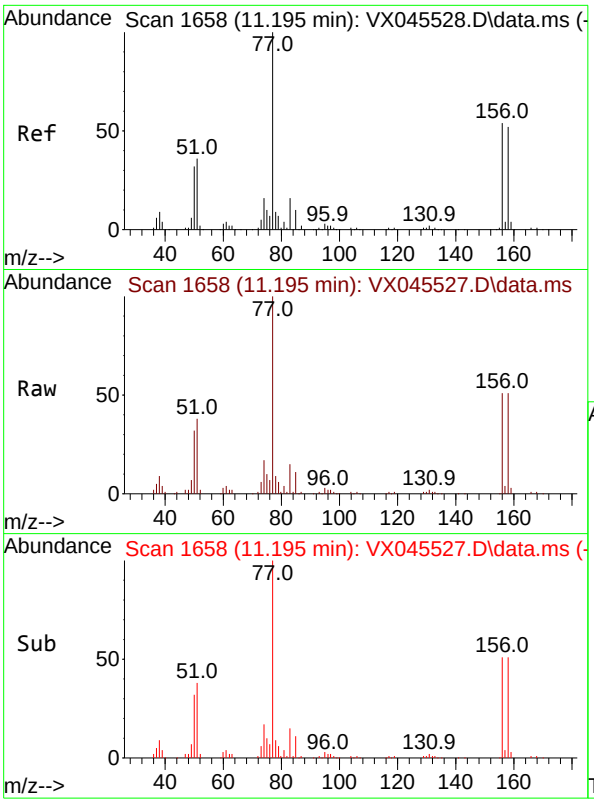


#76
1,2,3-Trichloropropane
Concen: 20.510 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion: 75 Resp: 32690

Ion	Ratio	Lower	Upper
75	100		
77	41.2	20.0	59.9

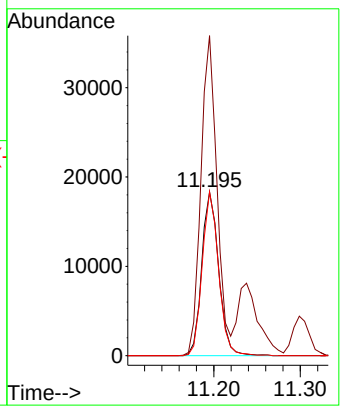




#77
Bromobenzene
Concen: 20.592 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion:156 Resp: 2490

Ion	Ratio	Lower	Upper
156	100		
77	185.0	92.6	277.8
158	96.7	48.1	144.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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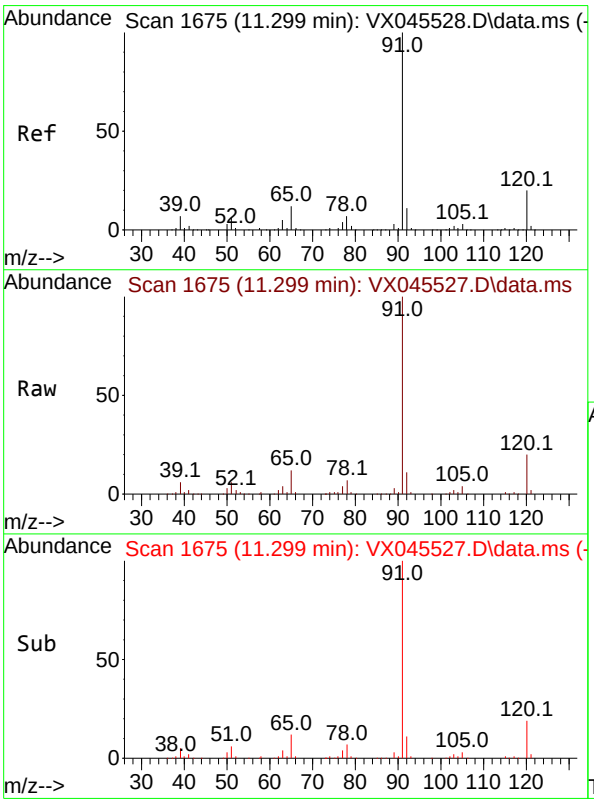
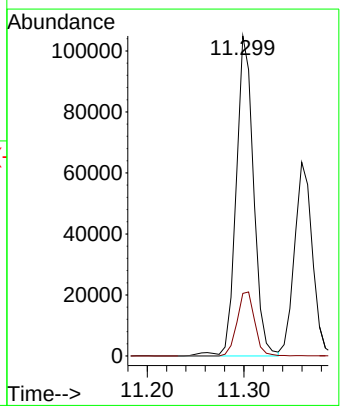
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

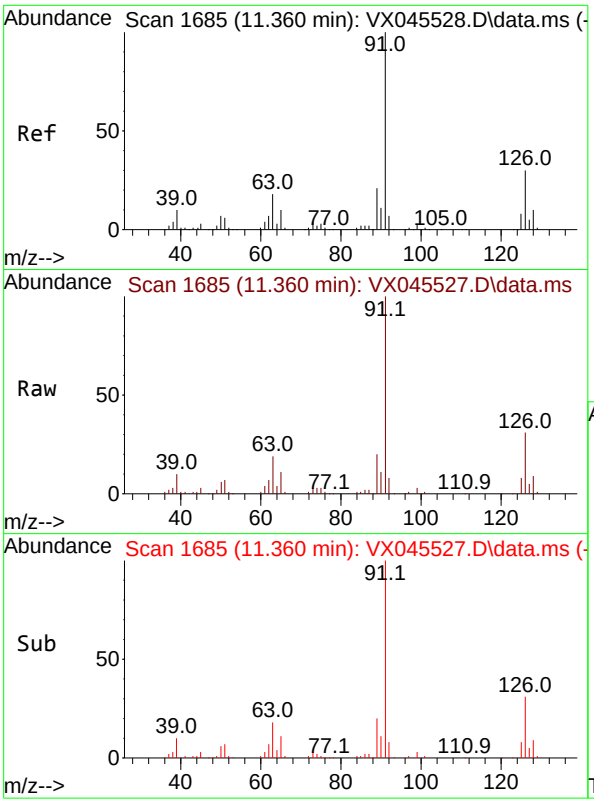


#78
n-propylbenzene
Concen: 21.729 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion: 91 Resp: 130994

Ion	Ratio	Lower	Upper
91	100		
120	20.5	10.8	32.3

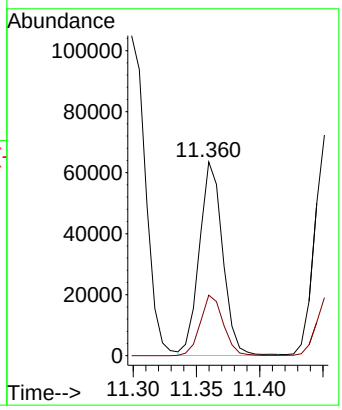




#79
2-Chlorotoluene
Concen: 21.229 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion: 91 Resp: 8181

Ion	Ratio	Lower	Upper
91	100		
126	30.9	15.8	47.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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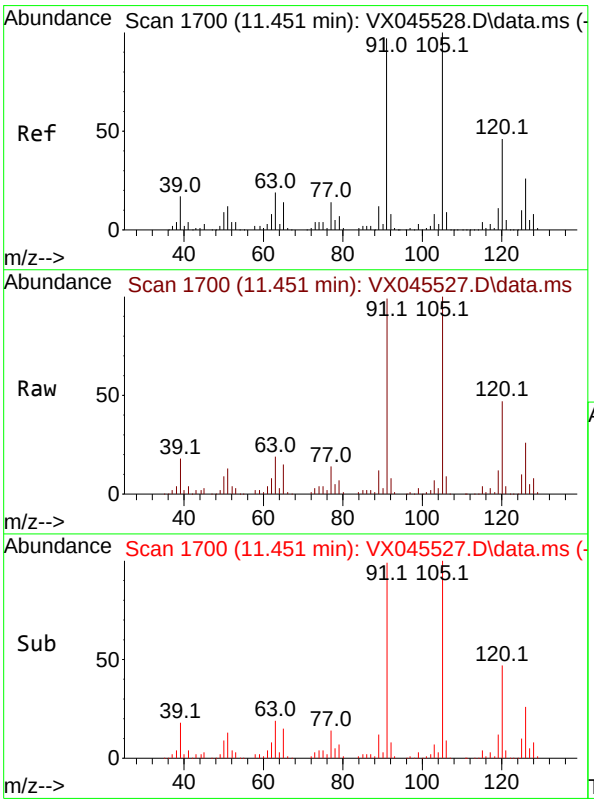
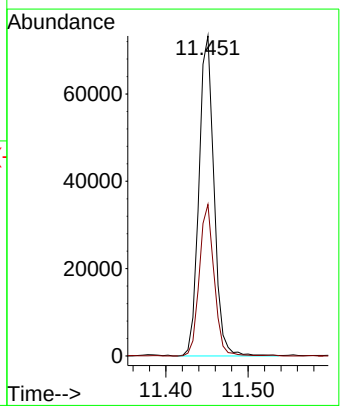
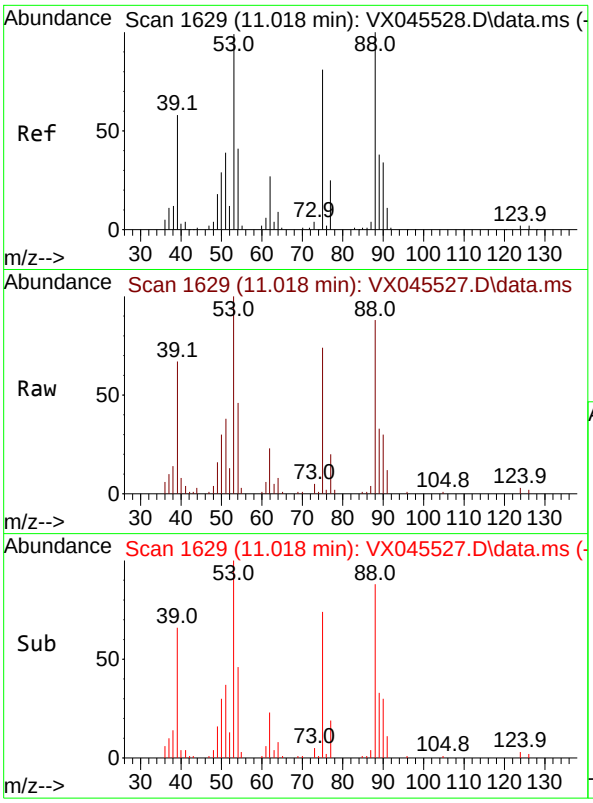


#80
1,3,5-Trimethylbenzene
Concen: 21.564 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion:105 Resp: 93328

Ion	Ratio	Lower	Upper
105	100		
120	46.5	23.0	69.0





#81
trans-1,4-Dichloro-2-butene
Concen: 17.961 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion: 75 Resp: 843

Ion	Ratio	Lower	Upper
75	100		
53	144.7	101.8	152.6
89	45.5	37.2	55.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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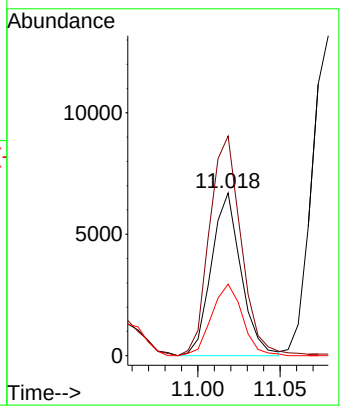
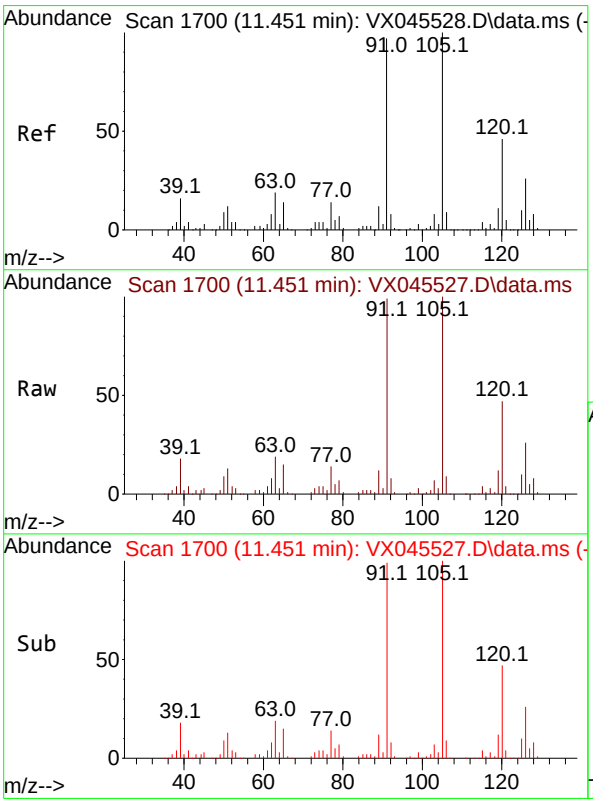
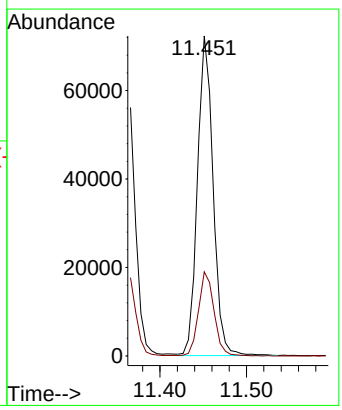


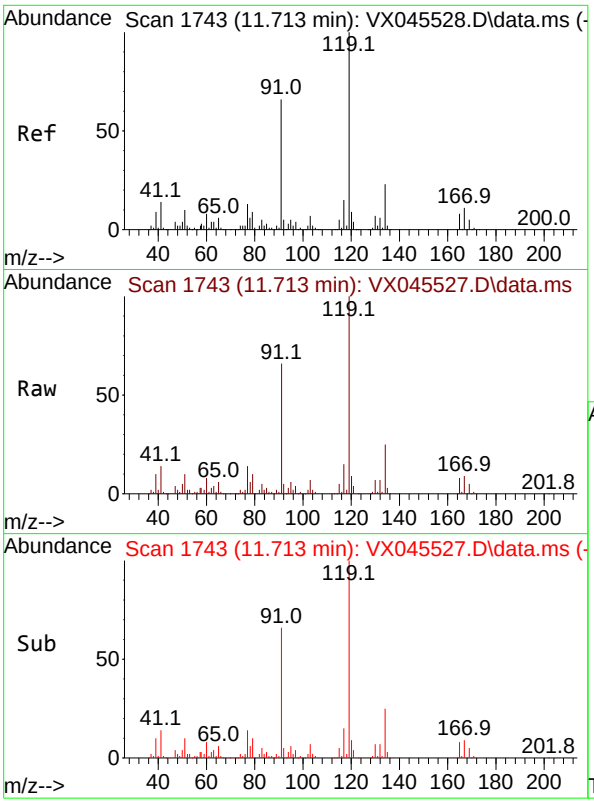


#82
4-Chlorotoluene
Concen: 21.108 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion: 91 Resp: 90704

Ion	Ratio	Lower	Upper
91	100		
126	26.2	13.3	39.9

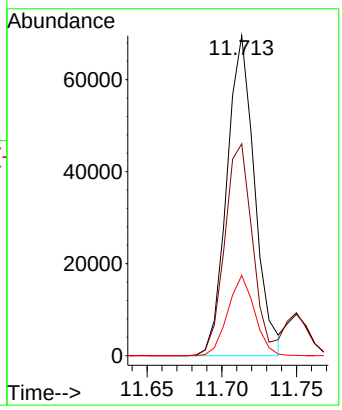




#83
tert-Butylbenzene
Concen: 20.964 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion:119 Resp: 8982

Ion	Ratio	Lower	Upper
119	100		
91	65.7	32.4	97.2
134	24.2	11.5	34.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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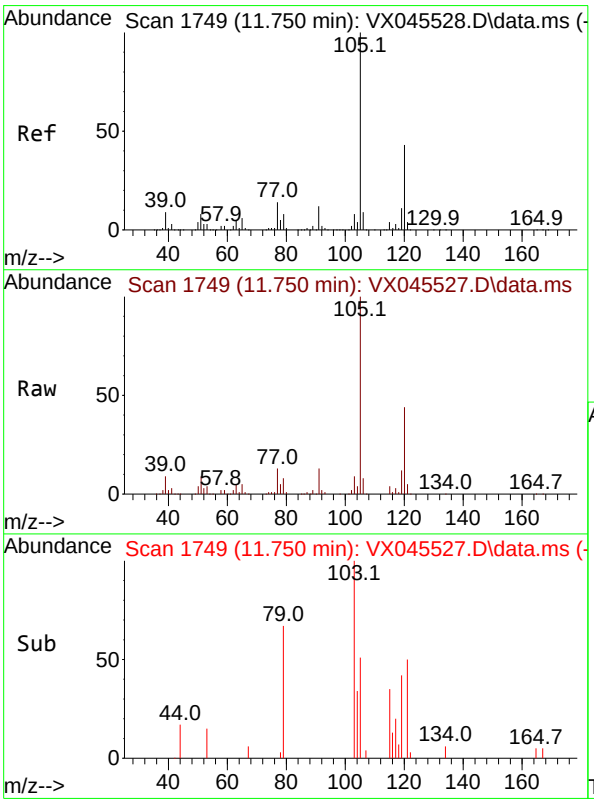
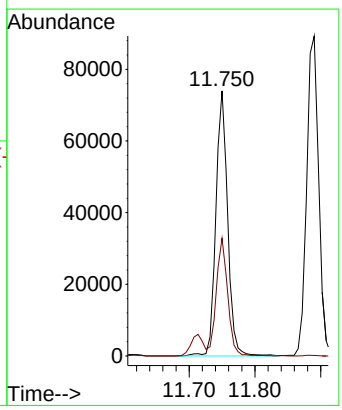
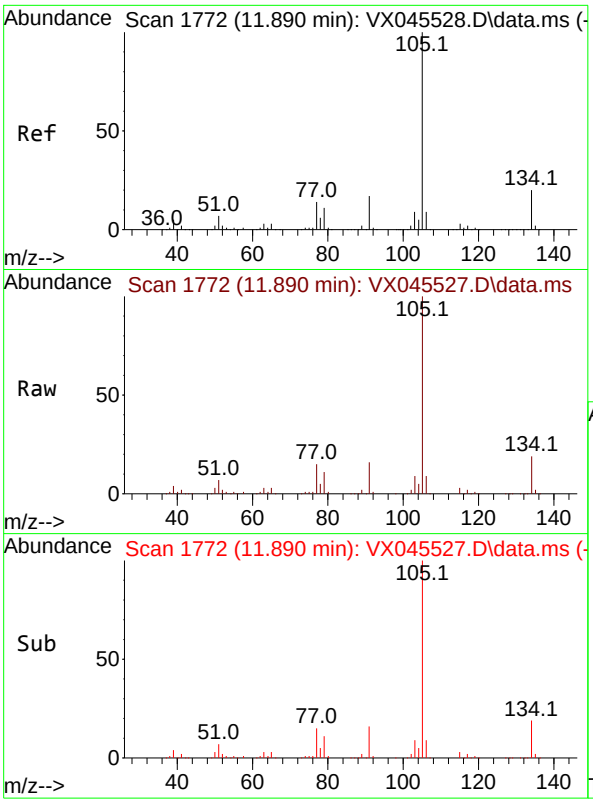


#84
1,2,4-Trimethylbenzene
Concen: 21.235 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion:105 Resp: 92242

Ion	Ratio	Lower	Upper
105	100		
120	43.1	21.4	64.3

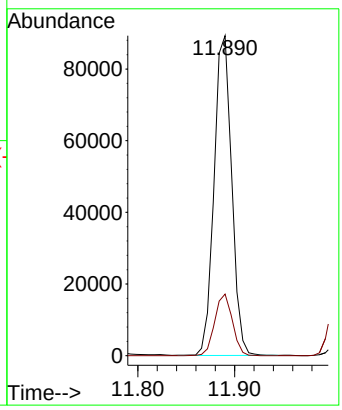




#85
sec-Butylbenzene
Concen: 21.433 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion:105 Resp: 11280

Ion	Ratio	Lower	Upper
105	100		
134	19.3	9.6	28.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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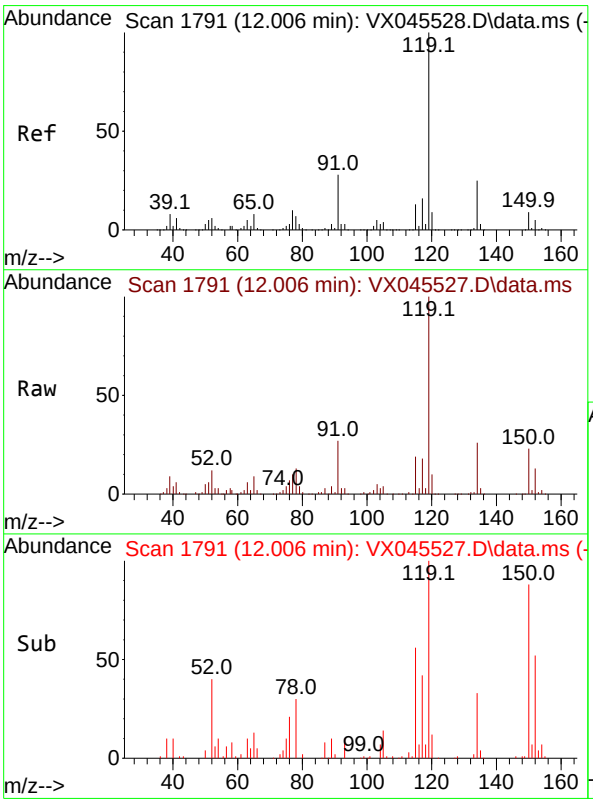
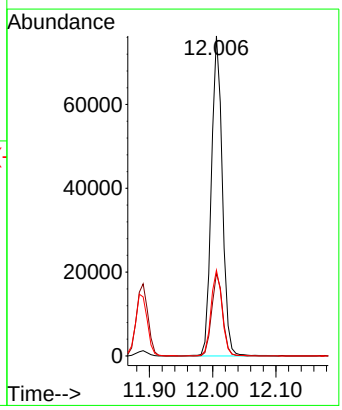
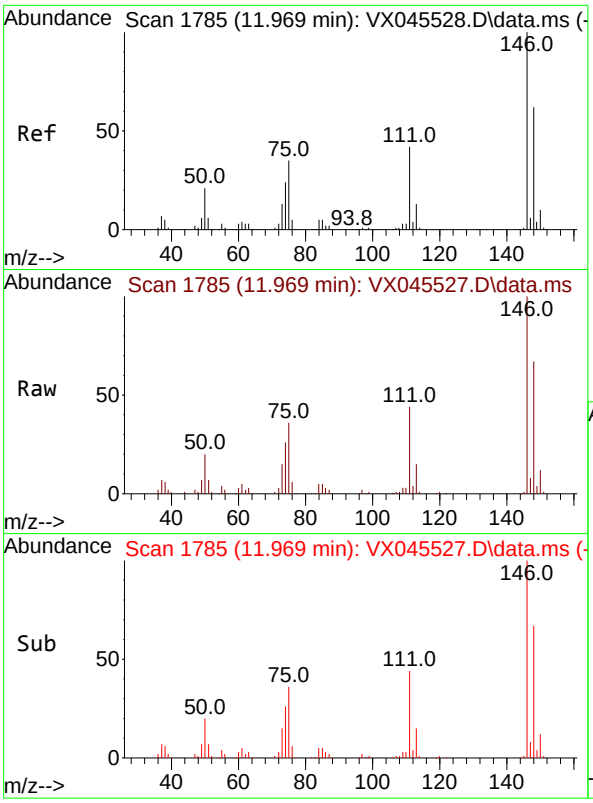


#86
p-Isopropyltoluene
Concen: 21.173 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion:119 Resp: 91866

Ion	Ratio	Lower	Upper
119	100		
134	25.7	12.6	37.8
91	27.1	13.7	41.1

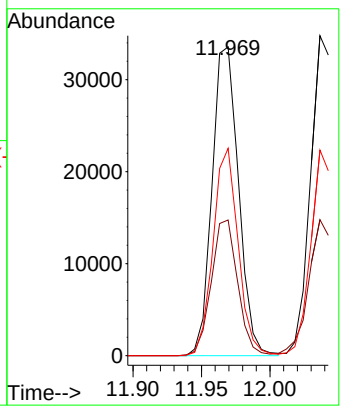




#87
1,3-Dichlorobenzene
Concen: 20.490 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion:146 Resp: 4510

Ion	Ratio	Lower	Upper
146	100		
111	43.9	22.2	66.6
148	63.6	31.9	95.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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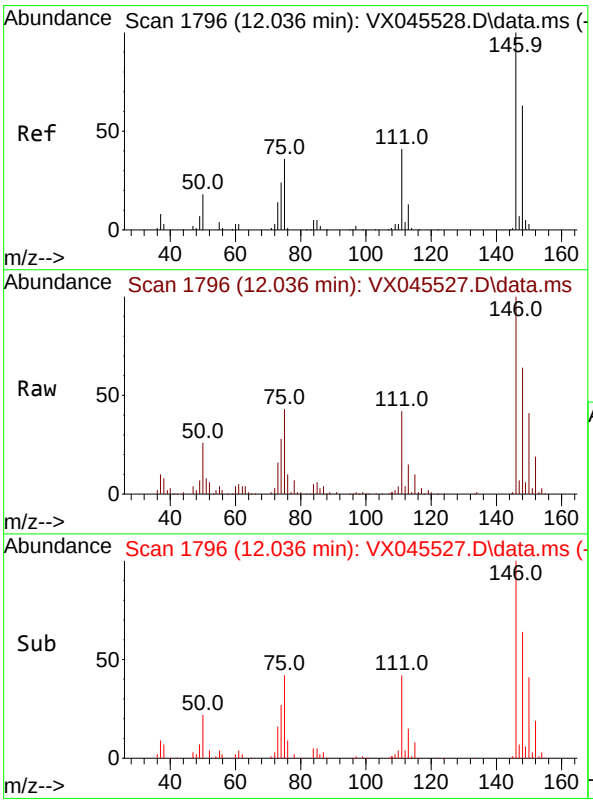
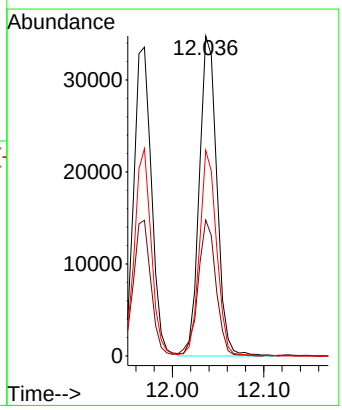
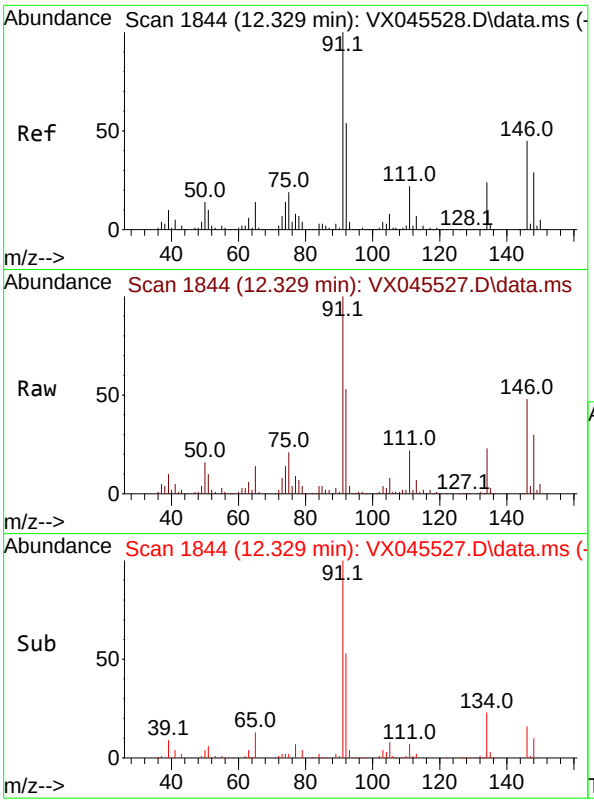


#88
1,4-Dichlorobenzene
Concen: 20.706 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion:146 Resp: 46208

Ion	Ratio	Lower	Upper
146	100		
111	43.6	20.9	62.8
148	62.6	31.5	94.5





#89
n-Butylbenzene
Concen: 20.662 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion: 91 Resp: 7773

Ion	Ratio	Lower	Upper
91	100		
92	53.5	26.9	80.6
134	23.4	11.9	35.7

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
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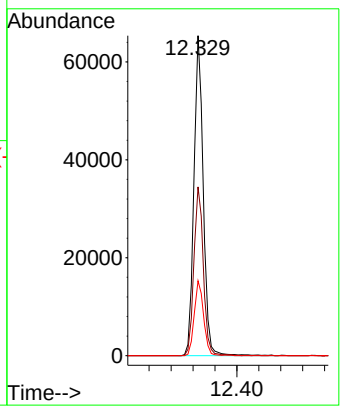
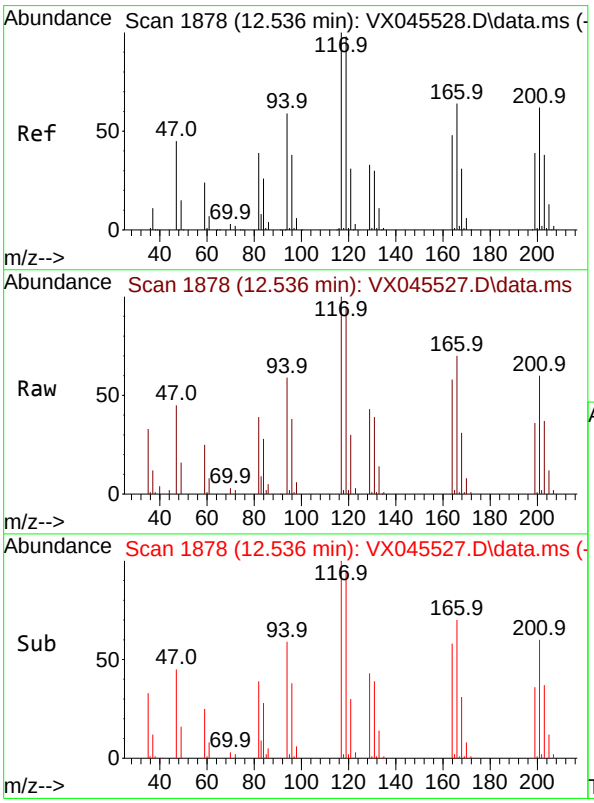
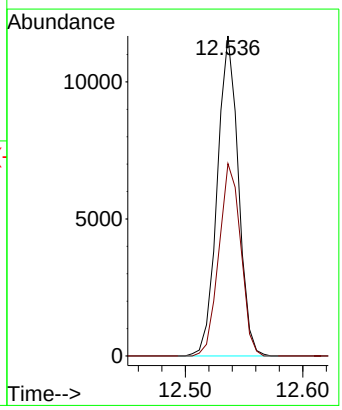


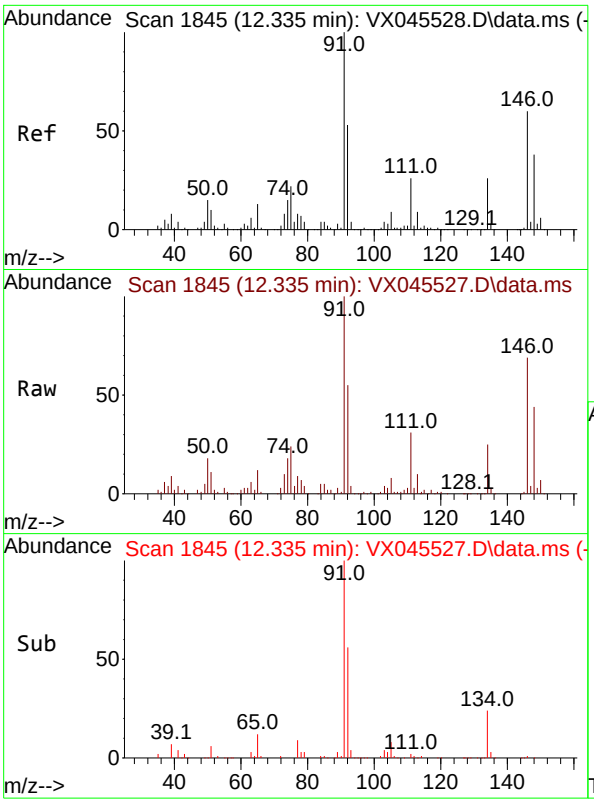


#90
Hexachloroethane
Concen: 19.505 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion:117 Resp: 14544

Ion	Ratio	Lower	Upper
117	100		
201	62.2	31.2	93.6

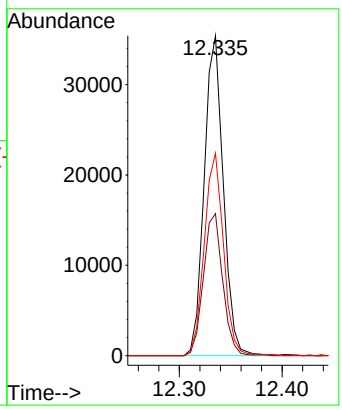




#91
1,2-Dichlorobenzene
Concen: 20.896 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion:146 Resp: 4573

Ion	Ratio	Lower	Upper
146	100		
111	45.0	22.9	68.8
148	63.6	31.9	95.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

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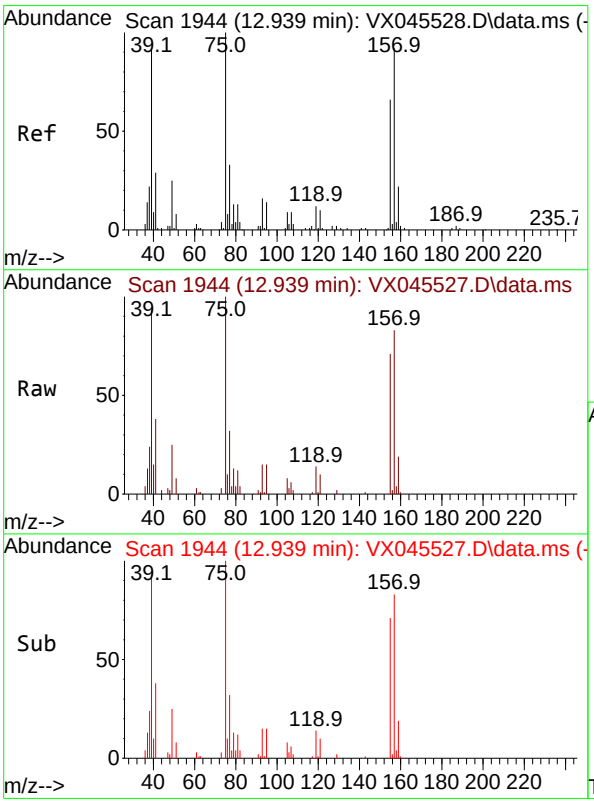
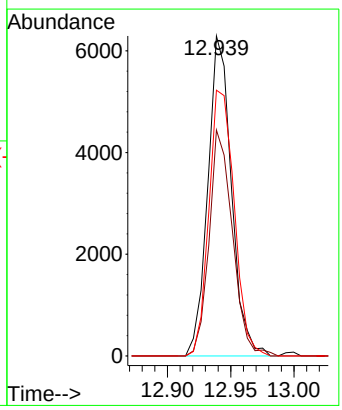
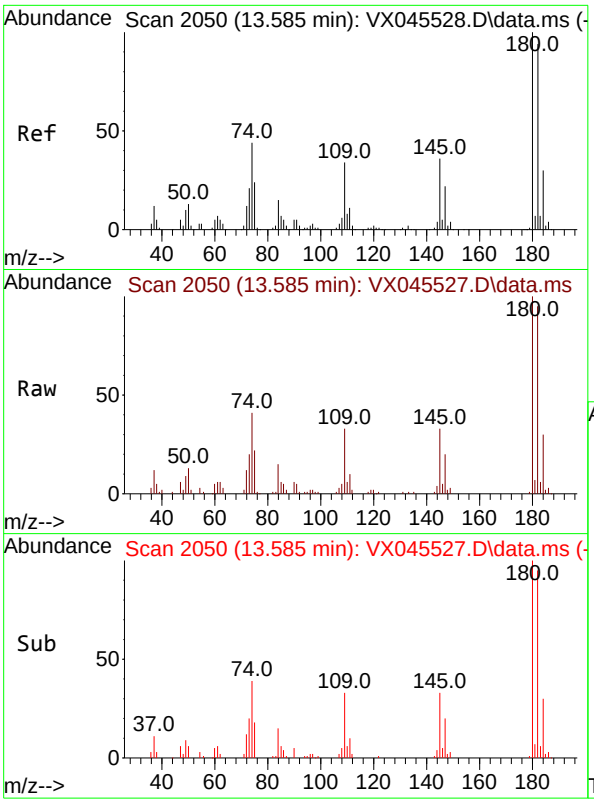


#92
1,2-Dibromo-3-Chloropropane
Concen: 21.203 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion: 75 Resp: 8153

Ion	Ratio	Lower	Upper
75	100		
155	70.0	34.9	104.7
157	89.1	44.9	134.7

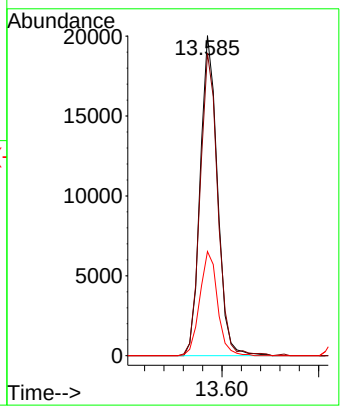




#93
1,2,4-Trichlorobenzene
Concen: 20.347 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion:180 Resp: 2478

Ion	Ratio	Lower	Upper
180	100		
182	96.6	47.9	143.6
145	33.6	17.9	53.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
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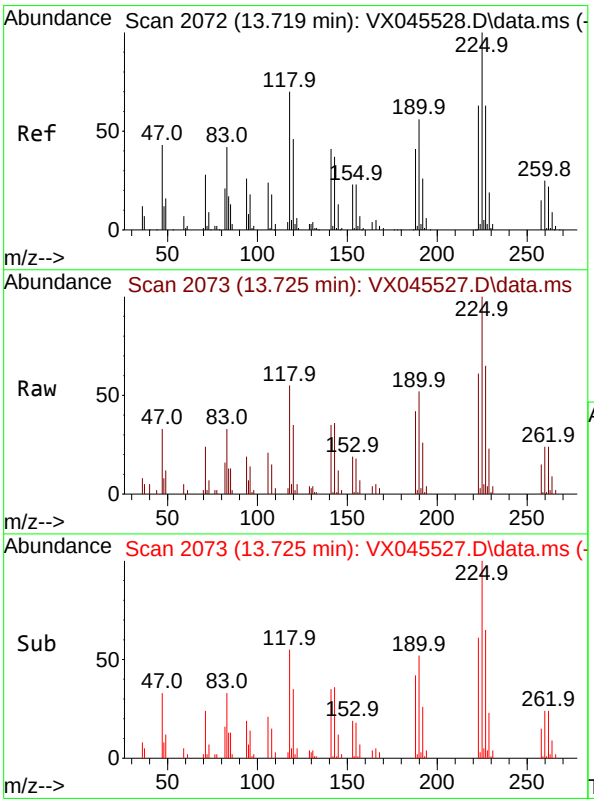
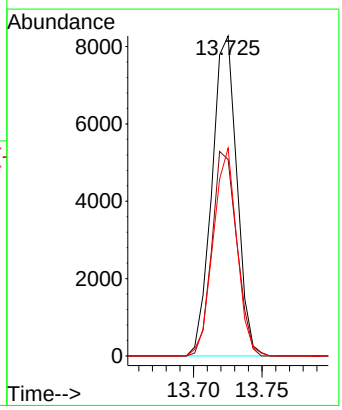
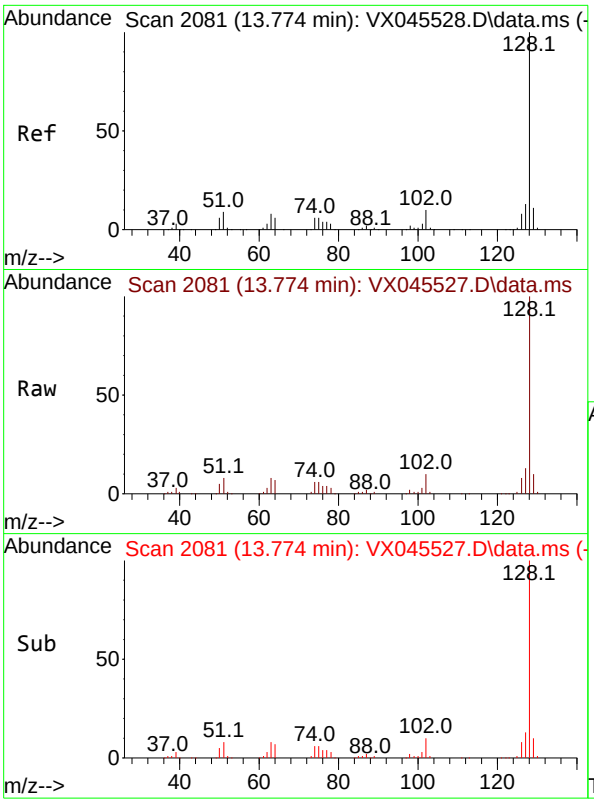


#94
Hexachlorobutadiene
Concen: 19.979 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.006 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion:225 Resp: 10488

Ion	Ratio	Lower	Upper
225	100		
223	63.6	31.1	93.3
227	61.6	32.2	96.6

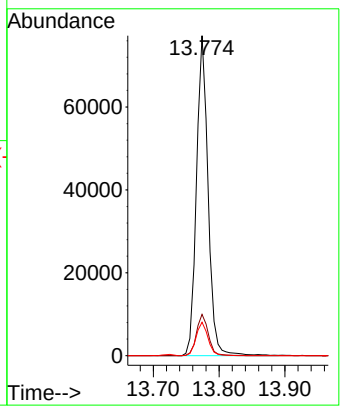




#95
Naphthalene
Concen: 20.928 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion:128 Resp: 9487

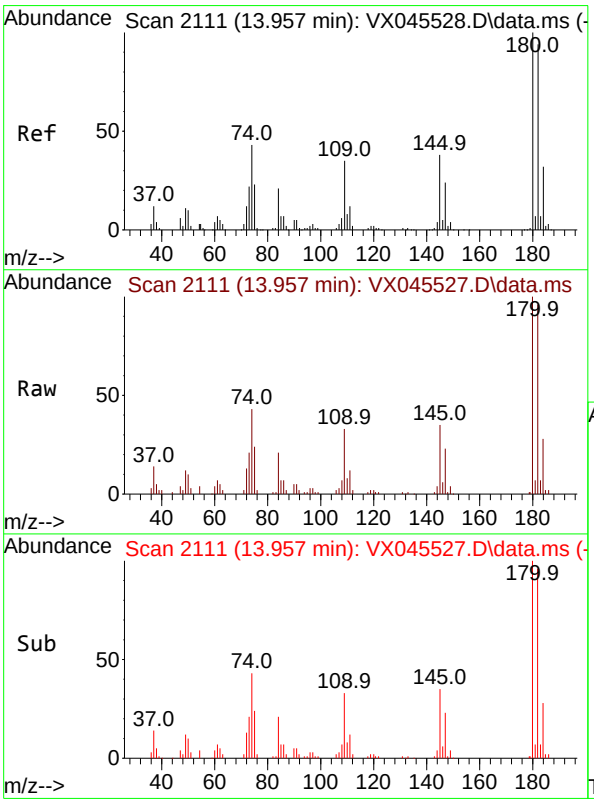
Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.3	15.5
129	10.7	8.6	12.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

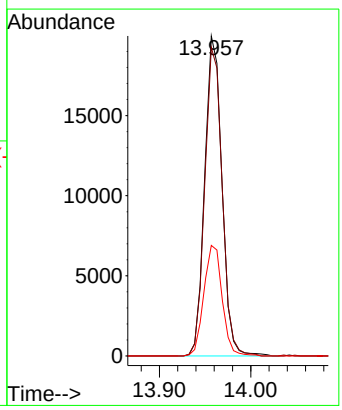
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#96
1,2,3-Trichlorobenzene
Concen: 20.471 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion:180 Resp: 26113

Ion	Ratio	Lower	Upper
180	100		
182	97.4	47.3	141.8
145	36.7	18.2	54.6



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045528.D
Acq On : 01 Apr 2025 18:15
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 02 02:53:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 02:44:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	95658	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	168287	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	150201	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	68786	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	83054	47.477	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 94.960%			
35) Dibromofluoromethane	5.379	113	58108	48.667	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 97.340%			
50) Toluene-d8	8.647	98	204338	49.031	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 98.060%			
62) 4-Bromofluorobenzene	11.079	95	76190	50.190	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 100.380%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	78444	54.834	ug/l	100
3) Chloromethane	1.307	50	75032	51.054	ug/l	100
4) Vinyl Chloride	1.374	62	68516	50.942	ug/l	100
5) Bromomethane	1.593	94	31584	49.526	ug/l	100
6) Chloroethane	1.666	64	38112	53.409	ug/l	100
7) Trichlorofluoromethane	1.874	101	103888	51.798	ug/l	100
8) Diethyl Ether	2.136	74	33953	50.424	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.325	101	59431	50.569	ug/l	100
10) Methyl Iodide	2.447	142	76404	52.121	ug/l	100
11) Tert butyl alcohol	2.977	59	60610	257.809	ug/l	100
12) 1,1-Dichloroethene	2.313	96	57738	50.278	ug/l	100
13) Acrolein	2.239	56	79989	247.074	ug/l	100
14) Allyl chloride	2.660	41	112085	51.441	ug/l	100
15) Acrylonitrile	3.062	53	194445	262.015	ug/l	100
16) Acetone	2.386	43	180563	251.366	ug/l	100
17) Carbon Disulfide	2.508	76	148601	52.393	ug/l	100
18) Methyl Acetate	2.703	43	82000	49.581	ug/l	100
19) Methyl tert-butyl Ether	3.111	73	202582	50.429	ug/l	100
20) Methylene Chloride	2.782	84	67855	50.457	ug/l	100
21) trans-1,2-Dichloroethene	3.087	96	59696	50.882	ug/l	100
22) Diisopropyl ether	3.764	45	219374	51.111	ug/l	100
23) Vinyl Acetate	3.721	43	998064	269.139	ug/l	100
24) 1,1-Dichloroethane	3.605	63	121348	49.992	ug/l	100
25) 2-Butanone	4.556	43	280076	266.363	ug/l	100
26) 2,2-Dichloropropane	4.471	77	81054	51.683	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	71871	50.282	ug/l	100
28) Bromochloromethane	4.897	49	57046	48.632	ug/l	100
29) Tetrahydrofuran	5.001	42	177402	260.230	ug/l	100
30) Chloroform	5.086	83	125797	50.366	ug/l	100
31) Cyclohexane	5.464	56	107407	50.052	ug/l	100
32) 1,1,1-Trichloroethane	5.379	97	106062	50.184	ug/l	100
36) 1,1-Dichloropropene	5.684	75	81607	50.620	ug/l	100
37) Ethyl Acetate	4.715	43	104896	51.632	ug/l	100
38) Carbon Tetrachloride	5.672	117	90247	51.797	ug/l	100
39) Methylcyclohexane	7.373	83	104678	52.970	ug/l	100
40) Benzene	6.031	78	249161	50.605	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045528.D
Acq On : 01 Apr 2025 18:15
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 02 02:53:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 02:44:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.922	41	59068	54.623	ug/l		100
42) 1,2-Dichloroethane	6.080	62	104601	51.437	ug/l		100
43) Isopropyl Acetate	6.336	43	164588	53.452	ug/l		100
44) Trichloroethene	7.123	130	59042	50.452	ug/l		100
45) 1,2-Dichloropropane	7.427	63	63316	51.540	ug/l		100
46) Dibromomethane	7.574	93	49125	52.092	ug/l		100
47) Bromodichloromethane	7.818	83	96176	51.068	ug/l		100
48) Methyl methacrylate	7.690	41	85483	53.768	ug/l		100
49) 1,4-Dioxane	7.659	88	31199	1084.635	ug/l		100
51) 4-Methyl-2-Pentanone	8.574	43	558029	273.375	ug/l		100
52) Toluene	8.714	92	153143	51.402	ug/l		100
53) t-1,3-Dichloropropene	8.976	75	85462	47.317	ug/l		100
54) cis-1,3-Dichloropropene	8.366	75	95524	53.975	ug/l		100
55) 1,1,2-Trichloroethane	9.147	97	60452	50.919	ug/l		100
56) Ethyl methacrylate	9.116	69	100998	54.970	ug/l		100
57) 1,3-Dichloropropane	9.305	76	106580	51.554	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	250428	269.434	ug/l		100
59) 2-Hexanone	9.427	43	413824	273.765	ug/l		100
60) Dibromochloromethane	9.519	129	69258	53.511	ug/l		100
61) 1,2-Dibromoethane	9.604	107	62812	52.264	ug/l		100
64) Tetrachloroethene	9.269	164	52155	49.181	ug/l		100
65) Chlorobenzene	10.073	112	162829	50.733	ug/l		100
66) 1,1,1,2-Tetrachloroethane	10.159	131	55974	50.233	ug/l		100
67) Ethyl Benzene	10.189	91	301481	52.447	ug/l		100
68) m/p-Xylenes	10.299	106	218702	104.606	ug/l		100
69) o-Xylene	10.640	106	108028	52.452	ug/l		100
70) Styrene	10.653	104	182620	53.723	ug/l		100
71) Bromoform	10.799	173	44397	53.361	ug/l	#	100
73) Isopropylbenzene	10.957	105	287628	52.203	ug/l		100
74) N-amyl acetate	10.842	43	141589	53.721	ug/l		100
75) 1,1,2,2-Tetrachloroethane	11.207	83	95200	49.185	ug/l		100
76) 1,2,3-Trichloropropane	11.238	75	84279m	50.230	ug/l		
77) Bromobenzene	11.195	156	64527	50.686	ug/l		100
78) n-propylbenzene	11.299	91	336796	53.069	ug/l		100
79) 2-Chlorotoluene	11.360	91	203994	50.279	ug/l		100
80) 1,3,5-Trimethylbenzene	11.451	105	241536	53.013	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	25488	51.556	ug/l		100
82) 4-Chlorotoluene	11.451	91	237213	52.439	ug/l		100
83) tert-Butylbenzene	11.713	119	235715	52.256	ug/l		100
84) 1,2,4-Trimethylbenzene	11.750	105	242301	52.986	ug/l		100
85) sec-Butylbenzene	11.890	105	295799	53.391	ug/l		100
86) p-Isopropyltoluene	12.006	119	242416	53.073	ug/l		100
87) 1,3-Dichlorobenzene	11.969	146	116890	50.441	ug/l		100
88) 1,4-Dichlorobenzene	12.036	146	117164	49.871	ug/l		100
89) n-Butylbenzene	12.329	91	217345	54.874	ug/l		100
90) Hexachloroethane	12.536	117	41095	52.352	ug/l		100
91) 1,2-Dichlorobenzene	12.335	146	115426	50.099	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	12.939	75	21712	53.638	ug/l		100
93) 1,2,4-Trichlorobenzene	13.585	180	65145	50.797	ug/l		100
94) Hexachlorobutadiene	13.719	225	27795	50.296	ug/l		100
95) Naphthalene	13.774	128	256009	53.643	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	68781	51.219	ug/l		100

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045528.D
Acq On : 01 Apr 2025 18:15
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 02 02:53:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 02:44:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

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

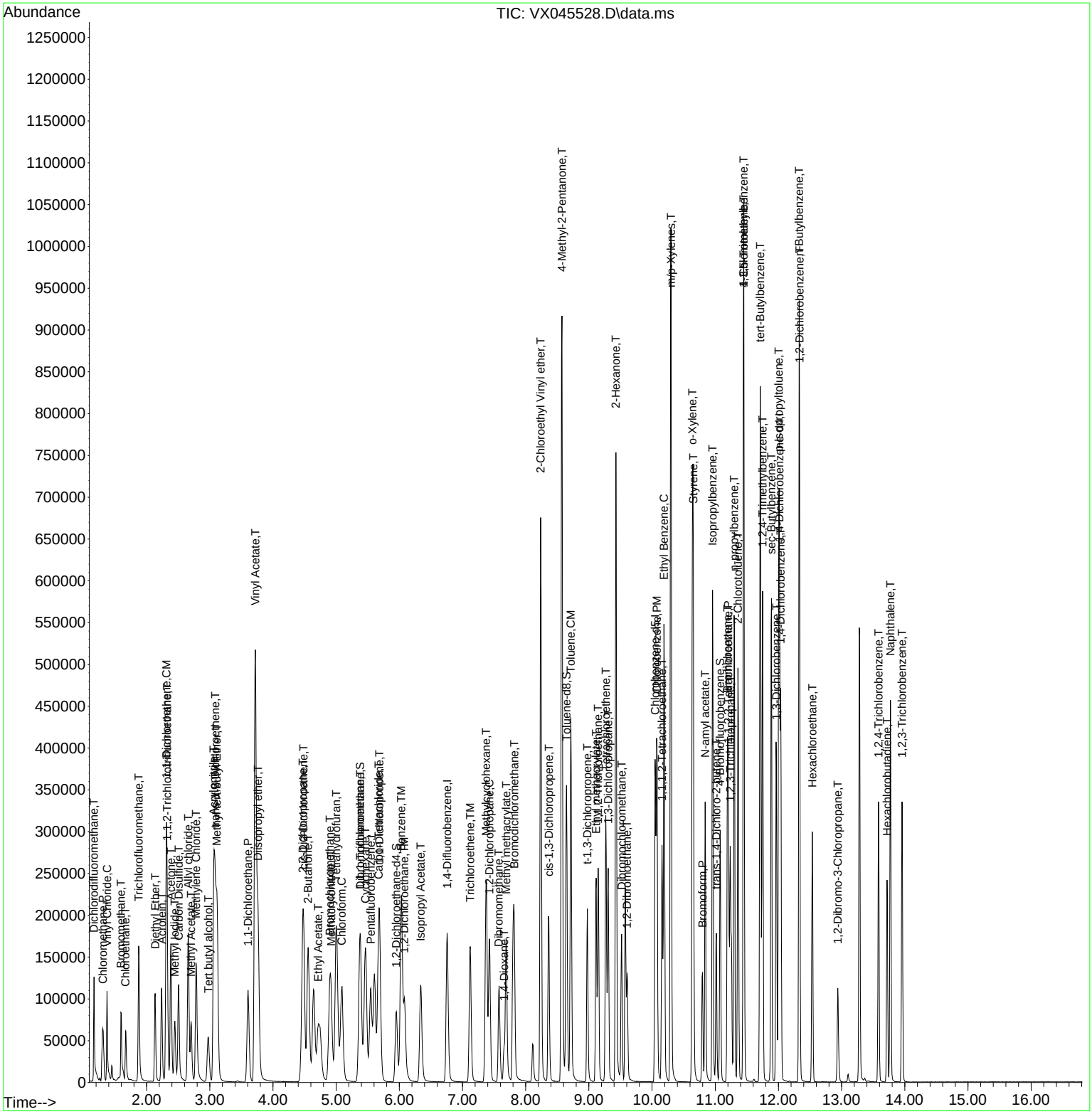
(#) = qualifier out of range (m) = manual integration (+) = signals summed

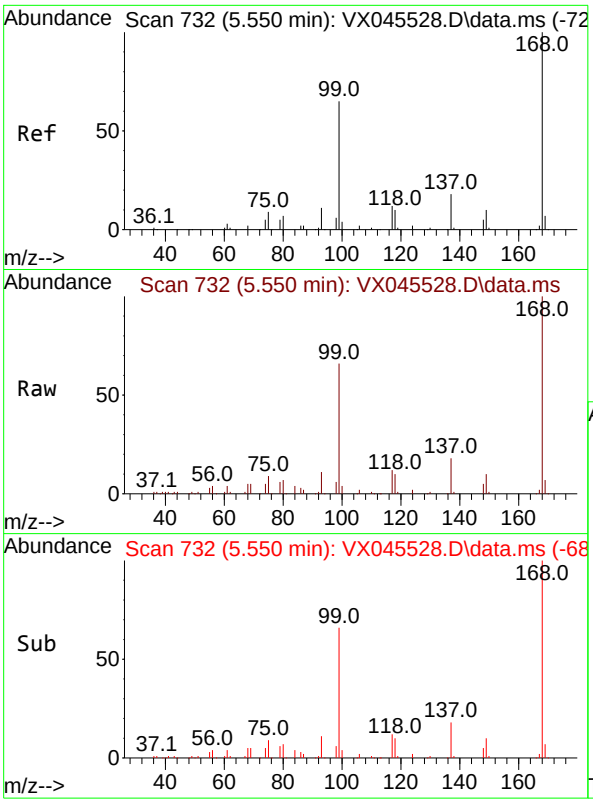
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045528.D
Acq On : 01 Apr 2025 18:15
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 02 02:53:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 02:44:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

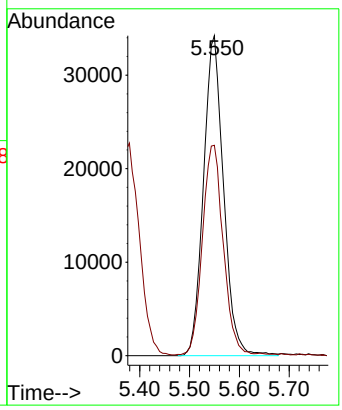




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion:168 Resp: 9565

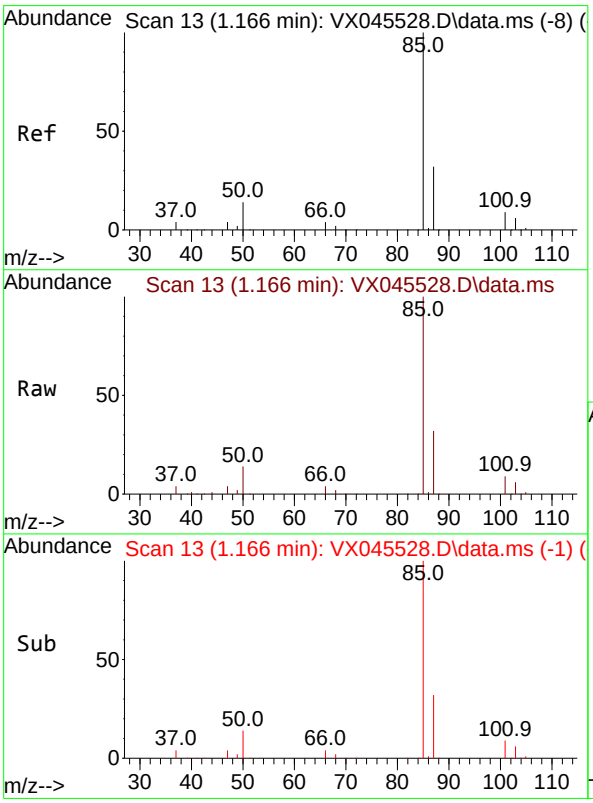
Ion	Ratio	Lower	Upper
168	100		
99	65.4	52.3	78.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

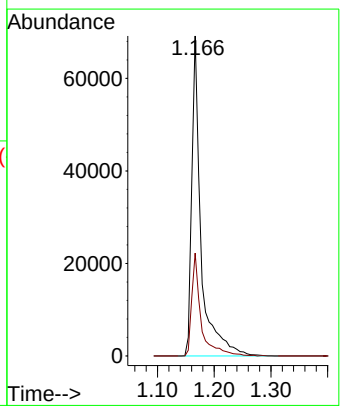
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

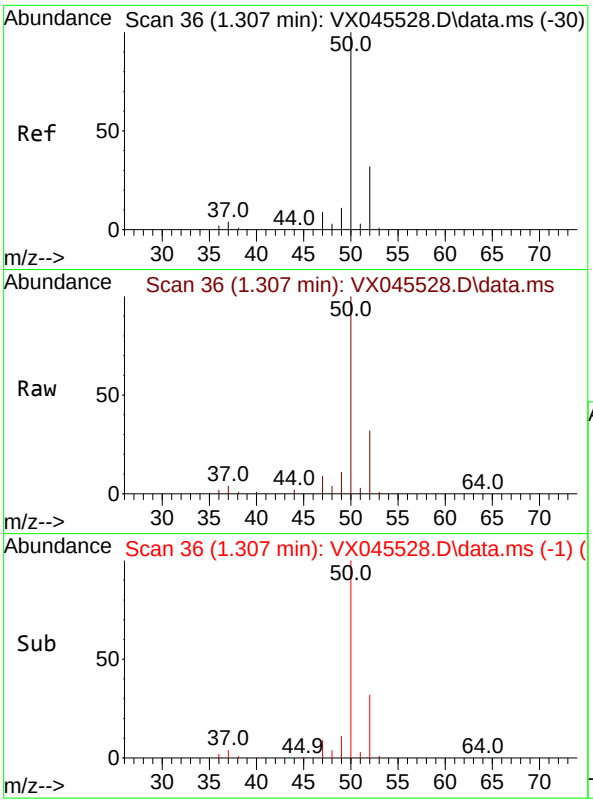


#2
Dichlorodifluoromethane
Concen: 54.834 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion: 85 Resp: 78444

Ion	Ratio	Lower	Upper
85	100		
87	32.1	16.1	48.2





#3
Chloromethane
Concen: 51.054 ug/l
RT: 1.307 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

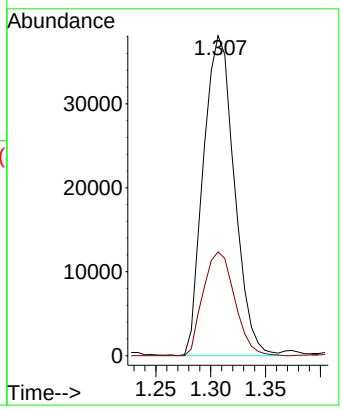
Tgt Ion: 50 Resp: 7503

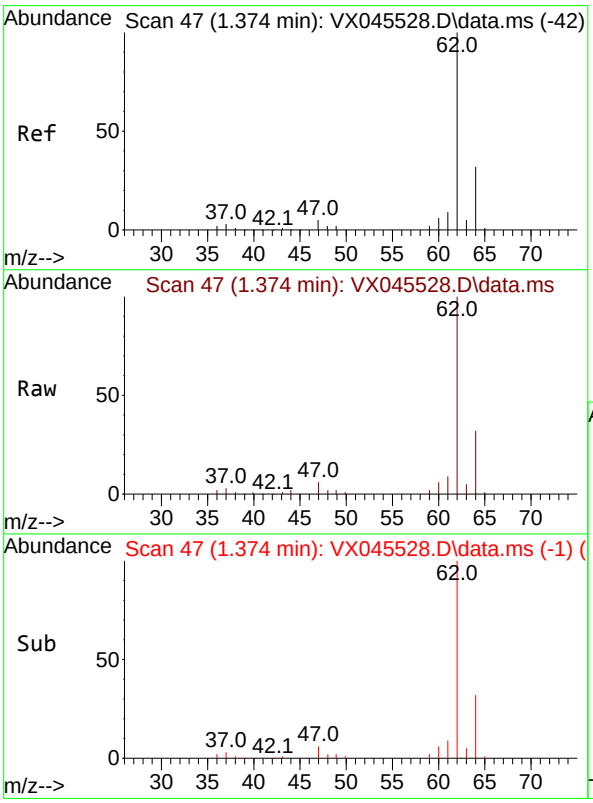
Ion	Ratio	Lower	Upper
50	100		
52	32.4	25.9	38.9

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

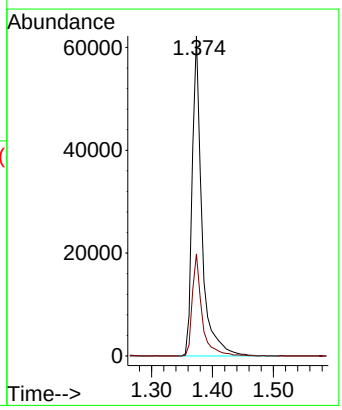


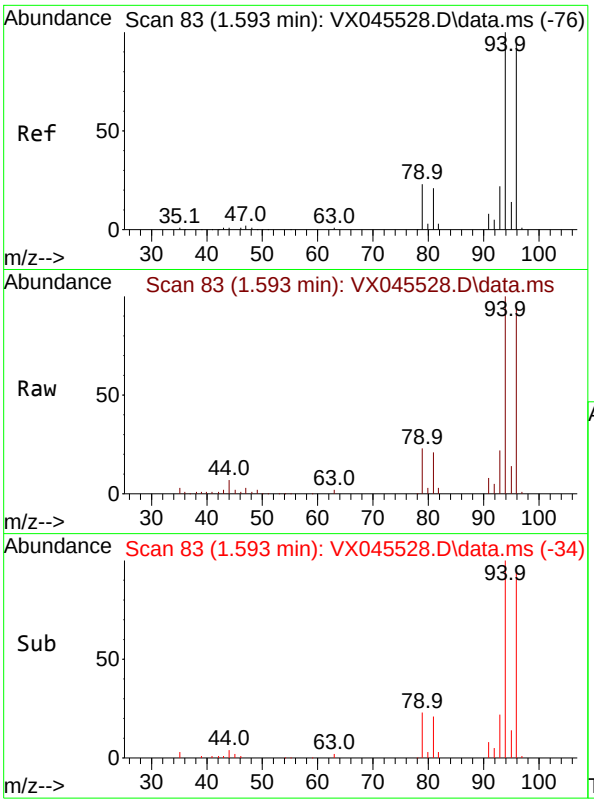


#4
Vinyl Chloride
Concen: 50.942 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion: 62 Resp: 68516

Ion	Ratio	Lower	Upper
62	100		
64	31.9	25.5	38.3

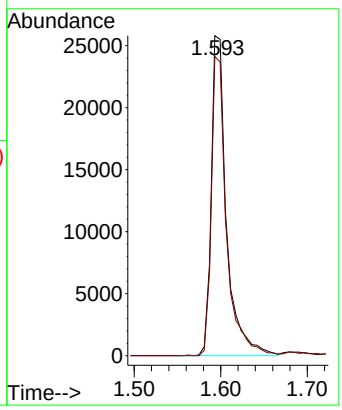




#5
Bromomethane
Concen: 49.526 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion: 94 Resp: 3158

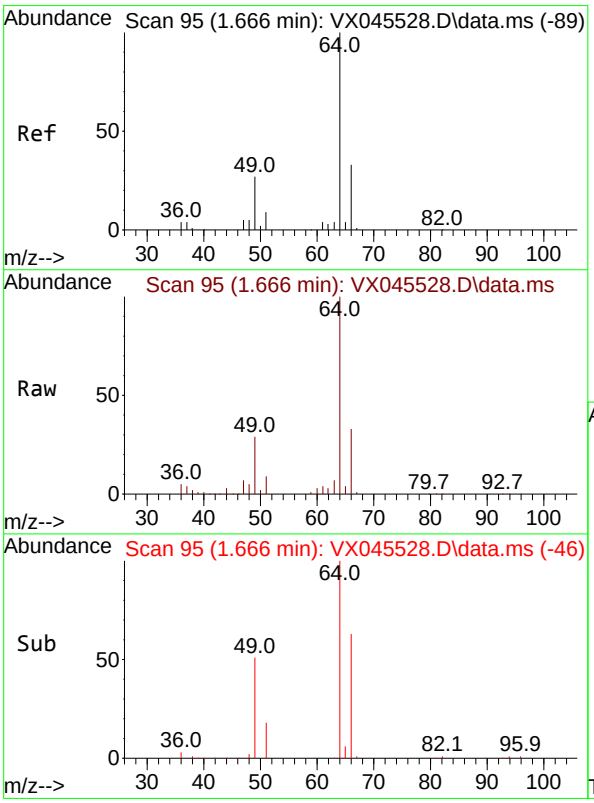
Ion	Ratio	Lower	Upper
94	100		
96	93.5	74.8	112.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

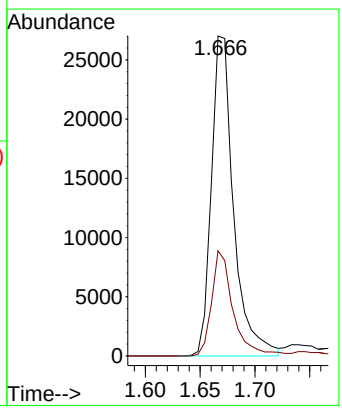
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

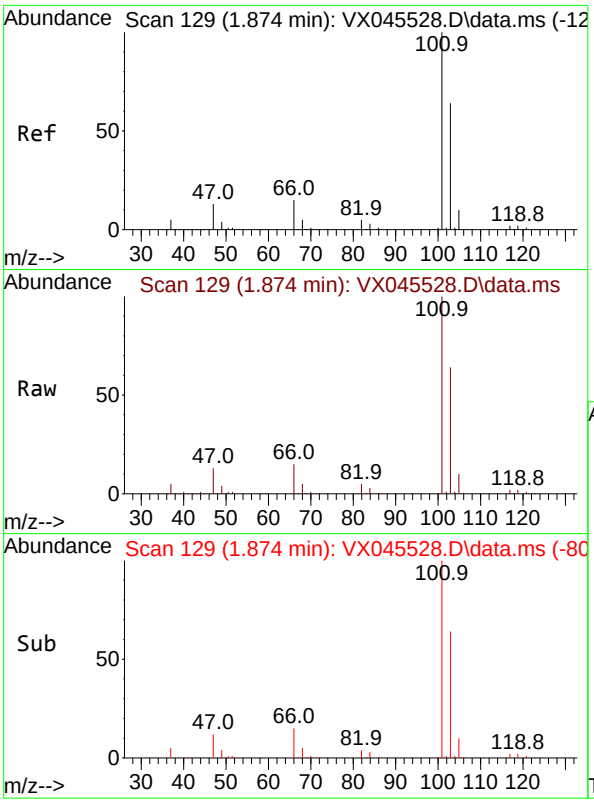


#6
Chloroethane
Concen: 53.409 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion: 64 Resp: 38112

Ion	Ratio	Lower	Upper
64	100		
66	32.9	26.3	39.5

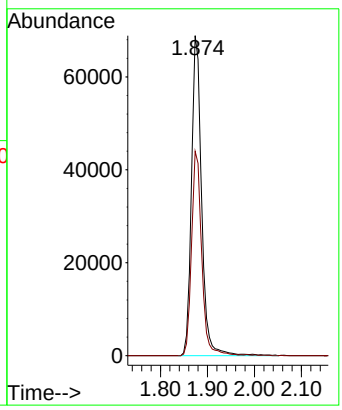




#7
Trichlorofluoromethane
Concen: 51.798 ug/l
RT: 1.874 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion:101 Resp: 10388

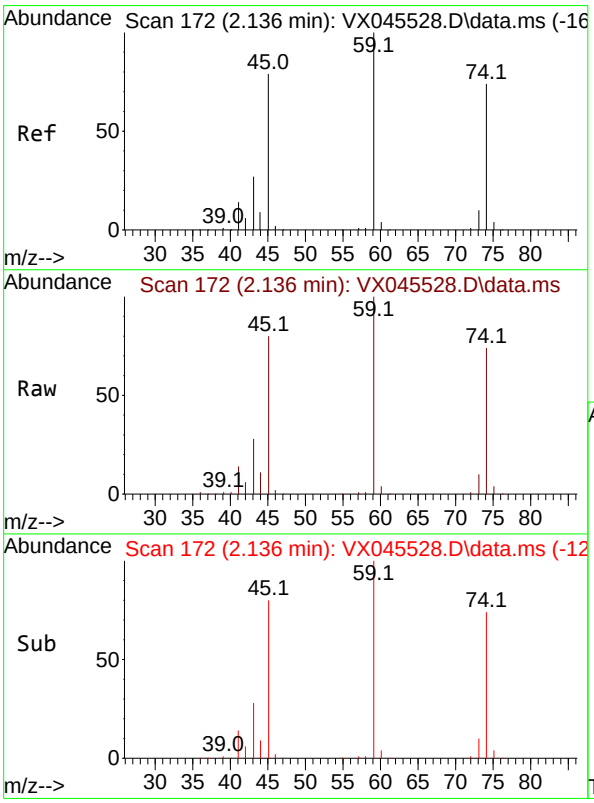
Ion	Ratio	Lower	Upper
101	100		
103	63.9	51.1	76.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

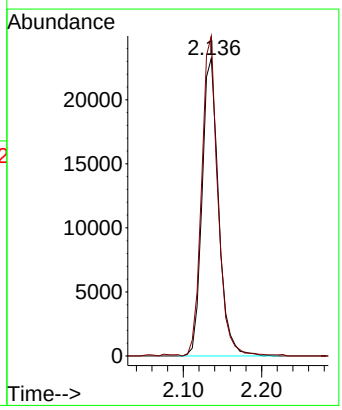
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

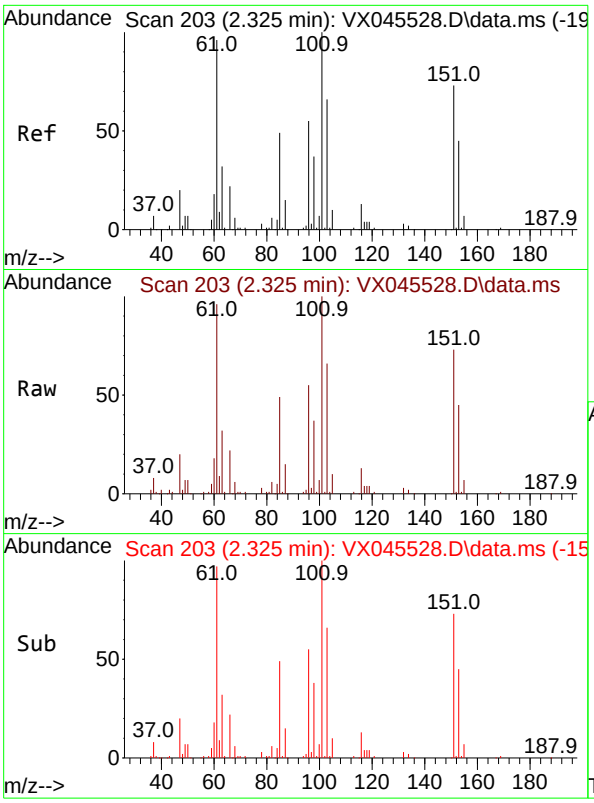


#8
Diethyl Ether
Concen: 50.424 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion: 74 Resp: 33953

Ion	Ratio	Lower	Upper
74	100		
45	106.1	53.0	159.1

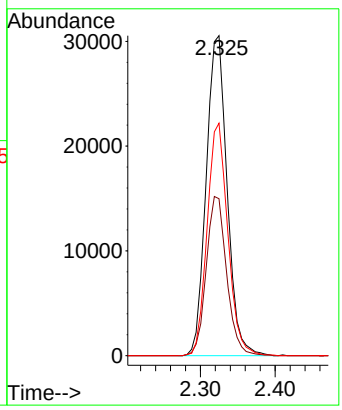




#9
1,1,2-Trichlorotrifluoroethane
Concen: 50.569 ug/l
RT: 2.325 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion:101 Resp: 5943

Ion	Ratio	Lower	Upper
101	100		
85	48.6	38.9	58.3
151	71.9	57.5	86.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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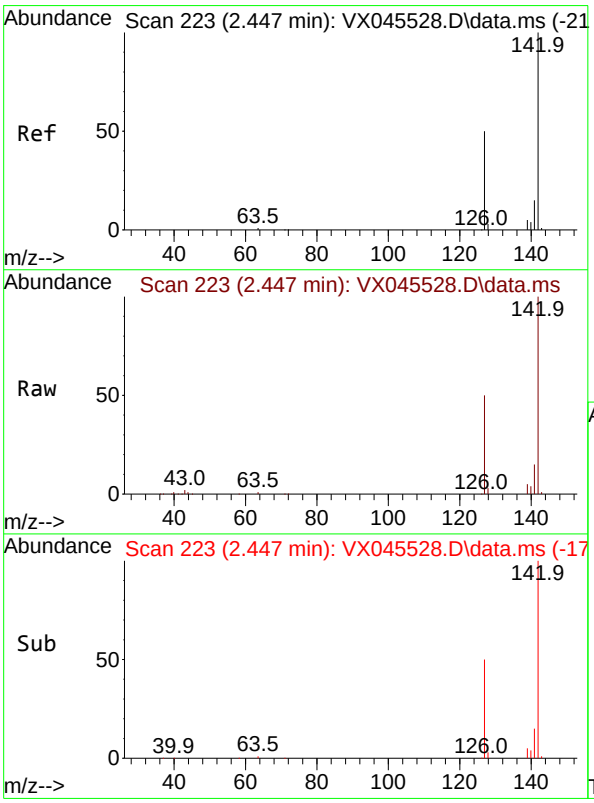
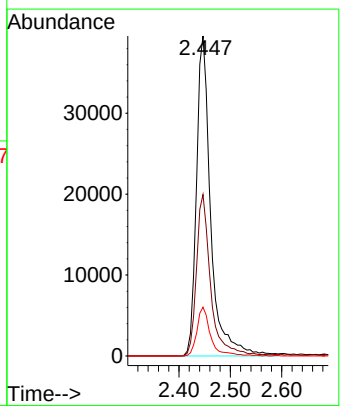
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

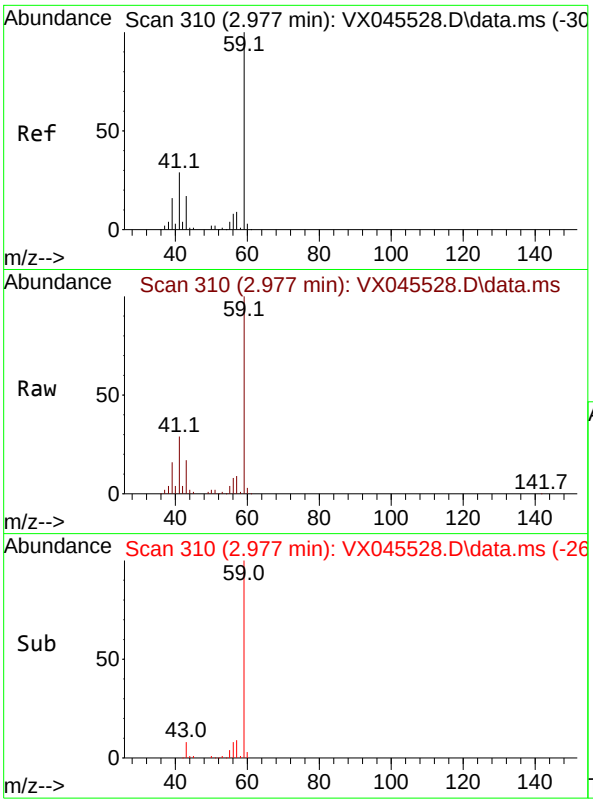


#10
Methyl Iodide
Concen: 52.121 ug/l
RT: 2.447 min Scan# 223
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion:142 Resp: 76404

Ion	Ratio	Lower	Upper
142	100		
127	50.3	40.2	60.4
141	14.6	11.7	17.5

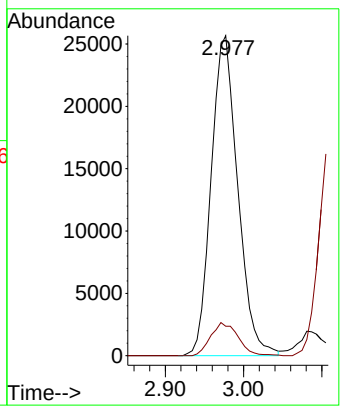




#11
Tert butyl alcohol
Concen: 257.809 ug/l
RT: 2.977 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion: 59 Resp: 6061

Ion	Ratio	Lower	Upper
59	100		
57	10.7	8.6	12.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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Reviewed By :Amit Patel 04/02/2025
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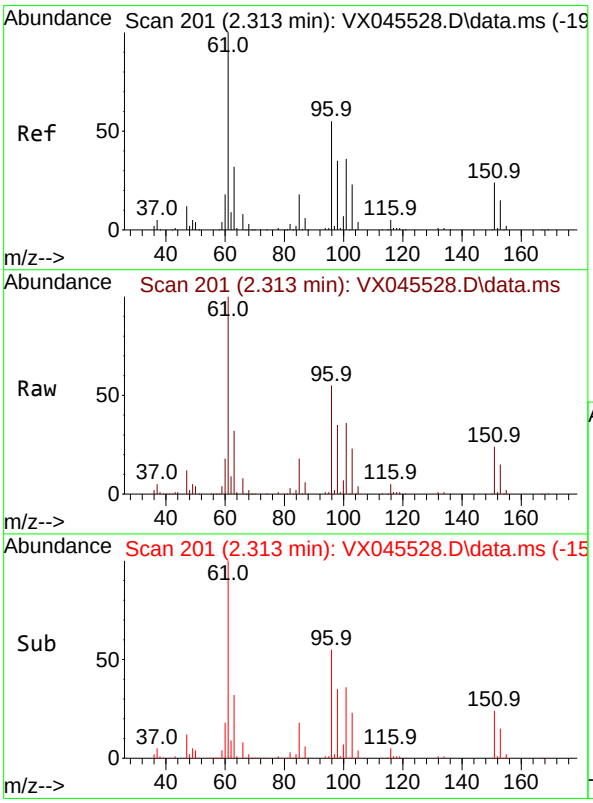
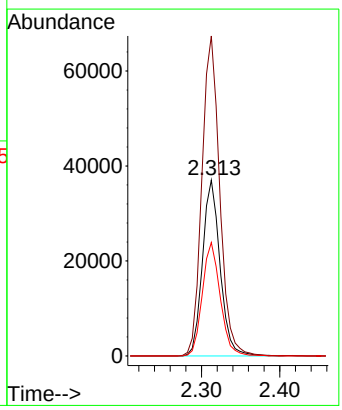
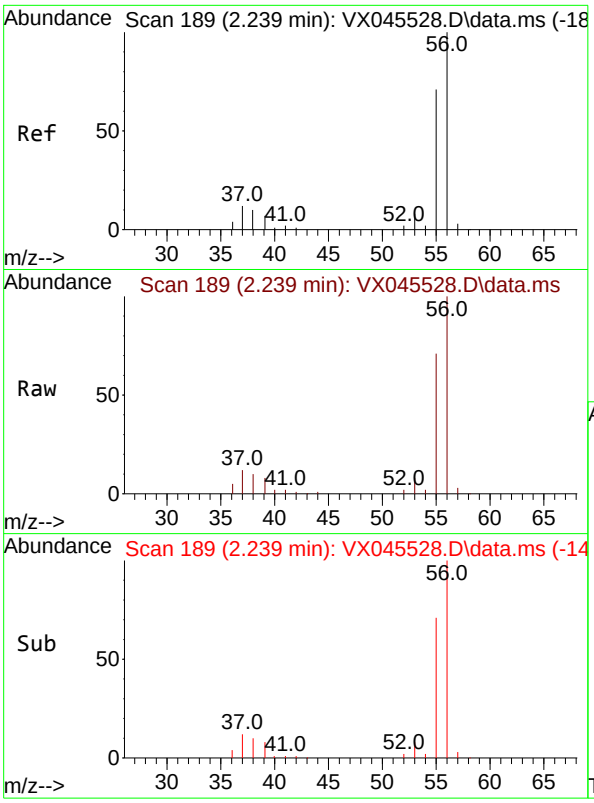


#12
1,1-Dichloroethene
Concen: 50.278 ug/l
RT: 2.313 min Scan# 201
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion: 96 Resp: 57738

Ion	Ratio	Lower	Upper
96	100		
61	182.1	145.7	218.5
98	64.5	51.6	77.4

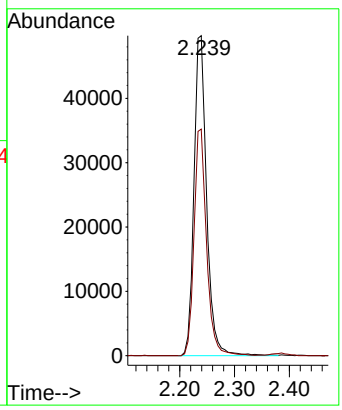




#13
Acrolein
Concen: 247.074 ug/l
RT: 2.239 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion: 56 Resp: 7998

Ion	Ratio	Lower	Upper
56	100		
55	70.2	56.2	84.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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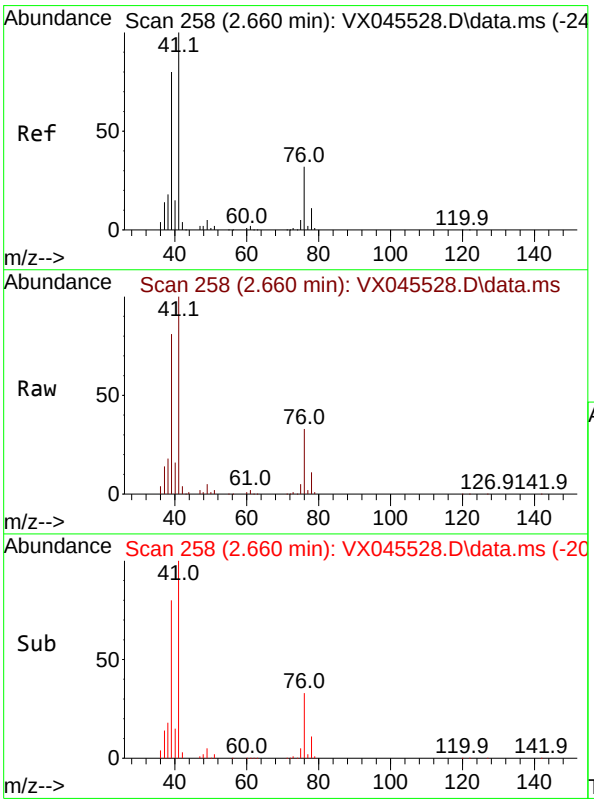
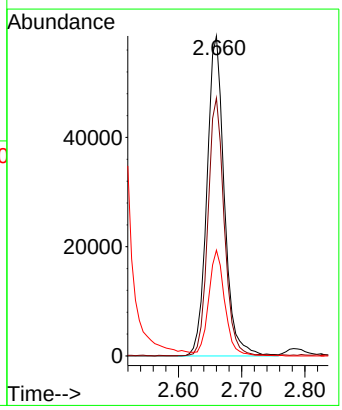
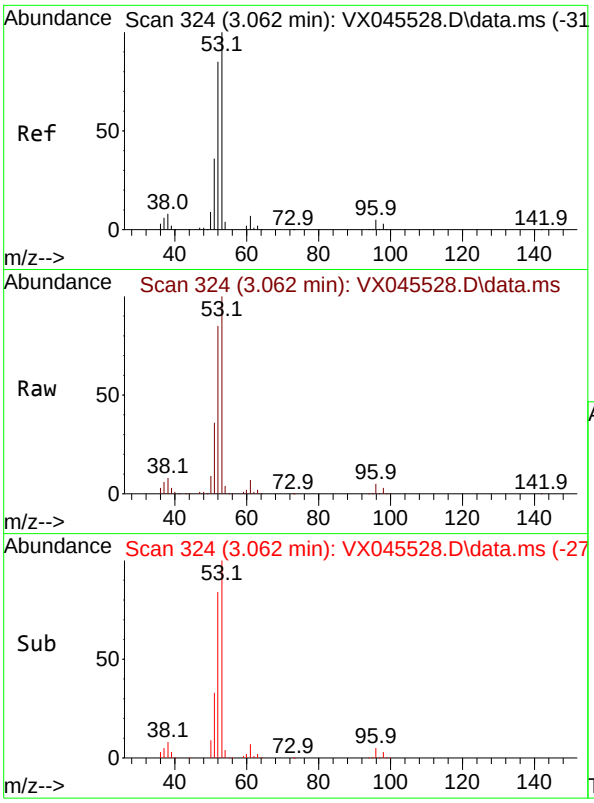


#14
Allyl chloride
Concen: 51.441 ug/l
RT: 2.660 min Scan# 258
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion: 41 Resp: 112085

Ion	Ratio	Lower	Upper
41	100		
39	75.2	60.2	90.2
76	30.7	24.6	36.8

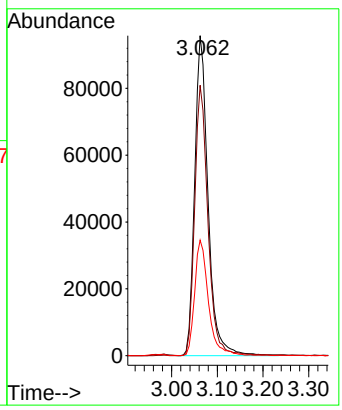




#15
Acrylonitrile
Concen: 262.015 ug/l
RT: 3.062 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion: 53 Resp: 19444

Ion	Ratio	Lower	Upper
53	100		
52	84.3	67.4	101.2
51	37.4	29.9	44.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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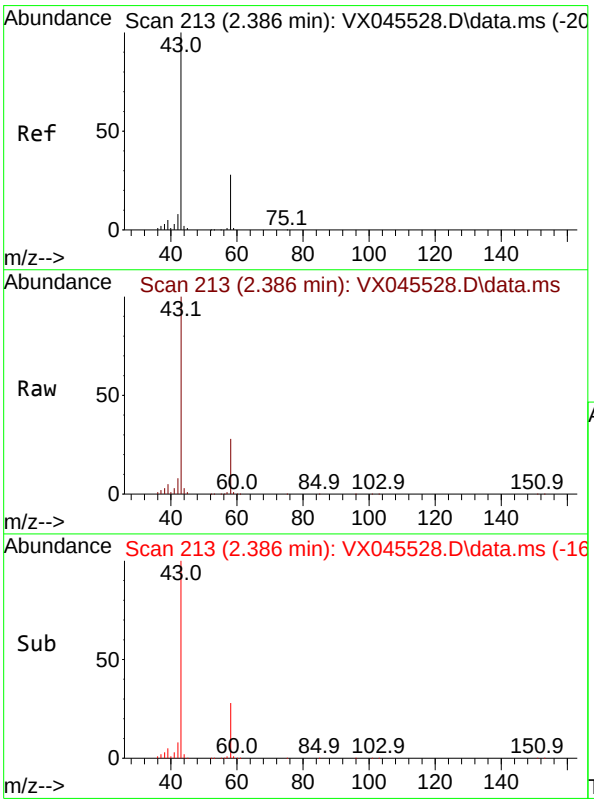
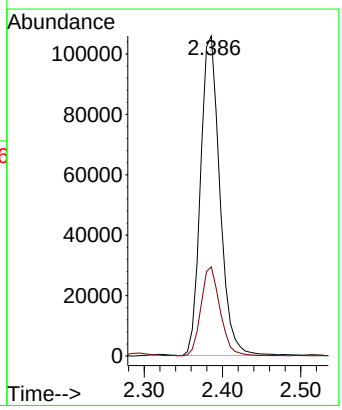
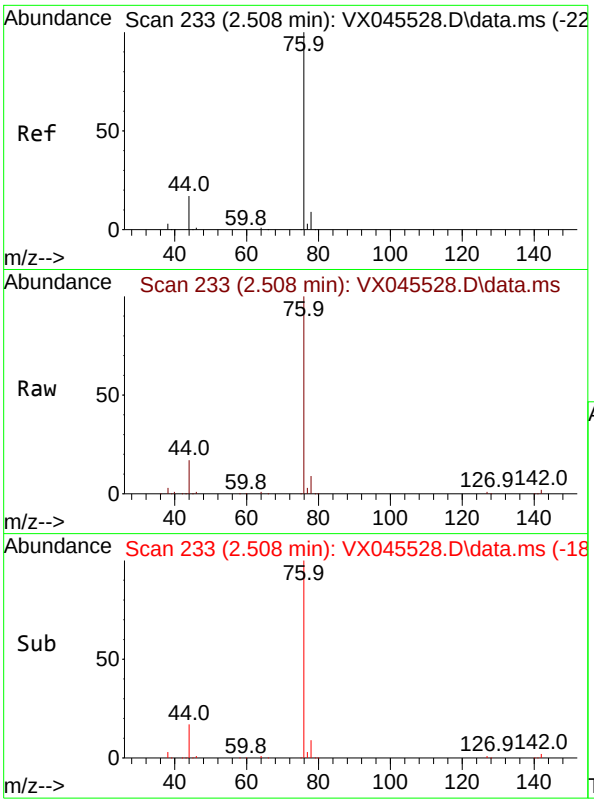


#16
Acetone
Concen: 251.366 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion: 43 Resp: 180563

Ion	Ratio	Lower	Upper
43	100		
58	27.9	22.3	33.5





#17
Carbon Disulfide
Concen: 52.393 ug/l
RT: 2.508 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion: 76 Resp: 14860

Ion	Ratio	Lower	Upper
76	100		
78	8.8	7.0	10.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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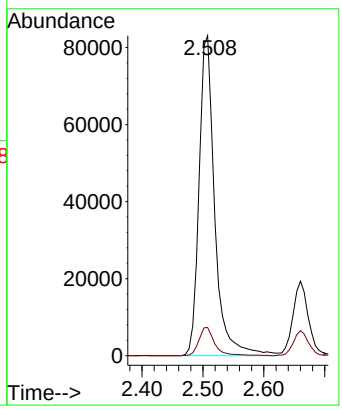
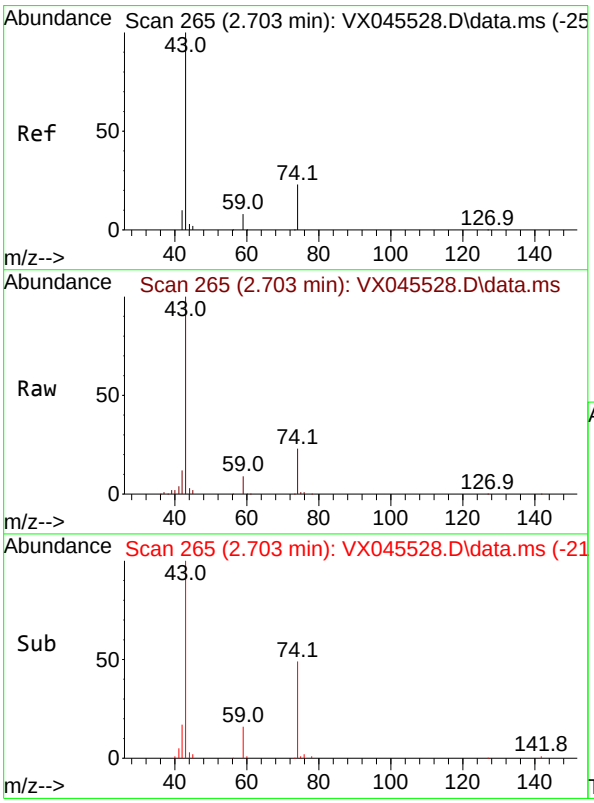
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

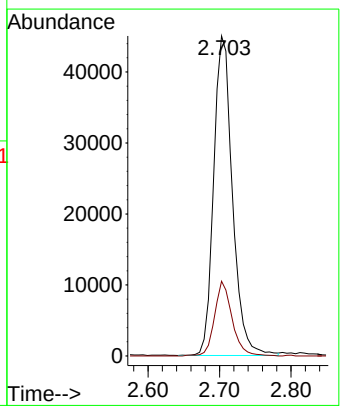


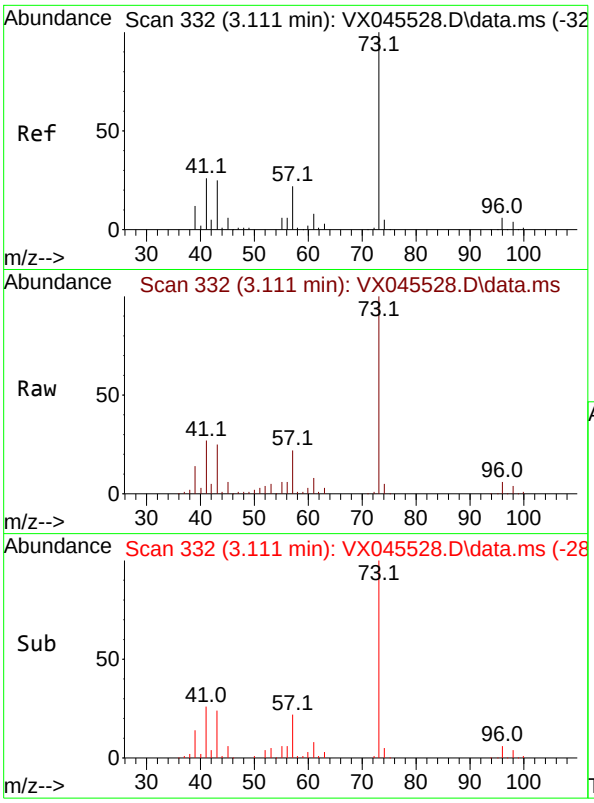


#18
Methyl Acetate
Concen: 49.581 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion: 43 Resp: 82000

Ion	Ratio	Lower	Upper
43	100		
74	21.9	17.5	26.3

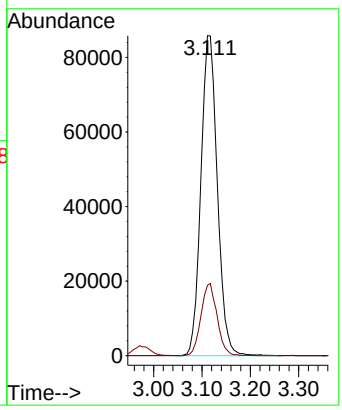




#19
Methyl tert-butyl Ether
Concen: 50.429 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion: 73 Resp: 20258

Ion	Ratio	Lower	Upper
73	100		
57	22.0	17.6	26.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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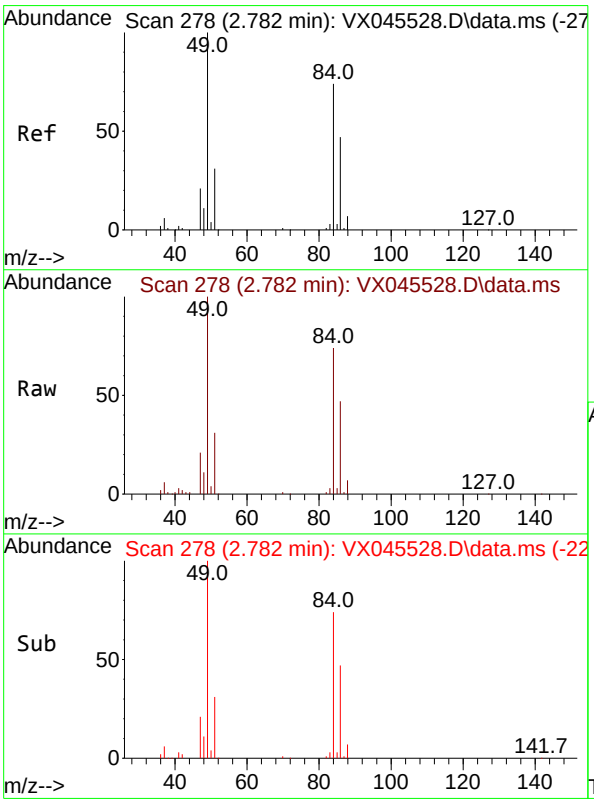
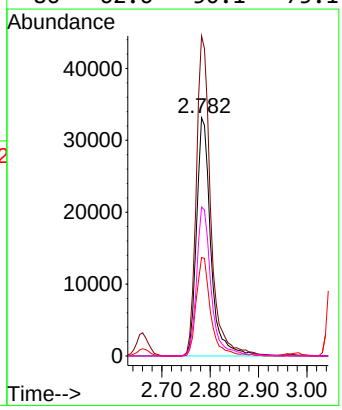
Supervised By :Mahesh Dadoda 04/02/2025

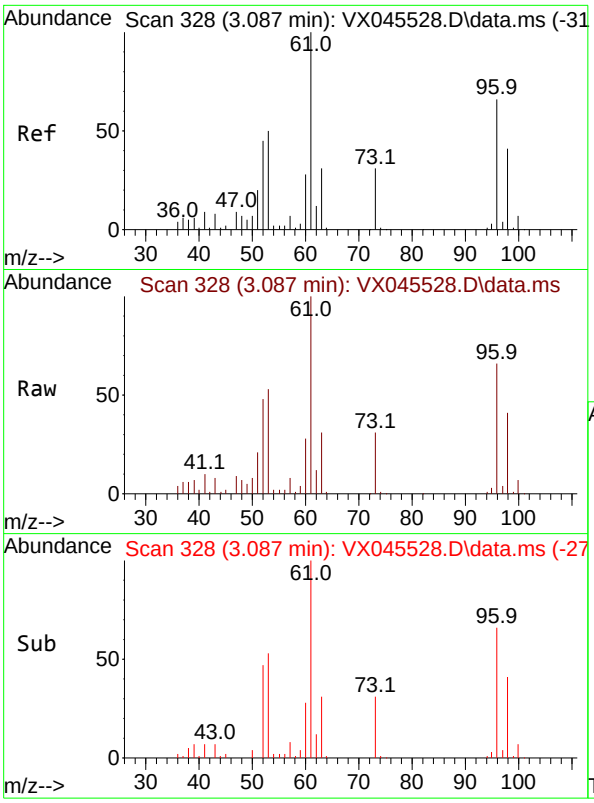


#20
Methylene Chloride
Concen: 50.457 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion: 84 Resp: 67855

Ion	Ratio	Lower	Upper
84	100		
49	134.4	107.5	161.3
51	41.3	33.0	49.6
86	62.6	50.1	75.1

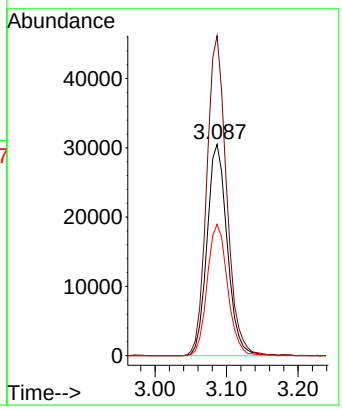




#21
trans-1,2-Dichloroethene
Concen: 50.882 ug/l
RT: 3.087 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion: 96 Resp: 5969

Ion	Ratio	Lower	Upper
96	100		
61	151.3	121.0	181.6
98	62.1	49.7	74.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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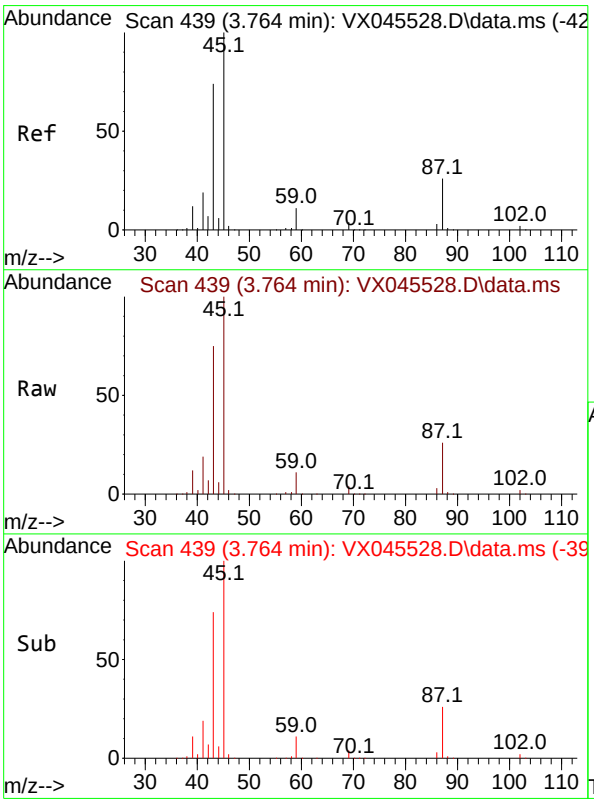
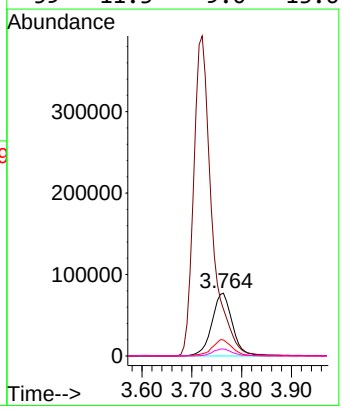
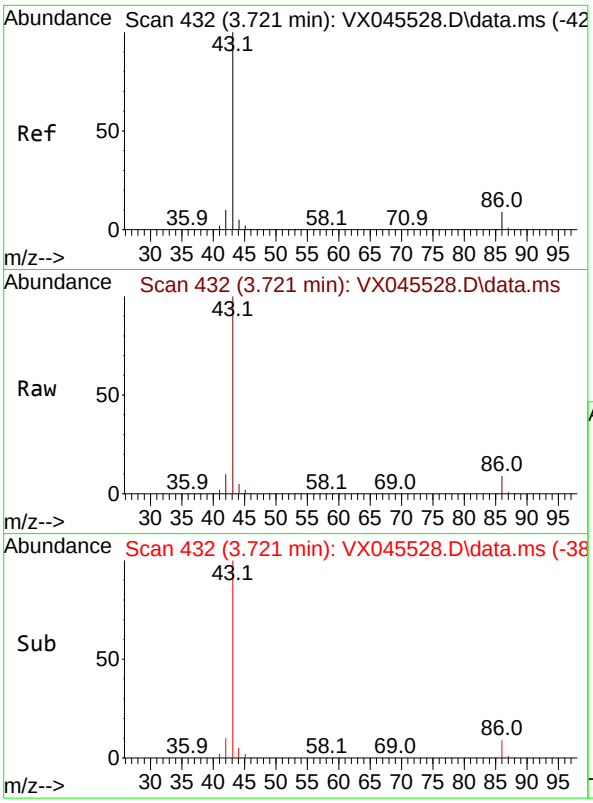


#22
Diisopropyl ether
Concen: 51.111 ug/l
RT: 3.764 min Scan# 439
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion: 45 Resp: 219374

Ion	Ratio	Lower	Upper
45	100		
43	74.1	59.3	88.9
87	25.5	20.4	30.6
59	11.3	9.0	13.6





#23
Vinyl Acetate
Concen: 269.139 ug/l
RT: 3.721 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion: 43 Resp: 99806

Ion	Ratio	Lower	Upper
43	100		
86	9.4	7.5	11.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
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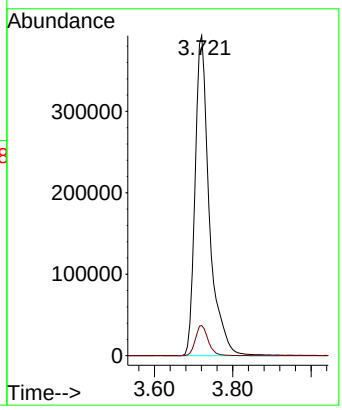
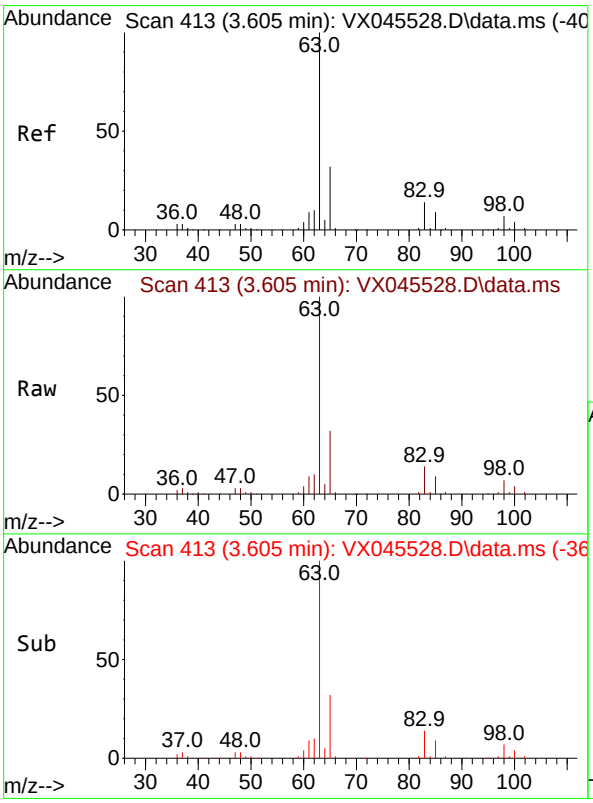
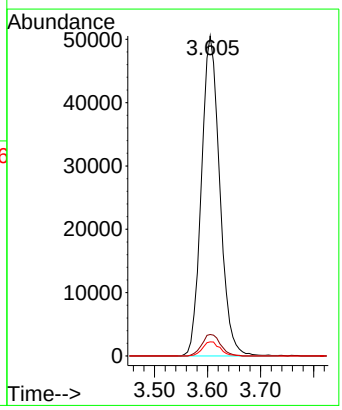


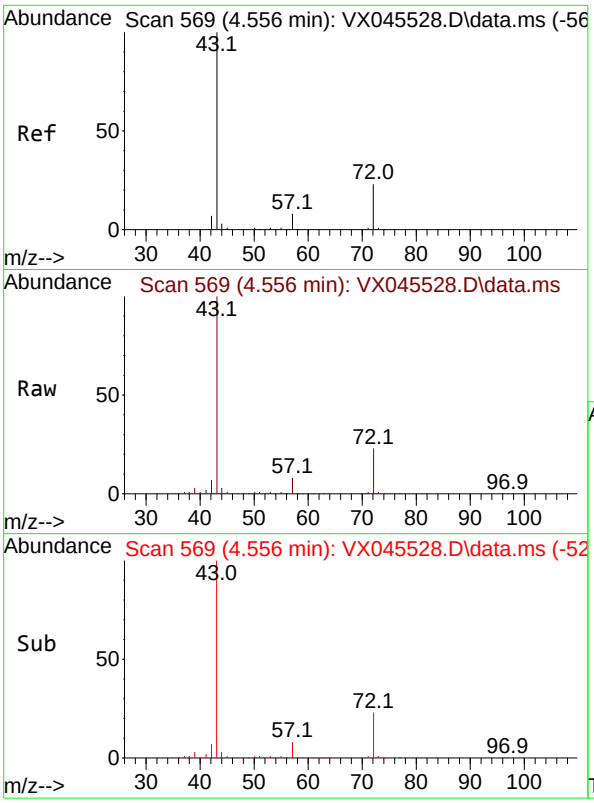


#24
1,1-Dichloroethane
Concen: 49.992 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion: 63 Resp: 121348

Ion	Ratio	Lower	Upper
63	100		
98	6.7	3.4	10.1
100	4.4	2.2	6.6

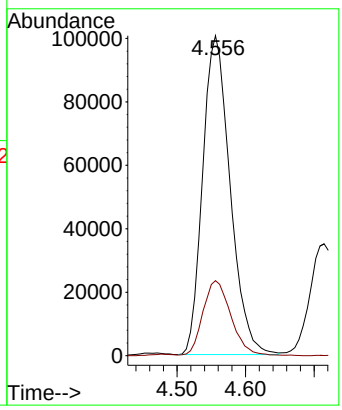




#25
2-Butanone
Concen: 266.363 ug/l
RT: 4.556 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion: 43 Resp: 28007

Ion	Ratio	Lower	Upper
43	100		
72	23.3	18.6	28.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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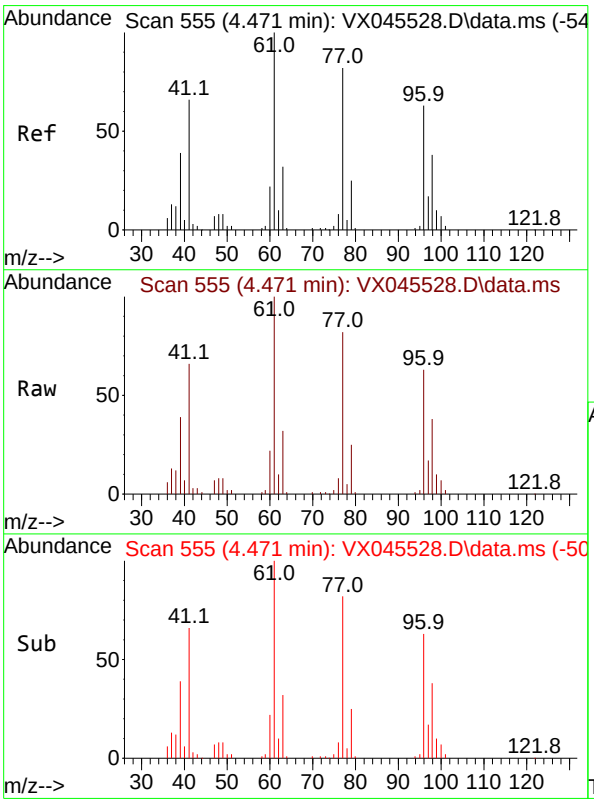
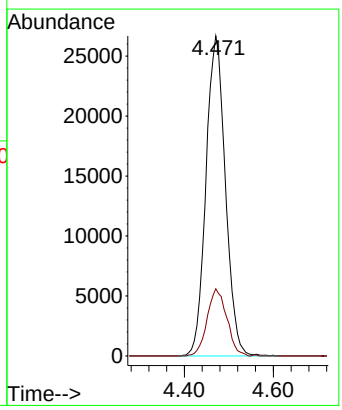
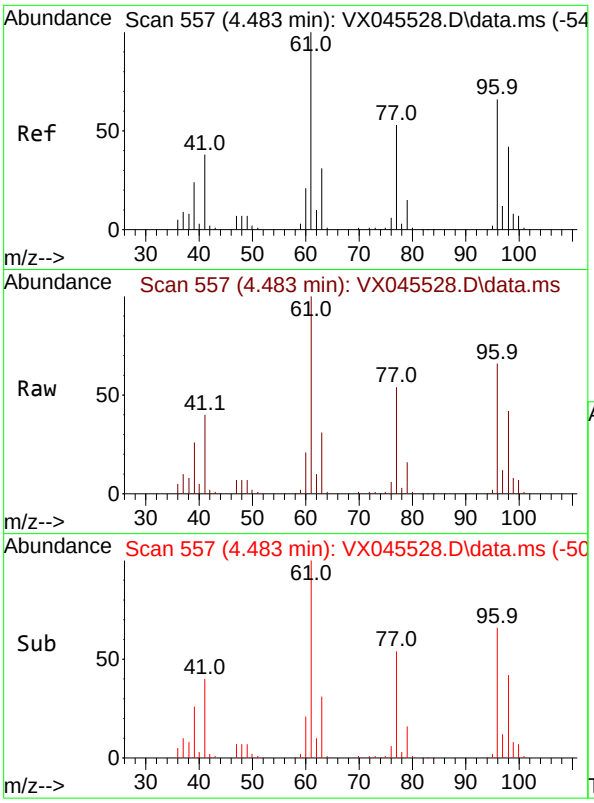


#26
2,2-Dichloropropane
Concen: 51.683 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion: 77 Resp: 81054

Ion	Ratio	Lower	Upper
77	100		
97	21.2	10.6	31.8

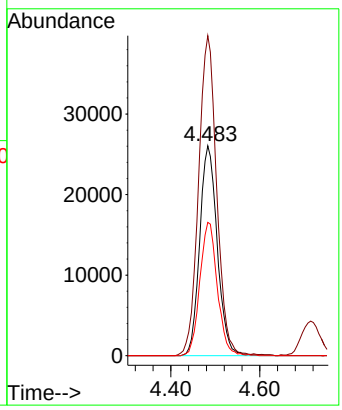




#27
cis-1,2-Dichloroethene
Concen: 50.282 ug/l
RT: 4.483 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion: 96 Resp: 7187

Ion	Ratio	Lower	Upper
96	100		
61	156.6	0.0	313.2
98	63.2	0.0	126.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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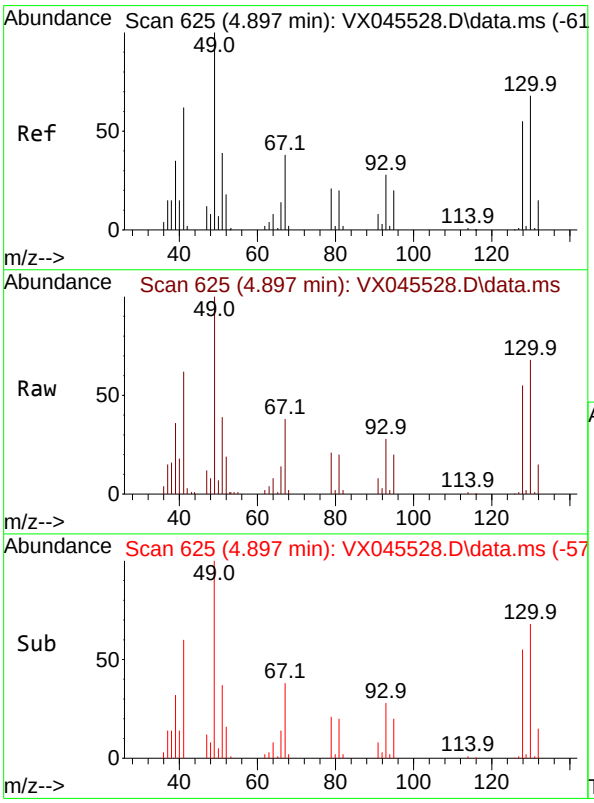
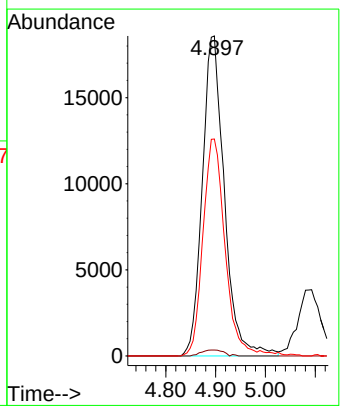
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

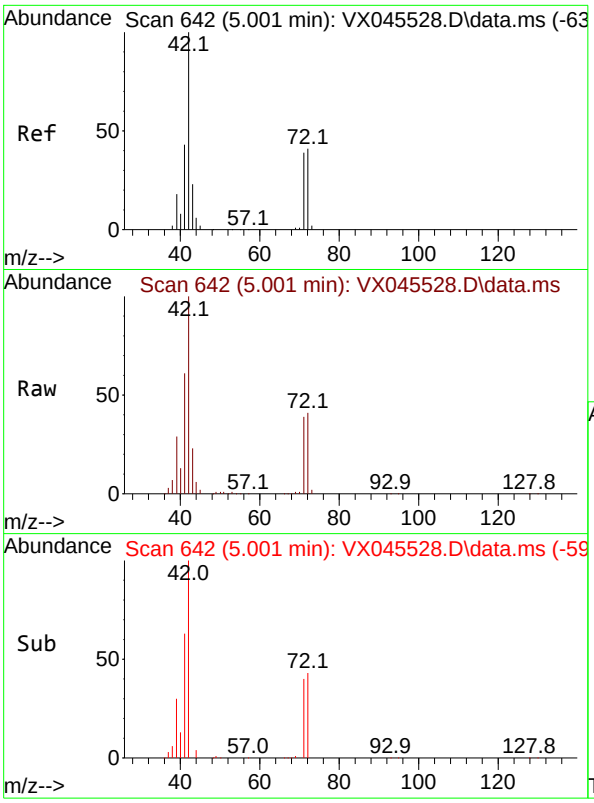


#28
Bromochloromethane
Concen: 48.632 ug/l
RT: 4.897 min Scan# 625
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion: 49 Resp: 57046

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	3.8
130	68.2	54.6	81.8





#29
Tetrahydrofuran
Concen: 260.230 ug/l
RT: 5.001 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion: 42 Resp: 17740

Ion	Ratio	Lower	Upper
42	100		
72	41.7	33.4	50.0
71	39.2	31.4	47.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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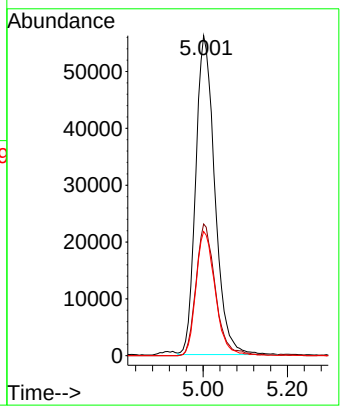
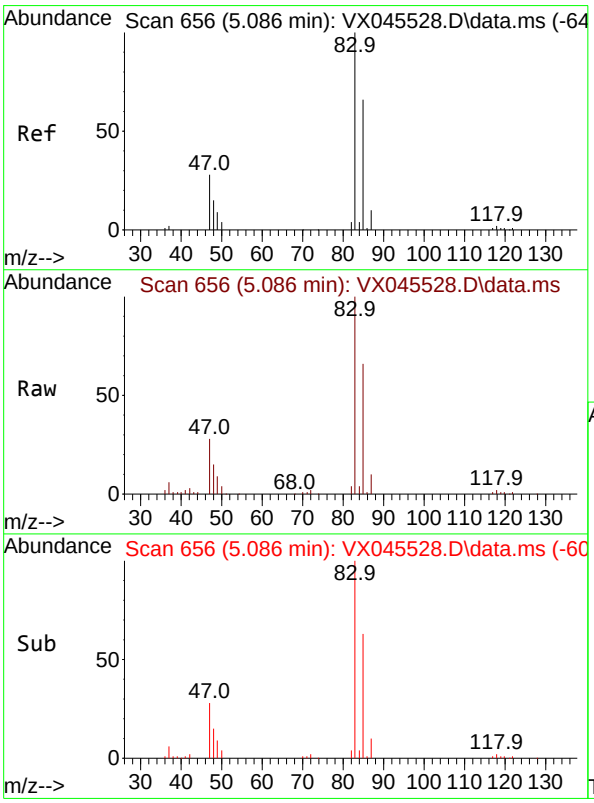
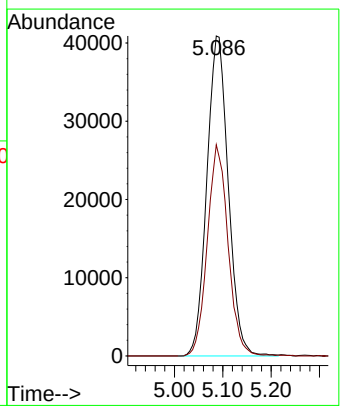


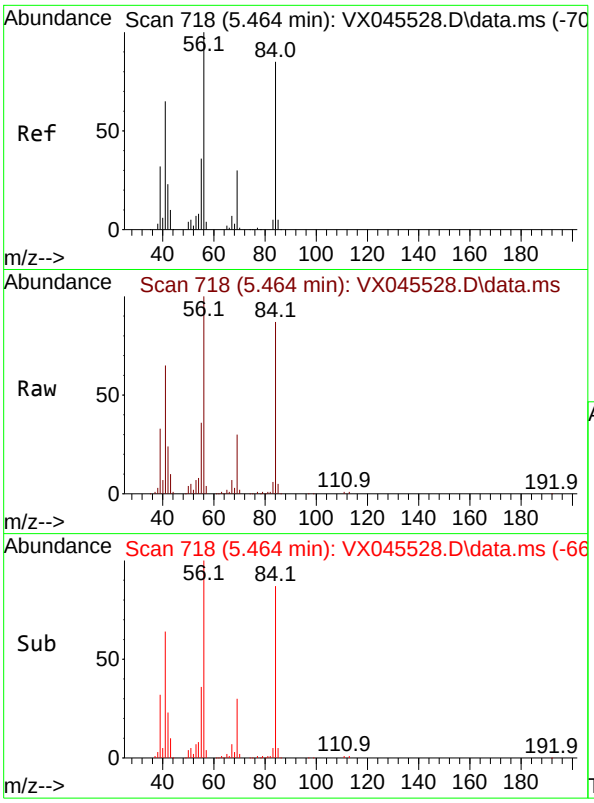


#30
Chloroform
Concen: 50.366 ug/l
RT: 5.086 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion: 83 Resp: 125797

Ion	Ratio	Lower	Upper
83	100		
85	66.0	52.8	79.2

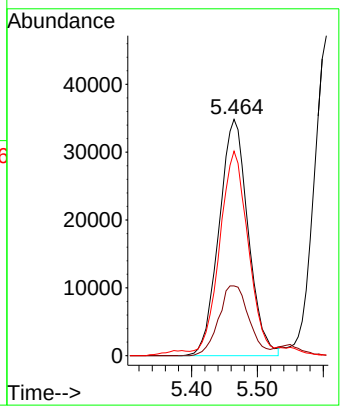




#31
Cyclohexane
Concen: 50.052 ug/l
RT: 5.464 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion: 56 Resp: 10740

Ion	Ratio	Lower	Upper
56	100		
69	29.5	23.6	35.4
84	84.6	67.7	101.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
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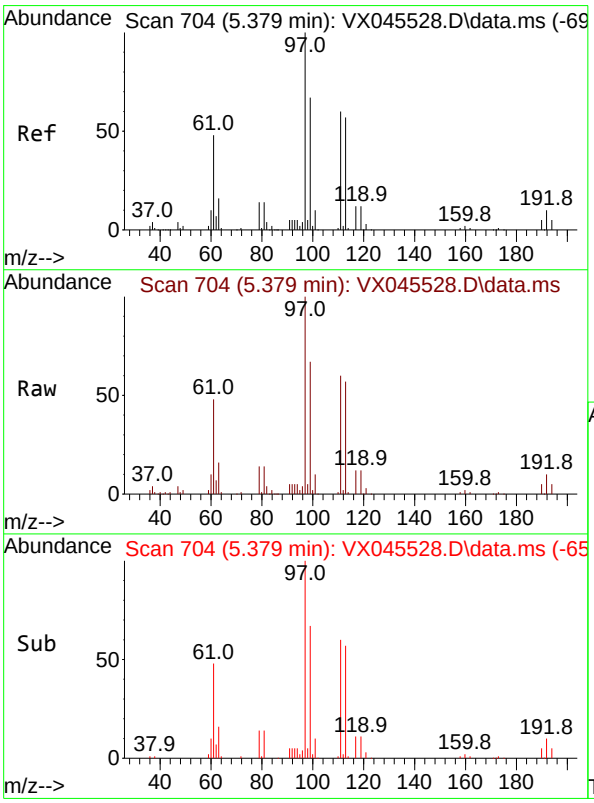
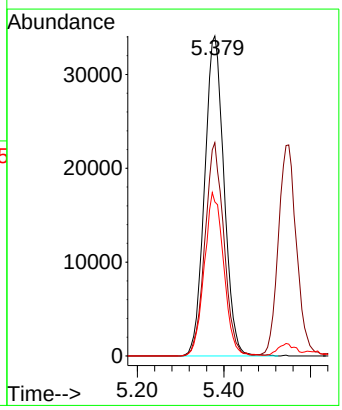
Supervised By :Mahesh Dadoda 04/02/2025

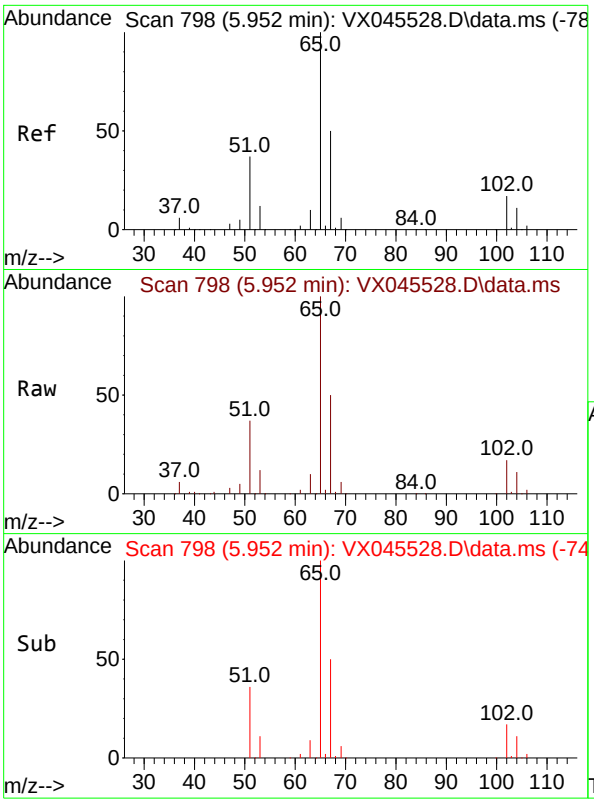


#32
1,1,1-Trichloroethane
Concen: 50.184 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion: 97 Resp: 106062

Ion	Ratio	Lower	Upper
97	100		
99	64.6	51.7	77.5
61	51.2	41.0	61.4

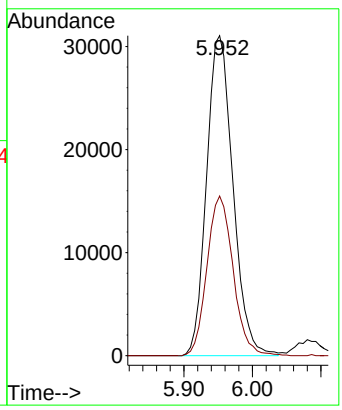




#33
1,2-Dichloroethane-d4
Concen: 47.477 ug/l
RT: 5.952 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion: 65 Resp: 8305

Ion	Ratio	Lower	Upper
65	100		
67	49.5	0.0	99.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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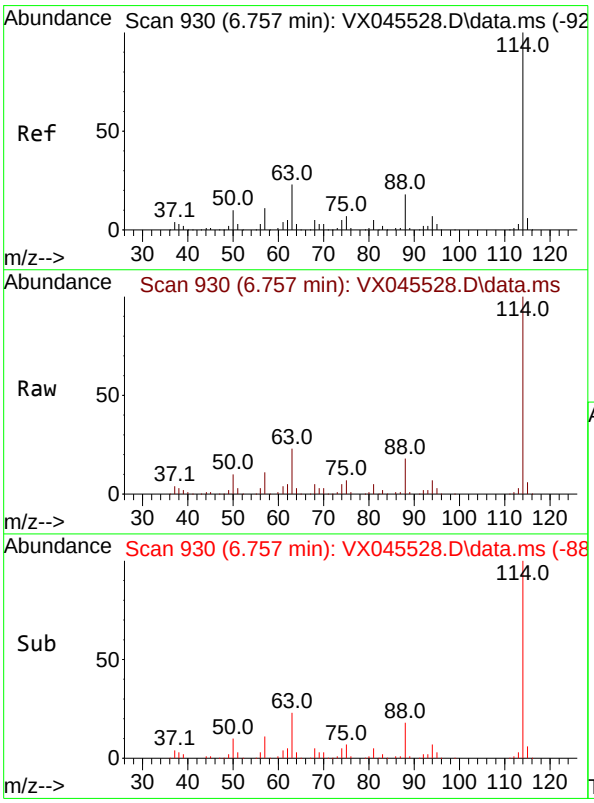
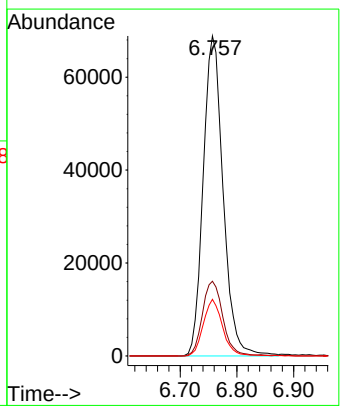
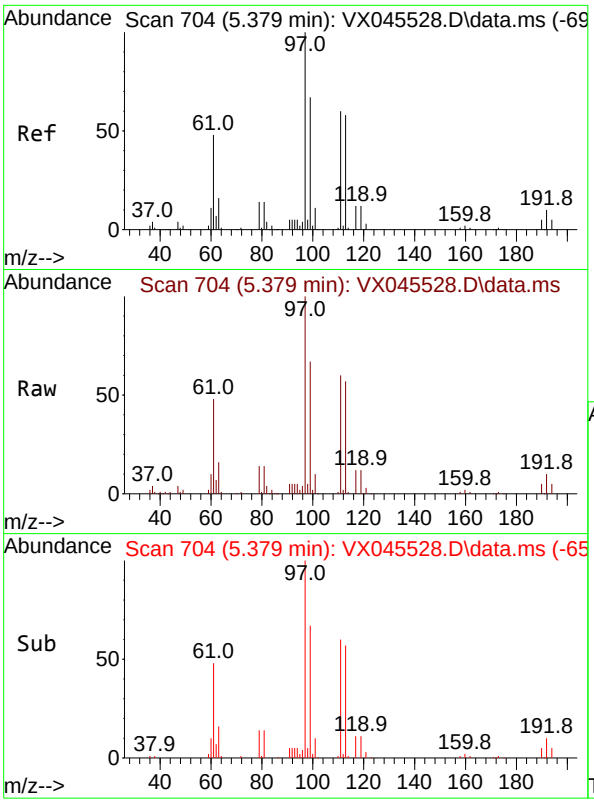


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion:114 Resp: 168287

Ion	Ratio	Lower	Upper
114	100		
63	23.4	0.0	46.8
88	17.7	0.0	35.4

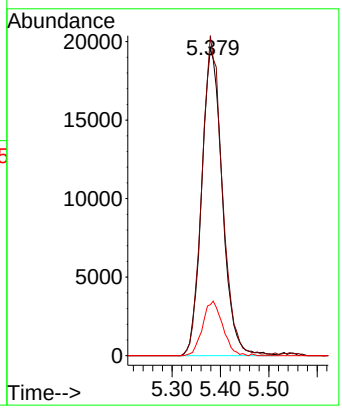




#35
Dibromofluoromethane
Concen: 48.667 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion:113 Resp: 5810

Ion	Ratio	Lower	Upper
113	100		
111	102.2	81.8	122.6
192	17.2	13.8	20.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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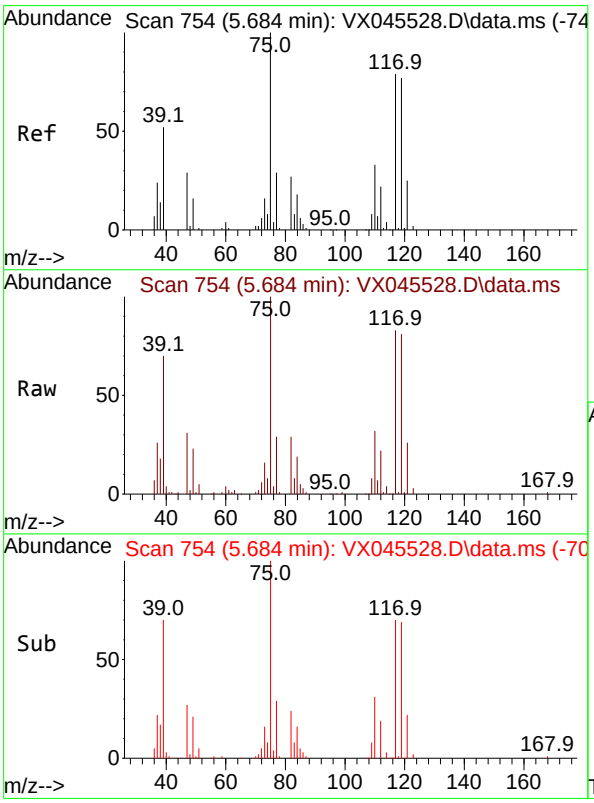
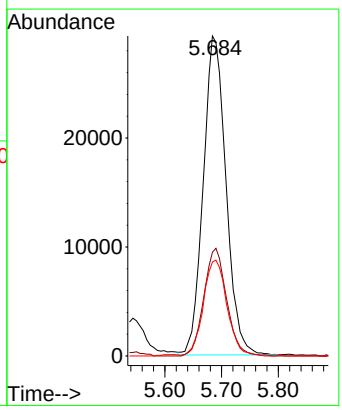
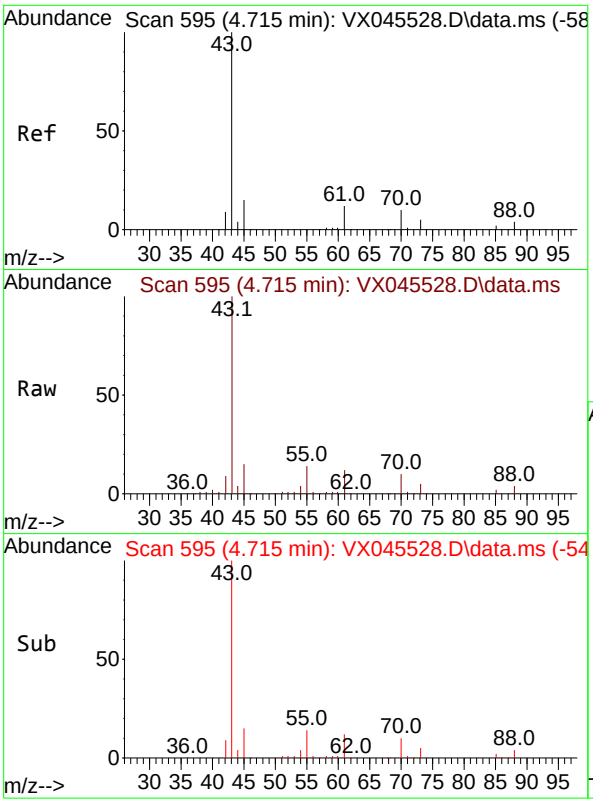


#36
1,1-Dichloropropene
Concen: 50.620 ug/l
RT: 5.684 min Scan# 754
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion: 75 Resp: 81607

Ion	Ratio	Lower	Upper
75	100		
110	33.7	16.9	50.6
77	31.2	25.0	37.4

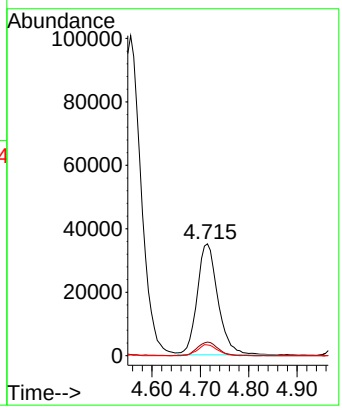




#37
Ethyl Acetate
Concen: 51.632 ug/l
RT: 4.715 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion: 43 Resp: 10489

Ion	Ratio	Lower	Upper
43	100		
61	12.4	9.9	14.9
70	9.4	7.5	11.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
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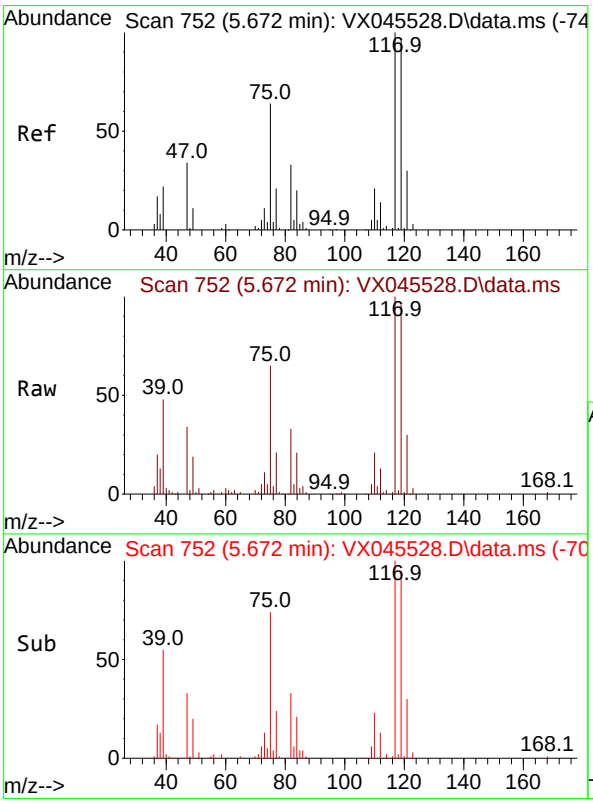
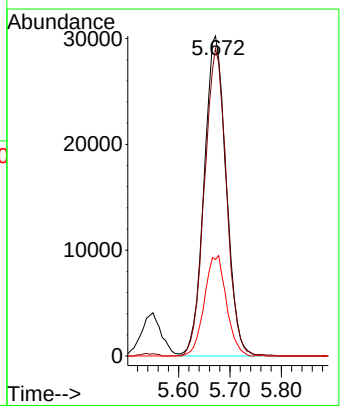
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

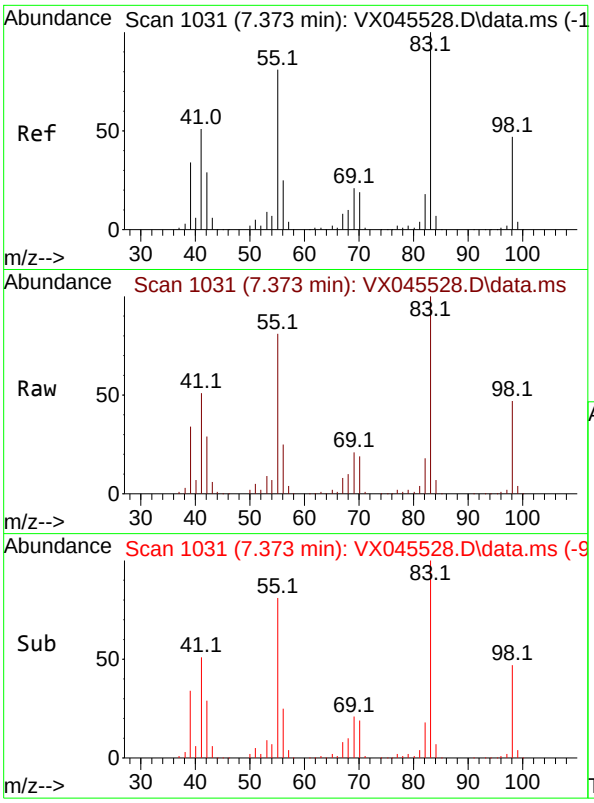


#38
Carbon Tetrachloride
Concen: 51.797 ug/l
RT: 5.672 min Scan# 752
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion:117 Resp: 90247

Ion	Ratio	Lower	Upper
117	100		
119	96.1	76.9	115.3
121	30.2	24.2	36.2

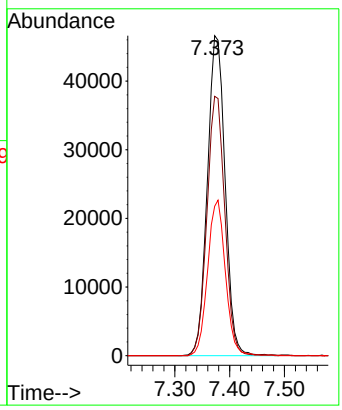




#39
Methylcyclohexane
Concen: 52.970 ug/l
RT: 7.373 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion: 83 Resp: 10467

Ion	Ratio	Lower	Upper
83	100		
55	81.1	64.9	97.3
98	46.7	37.4	56.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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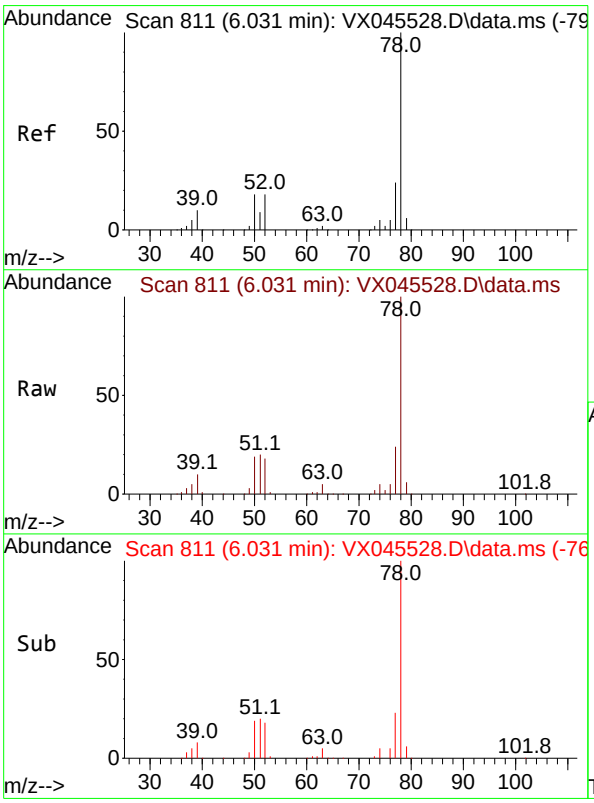
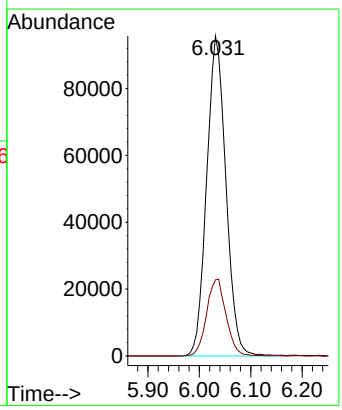
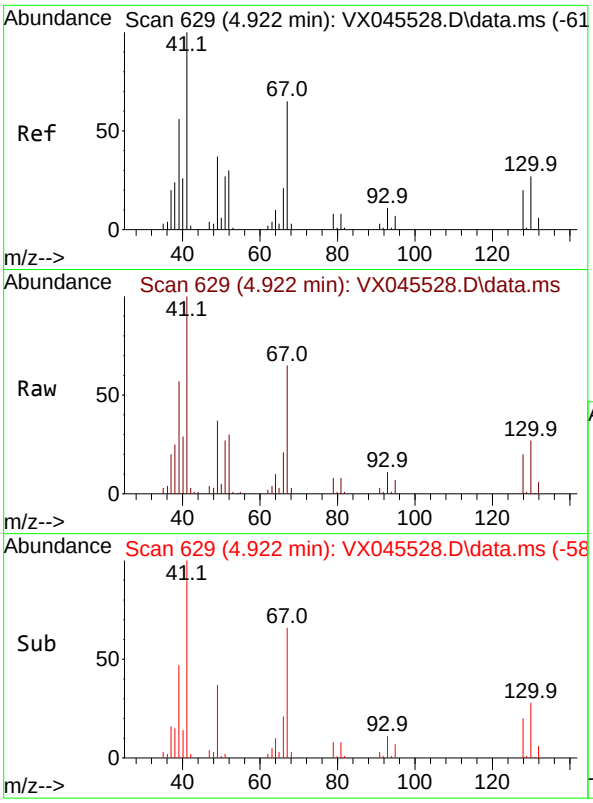


#40
Benzene
Concen: 50.605 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion: 78 Resp: 249161

Ion	Ratio	Lower	Upper
78	100		
77	23.8	19.0	28.6

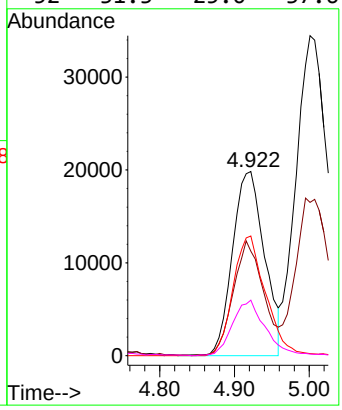




#41
Methacrylonitrile
Concen: 54.623 ug/l
RT: 4.922 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion: 41 Resp: 5906

Ion	Ratio	Lower	Upper
41	100		
39	58.8	47.0	70.6
67	66.5	53.2	79.8
52	31.3	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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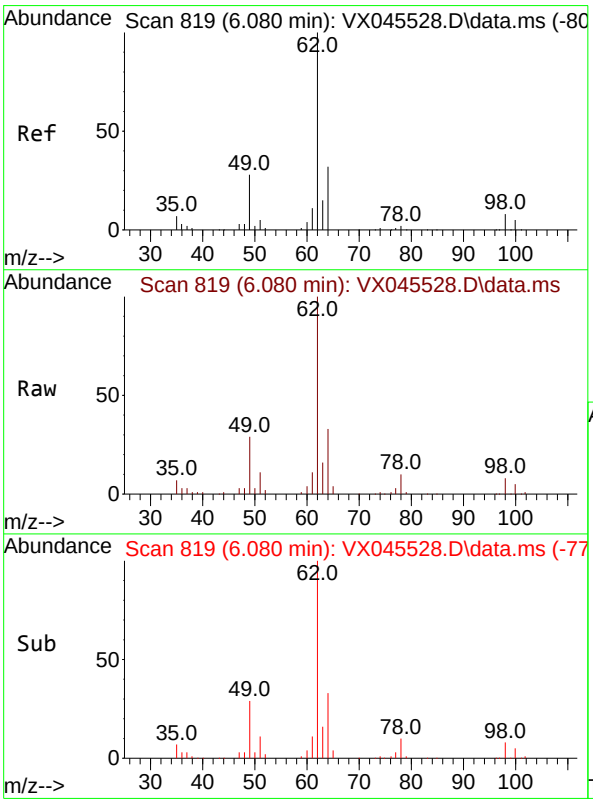
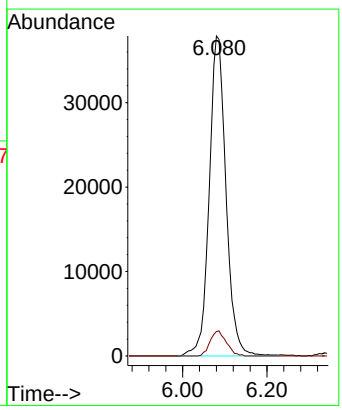
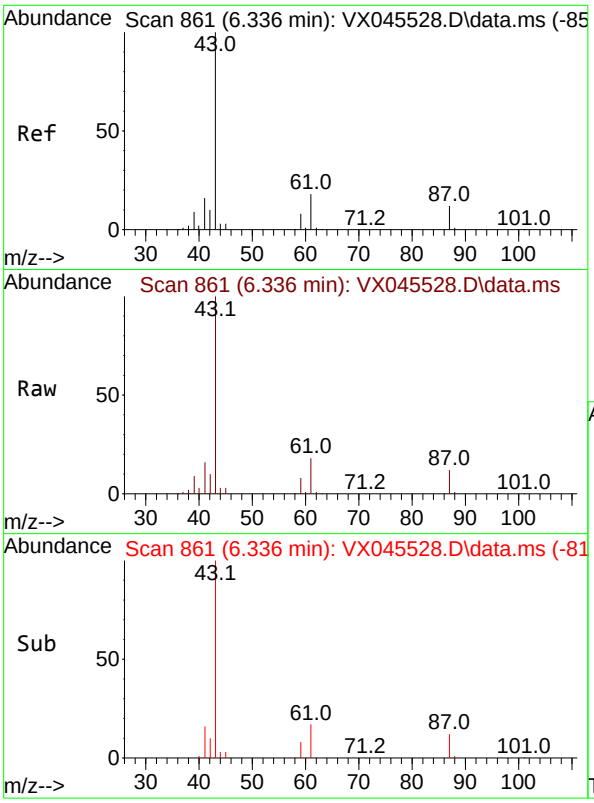


#42
1,2-Dichloroethane
Concen: 51.437 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion: 62 Resp: 104601

Ion	Ratio	Lower	Upper
62	100		
98	7.6	0.0	15.2





#43
Isopropyl Acetate
Concen: 53.452 ug/l
RT: 6.336 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion: 43 Resp: 16458

Ion	Ratio	Lower	Upper
43	100		
61	17.6	14.1	21.1
87	11.5	9.2	13.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
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Reviewed By :Amit Patel 04/02/2025
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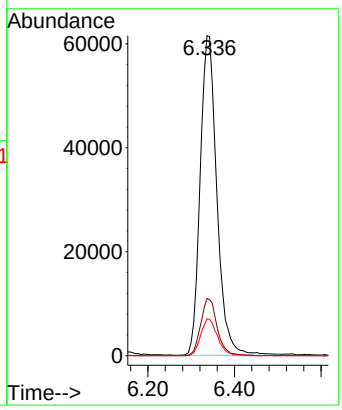
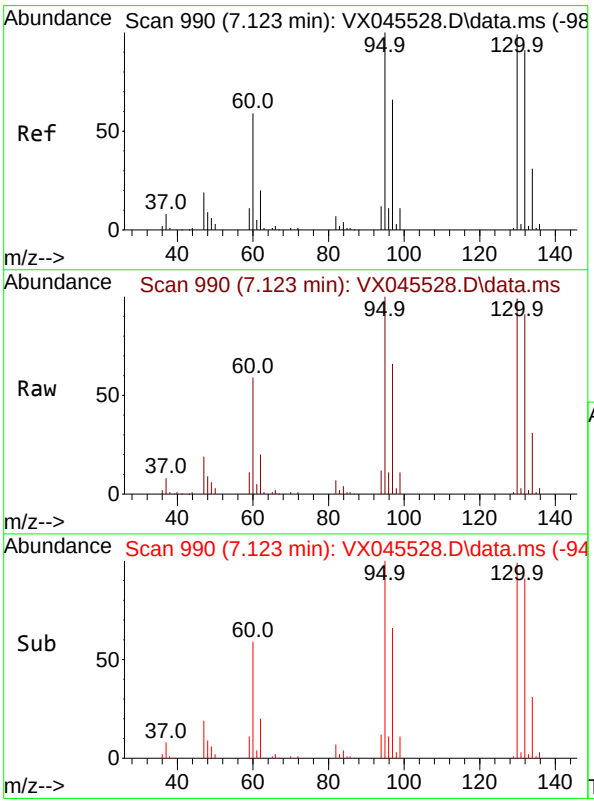
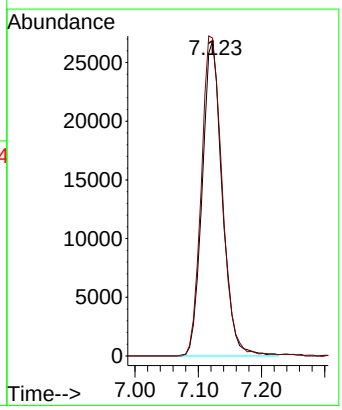


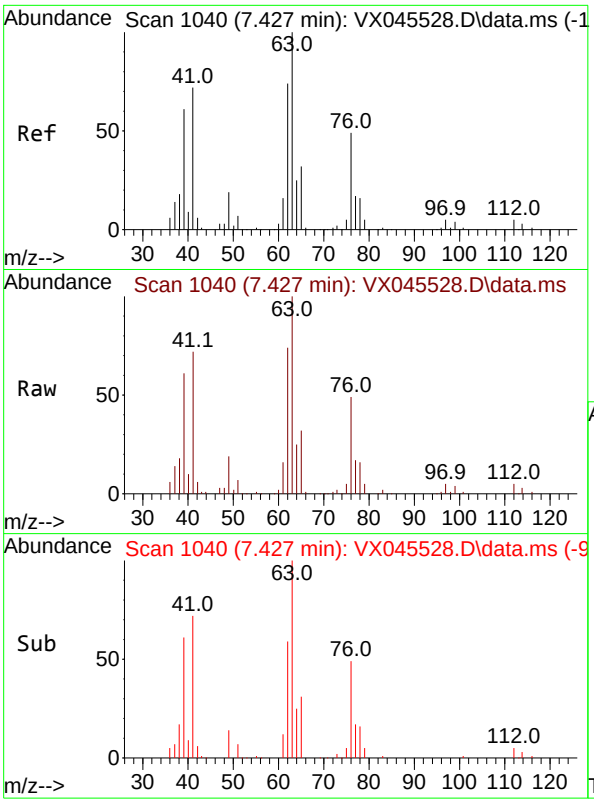


#44
Trichloroethene
Concen: 50.452 ug/l
RT: 7.123 min Scan# 990
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion:130 Resp: 59042

Ion	Ratio	Lower	Upper
130	100		
95	101.0	0.0	202.0





#45
1,2-Dichloropropane
Concen: 51.540 ug/l
RT: 7.427 min Scan# 1(
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion: 63 Resp: 6331(

Ion	Ratio	Lower	Upper
63	100		
65	32.2	25.8	38.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
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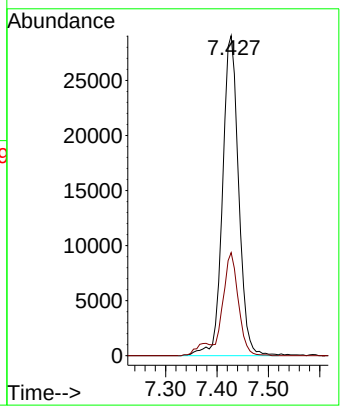
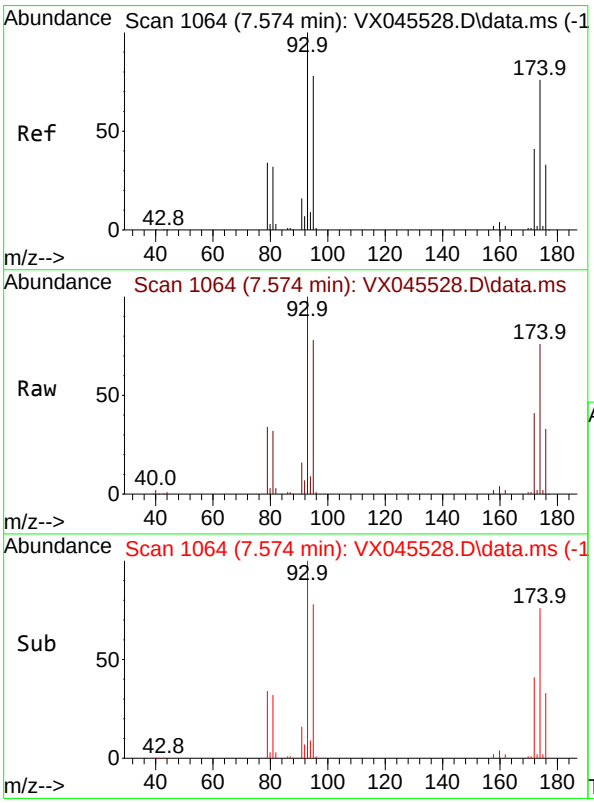
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

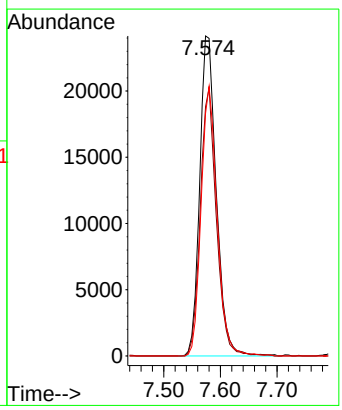


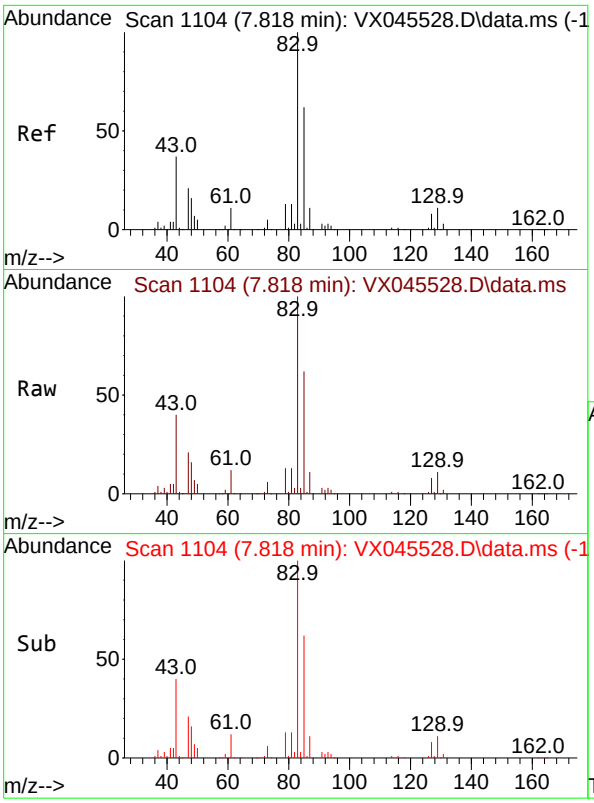


#46
Dibromomethane
Concen: 52.092 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion: 93 Resp: 49125

Ion	Ratio	Lower	Upper
93	100		
95	81.0	64.8	97.2
174	81.7	65.4	98.0

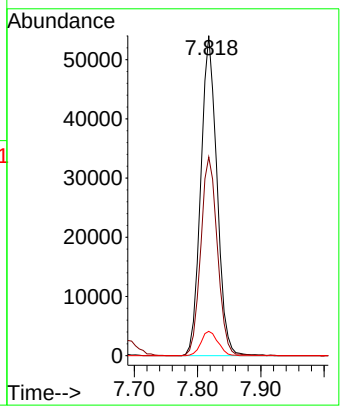




#47
Bromodichloromethane
Concen: 51.068 ug/l
RT: 7.818 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion: 83 Resp: 9617

Ion	Ratio	Lower	Upper
83	100		
85	62.1	49.7	74.5
127	7.6	6.1	9.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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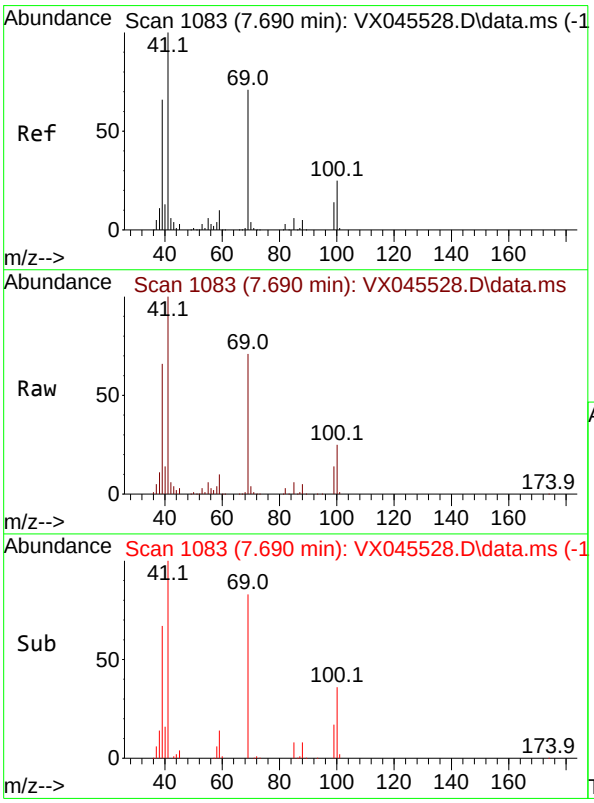
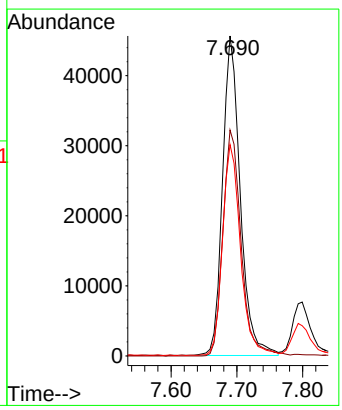
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

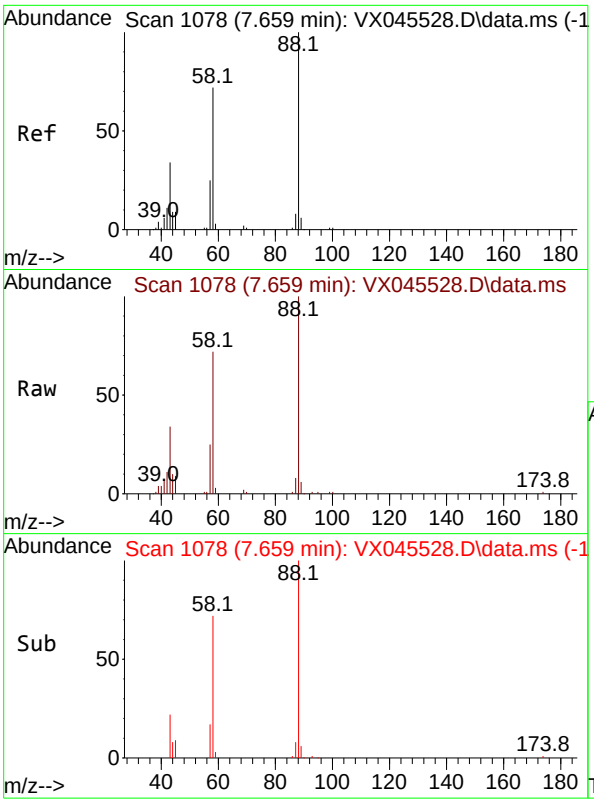


#48
Methyl methacrylate
Concen: 53.768 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion: 41 Resp: 85483

Ion	Ratio	Lower	Upper
41	100		
69	72.7	58.2	87.2
39	67.0	53.6	80.4

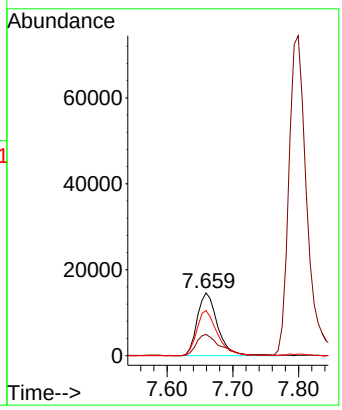




#49
1,4-Dioxane
Concen: 1084.635 ug/l
RT: 7.659 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion: 88 Resp: 3119

Ion	Ratio	Lower	Upper
88	100		
43	40.3	32.2	48.4
58	73.3	58.6	88.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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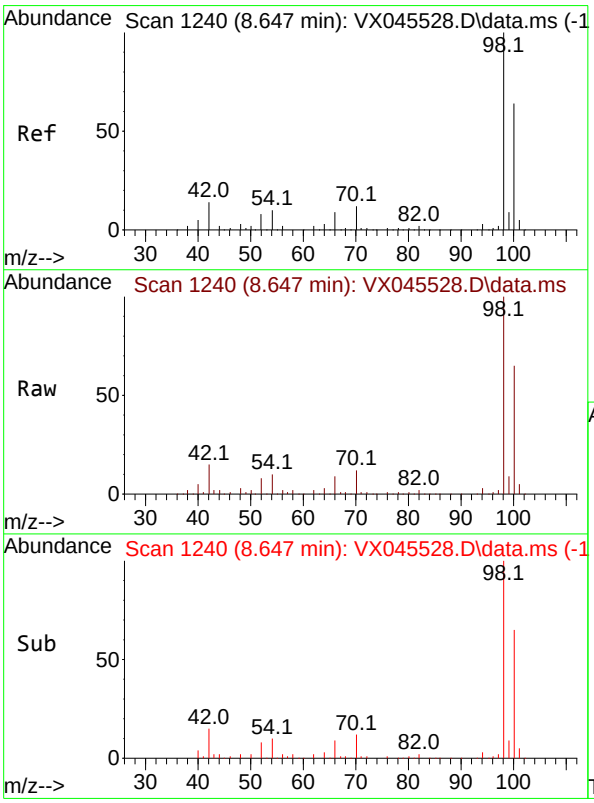
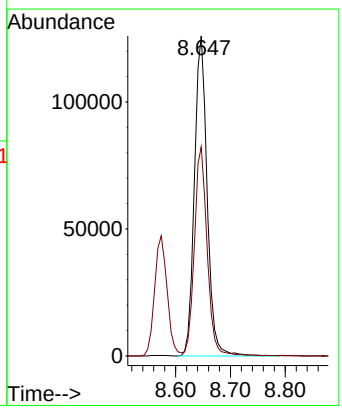
Supervised By :Mahesh Dadoda 04/02/2025

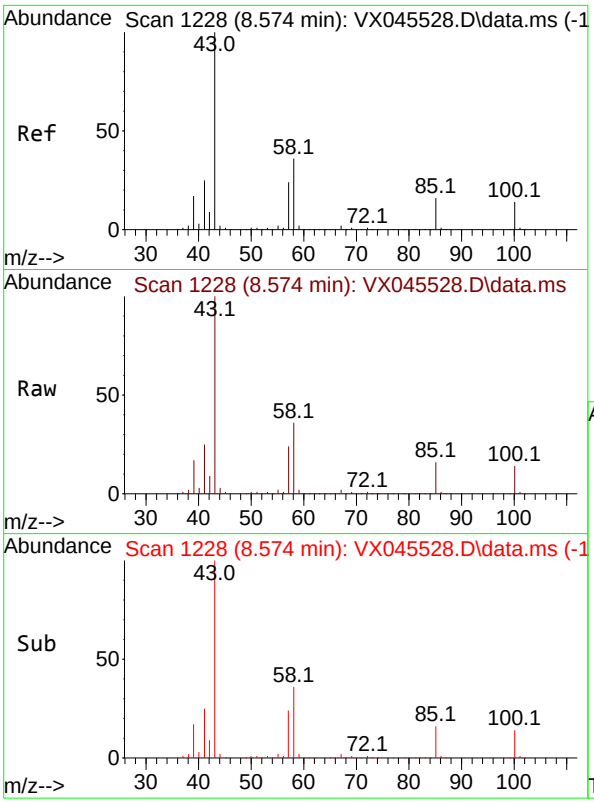


#50
Toluene-d8
Concen: 49.031 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion: 98 Resp: 204338

Ion	Ratio	Lower	Upper
98	100		
100	65.3	52.2	78.4

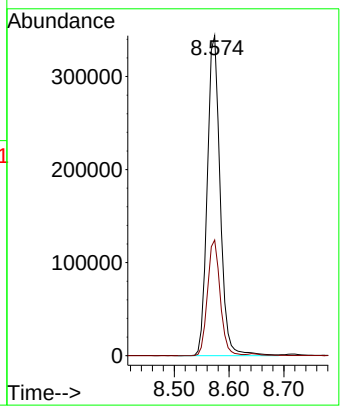




#51
4-Methyl-2-Pentanone
Concen: 273.375 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion: 43 Resp: 55802

Ion	Ratio	Lower	Upper
43	100		
58	35.6	28.5	42.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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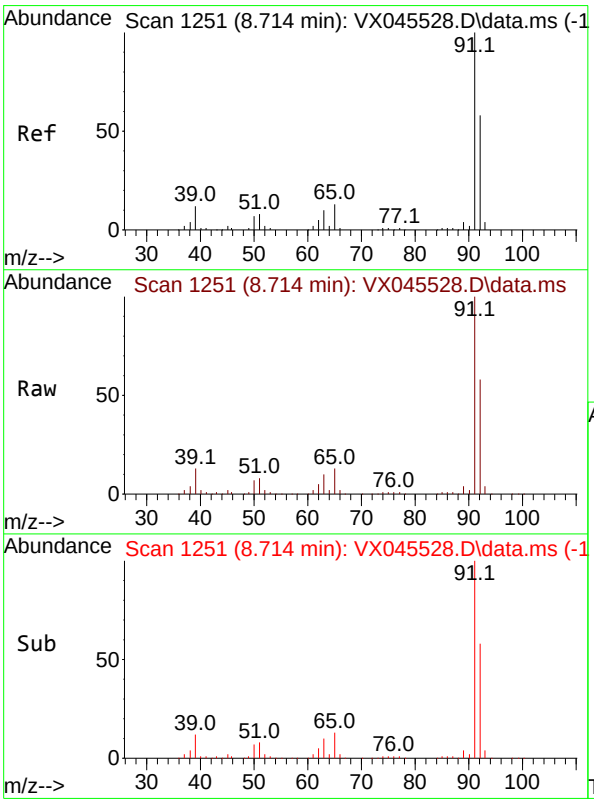
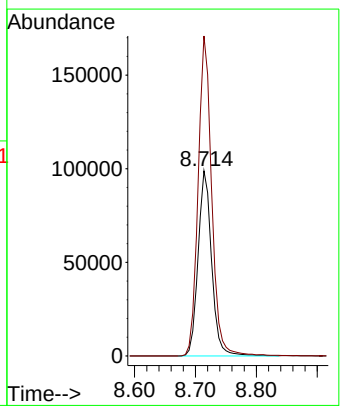
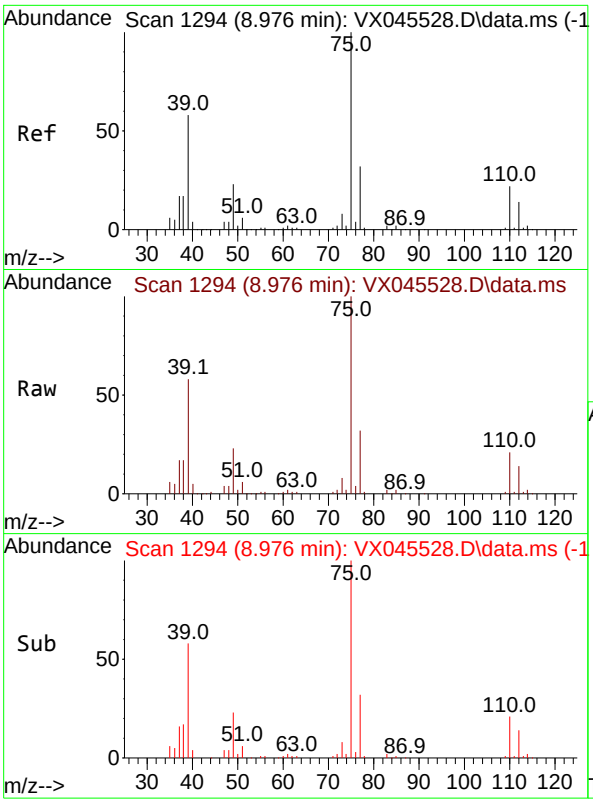


#52
Toluene
Concen: 51.402 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion: 92 Resp: 153143

Ion	Ratio	Lower	Upper
92	100		
91	173.4	138.7	208.1

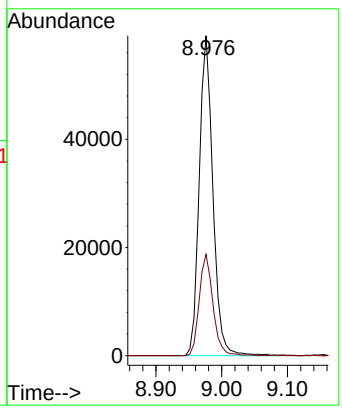




#53
t-1,3-Dichloropropene
Concen: 47.317 ug/l
RT: 8.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion: 75 Resp: 8546

Ion	Ratio	Lower	Upper
75	100		
77	31.7	25.4	38.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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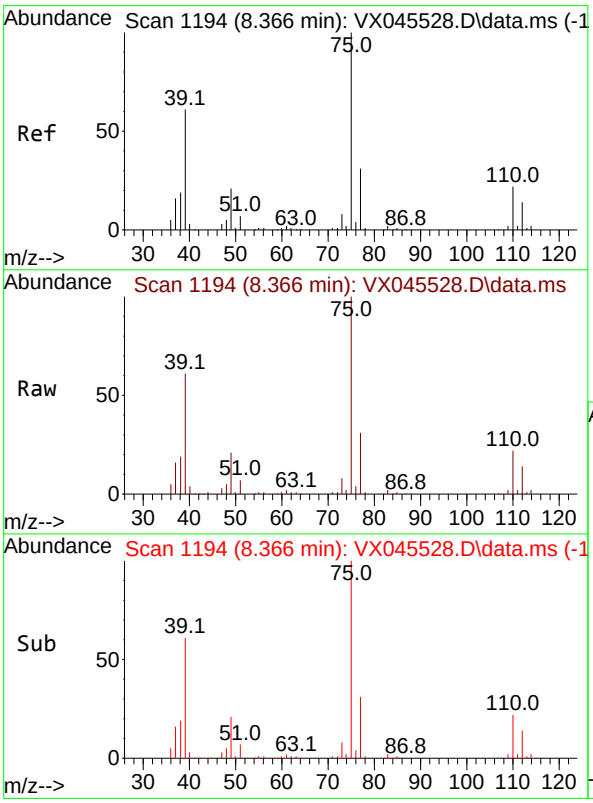
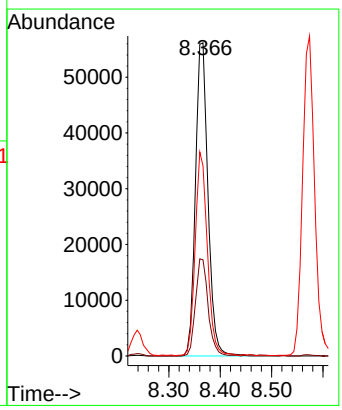
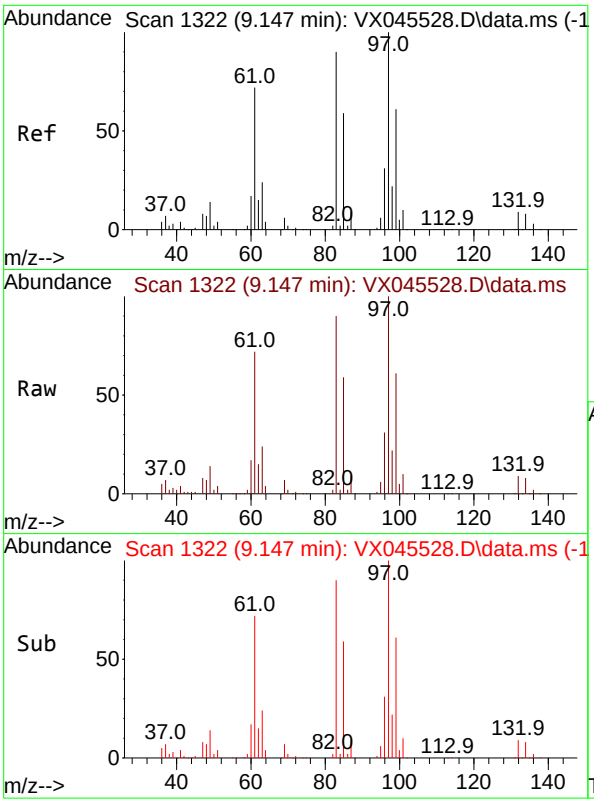


#54
cis-1,3-Dichloropropene
Concen: 53.975 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion: 75 Resp: 95524

Ion	Ratio	Lower	Upper
75	100		
77	30.7	24.6	36.8
39	60.5	48.4	72.6

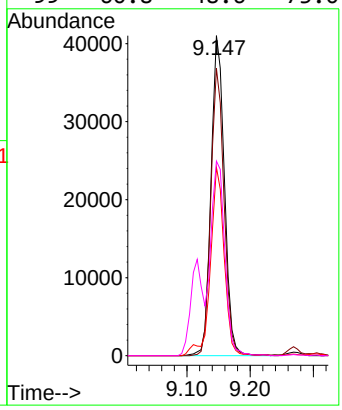




#55
1,1,2-Trichloroethane
Concen: 50.919 ug/l
RT: 9.147 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion: 97 Resp: 6045

Ion	Ratio	Lower	Upper
97	100		
83	89.8	71.8	107.8
85	58.8	47.0	70.6
99	60.8	48.6	73.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
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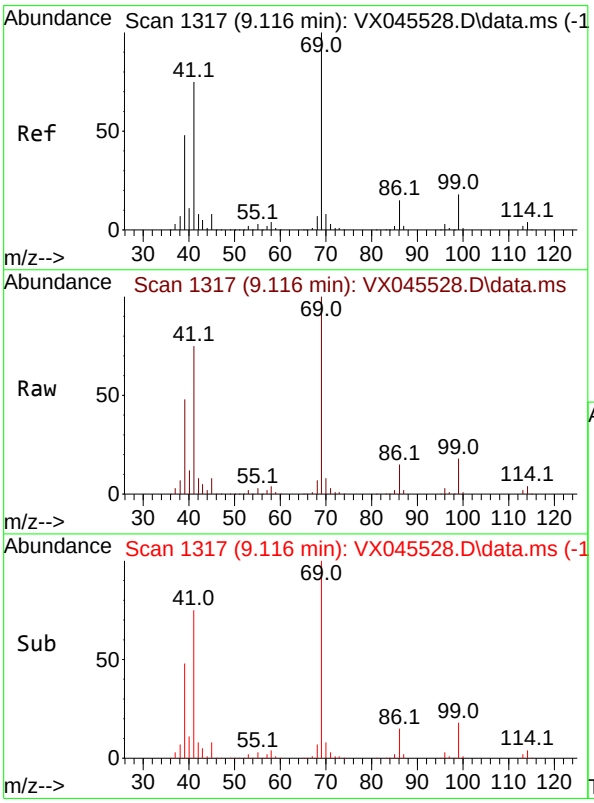
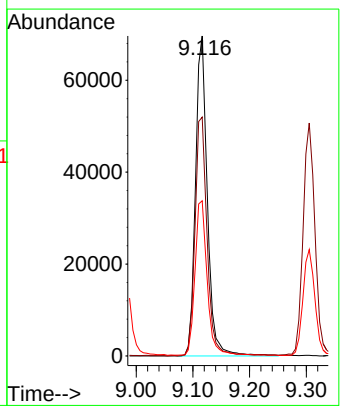
Supervised By :Mahesh Dadoda 04/02/2025

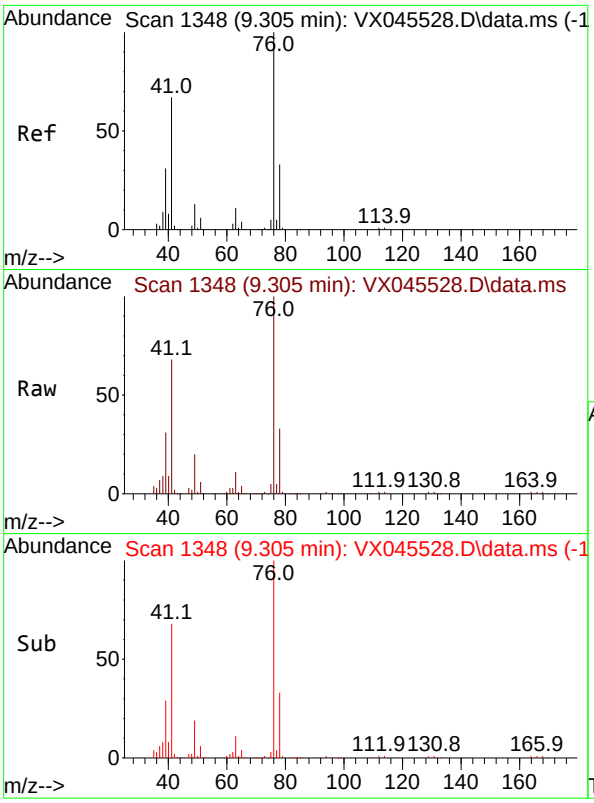


#56
Ethyl methacrylate
Concen: 54.970 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion: 69 Resp: 100998

Ion	Ratio	Lower	Upper
69	100		
41	76.6	61.3	91.9
39	50.2	40.2	60.2

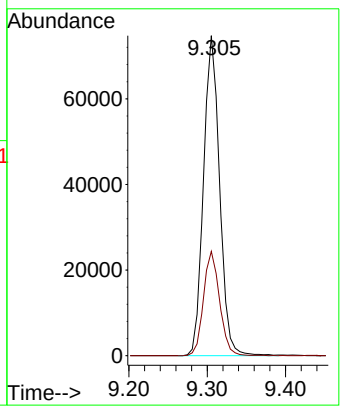




#57
1,3-Dichloropropane
Concen: 51.554 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion: 76 Resp: 10658

Ion	Ratio	Lower	Upper
76	100		
78	32.5	26.0	39.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
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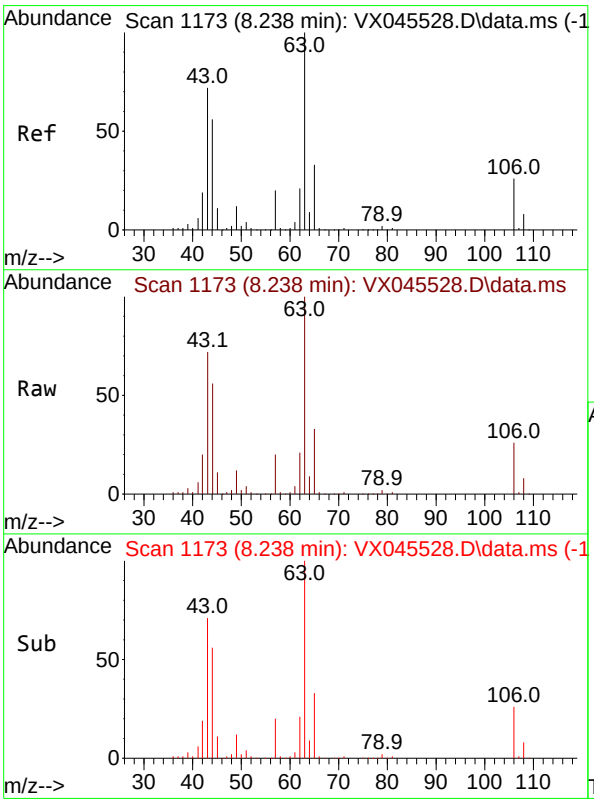
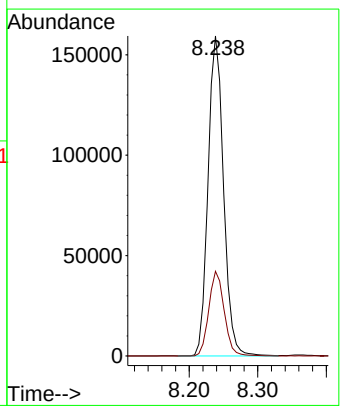
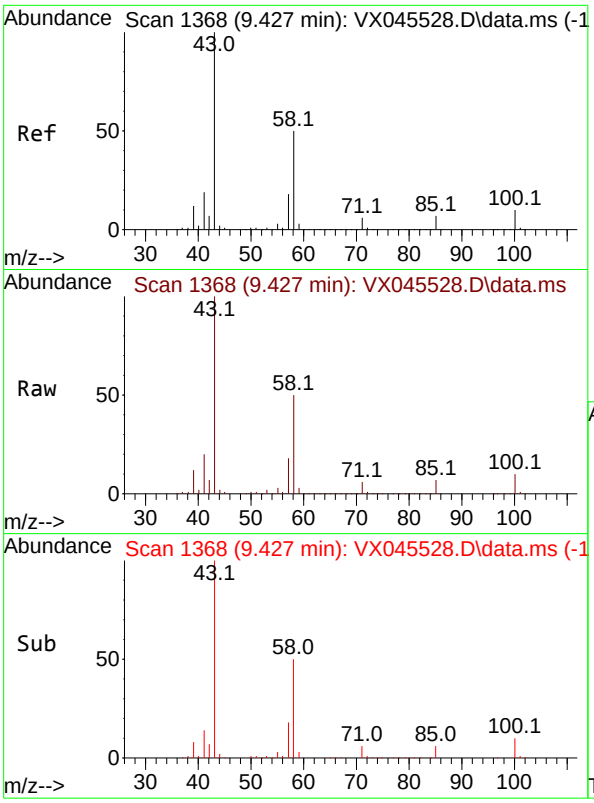


#58
2-Chloroethyl Vinyl ether
Concen: 269.434 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion: 63 Resp: 250428

Ion	Ratio	Lower	Upper
63	100		
106	26.3	21.0	31.6





#59
2-Hexanone
Concen: 273.765 ug/l
RT: 9.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion: 43 Resp: 41382

Ion	Ratio	Lower	Upper
43	100		
58	49.7	24.9	74.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
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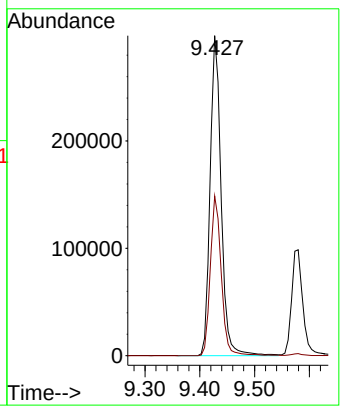
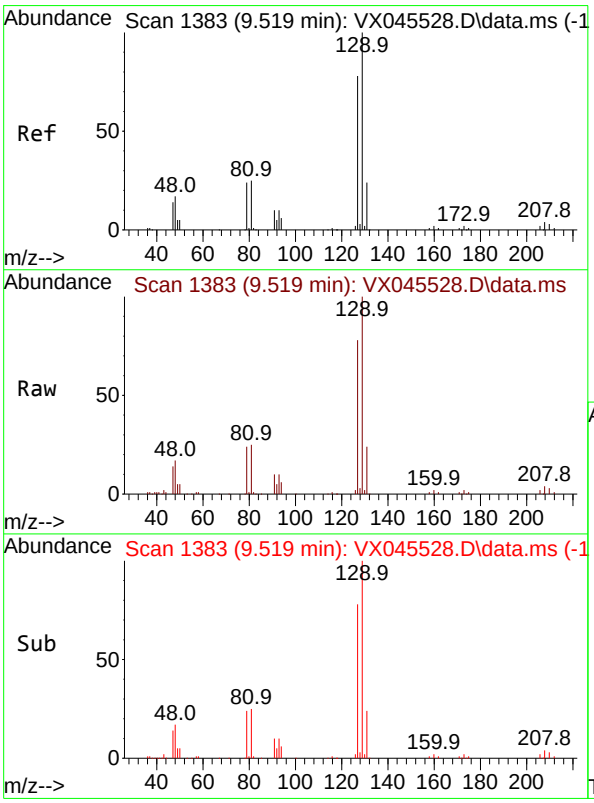
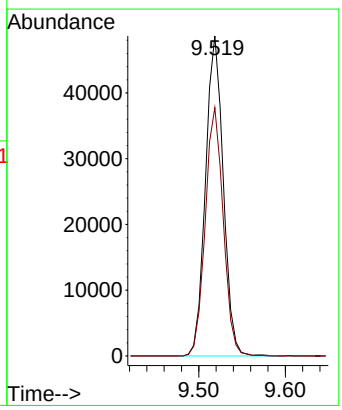


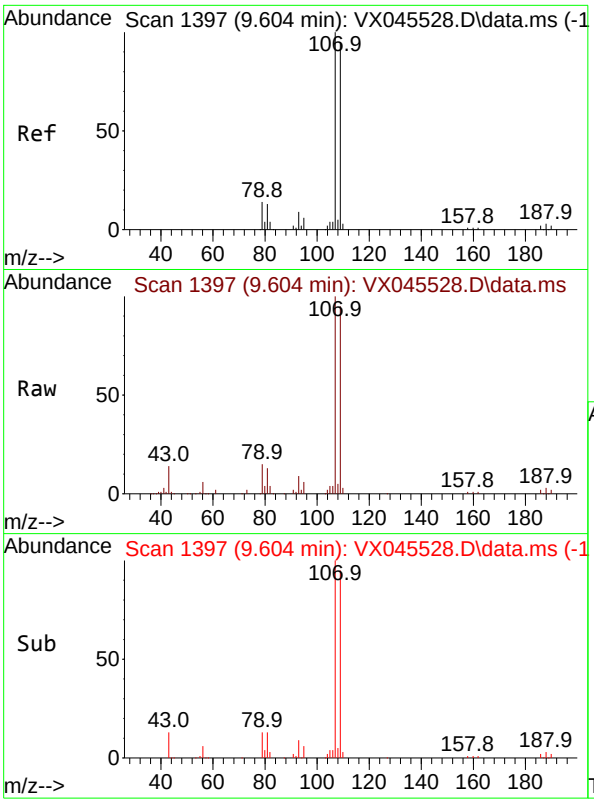


#60
Dibromochloromethane
Concen: 53.511 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion:129 Resp: 69258

Ion	Ratio	Lower	Upper
129	100		
127	78.8	39.4	118.2

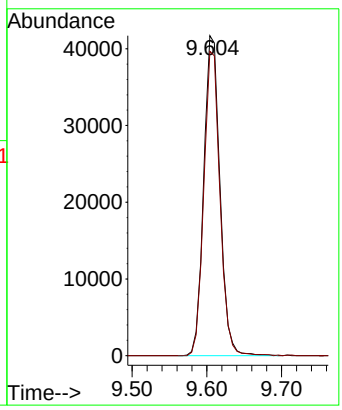




#61
1,2-Dibromoethane
Concen: 52.264 ug/l
RT: 9.604 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion:107 Resp: 6281

Ion	Ratio	Lower	Upper
107	100		
109	94.6	75.7	113.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
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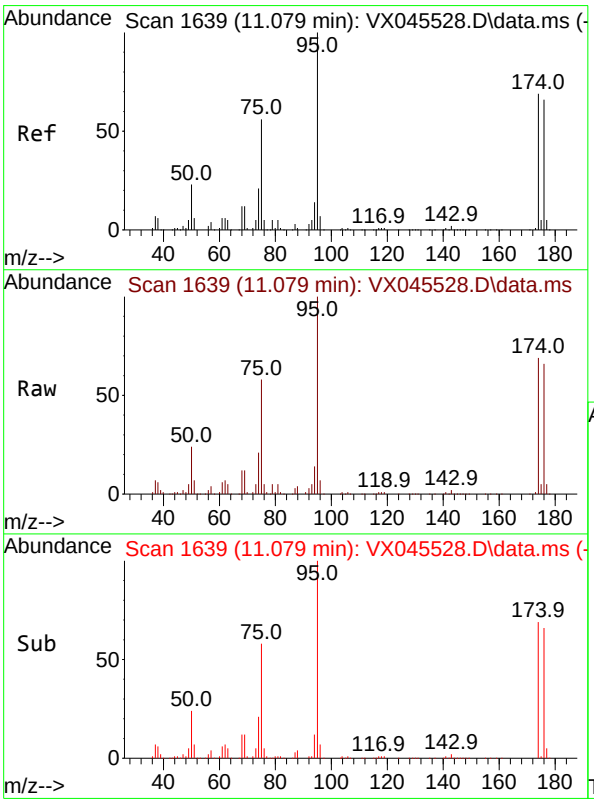
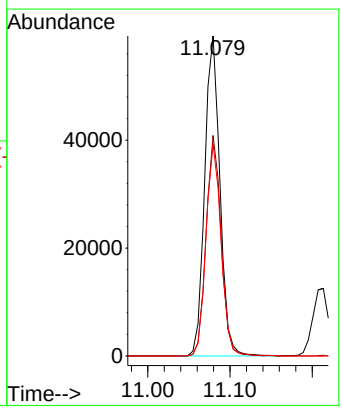
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

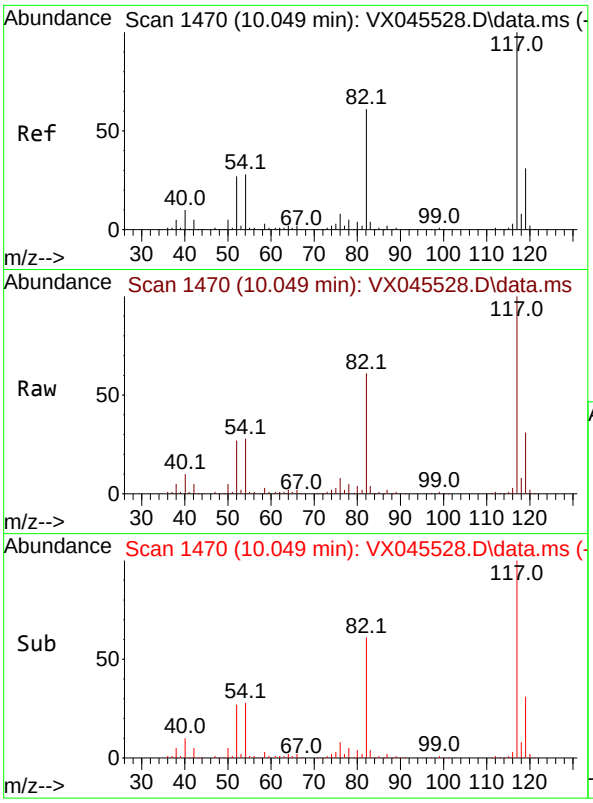


#62
4-Bromofluorobenzene
Concen: 50.190 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion: 95 Resp: 76190

Ion	Ratio	Lower	Upper
95	100		
174	67.9	0.0	135.8
176	65.7	0.0	131.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

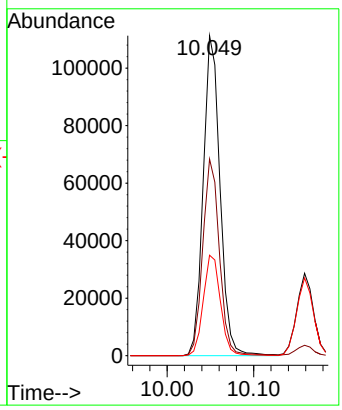
Tgt Ion:117 Resp: 15020

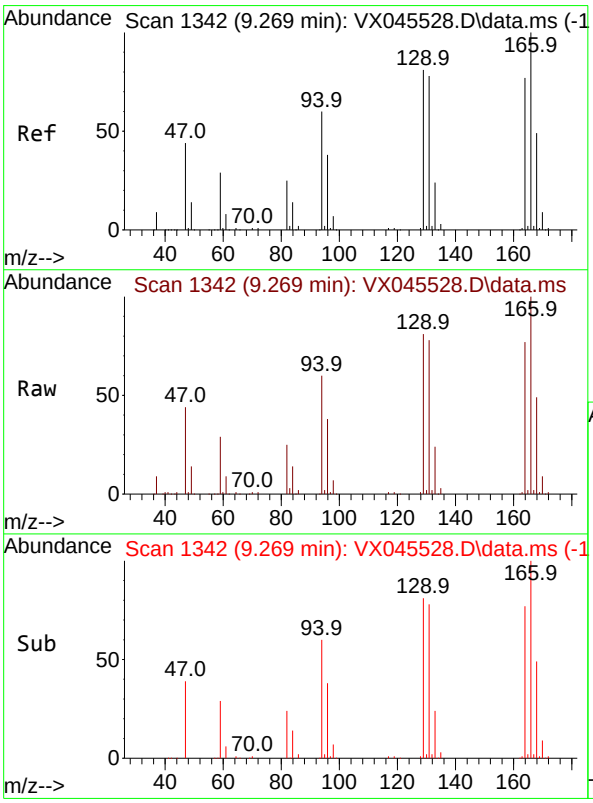
Ion	Ratio	Lower	Upper
117	100		
82	61.5	49.2	73.8
119	31.4	25.1	37.7

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

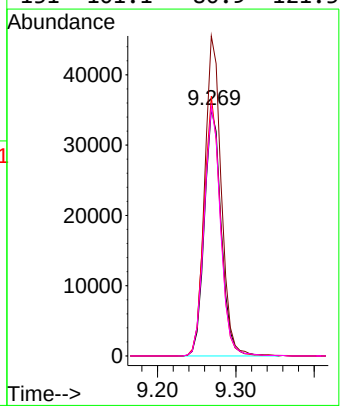


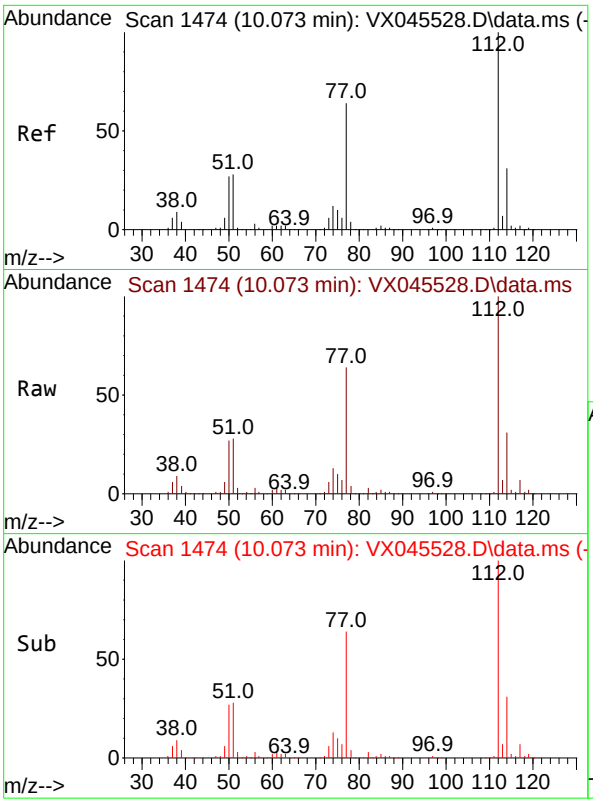


#64
Tetrachloroethene
Concen: 49.181 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion:164 Resp: 52155

Ion	Ratio	Lower	Upper
164	100		
166	129.8	103.8	155.8
129	105.4	84.3	126.5
131	101.1	80.9	121.3

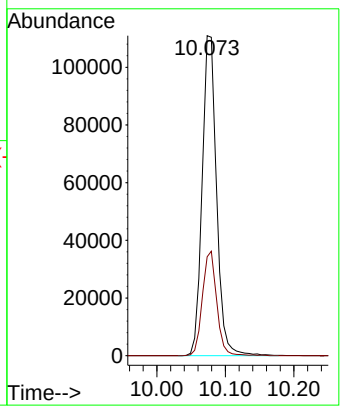




#65
Chlorobenzene
Concen: 50.733 ug/l
RT: 10.073 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion:112 Resp: 16282

Ion	Ratio	Lower	Upper
112	100		
114	30.9	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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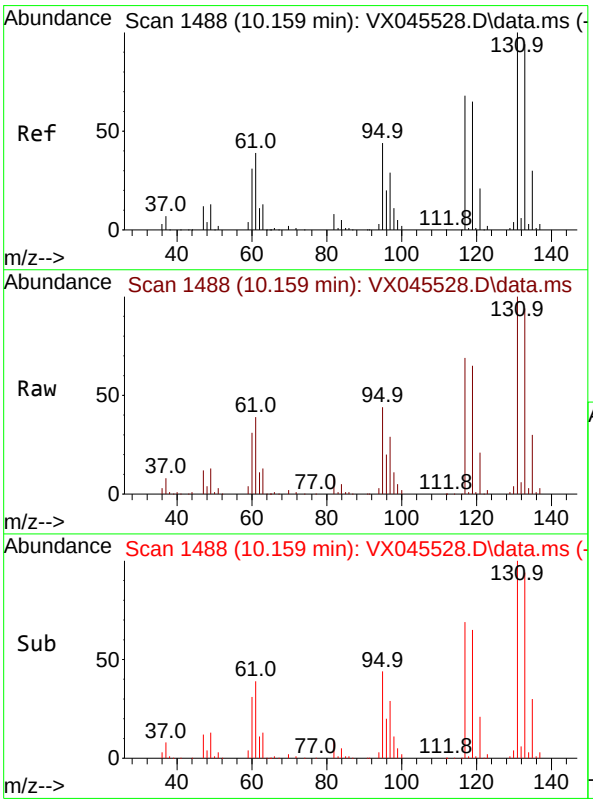
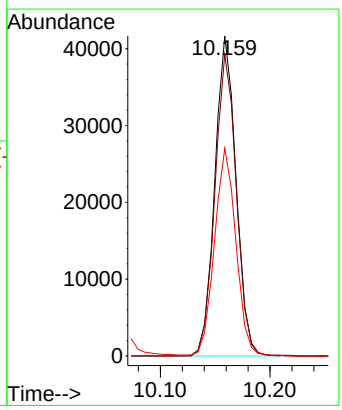
Supervised By :Mahesh Dadoda 04/02/2025

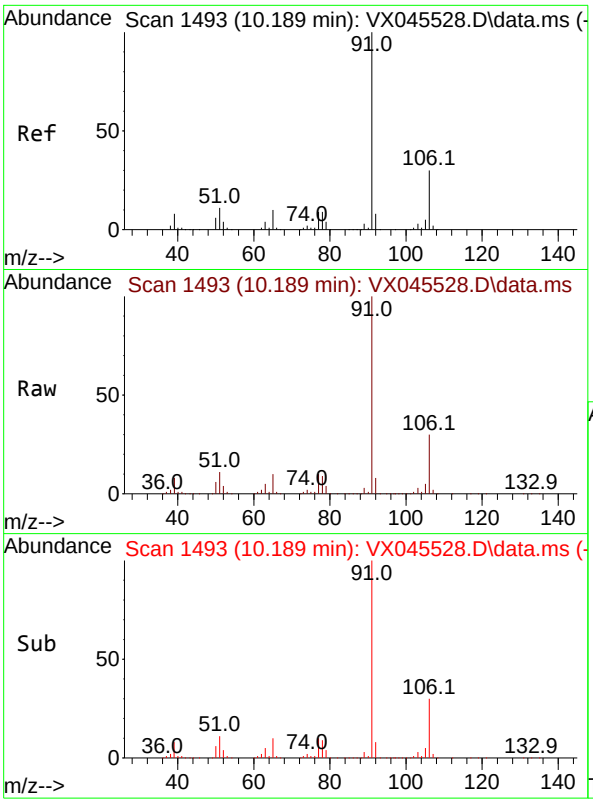


#66
1,1,1,2-Tetrachloroethane
Concen: 50.233 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion:131 Resp: 55974

Ion	Ratio	Lower	Upper
131	100		
133	95.0	47.5	142.5
119	65.7	32.9	98.6

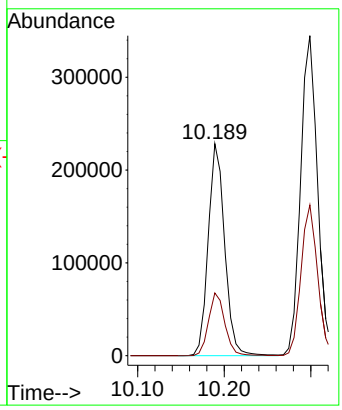




#67
Ethyl Benzene
Concen: 52.447 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion: 91 Resp: 30148

Ion	Ratio	Lower	Upper
91	100		
106	29.6	23.7	35.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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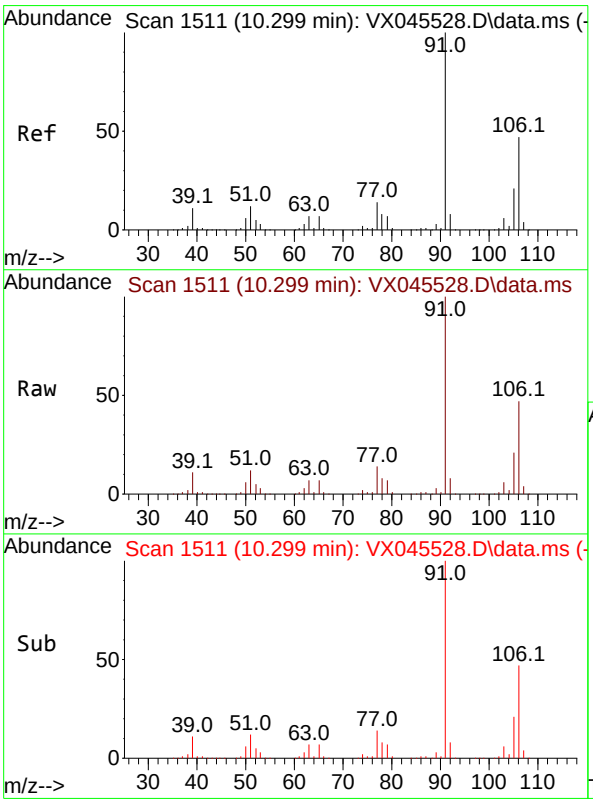
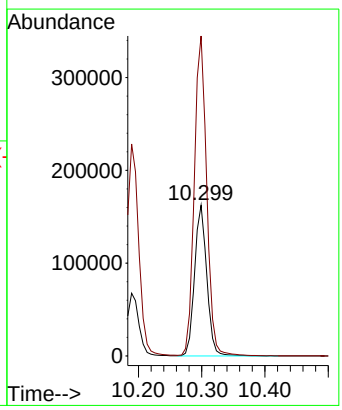
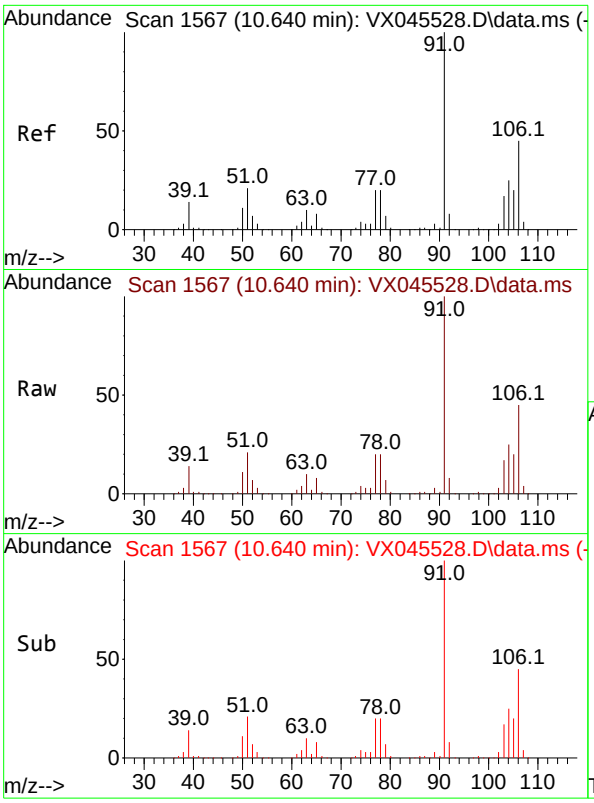


#68
m/p-Xylenes
Concen: 104.606 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion:106 Resp: 218702

Ion	Ratio	Lower	Upper
106	100		
91	215.7	172.6	258.8

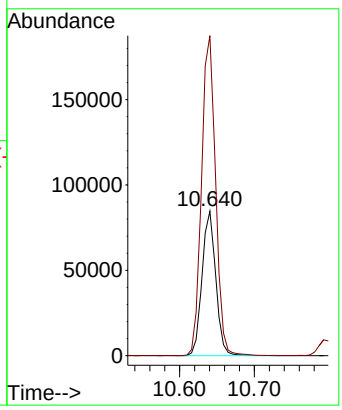




#69
o-Xylene
Concen: 52.452 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion:106 Resp: 10802

Ion	Ratio	Lower	Upper
106	100		
91	227.1	113.6	340.6



Instrument :
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ClientSampleId :
VSTDICCC050

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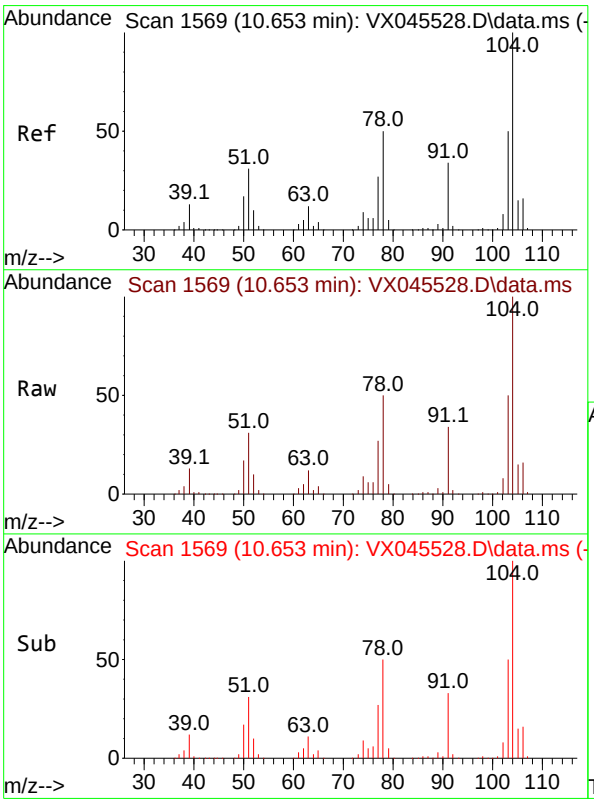
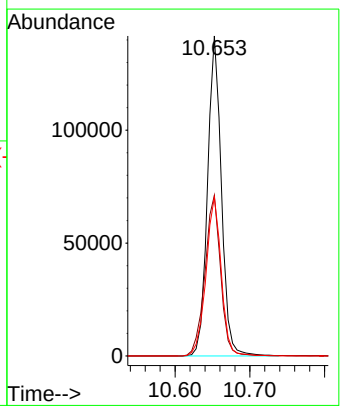
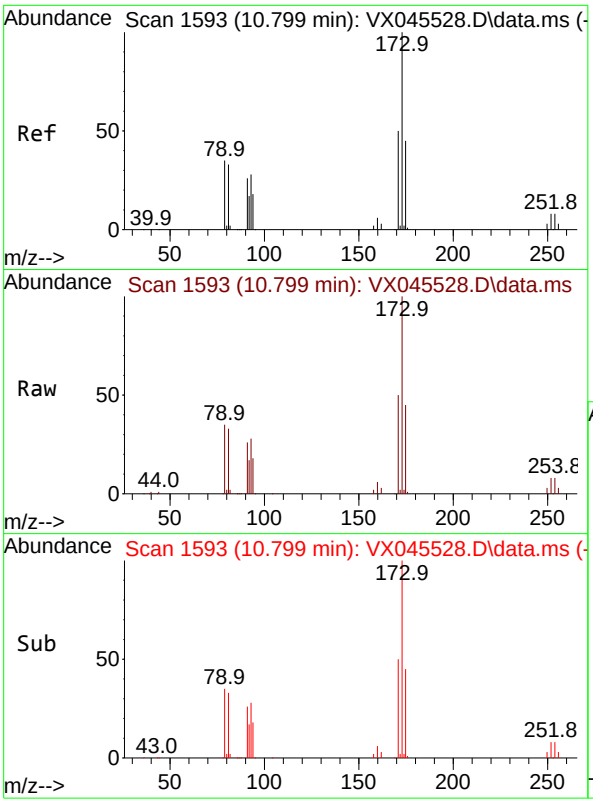


#70
Styrene
Concen: 53.723 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion:104 Resp: 182620

Ion	Ratio	Lower	Upper
104	100		
78	56.8	45.4	68.2
103	54.8	43.8	65.8

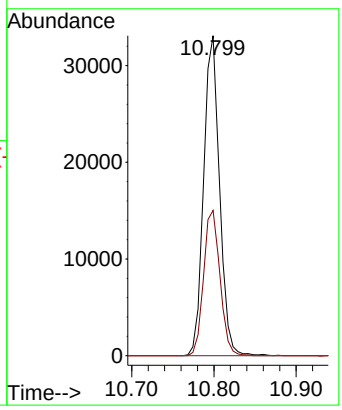




#71
Bromoform
Concen: 53.361 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion:173 Resp: 4439

Ion	Ratio	Lower	Upper
173	100		
175	46.8	23.4	70.2
254	0.0	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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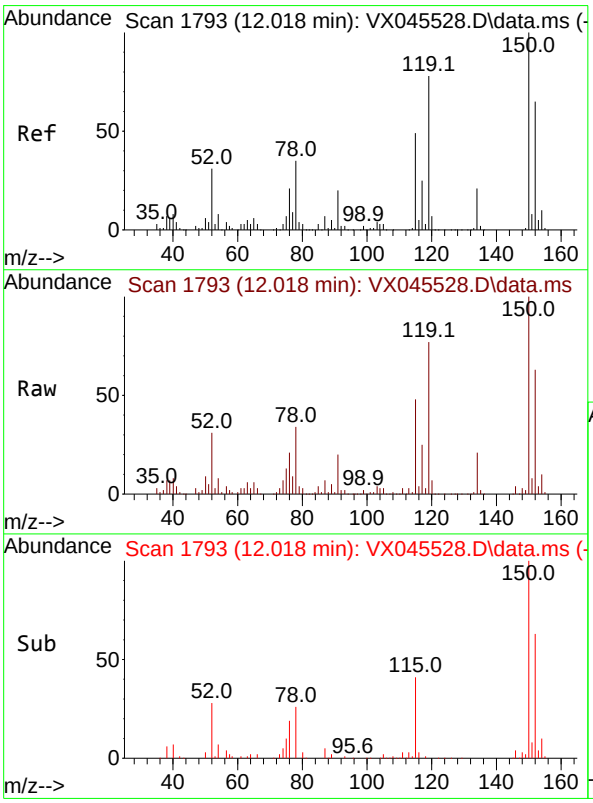
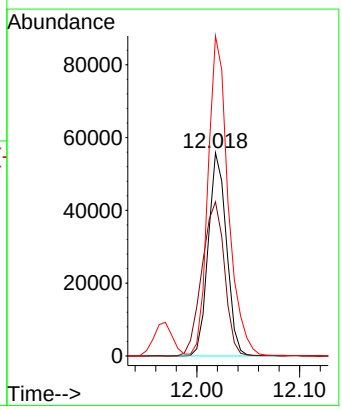
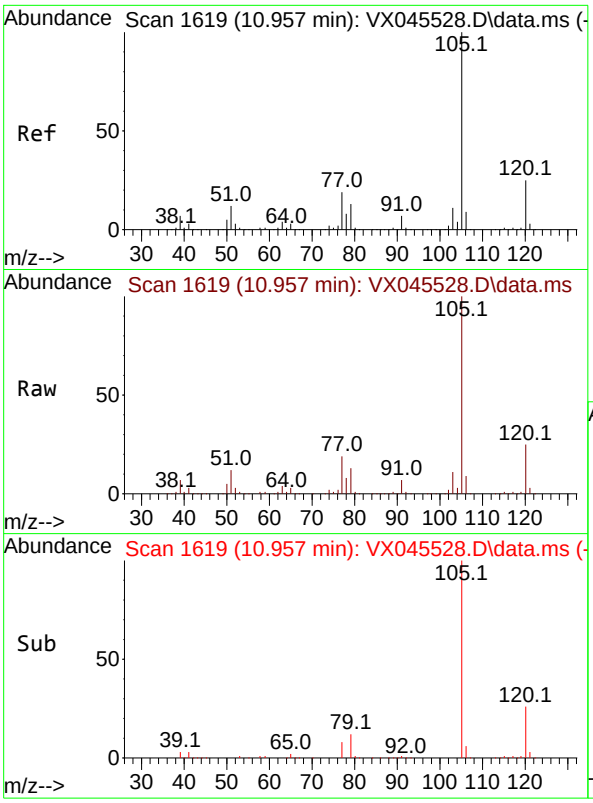


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion:152 Resp: 68786

Ion	Ratio	Lower	Upper
152	100		
115	93.8	46.9	140.7
150	174.7	0.0	349.4

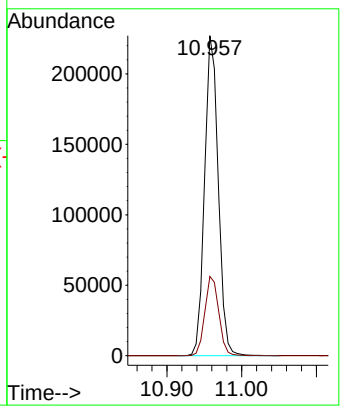




#73
Isopropylbenzene
Concen: 52.203 ug/l
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion:105 Resp: 28762

Ion	Ratio	Lower	Upper
105	100		
120	25.3	12.7	38.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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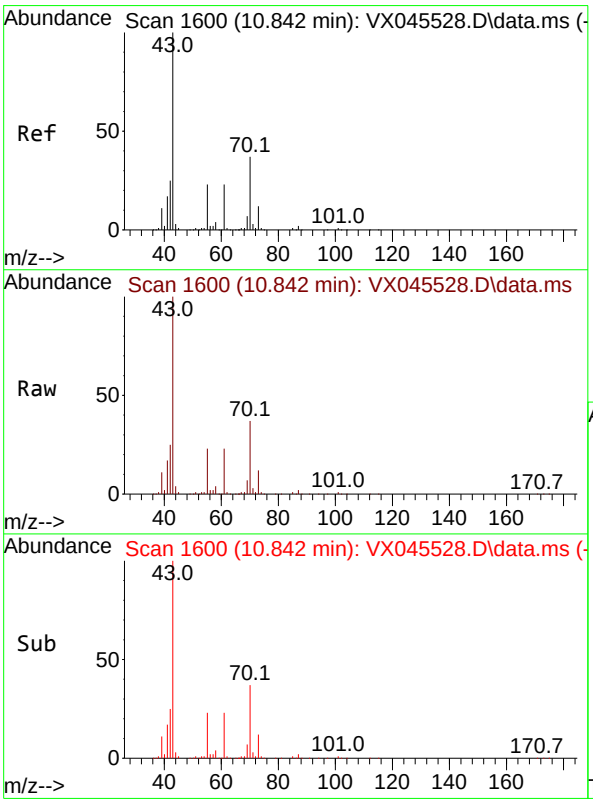
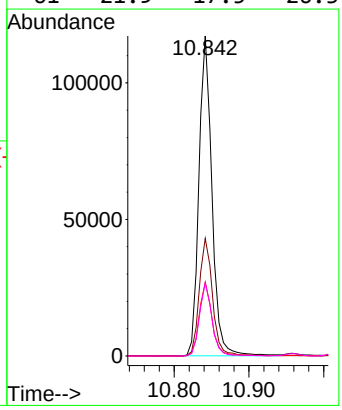
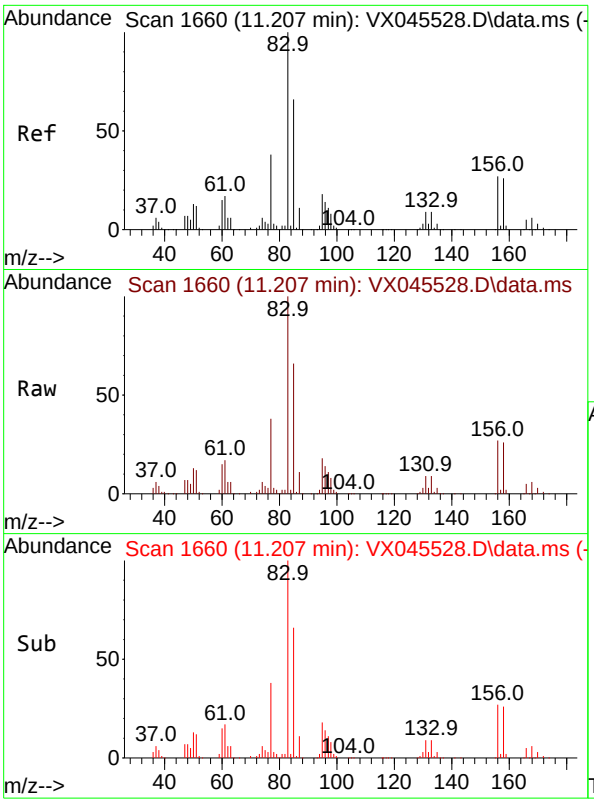


#74
N-amyl acetate
Concen: 53.721 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion: 43 Resp: 141589

Ion	Ratio	Lower	Upper
43	100		
70	37.6	30.1	45.1
55	22.9	18.3	27.5
61	21.9	17.5	26.3

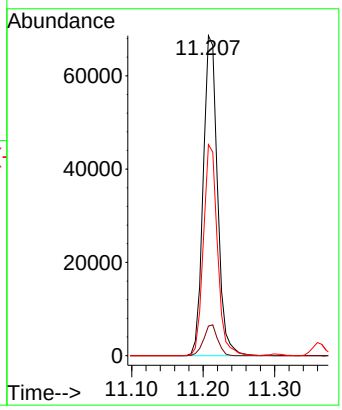




#75
1,1,2,2-Tetrachloroethane
Concen: 49.185 ug/l
RT: 11.207 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion: 83 Resp: 9520

Ion	Ratio	Lower	Upper
83	100		
131	9.4	4.7	14.1
85	64.8	32.4	97.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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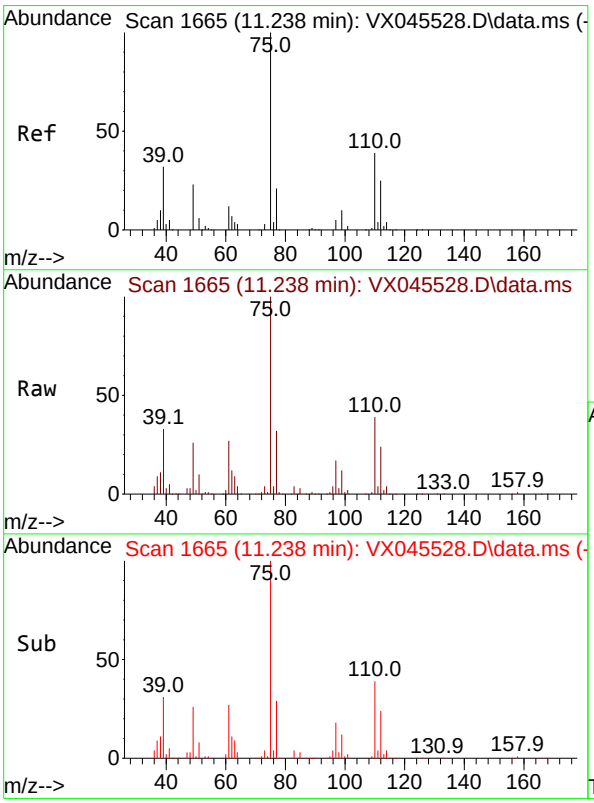
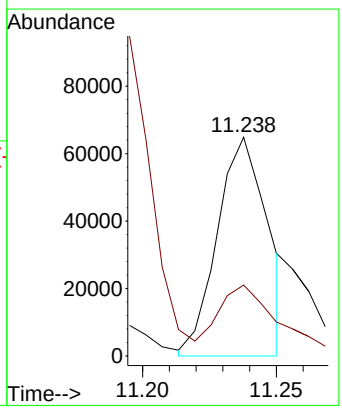
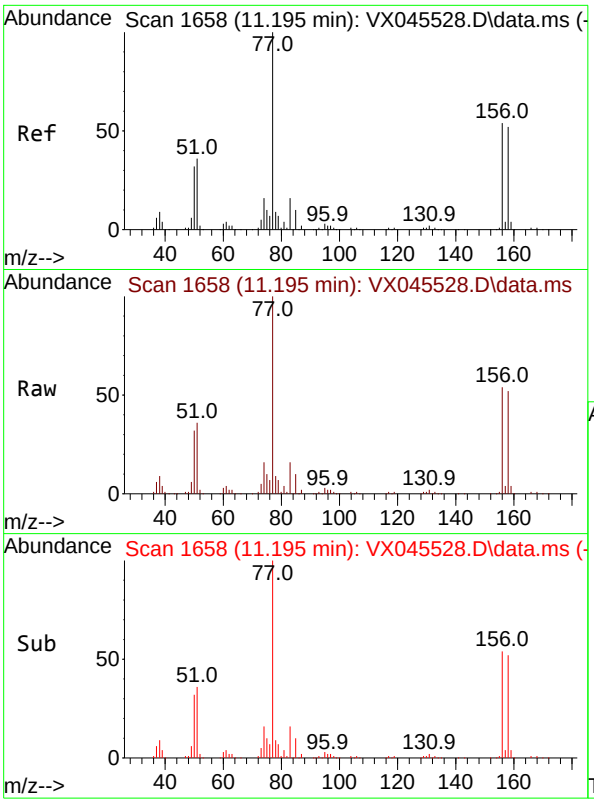


#76
1,2,3-Trichloropropane
Concen: 50.230 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion: 75 Resp: 84279

Ion	Ratio	Lower	Upper
75	100		
77	39.9	20.0	59.9

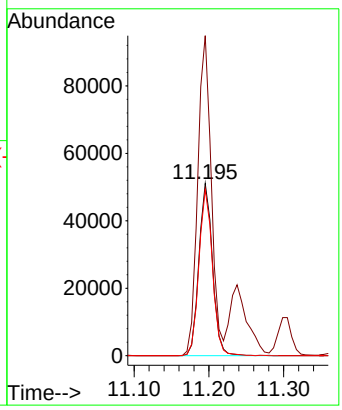




#77
Bromobenzene
Concen: 50.686 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion:156 Resp: 6452

Ion	Ratio	Lower	Upper
156	100		
77	185.2	92.6	277.8
158	96.3	48.1	144.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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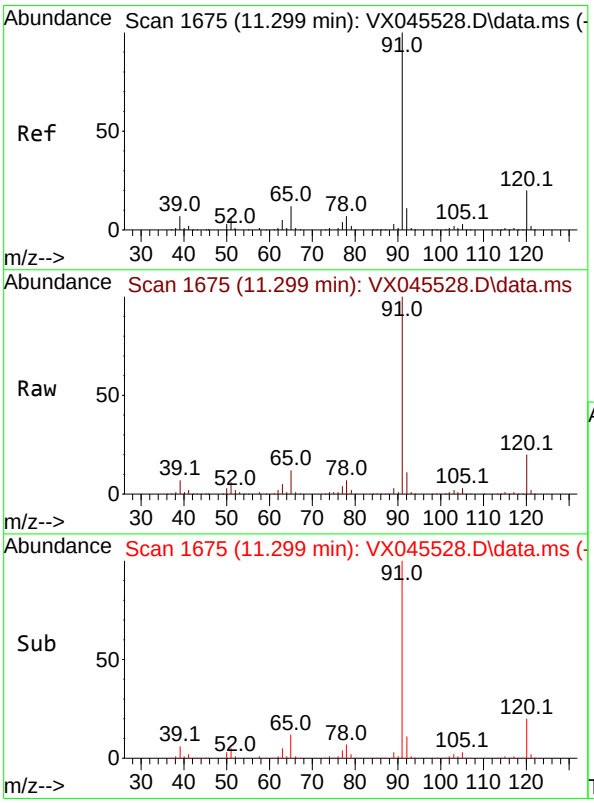
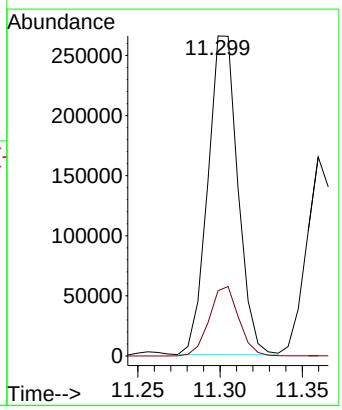
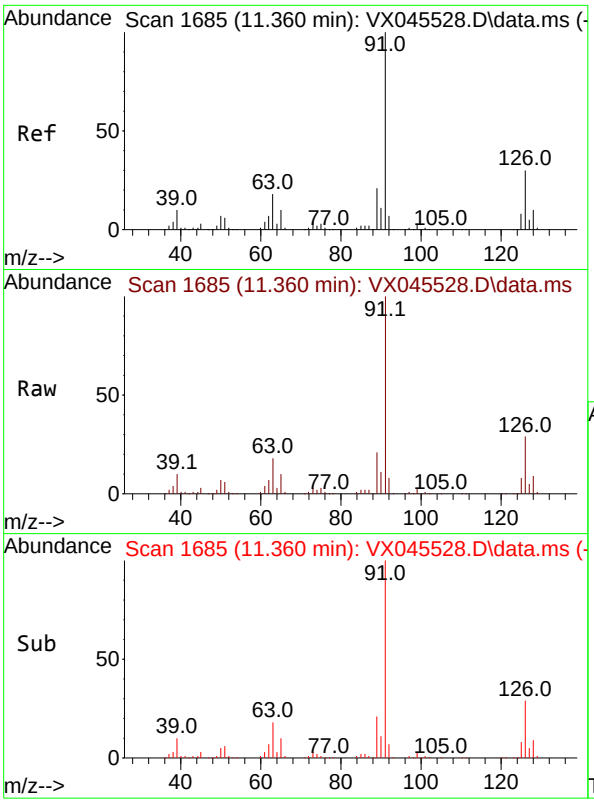


#78
n-propylbenzene
Concen: 53.069 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion: 91 Resp: 336796

Ion	Ratio	Lower	Upper
91	100		
120	21.5	10.8	32.3





#79
2-Chlorotoluene
Concen: 50.279 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion: 91 Resp: 20399

Ion	Ratio	Lower	Upper
91	100		
126	31.6	15.8	47.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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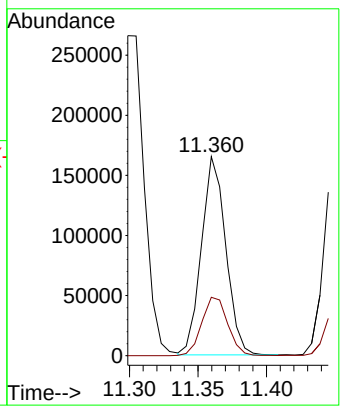
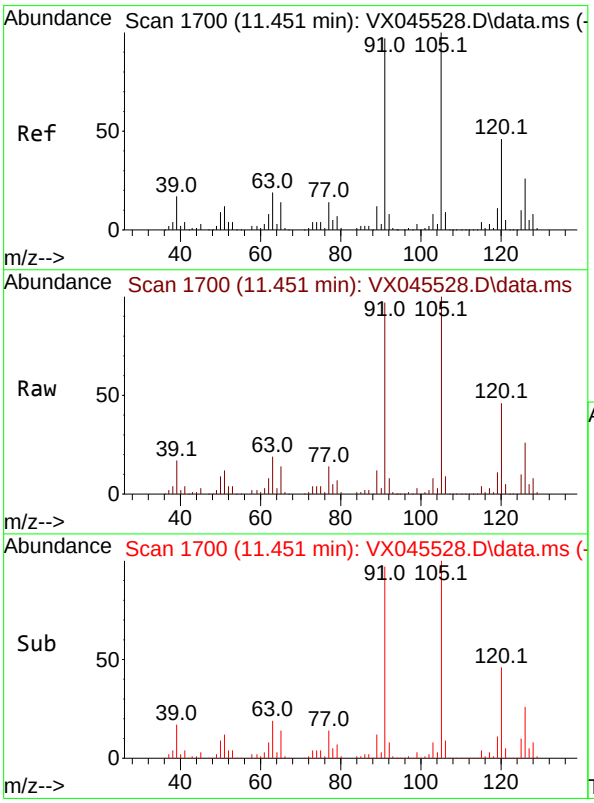
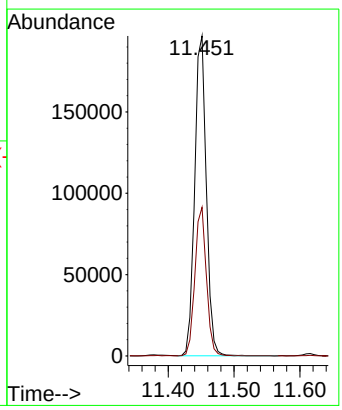


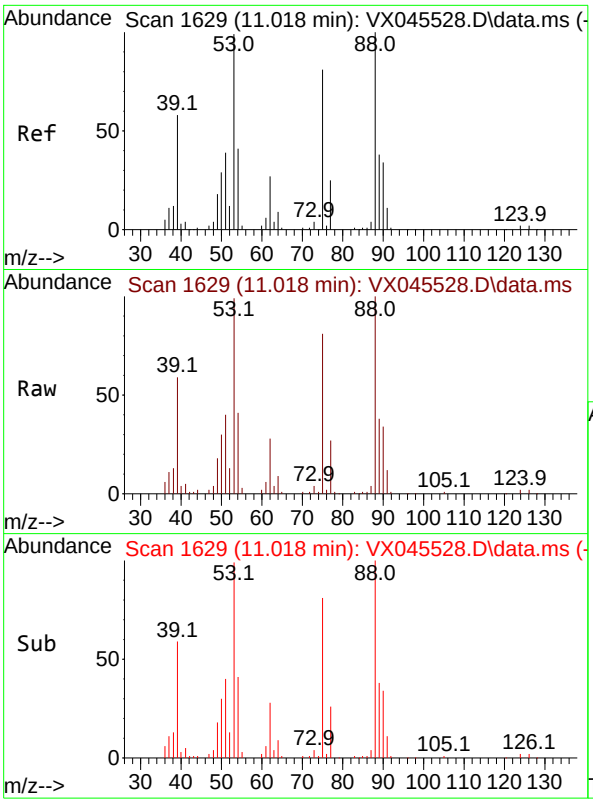


#80
1,3,5-Trimethylbenzene
Concen: 53.013 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion:105 Resp: 241536

Ion	Ratio	Lower	Upper
105	100		
120	46.0	23.0	69.0

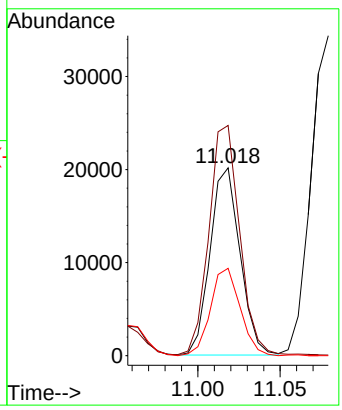




#81
trans-1,4-Dichloro-2-butene
Concen: 51.556 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion: 75 Resp: 2548

Ion	Ratio	Lower	Upper
75	100		
53	127.2	101.8	152.6
89	46.5	37.2	55.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

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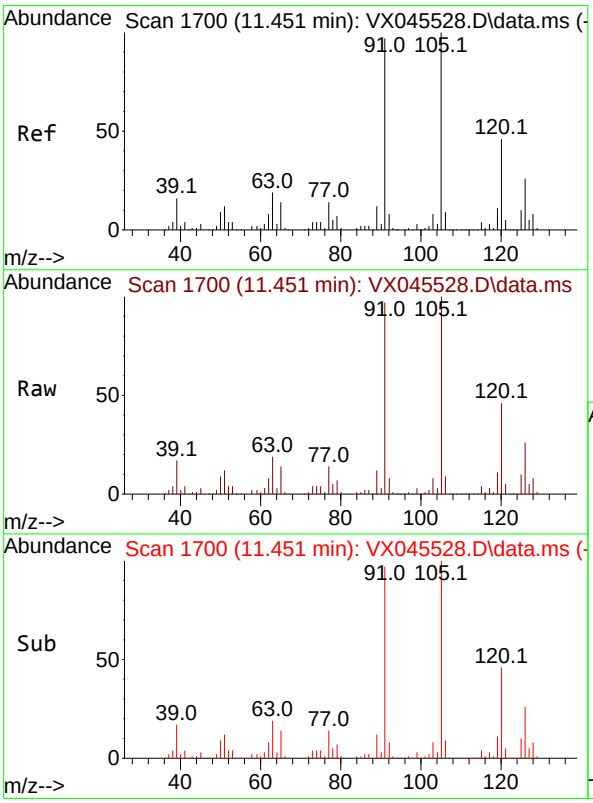
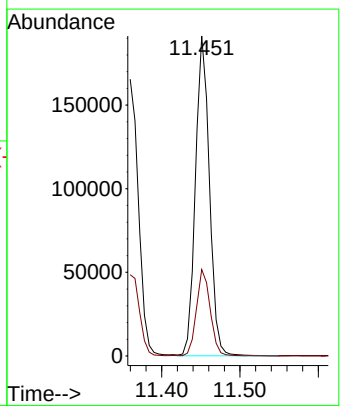
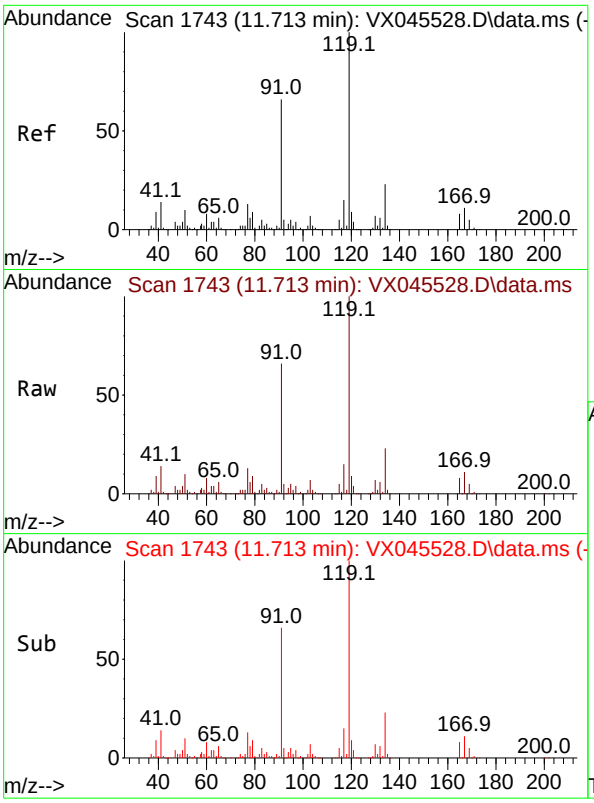


#82
4-Chlorotoluene
Concen: 52.439 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion: 91 Resp: 237213

Ion	Ratio	Lower	Upper
91	100		
126	26.6	13.3	39.9

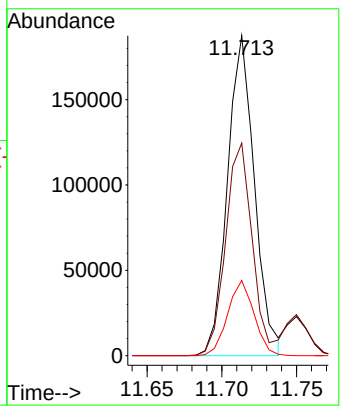




#83
tert-Butylbenzene
Concen: 52.256 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion:119 Resp: 23571

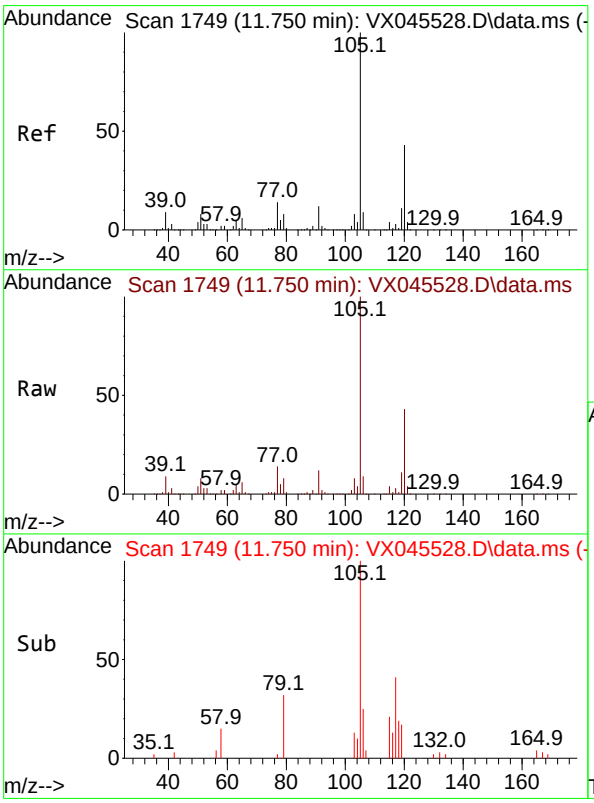
Ion	Ratio	Lower	Upper
119	100		
91	64.8	32.4	97.2
134	23.0	11.5	34.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

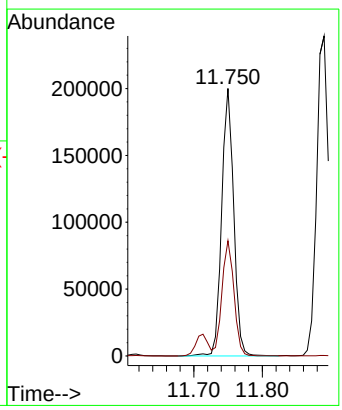
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

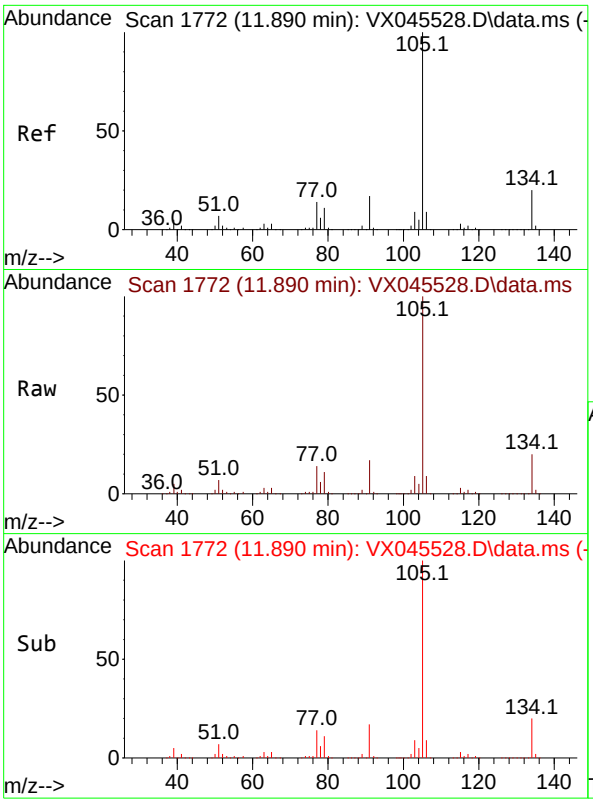


#84
1,2,4-Trimethylbenzene
Concen: 52.986 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion:105 Resp: 242301

Ion	Ratio	Lower	Upper
105	100		
120	42.9	21.4	64.3

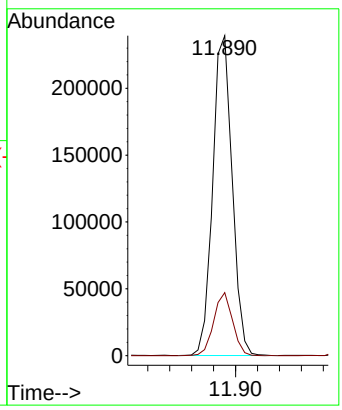




#85
sec-Butylbenzene
Concen: 53.391 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion:105 Resp: 29579

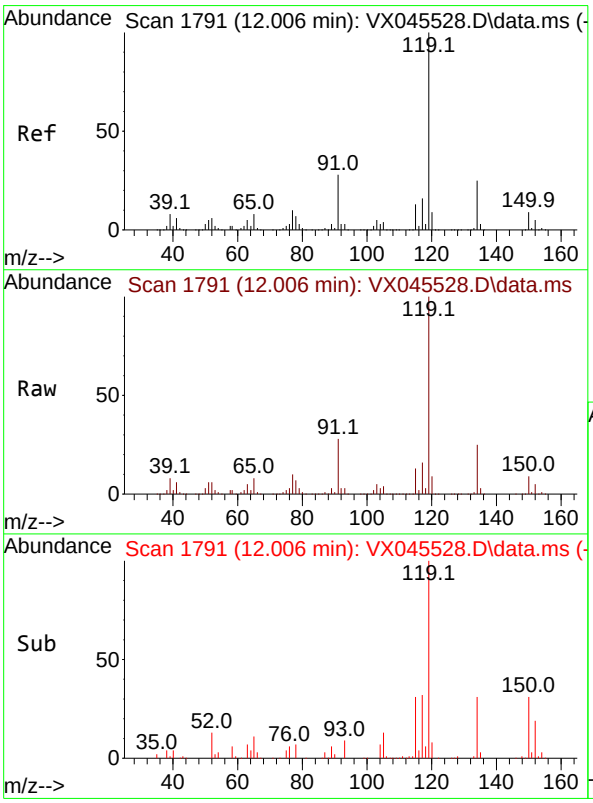
Ion	Ratio	Lower	Upper
105	100		
134	19.1	9.6	28.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

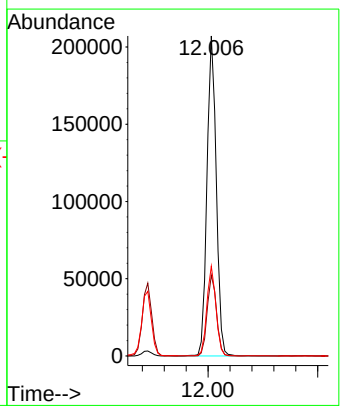
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

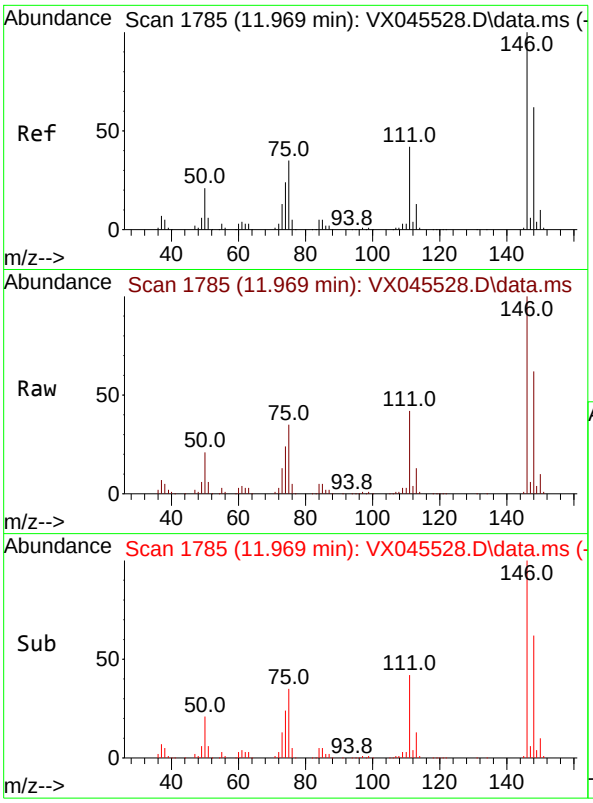


#86
p-Isopropyltoluene
Concen: 53.073 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion:119 Resp: 242416

Ion	Ratio	Lower	Upper
119	100		
134	25.2	12.6	37.8
91	27.4	13.7	41.1

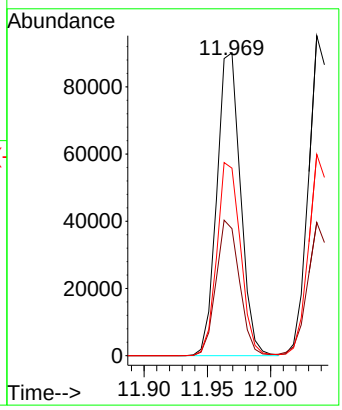




#87
1,3-Dichlorobenzene
Concen: 50.441 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion:146 Resp: 11689

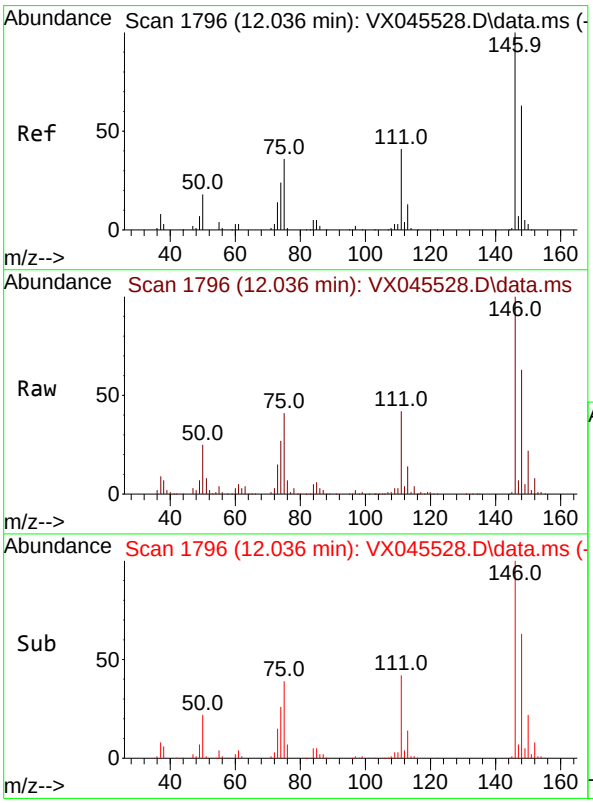
Ion	Ratio	Lower	Upper
146	100		
111	44.4	22.2	66.6
148	63.8	31.9	95.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

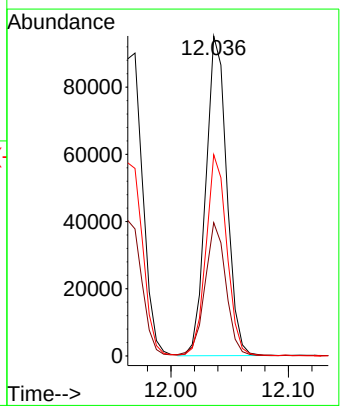
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

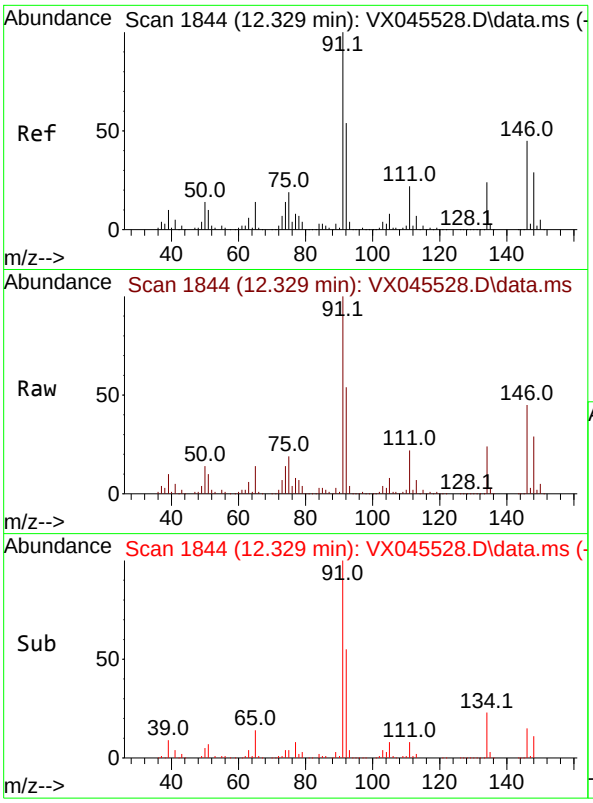


#88
1,4-Dichlorobenzene
Concen: 49.871 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion:146 Resp: 117164

Ion	Ratio	Lower	Upper
146	100		
111	41.9	20.9	62.8
148	63.0	31.5	94.5

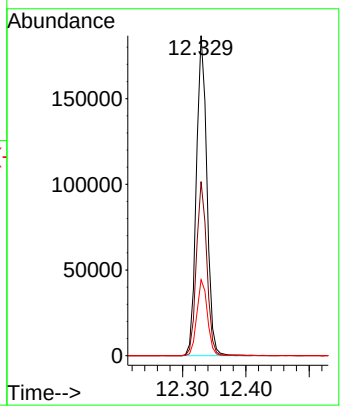




#89
n-Butylbenzene
Concen: 54.874 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion: 91 Resp: 21734

Ion	Ratio	Lower	Upper
91	100		
92	53.7	26.9	80.6
134	23.8	11.9	35.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
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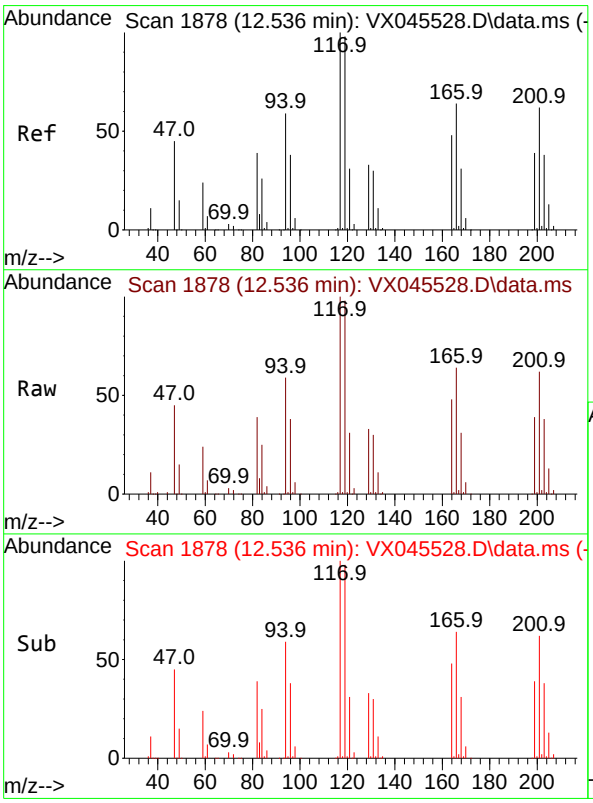
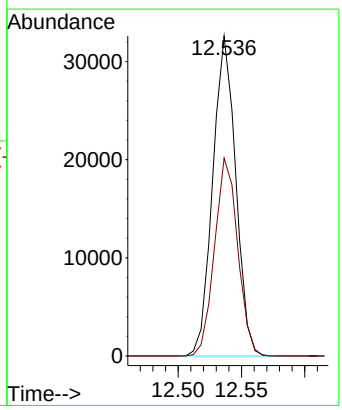
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

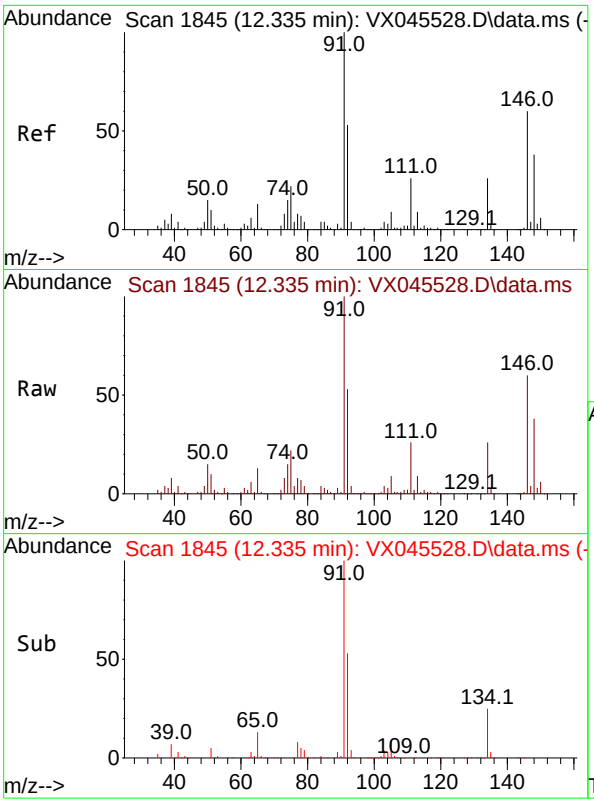


#90
Hexachloroethane
Concen: 52.352 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion:117 Resp: 41095

Ion	Ratio	Lower	Upper
117	100		
201	62.4	31.2	93.6

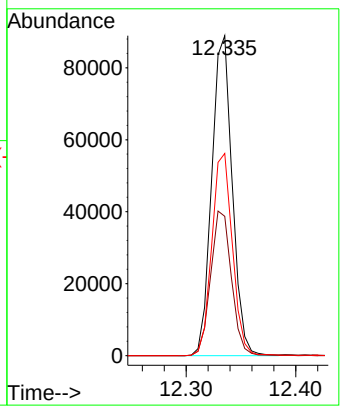




#91
1,2-Dichlorobenzene
Concen: 50.099 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion:146 Resp: 11542

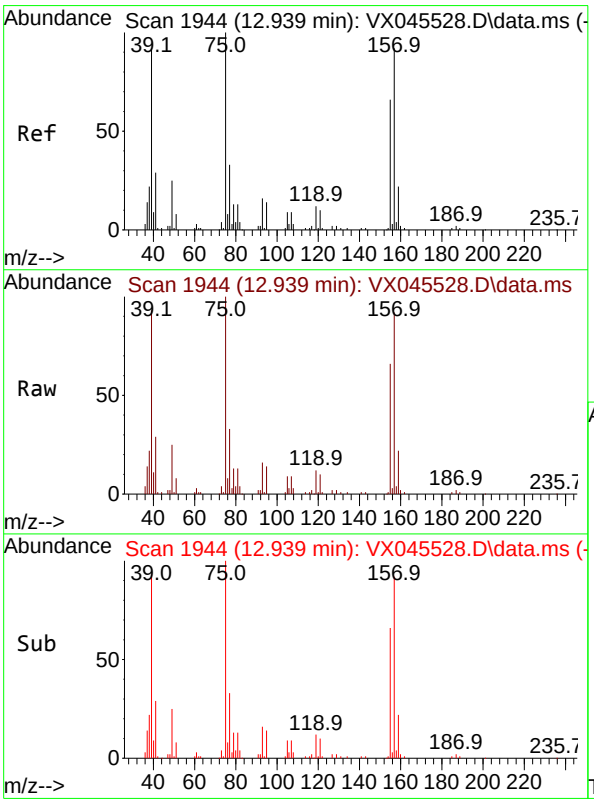
Ion	Ratio	Lower	Upper
146	100		
111	45.9	22.9	68.8
148	63.7	31.9	95.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

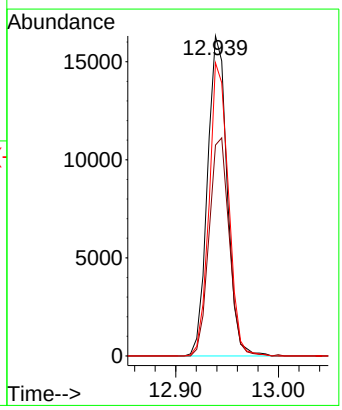
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

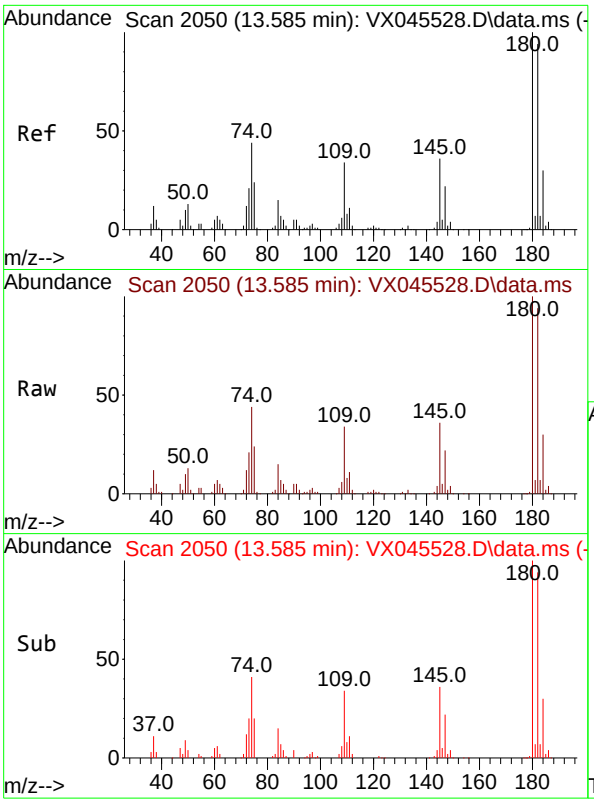


#92
1,2-Dibromo-3-Chloropropane
Concen: 53.638 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion: 75 Resp: 21712

Ion	Ratio	Lower	Upper
75	100		
155	69.8	34.9	104.7
157	89.8	44.9	134.7

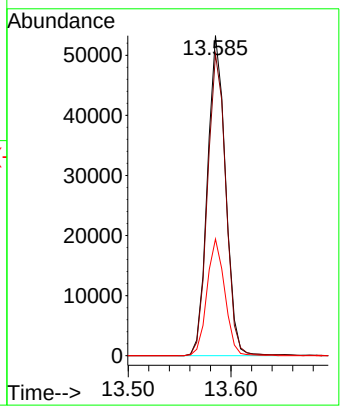




#93
1,2,4-Trichlorobenzene
Concen: 50.797 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion:180 Resp: 6514

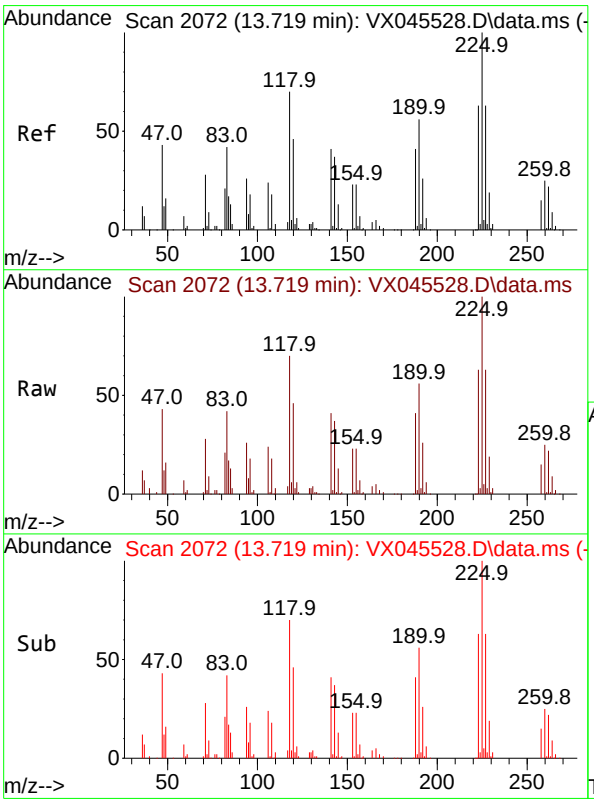
Ion	Ratio	Lower	Upper
180	100		
182	95.7	47.9	143.6
145	35.9	17.9	53.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

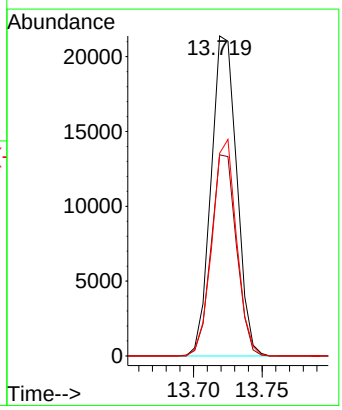
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

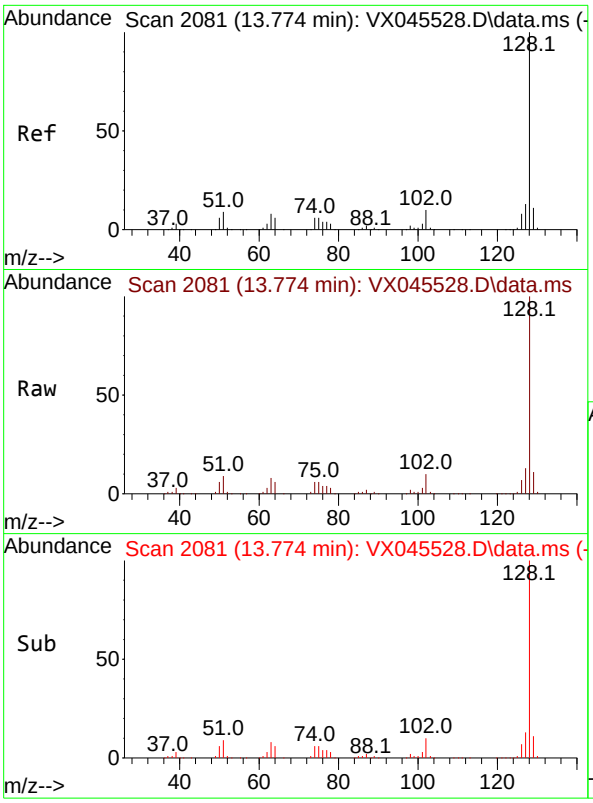


#94
Hexachlorobutadiene
Concen: 50.296 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion:225 Resp: 27795

Ion	Ratio	Lower	Upper
225	100		
223	62.2	31.1	93.3
227	64.4	32.2	96.6

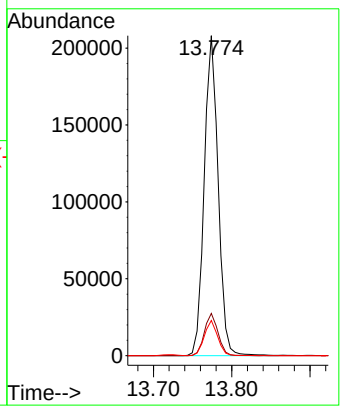




#95
Naphthalene
Concen: 53.643 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion:128 Resp: 25600

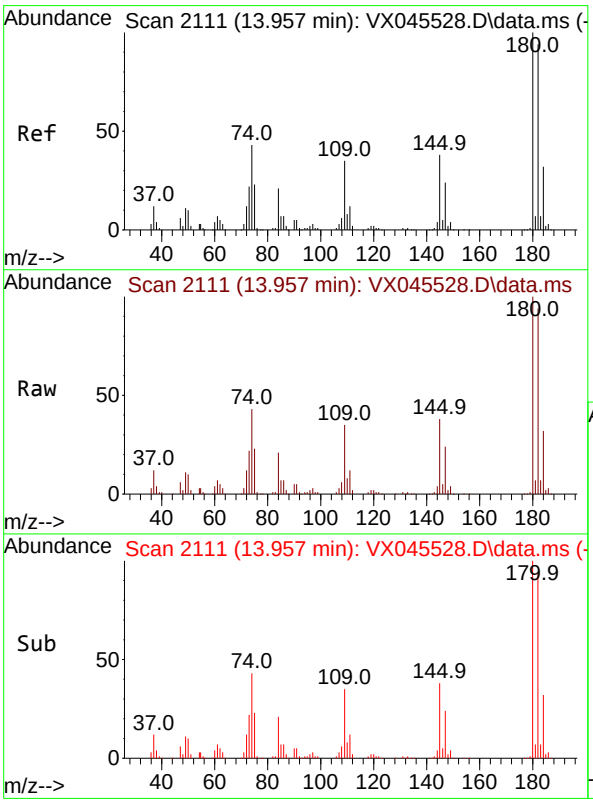
Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.3	15.5
129	10.7	8.6	12.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

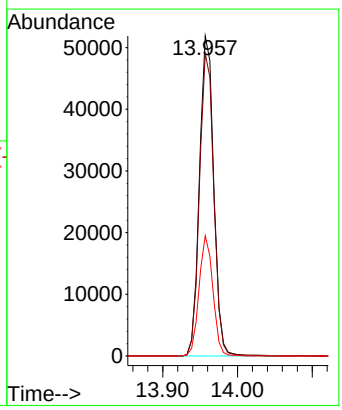
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#96
1,2,3-Trichlorobenzene
Concen: 51.219 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion:180 Resp: 68781

Ion	Ratio	Lower	Upper
180	100		
182	94.5	47.3	141.8
145	36.4	18.2	54.6



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045529.D
Acq On : 01 Apr 2025 18:38
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 02 02:54:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 02:44:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	86107	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	152724	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	136369	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	64612	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	155757	98.914	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 197.820%#			
35) Dibromofluoromethane	5.379	113	107908	99.585	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 199.160%#			
50) Toluene-d8	8.647	98	375599	99.309	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 198.620%#			
62) 4-Bromofluorobenzene	11.079	95	146944	106.664	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 213.320%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	144108	111.909	ug/l	99
3) Chloromethane	1.307	50	140360	106.098	ug/l	100
4) Vinyl Chloride	1.374	62	127174	105.042	ug/l	99
5) Bromomethane	1.593	94	58706	102.266	ug/l	98
6) Chloroethane	1.660	64	61099	95.120	ug/l	98
7) Trichlorofluoromethane	1.867	101	187555	103.887	ug/l	98
8) Diethyl Ether	2.136	74	61683	101.767	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.319	101	106989	101.133	ug/l	97
10) Methyl Iodide	2.441	142	135732	102.863	ug/l	100
11) Tert butyl alcohol	2.989	59	110044	519.999	ug/l	99
12) 1,1-Dichloroethene	2.306	96	106404	102.934	ug/l	99
13) Acrolein	2.233	56	146268	501.914	ug/l	99
14) Allyl chloride	2.654	41	206484	105.276	ug/l	99
15) Acrylonitrile	3.062	53	338970	507.426	ug/l	99
16) Acetone	2.386	43	314285	486.054	ug/l	100
17) Carbon Disulfide	2.502	76	276285	108.215	ug/l	100
18) Methyl Acetate	2.703	43	147272	98.925	ug/l	99
19) Methyl tert-butyl Ether	3.111	73	381719	105.561	ug/l	99
20) Methylene Chloride	2.782	84	121435	100.316	ug/l	98
21) trans-1,2-Dichloroethene	3.081	96	106896	101.220	ug/l	98
22) Diisopropyl ether	3.757	45	406185	105.132	ug/l	95
23) Vinyl Acetate	3.721	43	1848817	553.853	ug/l	99
24) 1,1-Dichloroethane	3.605	63	220934	101.114	ug/l	100
25) 2-Butanone	4.556	43	491249	519.018	ug/l	100
26) 2,2-Dichloropropane	4.465	77	155592	110.215	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	129785	100.871	ug/l	98
28) Bromochloromethane	4.891	49	105093	99.530	ug/l	100
29) Tetrahydrofuran	5.001	42	313121	510.264	ug/l	99
30) Chloroform	5.086	83	225402	100.255	ug/l	99
31) Cyclohexane	5.458	56	197136	102.056	ug/l	98
32) 1,1,1-Trichloroethane	5.379	97	198511	104.346	ug/l	99
36) 1,1-Dichloropropene	5.684	75	151448	103.515	ug/l	99
37) Ethyl Acetate	4.715	43	192130	104.207	ug/l	99
38) Carbon Tetrachloride	5.672	117	166465	105.278	ug/l	99
39) Methylcyclohexane	7.373	83	191752	106.921	ug/l	99
40) Benzene	6.031	78	452946	101.369	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045529.D
Acq On : 01 Apr 2025 18:38
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 02 02:54:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 02:44:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.922	41	107037	109.068	ug/l		99
42) 1,2-Dichloroethane	6.080	62	189528	102.696	ug/l		100
43) Isopropyl Acetate	6.336	43	305974	109.494	ug/l		100
44) Trichloroethene	7.123	130	107332	101.062	ug/l		97
45) 1,2-Dichloropropane	7.421	63	115731	103.806	ug/l		98
46) Dibromomethane	7.574	93	87381	102.101	ug/l		97
47) Bromodichloromethane	7.818	83	179265	104.886	ug/l		98
48) Methyl methacrylate	7.690	41	158241	109.675	ug/l		99
49) 1,4-Dioxane	7.665	88	52624	2015.906	ug/l		97
51) 4-Methyl-2-Pentanone	8.574	43	988881	533.814	ug/l		99
52) Toluene	8.714	92	276323	102.199	ug/l		99
53) t-1,3-Dichloropropene	8.976	75	169413	100.645	ug/l		100
54) cis-1,3-Dichloropropene	8.366	75	182328	113.521	ug/l		99
55) 1,1,2-Trichloroethane	9.147	97	109208	101.361	ug/l		98
56) Ethyl methacrylate	9.116	69	192034	115.168	ug/l		99
57) 1,3-Dichloropropane	9.305	76	192473	102.588	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	460297	545.696	ug/l		100
59) 2-Hexanone	9.427	43	738772	538.538	ug/l		99
60) Dibromochloromethane	9.519	129	128700	109.570	ug/l		98
61) 1,2-Dibromoethane	9.604	107	115919	106.282	ug/l		99
64) Tetrachloroethene	9.269	164	90817	94.325	ug/l		99
65) Chlorobenzene	10.073	112	296300	101.682	ug/l		98
66) 1,1,1,2-Tetrachloroethane	10.159	131	103437	102.243	ug/l		99
67) Ethyl Benzene	10.189	91	543568	104.152	ug/l		99
68) m/p-Xylenes	10.299	106	394241	207.694	ug/l		100
69) o-Xylene	10.640	106	195381	104.487	ug/l		99
70) Styrene	10.653	104	335333	108.654	ug/l		100
71) Bromoform	10.799	173	83632	110.714	ug/l	#	97
73) Isopropylbenzene	10.957	105	522436	100.944	ug/l		100
74) N-amyl acetate	10.842	43	275462	111.267	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.213	83	174977	96.243	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	154048m	97.744	ug/l		
77) Bromobenzene	11.195	156	119561	99.983	ug/l		99
78) n-propylbenzene	11.299	91	622679	104.454	ug/l		100
79) 2-Chlorotoluene	11.360	91	376682	98.840	ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	435137	101.675	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	51873	111.704	ug/l		95
82) 4-Chlorotoluene	11.451	91	432884	101.877	ug/l		99
83) tert-Butylbenzene	11.713	119	437649	103.292	ug/l		99
84) 1,2,4-Trimethylbenzene	11.750	105	444211	103.414	ug/l		99
85) sec-Butylbenzene	11.890	105	546857	105.082	ug/l		100
86) p-Isopropyltoluene	12.006	119	453109	105.609	ug/l		100
87) 1,3-Dichlorobenzene	11.969	146	221481	101.749	ug/l		99
88) 1,4-Dichlorobenzene	12.036	146	216367	98.047	ug/l		98
89) n-Butylbenzene	12.329	91	420694	113.075	ug/l		99
90) Hexachloroethane	12.536	117	80489	109.160	ug/l		100
91) 1,2-Dichlorobenzene	12.335	146	215157	99.419	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	12.939	75	43047	113.214	ug/l		99
93) 1,2,4-Trichlorobenzene	13.585	180	135046	112.106	ug/l		99
94) Hexachlorobutadiene	13.725	225	53636	103.326	ug/l		98
95) Naphthalene	13.774	128	499719	111.473	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	137328	108.869	ug/l		100

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045529.D
Acq On : 01 Apr 2025 18:38
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 02 02:54:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 02:44:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

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

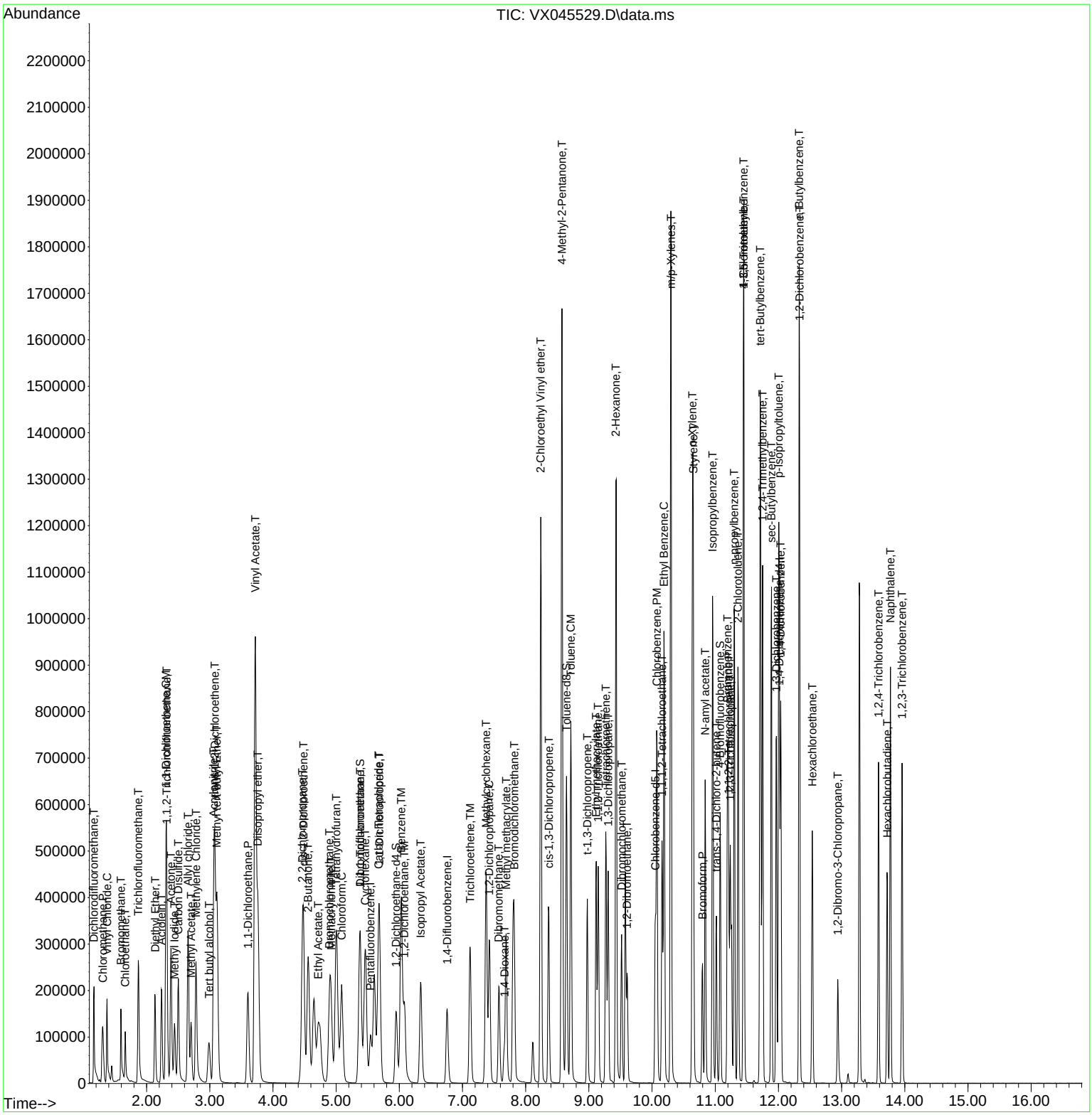
(#) = qualifier out of range (m) = manual integration (+) = signals summed

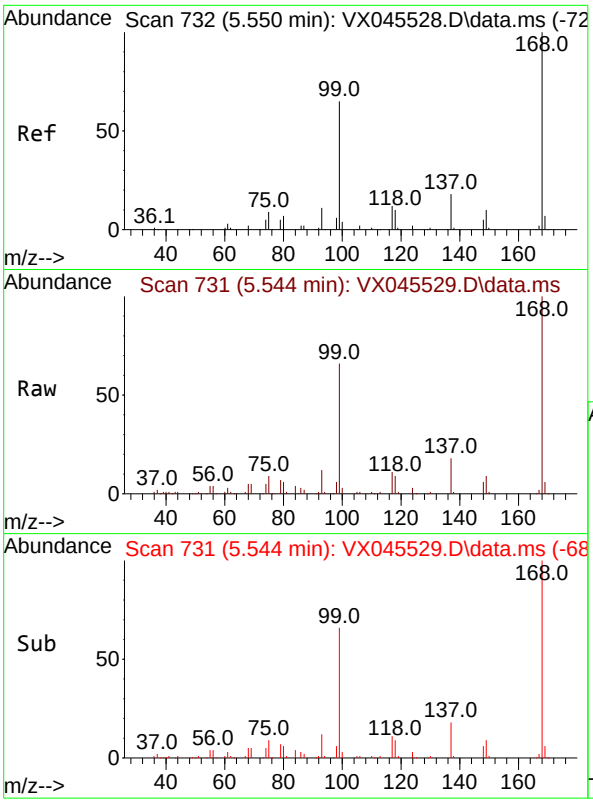
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045529.D
Acq On : 01 Apr 2025 18:38
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 02 02:54:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 02:44:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

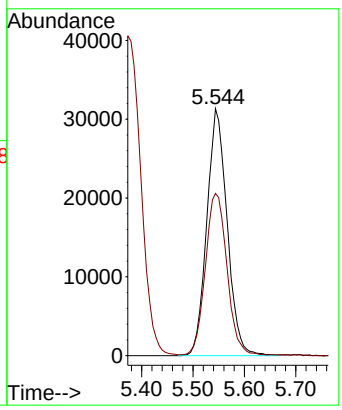




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion:168 Resp: 8610

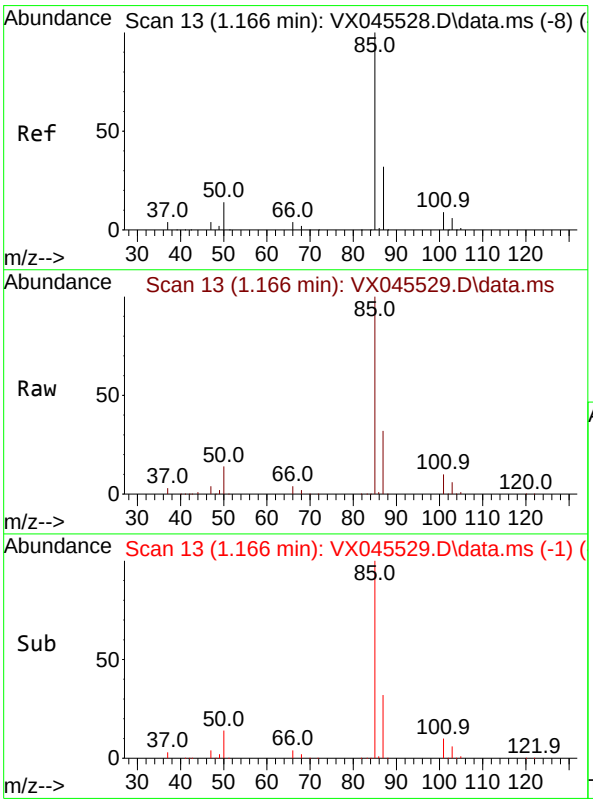
Ion	Ratio	Lower	Upper
168	100		
99	65.3	52.3	78.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

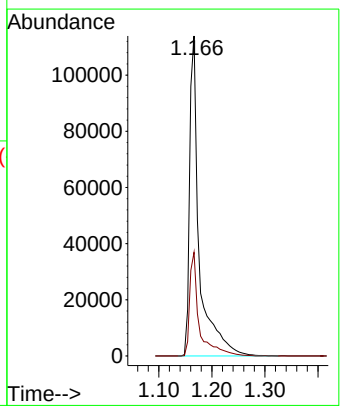
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

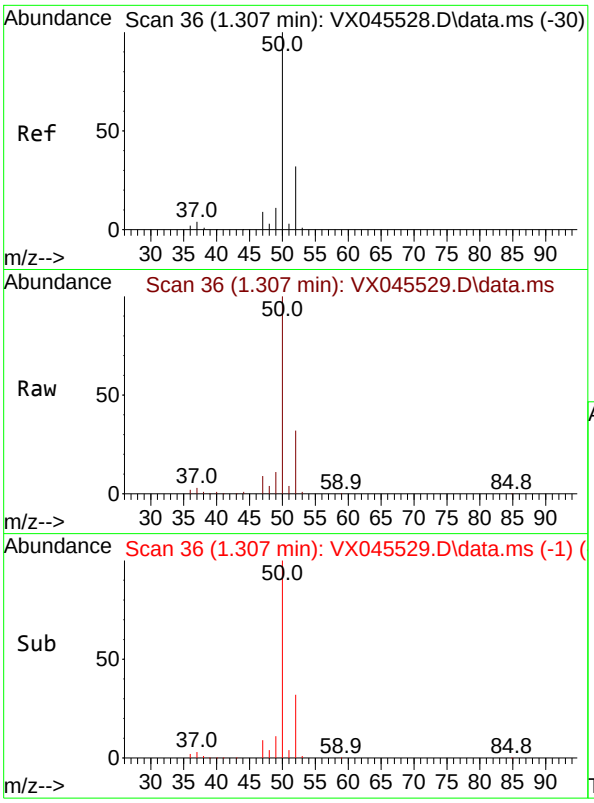


#2
Dichlorodifluoromethane
Concen: 111.909 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion: 85 Resp: 144108

Ion	Ratio	Lower	Upper
85	100		
87	32.4	16.1	48.2

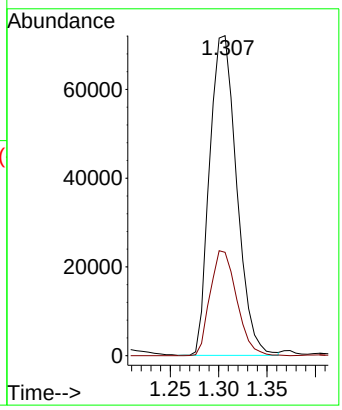




#3
Chloromethane
Concen: 106.098 ug/l
RT: 1.307 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion: 50 Resp: 14036

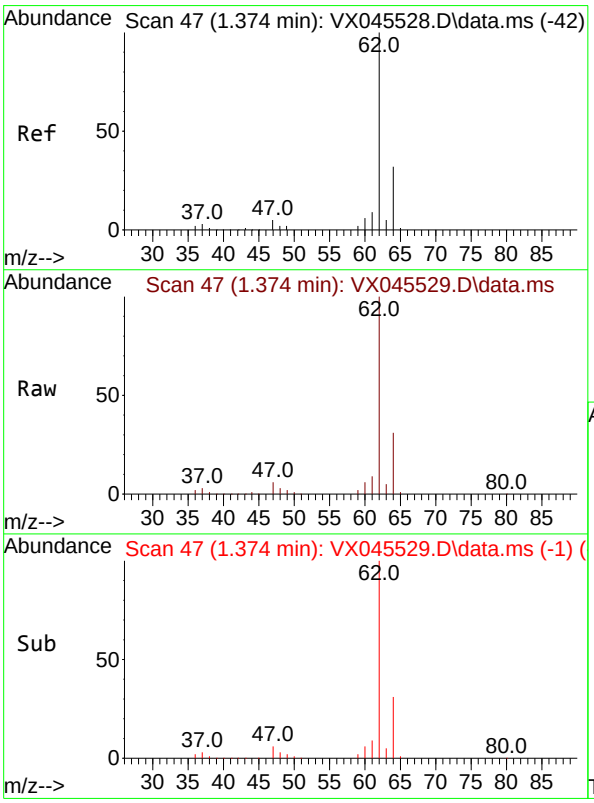
Ion	Ratio	Lower	Upper
50	100		
52	32.4	25.9	38.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

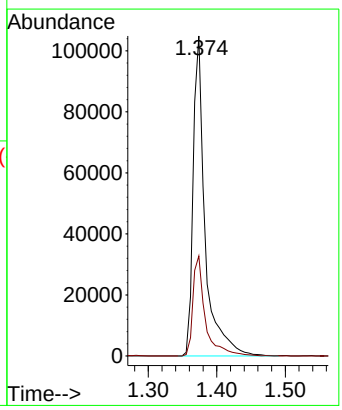
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

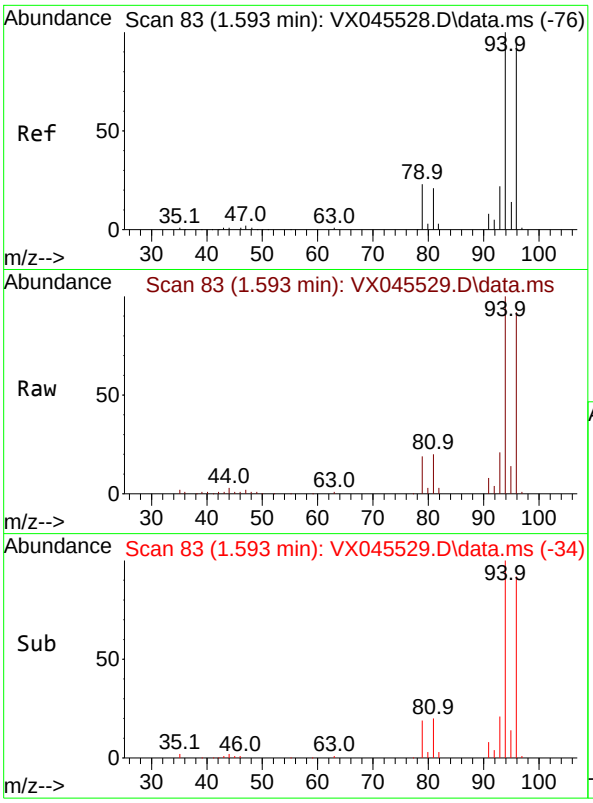


#4
Vinyl Chloride
Concen: 105.042 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion: 62 Resp: 127174

Ion	Ratio	Lower	Upper
62	100		
64	31.2	25.5	38.3

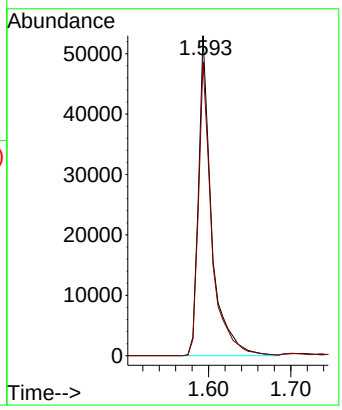




#5
Bromomethane
Concen: 102.266 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion: 94 Resp: 5870

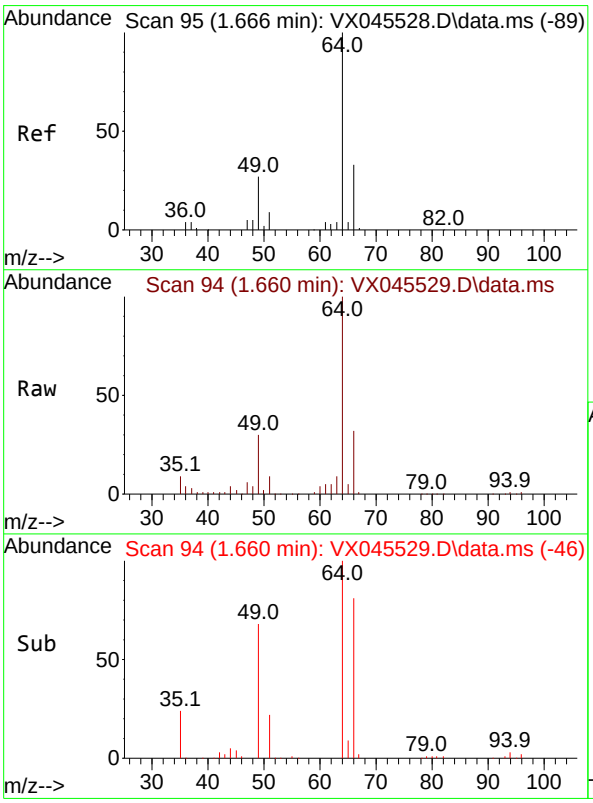
Ion	Ratio	Lower	Upper
94	100		
96	91.9	74.8	112.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

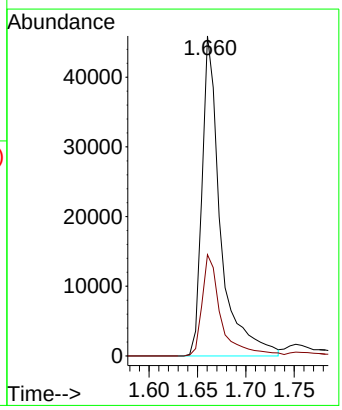
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

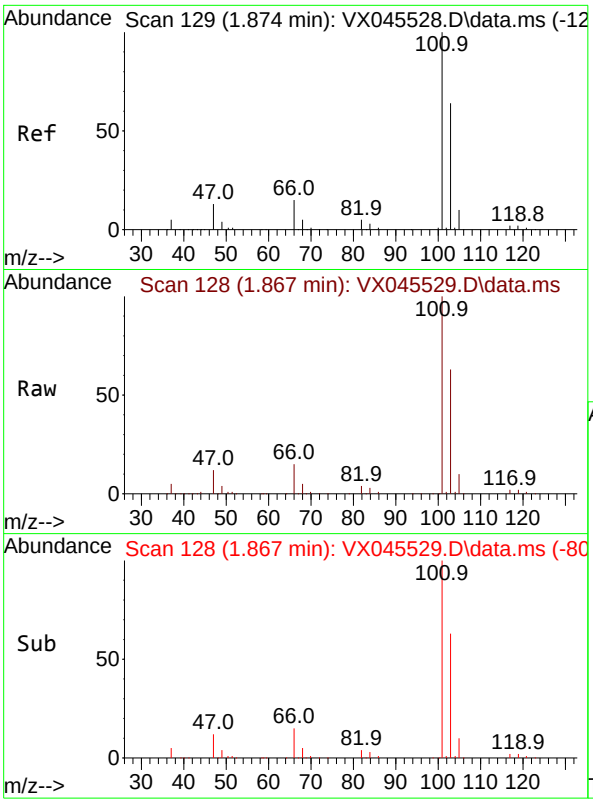


#6
Chloroethane
Concen: 95.120 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.006 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion: 64 Resp: 61099

Ion	Ratio	Lower	Upper
64	100		
66	31.7	26.3	39.5

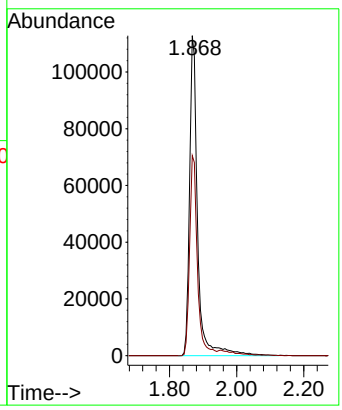




#7
Trichlorofluoromethane
Concen: 103.887 ug/l
RT: 1.867 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion:101 Resp: 18755

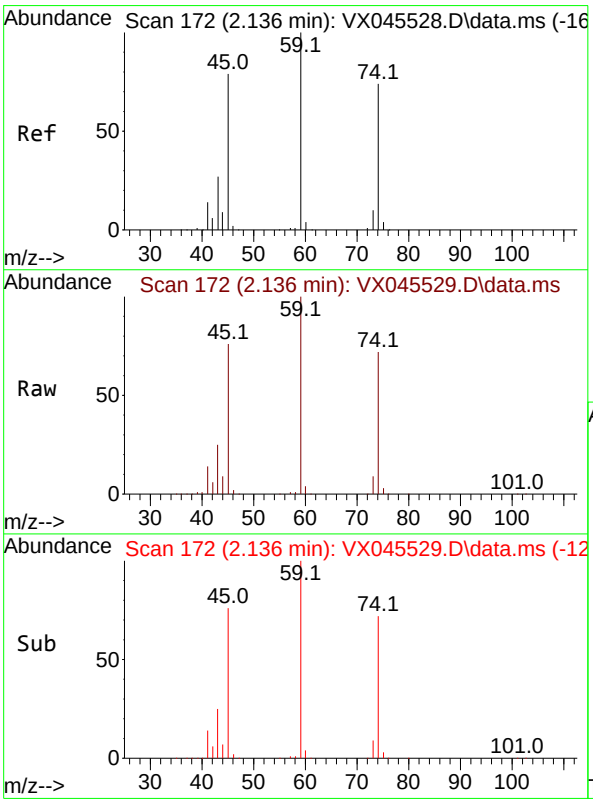
Ion	Ratio	Lower	Upper
101	100		
103	62.5	51.1	76.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

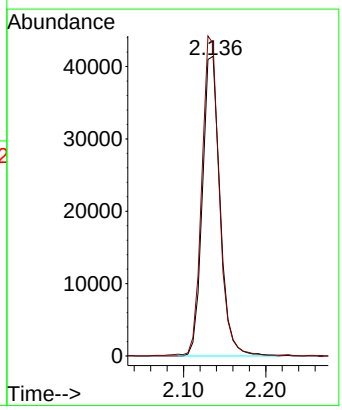
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

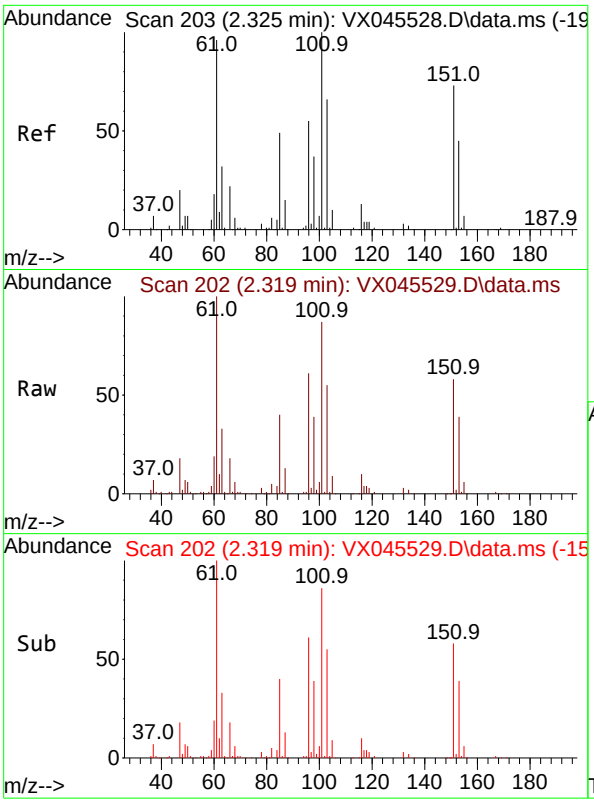


#8
Diethyl Ether
Concen: 101.767 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion: 74 Resp: 61683

Ion	Ratio	Lower	Upper
74	100		
45	106.7	53.0	159.1

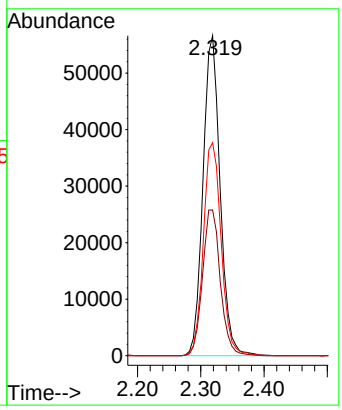




#9
1,1,2-Trichlorotrifluoroethane
Concen: 101.133 ug/l
RT: 2.319 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion:101 Resp: 10698

Ion	Ratio	Lower	Upper
101	100		
85	47.3	38.9	58.3
151	69.0	57.5	86.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025
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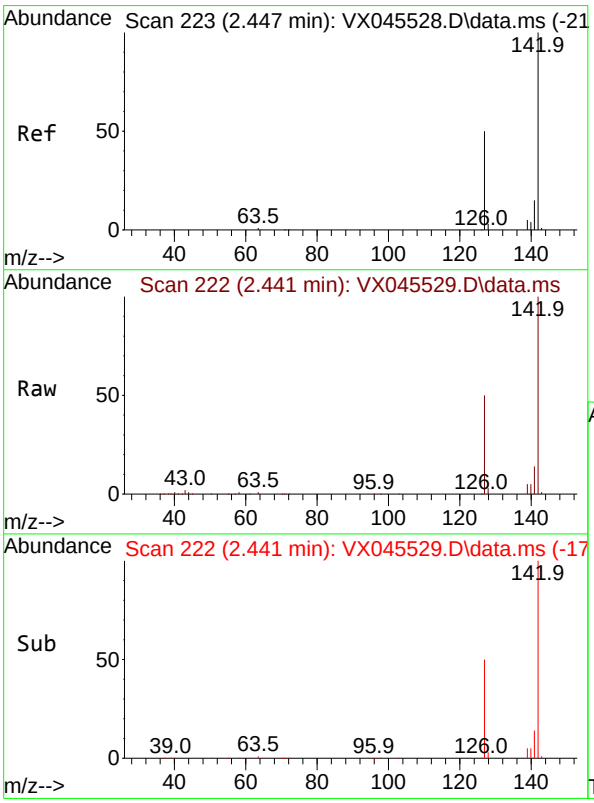
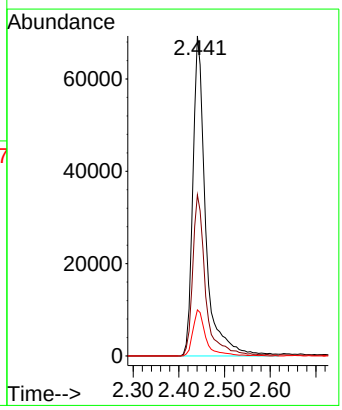
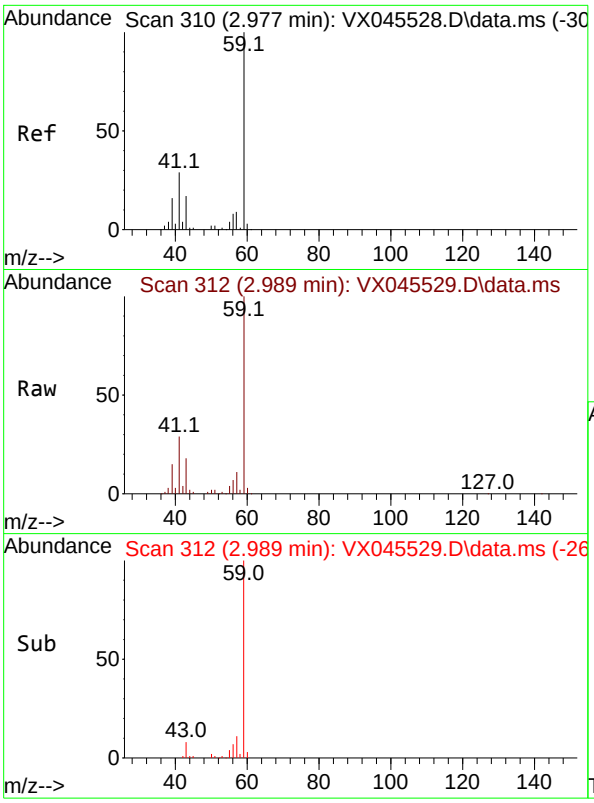


#10
Methyl Iodide
Concen: 102.863 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.006 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion:142 Resp: 135732

Ion	Ratio	Lower	Upper
142	100		
127	50.6	40.2	60.4
141	14.5	11.7	17.5





#11
Tert butyl alcohol
Concen: 519.999 ug/l
RT: 2.989 min Scan# 3
Delta R.T. 0.012 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion: 59 Resp: 11004

Ion	Ratio	Lower	Upper
59	100		
57	10.9	8.6	12.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025
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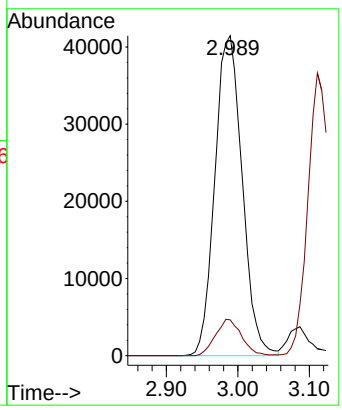
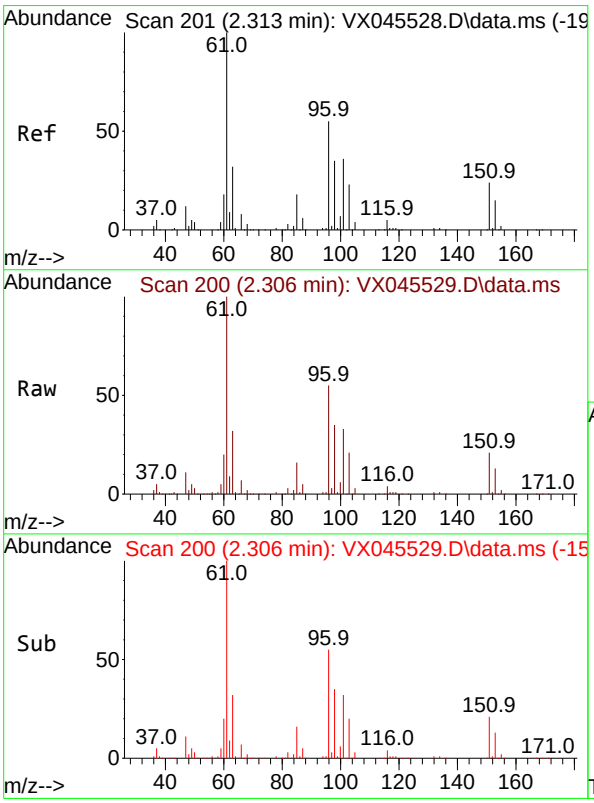
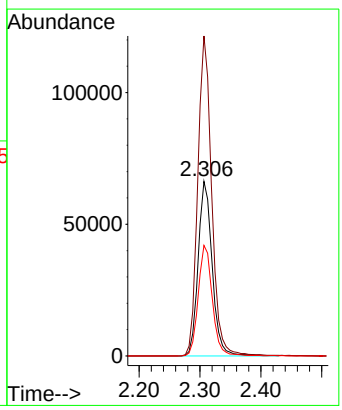


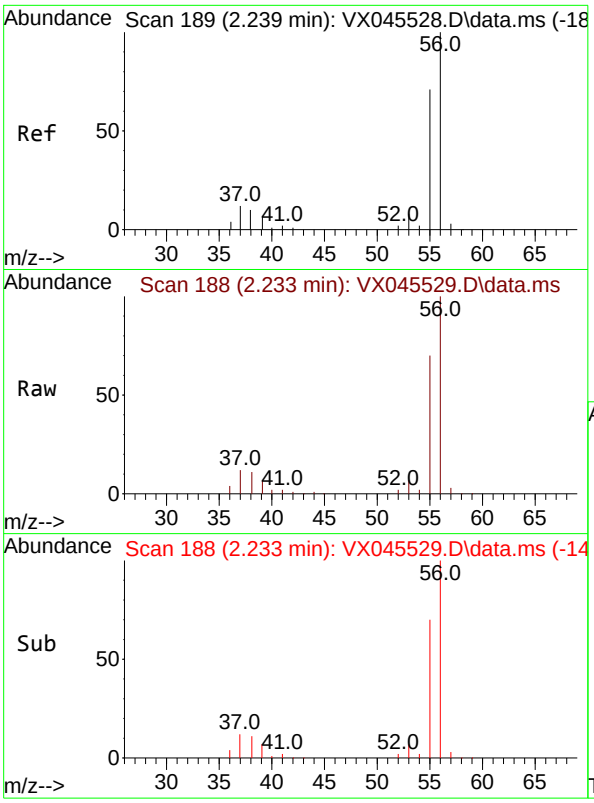


#12
1,1-Dichloroethene
Concen: 102.934 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.006 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion: 96 Resp: 106404

Ion	Ratio	Lower	Upper
96	100		
61	183.3	145.7	218.5
98	63.3	51.6	77.4

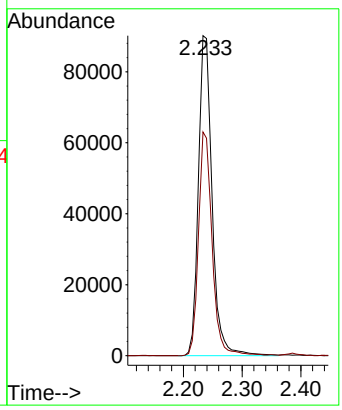




#13
Acrolein
Concen: 501.914 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion: 56 Resp: 14626

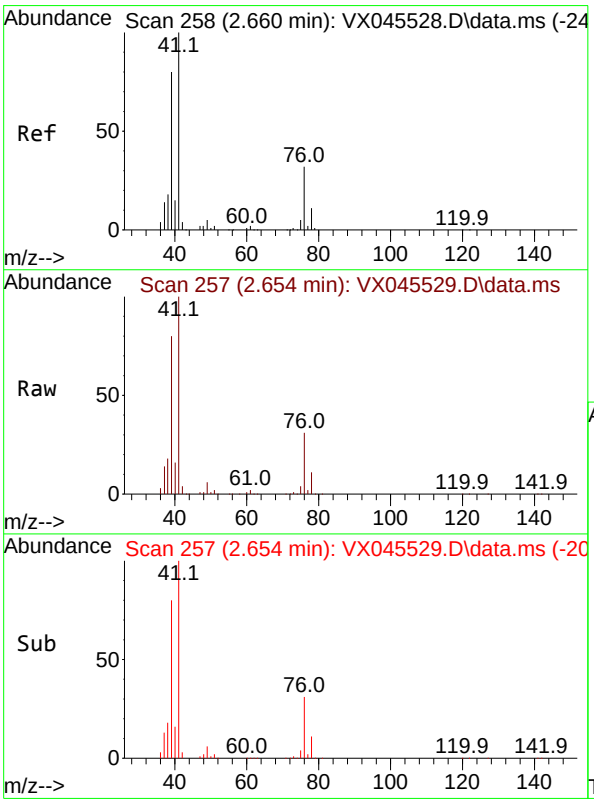
Ion	Ratio	Lower	Upper
56	100		
55	69.5	56.2	84.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

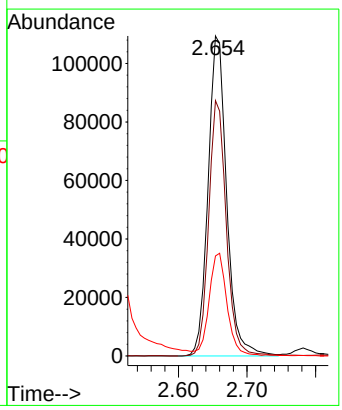
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

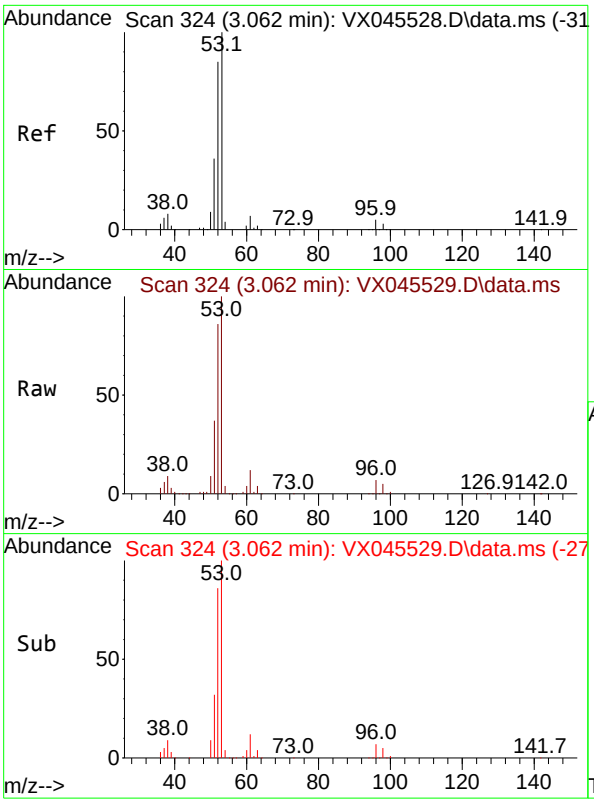


#14
Allyl chloride
Concen: 105.276 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.006 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion: 41 Resp: 206484

Ion	Ratio	Lower	Upper
41	100		
39	75.8	60.2	90.2
76	31.3	24.6	36.8

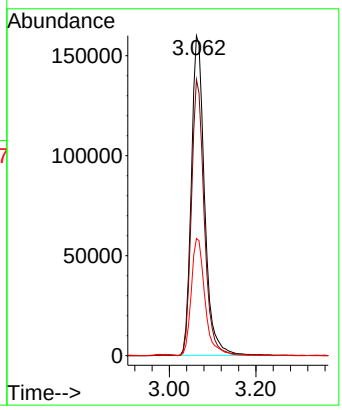




#15
Acrylonitrile
Concen: 507.426 ug/l
RT: 3.062 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion: 53 Resp: 33897

Ion	Ratio	Lower	Upper
53	100		
52	83.9	67.4	101.2
51	38.0	29.9	44.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
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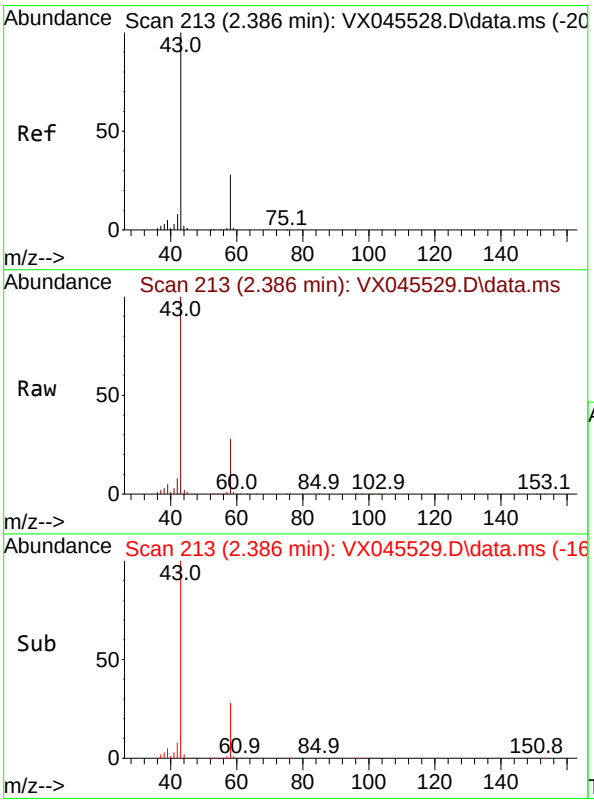
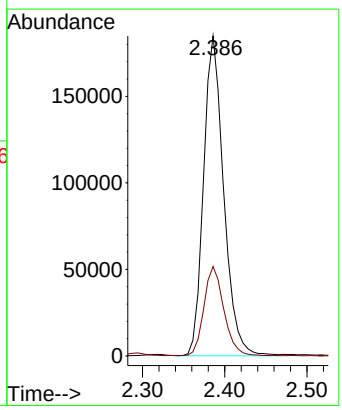
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

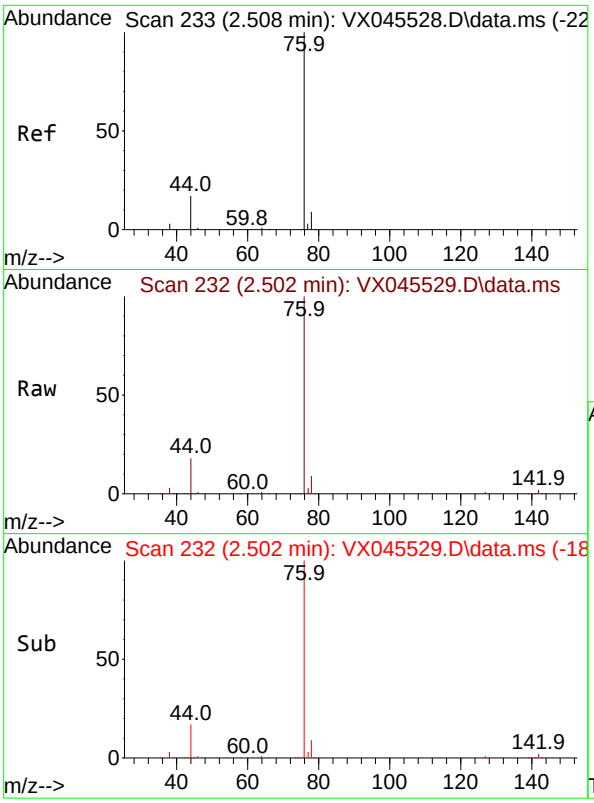


#16
Acetone
Concen: 486.054 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion: 43 Resp: 314285

Ion	Ratio	Lower	Upper
43	100		
58	27.8	22.3	33.5

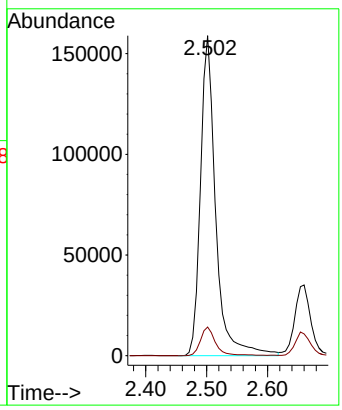




#17
Carbon Disulfide
Concen: 108.215 ug/l
RT: 2.502 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion: 76 Resp: 27628

Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.0	10.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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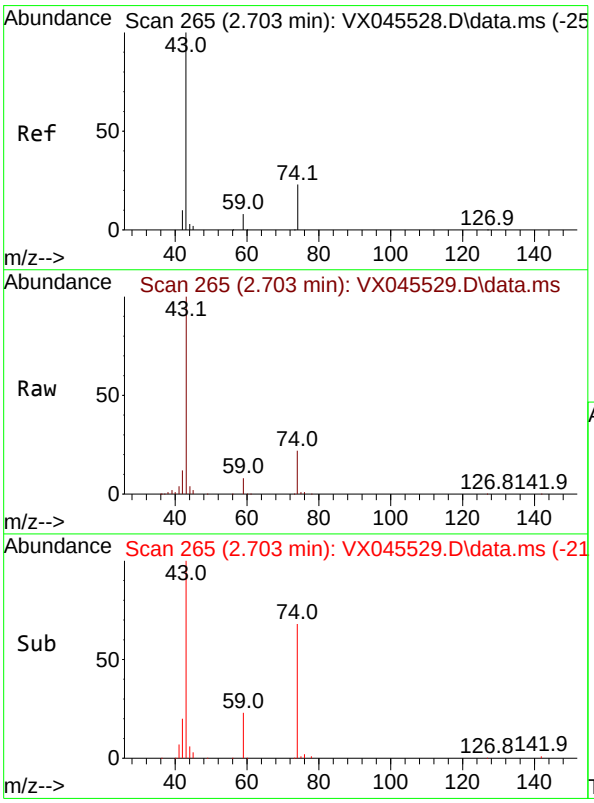
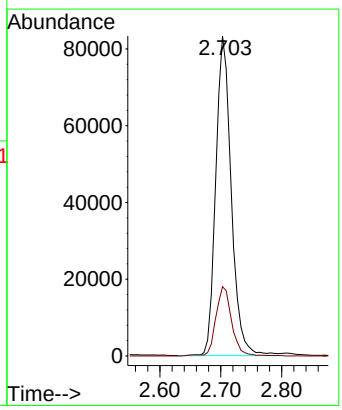
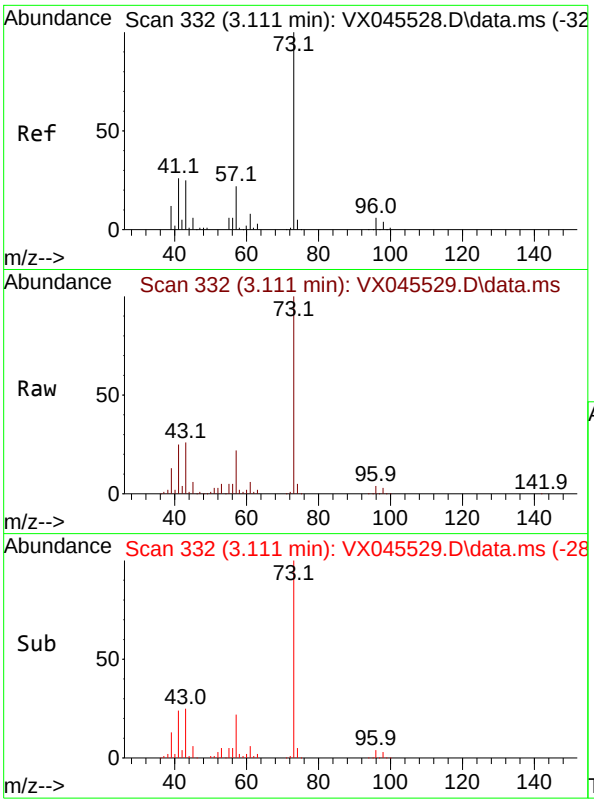


#18
Methyl Acetate
Concen: 98.925 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion: 43 Resp: 147272

Ion	Ratio	Lower	Upper
43	100		
74	22.2	17.5	26.3

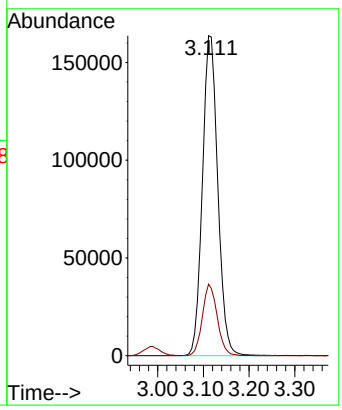




#19
Methyl tert-butyl Ether
Concen: 105.561 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion: 73 Resp: 38171

Ion	Ratio	Lower	Upper
73	100		
57	22.4	17.6	26.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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Reviewed By :Amit Patel 04/02/2025
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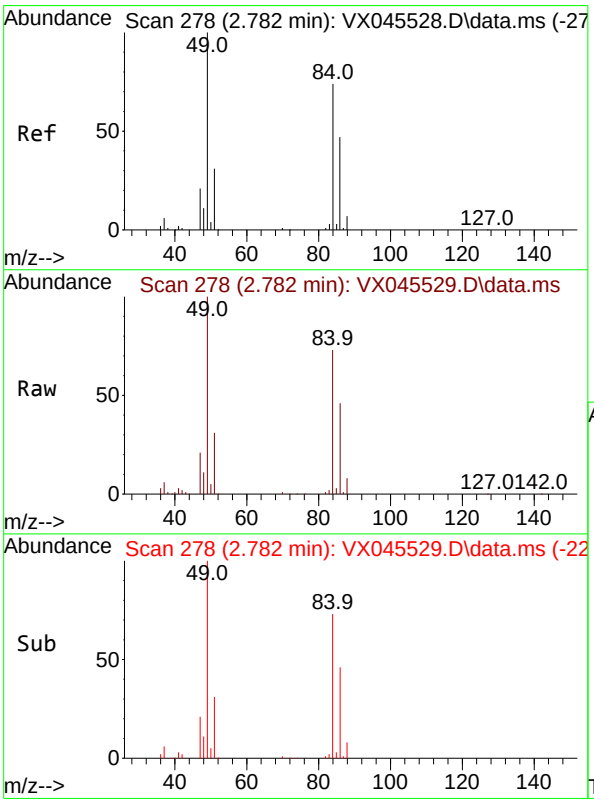
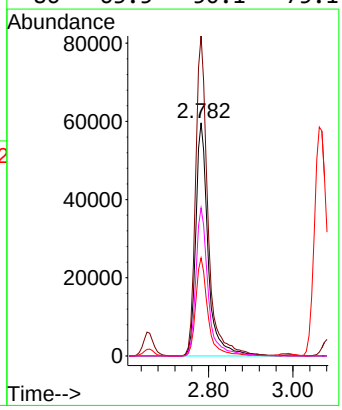
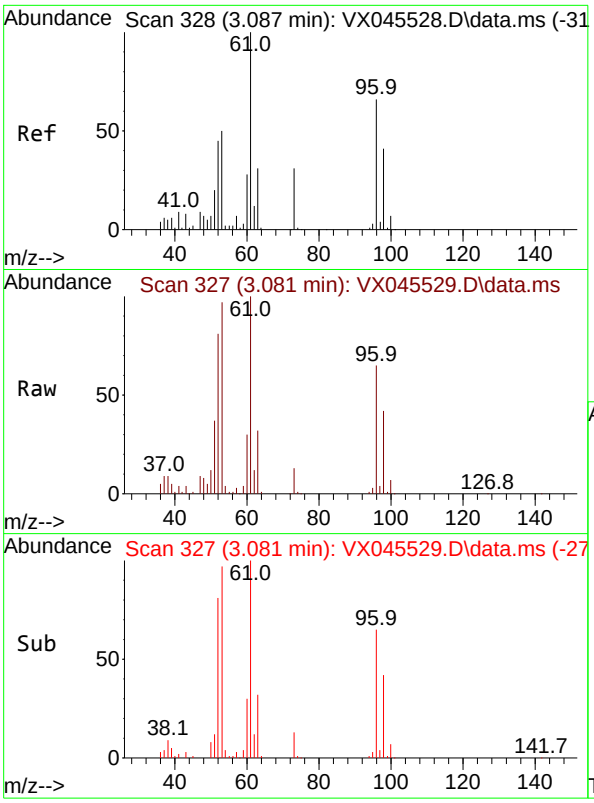


#20
Methylene Chloride
Concen: 100.316 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion: 84 Resp: 121435

Ion	Ratio	Lower	Upper
84	100		
49	137.2	107.5	161.3
51	42.1	33.0	49.6
86	63.5	50.1	75.1





#21
trans-1,2-Dichloroethene
Concen: 101.220 ug/l
RT: 3.081 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion: 96 Resp: 10689

Ion	Ratio	Lower	Upper
96	100		
61	153.1	121.0	181.6
98	63.7	49.7	74.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
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Reviewed By :Amit Patel 04/02/2025
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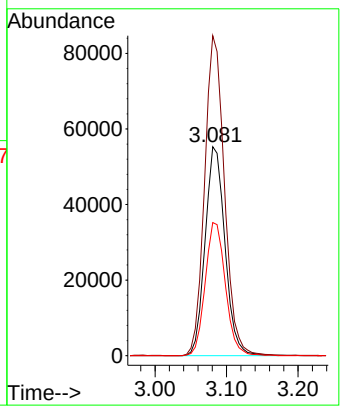
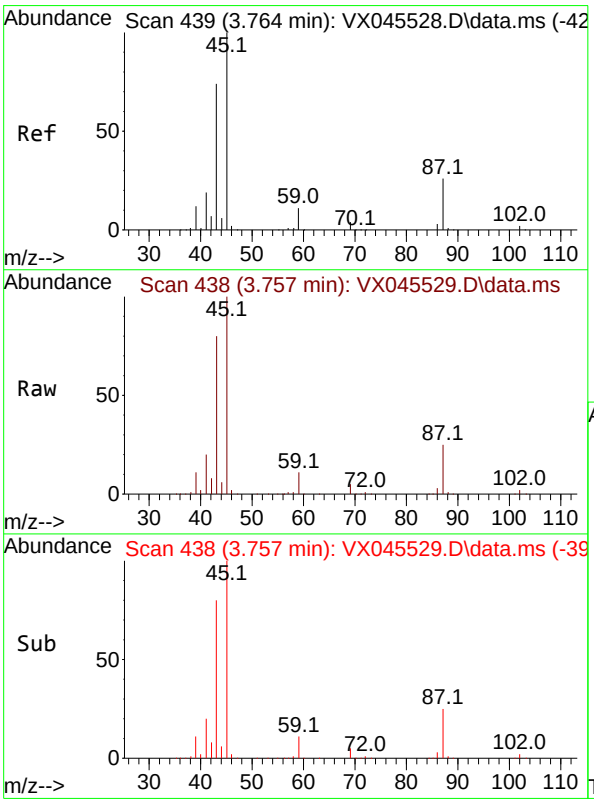
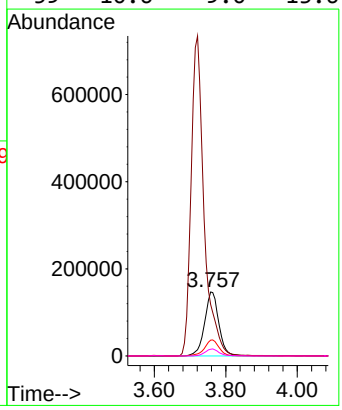


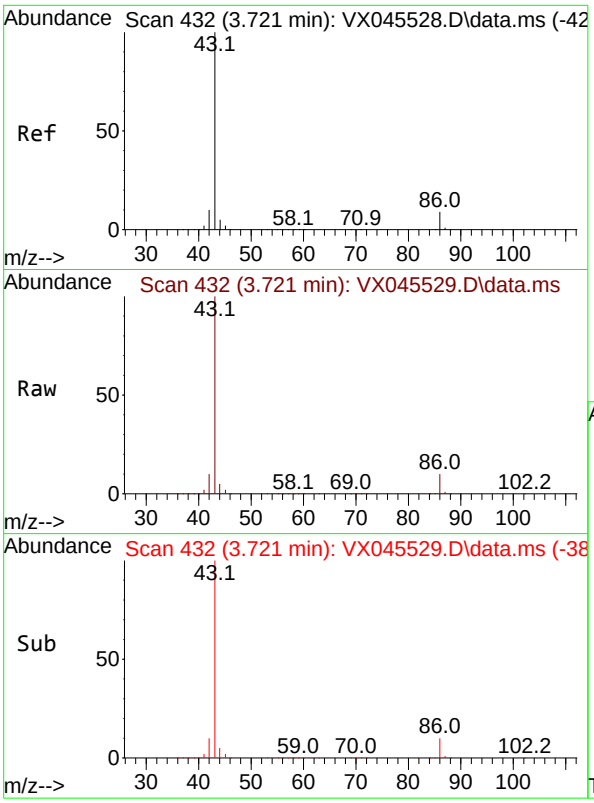


#22
Diisopropyl ether
Concen: 105.132 ug/l
RT: 3.757 min Scan# 438
Delta R.T. -0.006 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion: 45 Resp: 406185

Ion	Ratio	Lower	Upper
45	100		
43	80.1	59.3	88.9
87	24.7	20.4	30.6
59	10.6	9.0	13.6





#23
Vinyl Acetate
Concen: 553.853 ug/l
RT: 3.721 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion: 43 Resp: 184881

Ion	Ratio	Lower	Upper
43	100		
86	9.6	7.5	11.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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Reviewed By :Amit Patel 04/02/2025
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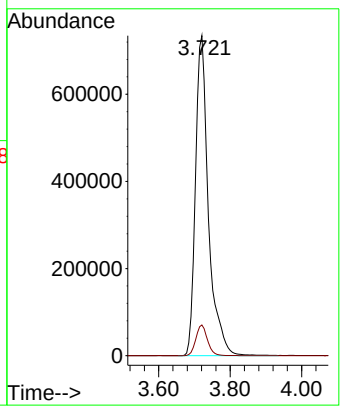
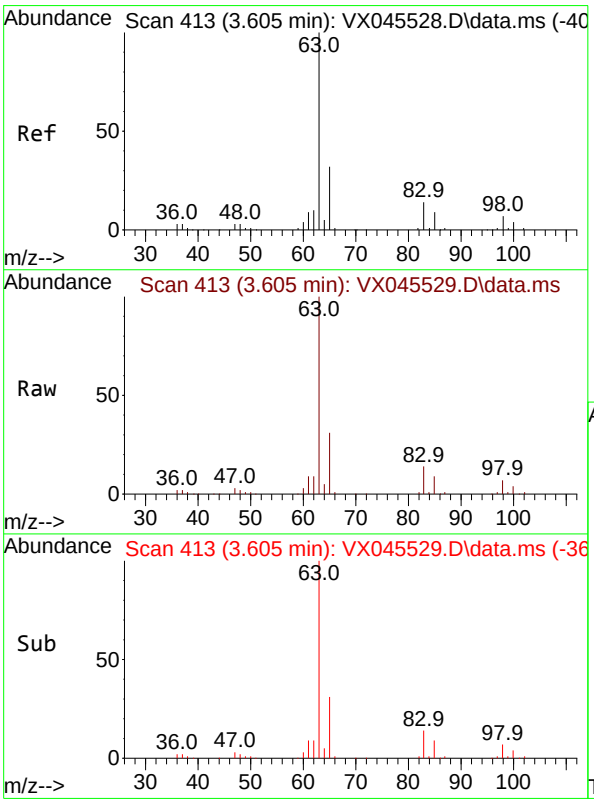
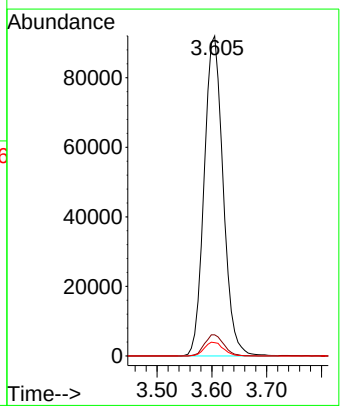


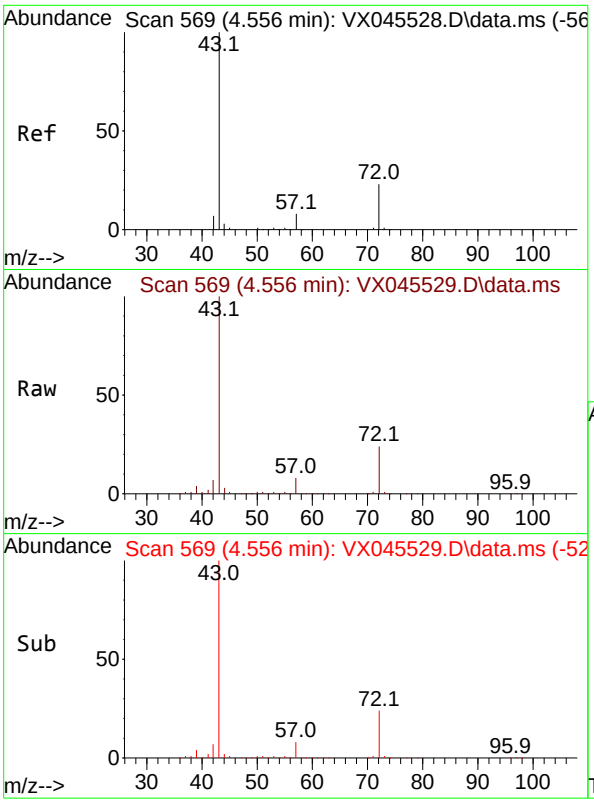


#24
1,1-Dichloroethane
Concen: 101.114 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion: 63 Resp: 220934

Ion	Ratio	Lower	Upper
63	100		
98	6.6	3.4	10.1
100	4.2	2.2	6.6

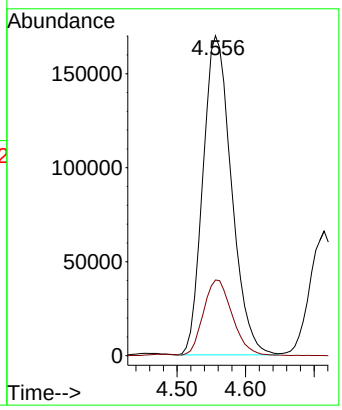




#25
2-Butanone
Concen: 519.018 ug/l
RT: 4.556 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion: 43 Resp: 49124

Ion	Ratio	Lower	Upper
43	100		
72	23.5	18.6	28.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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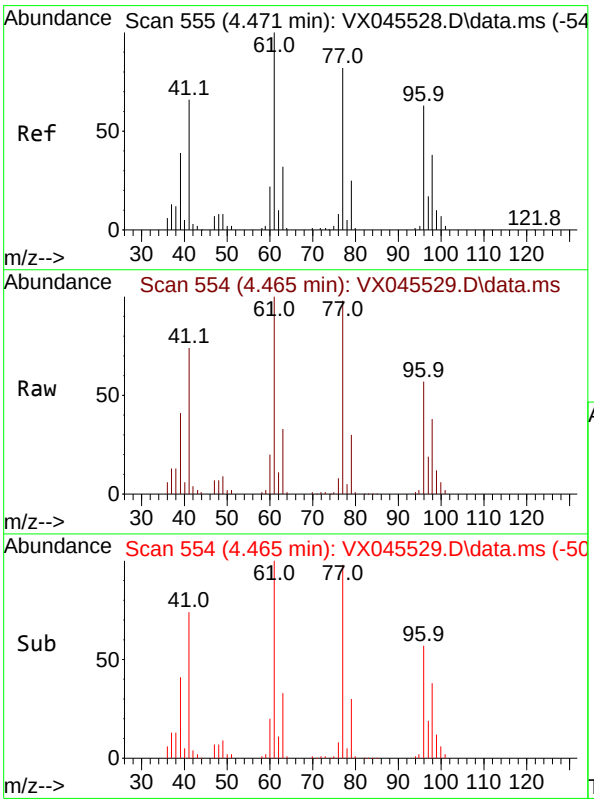
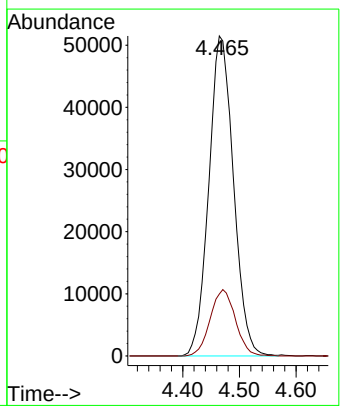
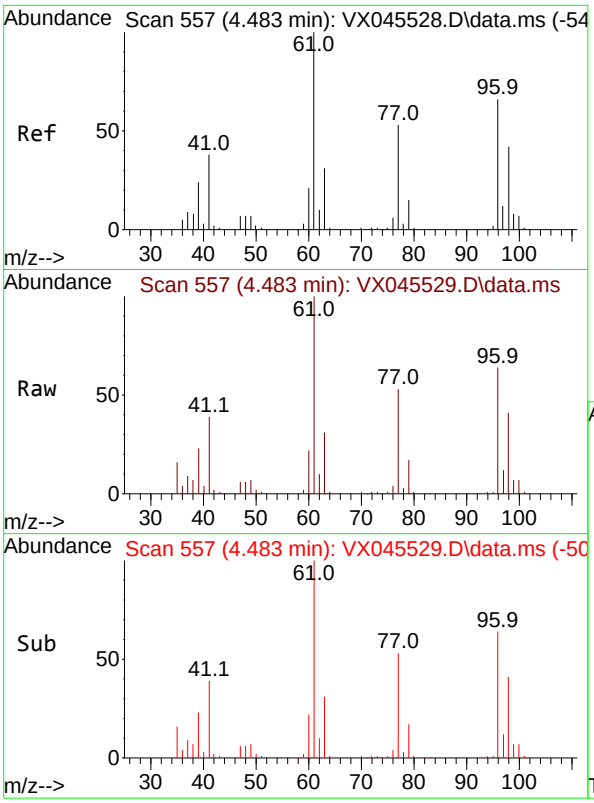


#26
2,2-Dichloropropane
Concen: 110.215 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.006 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion: 77 Resp: 155592

Ion	Ratio	Lower	Upper
77	100		
97	21.2	10.6	31.8

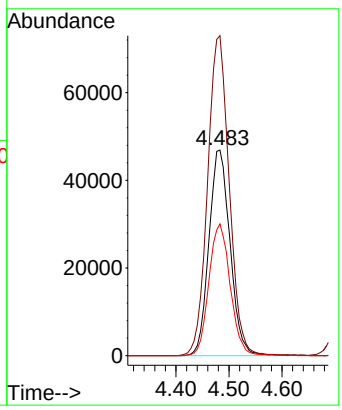




#27
cis-1,2-Dichloroethene
Concen: 100.871 ug/l
RT: 4.483 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion: 96 Resp: 12978

Ion	Ratio	Lower	Upper
96	100		
61	159.4	0.0	313.2
98	64.7	0.0	126.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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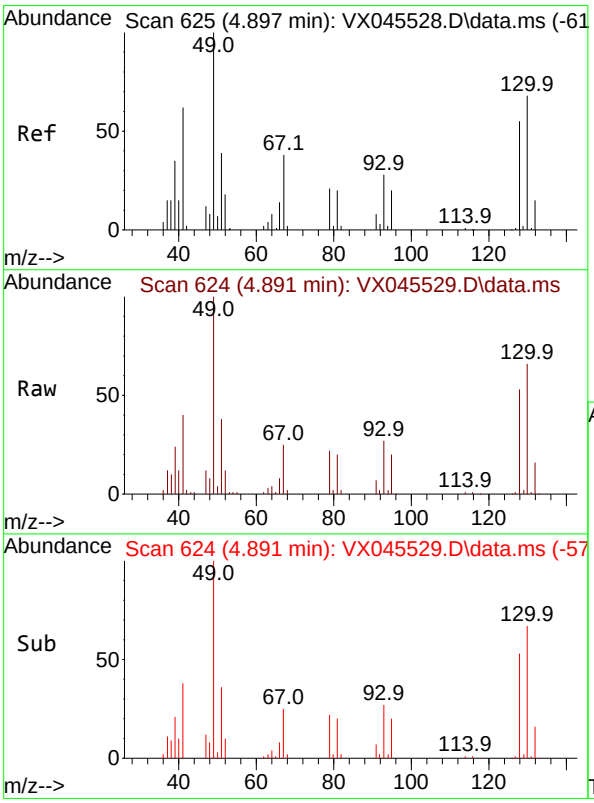
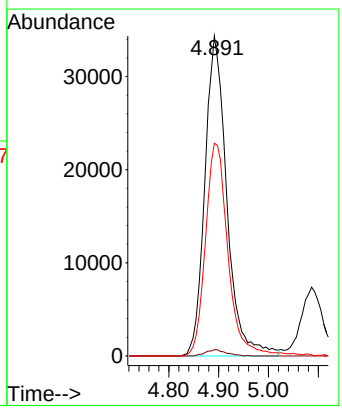
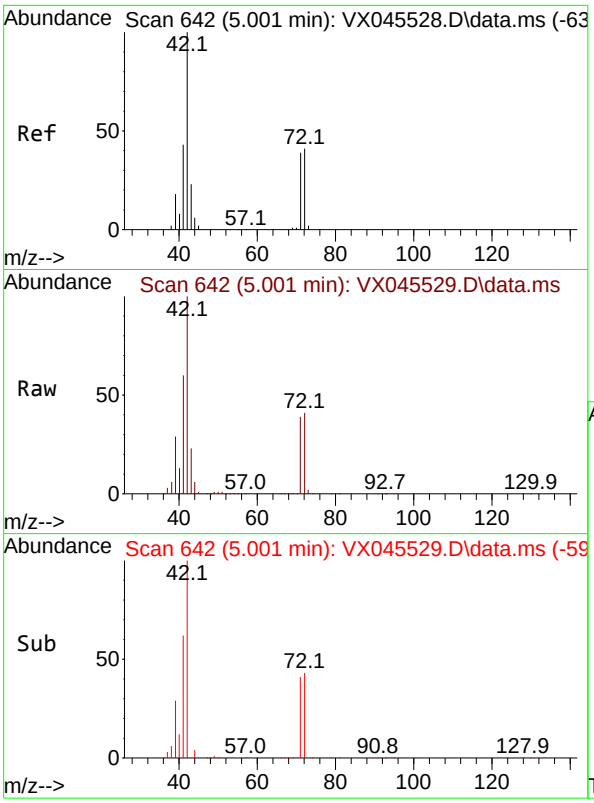


#28
Bromochloromethane
Concen: 99.530 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion: 49 Resp: 105093

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	3.8
130	68.4	54.6	81.8





#29
Tetrahydrofuran
Concen: 510.264 ug/l
RT: 5.001 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion: 42 Resp: 31312

Ion	Ratio	Lower	Upper
42	100		
72	42.3	33.4	50.0
71	39.1	31.4	47.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
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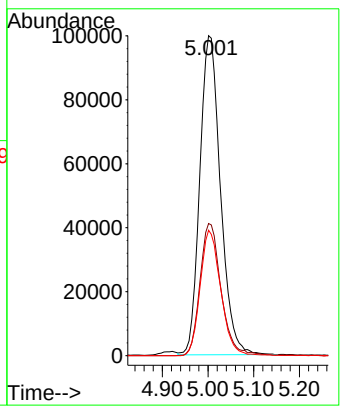
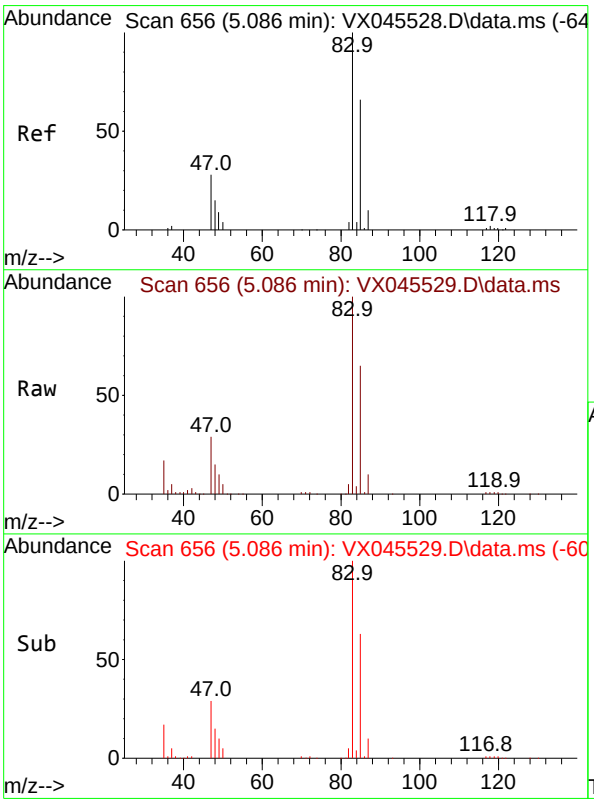
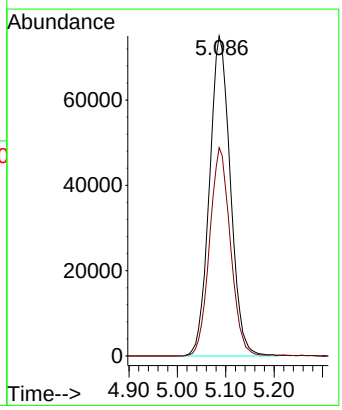


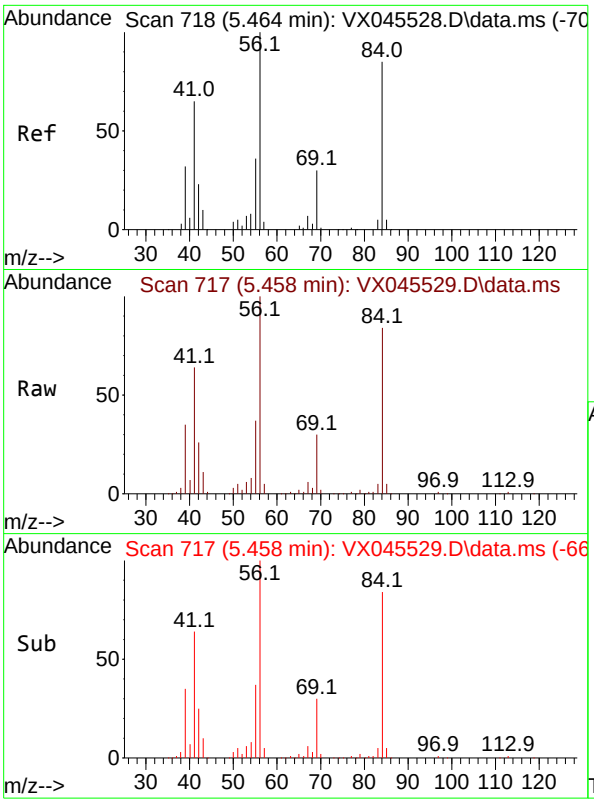


#30
Chloroform
Concen: 100.255 ug/l
RT: 5.086 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion: 83 Resp: 225402

Ion	Ratio	Lower	Upper
83	100		
85	65.1	52.8	79.2

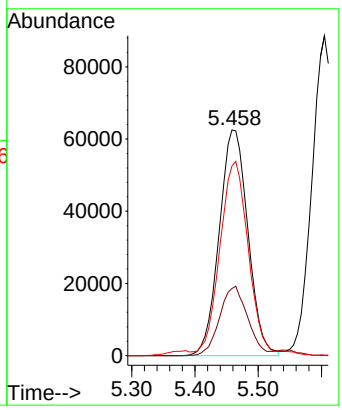




#31
Cyclohexane
Concen: 102.056 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion: 56 Resp: 19713

Ion	Ratio	Lower	Upper
56	100		
69	29.8	23.6	35.4
84	82.1	67.7	101.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
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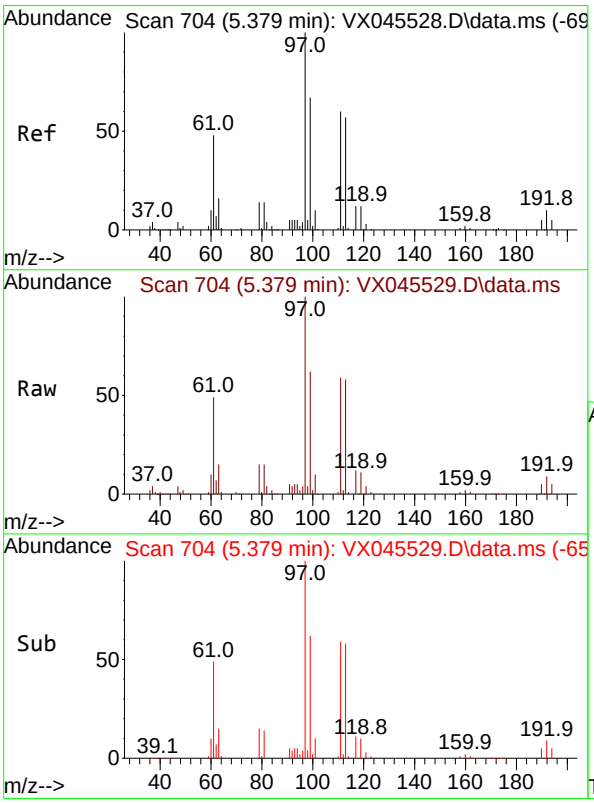
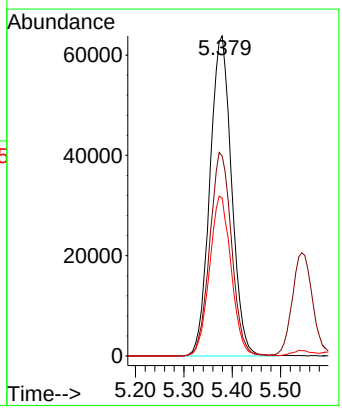
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

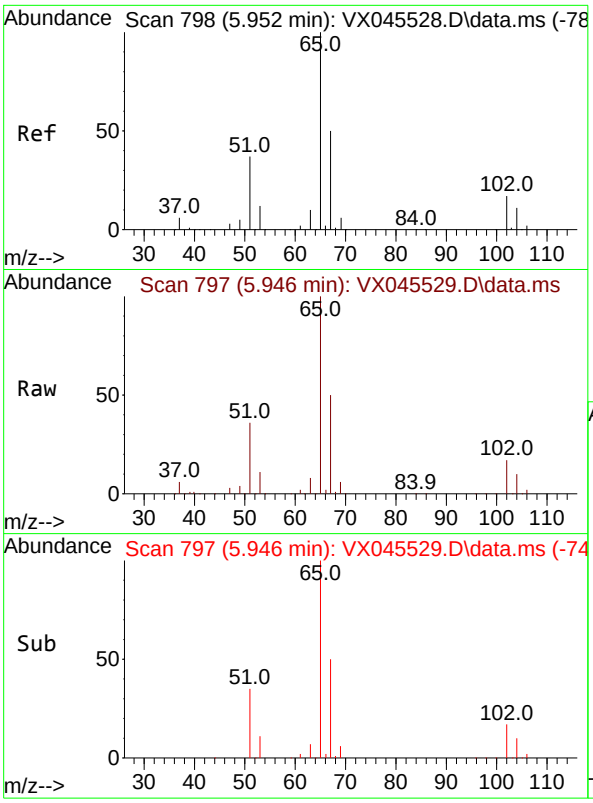


#32
1,1,1-Trichloroethane
Concen: 104.346 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion: 97 Resp: 198511

Ion	Ratio	Lower	Upper
97	100		
99	64.1	51.7	77.5
61	50.2	41.0	61.4

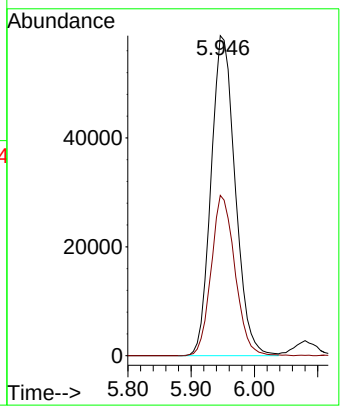




#33
1,2-Dichloroethane-d4
Concen: 98.914 ug/l
RT: 5.946 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion: 65 Resp: 15575

Ion	Ratio	Lower	Upper
65	100		
67	49.3	0.0	99.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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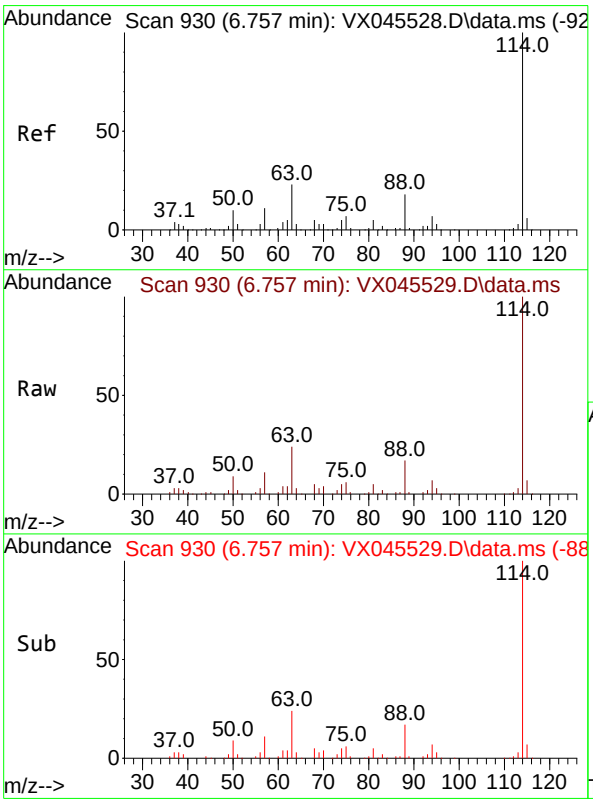
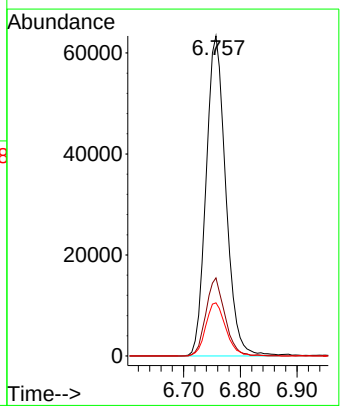
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

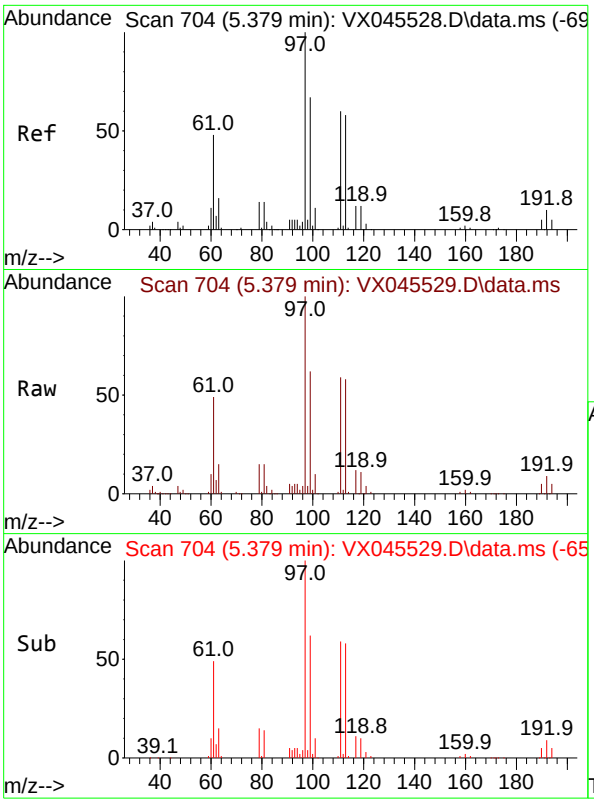


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion:114 Resp: 152724

Ion	Ratio	Lower	Upper
114	100		
63	24.4	0.0	46.8
88	16.6	0.0	35.4

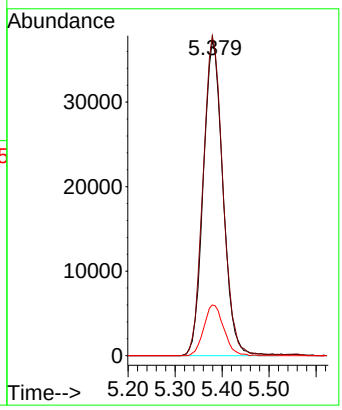




#35
Dibromofluoromethane
Concen: 99.585 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion:113 Resp: 10790

Ion	Ratio	Lower	Upper
113	100		
111	102.5	81.8	122.6
192	16.4	13.8	20.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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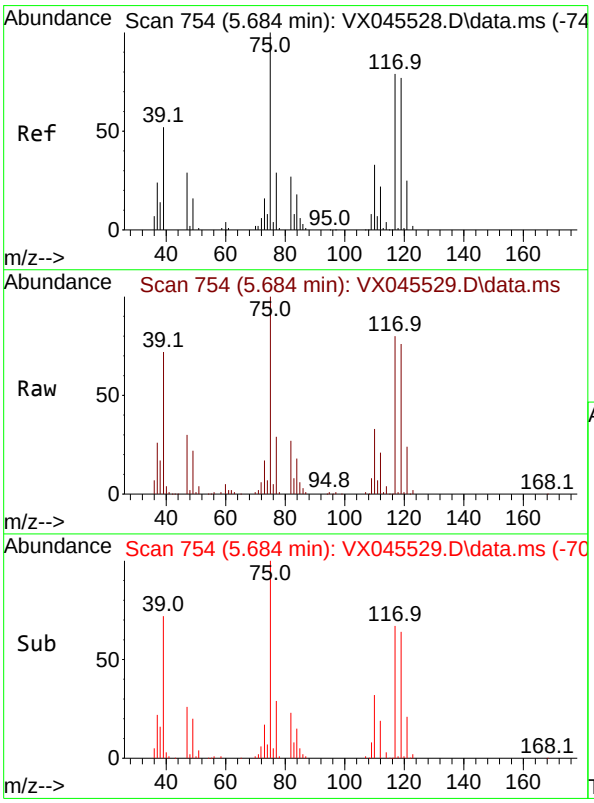
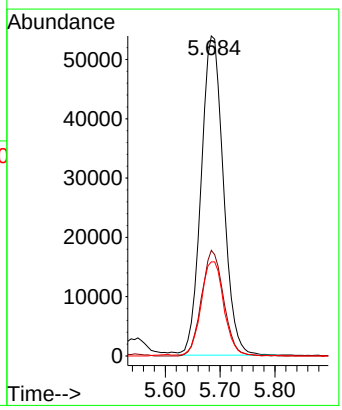
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

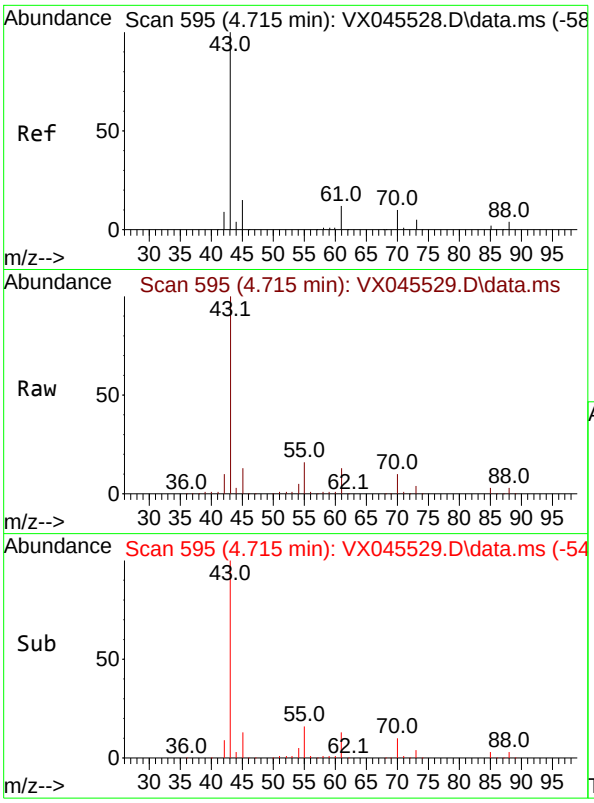


#36
1,1-Dichloropropene
Concen: 103.515 ug/l
RT: 5.684 min Scan# 754
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion: 75 Resp: 151448

Ion	Ratio	Lower	Upper
75	100		
110	32.8	16.9	50.6
77	30.4	25.0	37.4

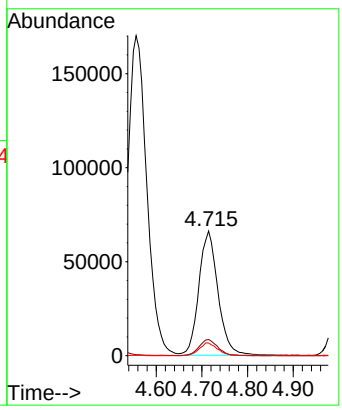




#37
Ethyl Acetate
Concen: 104.207 ug/l
RT: 4.715 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion: 43 Resp: 19213

Ion	Ratio	Lower	Upper
43	100		
61	12.9	9.9	14.9
70	9.8	7.5	11.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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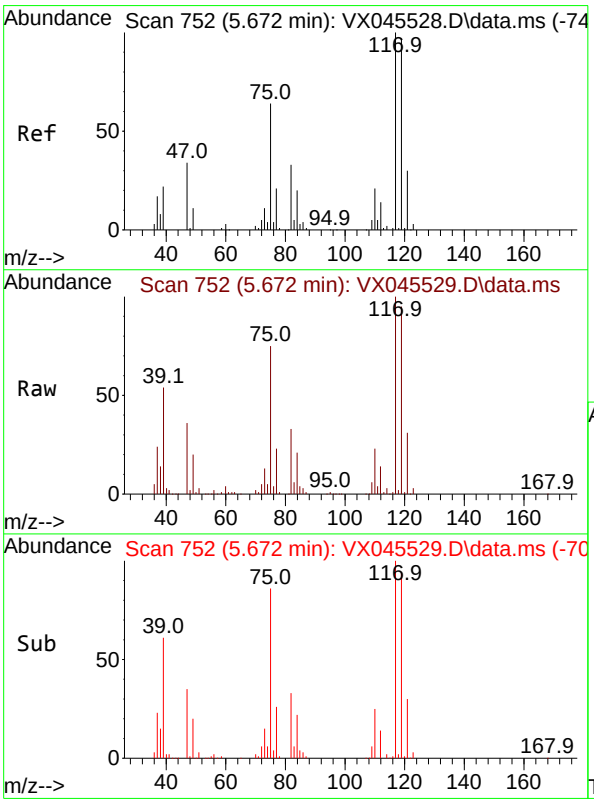
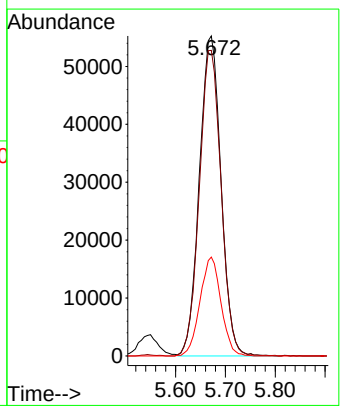
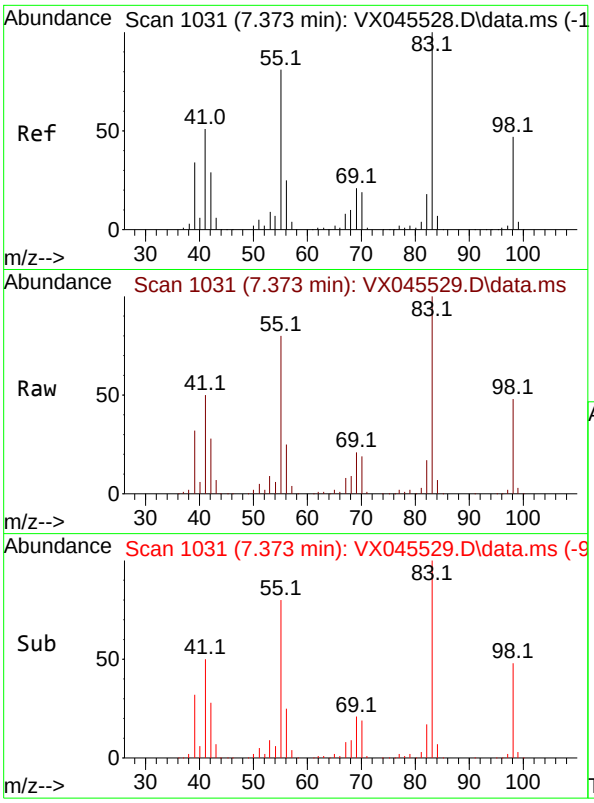


#38
Carbon Tetrachloride
Concen: 105.278 ug/l
RT: 5.672 min Scan# 752
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion:117 Resp: 166465

Ion	Ratio	Lower	Upper
117	100		
119	95.5	76.9	115.3
121	30.9	24.2	36.2

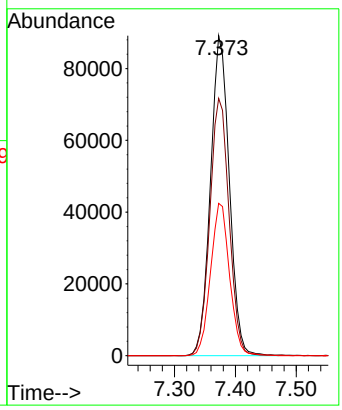




#39
Methylcyclohexane
Concen: 106.921 ug/l
RT: 7.373 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion: 83 Resp: 19175

Ion	Ratio	Lower	Upper
83	100		
55	80.4	64.9	97.3
98	47.6	37.4	56.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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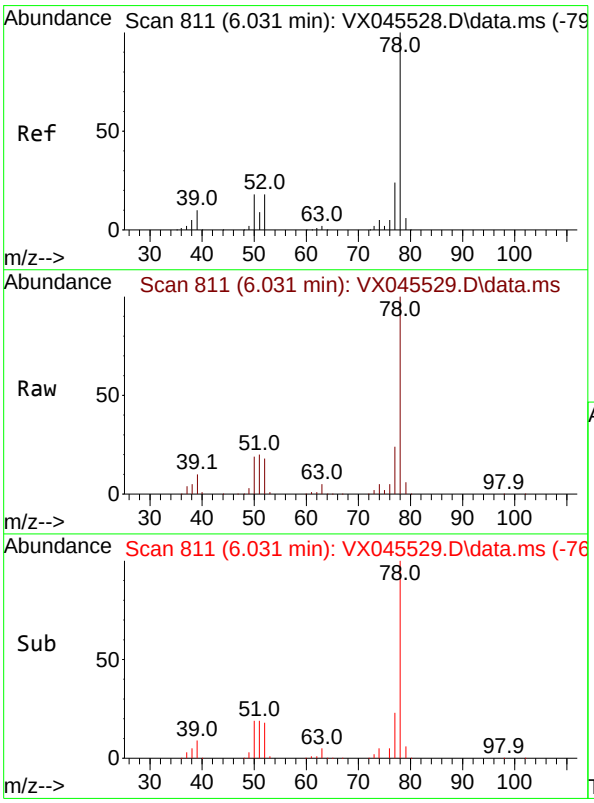
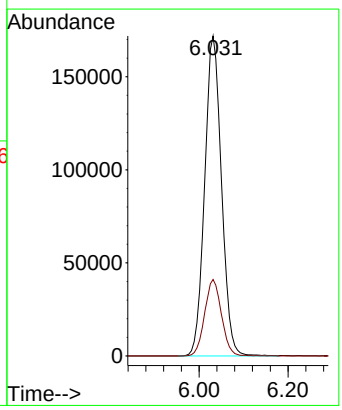
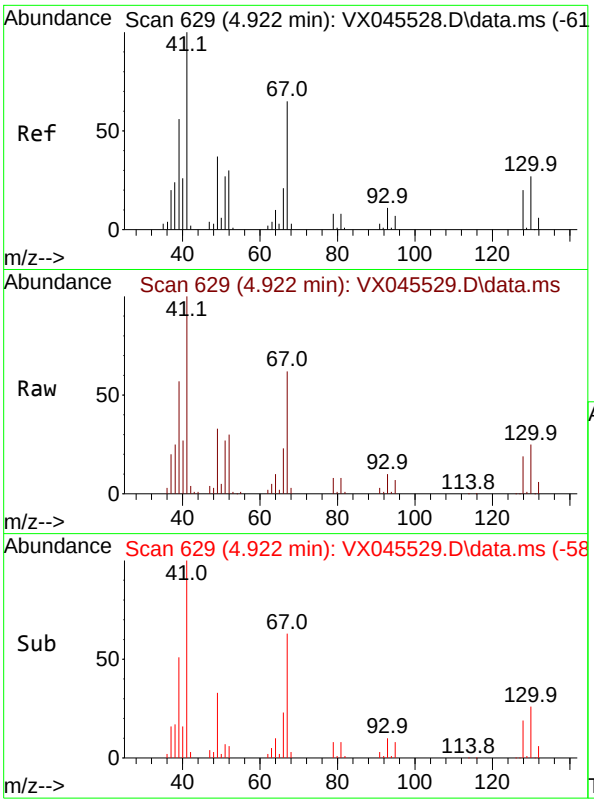


#40
Benzene
Concen: 101.369 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion: 78 Resp: 452946

Ion	Ratio	Lower	Upper
78	100		
77	23.9	19.0	28.6

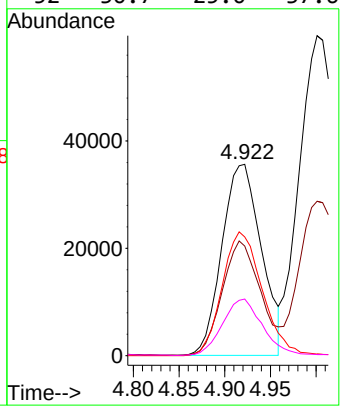




#41
Methacrylonitrile
Concen: 109.068 ug/l
RT: 4.922 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion: 41 Resp: 10703

Ion	Ratio	Lower	Upper
41	100		
39	57.9	47.0	70.6
67	66.2	53.2	79.8
52	30.7	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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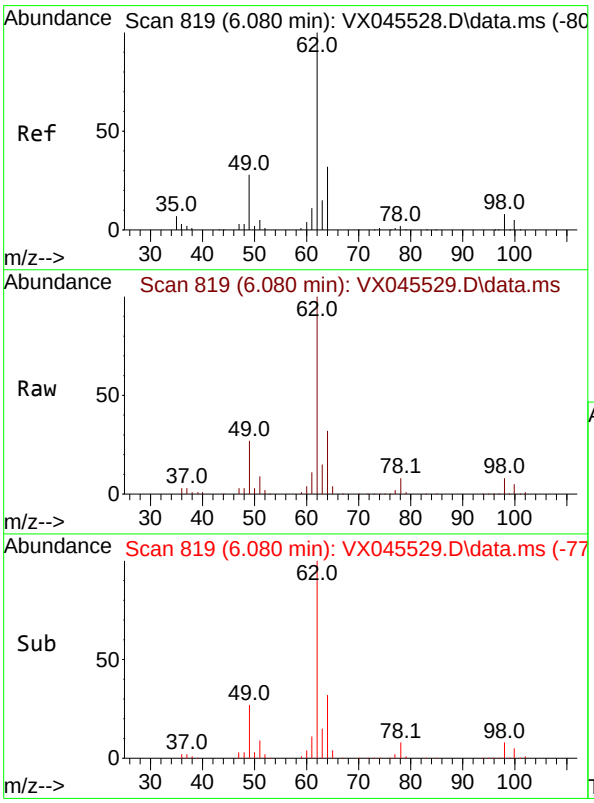
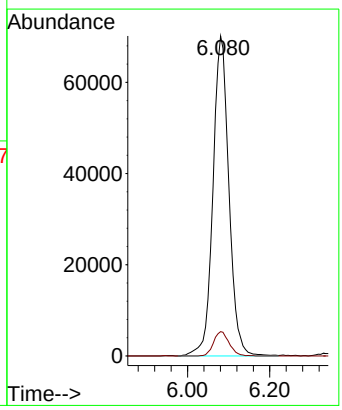
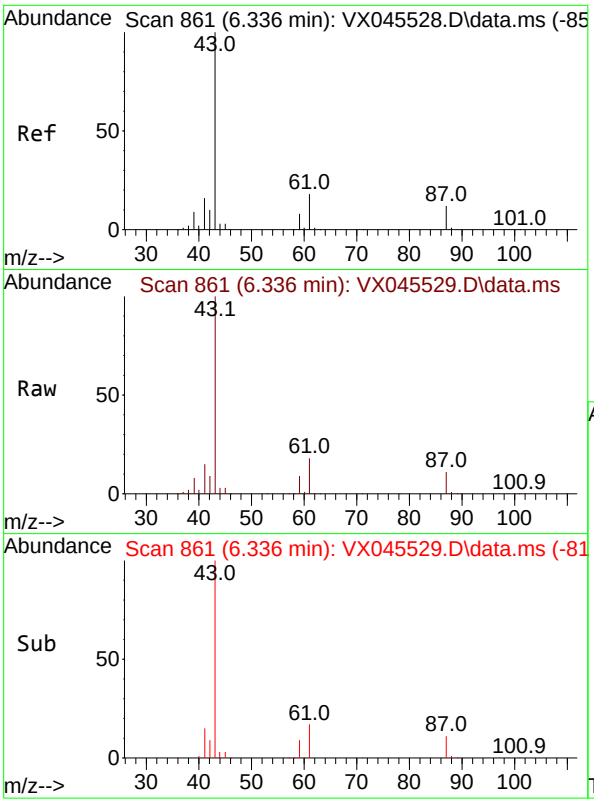


#42
1,2-Dichloroethane
Concen: 102.696 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion: 62 Resp: 189528

Ion	Ratio	Lower	Upper
62	100		
98	7.4	0.0	15.2

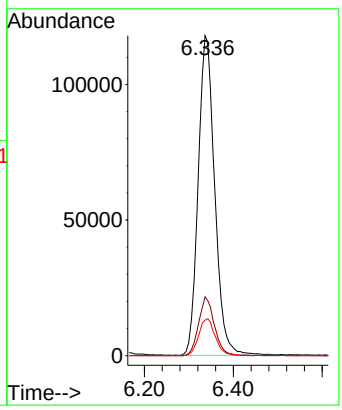




#43
Isopropyl Acetate
Concen: 109.494 ug/l
RT: 6.336 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion: 43 Resp: 30597

Ion	Ratio	Lower	Upper
43	100		
61	17.6	14.1	21.1
87	11.6	9.2	13.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
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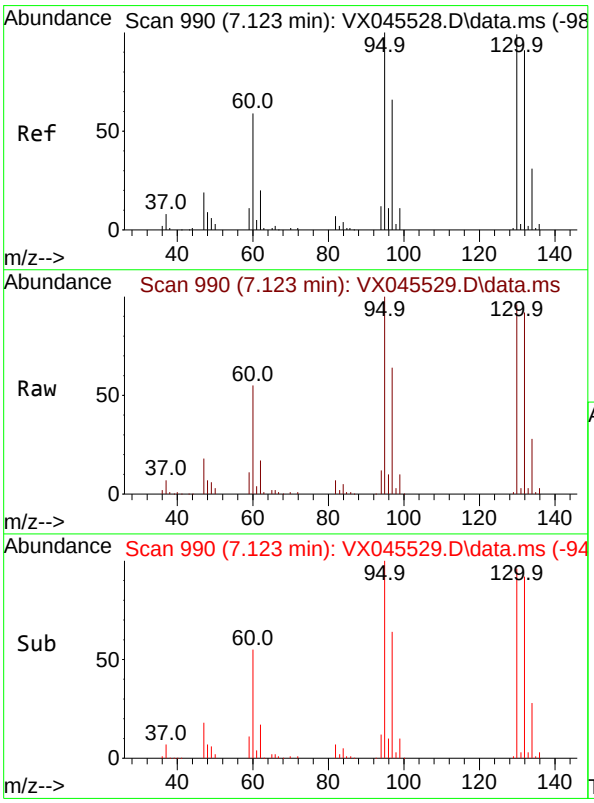
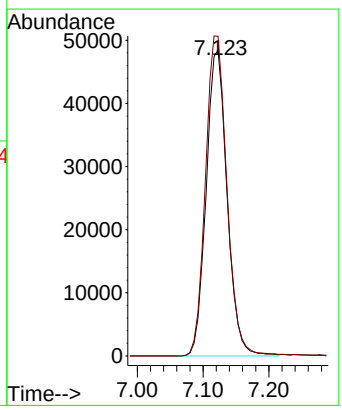
Supervised By :Mahesh Dadoda 04/02/2025

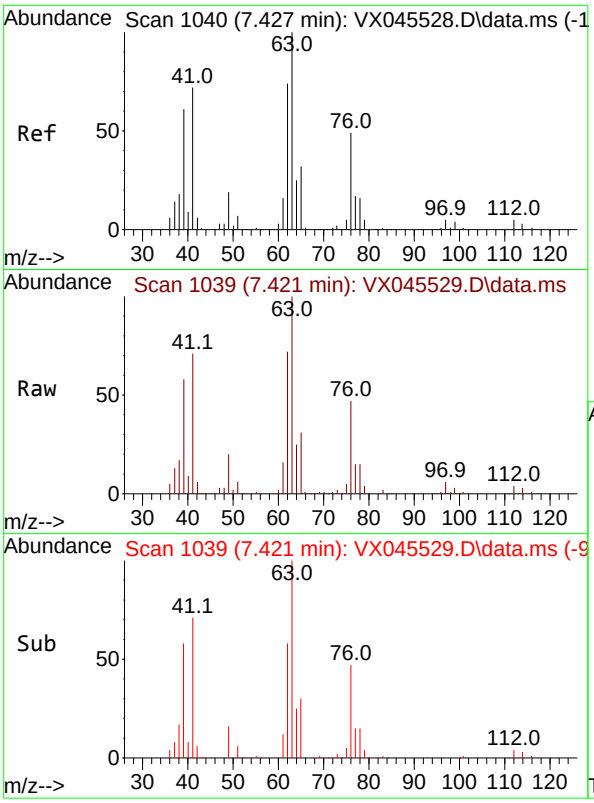


#44
Trichloroethene
Concen: 101.062 ug/l
RT: 7.123 min Scan# 990
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion:130 Resp: 107332

Ion	Ratio	Lower	Upper
130	100		
95	104.4	0.0	202.0

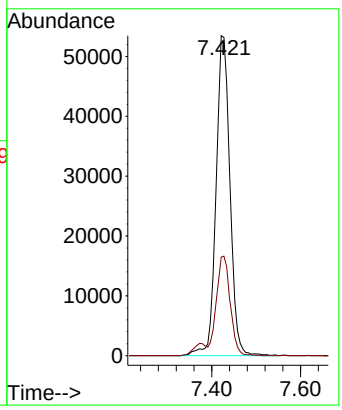




#45
1,2-Dichloropropane
Concen: 103.806 ug/l
RT: 7.421 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion: 63 Resp: 11573

Ion	Ratio	Lower	Upper
63	100		
65	30.8	25.8	38.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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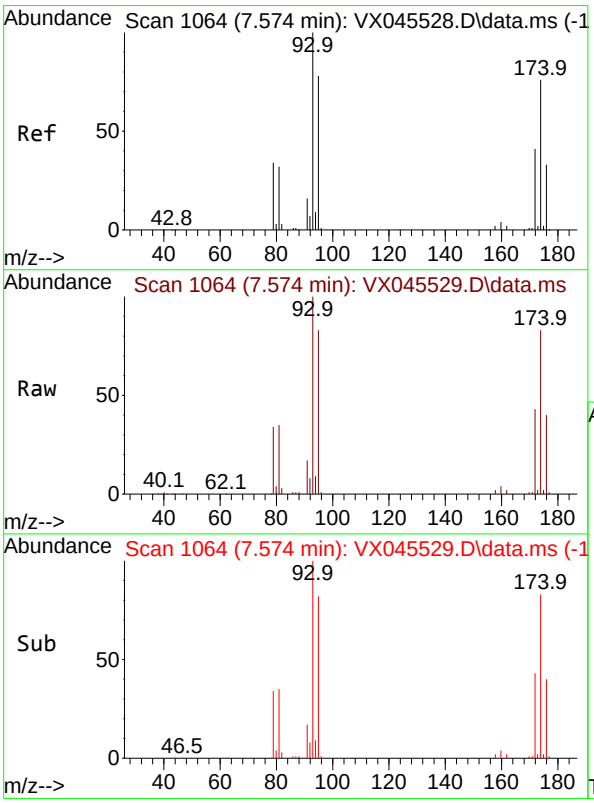
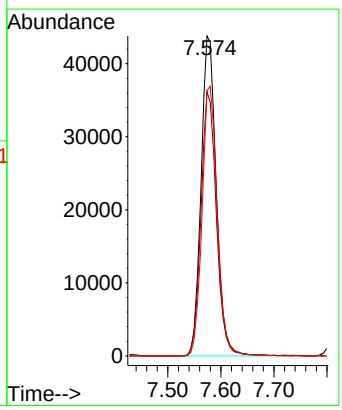
Supervised By :Mahesh Dadoda 04/02/2025

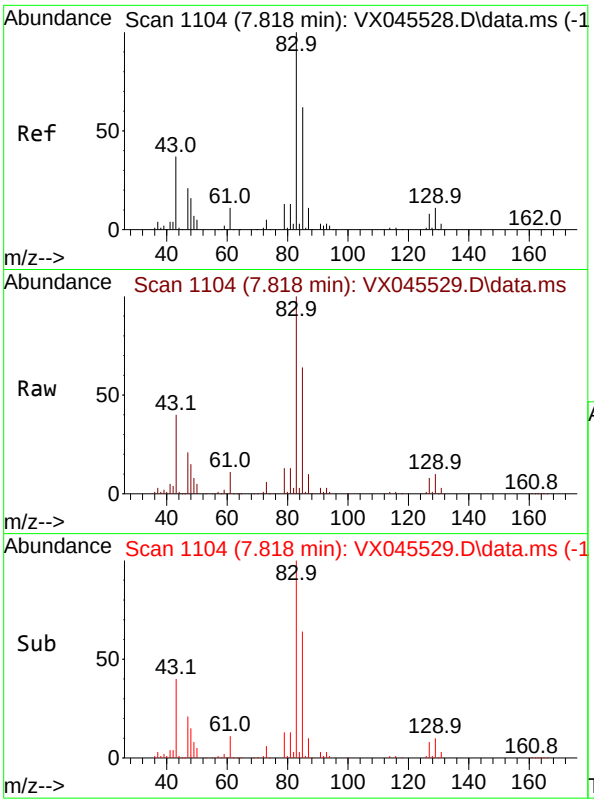


#46
Dibromomethane
Concen: 102.101 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion: 93 Resp: 87381

Ion	Ratio	Lower	Upper
93	100		
95	83.4	64.8	97.2
174	84.4	65.4	98.0

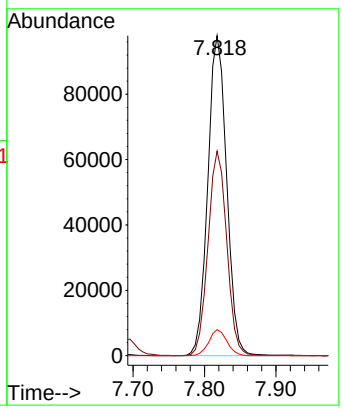




#47
Bromodichloromethane
Concen: 104.886 ug/l
RT: 7.818 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion: 83 Resp: 17926

Ion	Ratio	Lower	Upper
83	100		
85	63.8	49.7	74.5
127	8.2	6.1	9.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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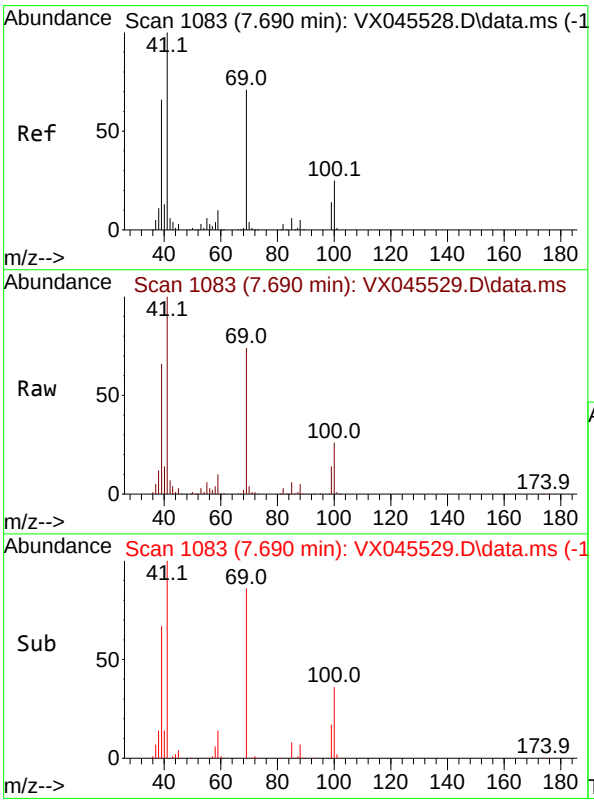
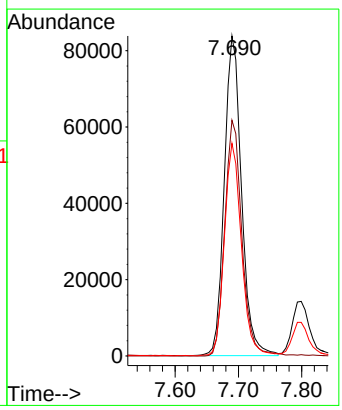
Supervised By :Mahesh Dadoda 04/02/2025

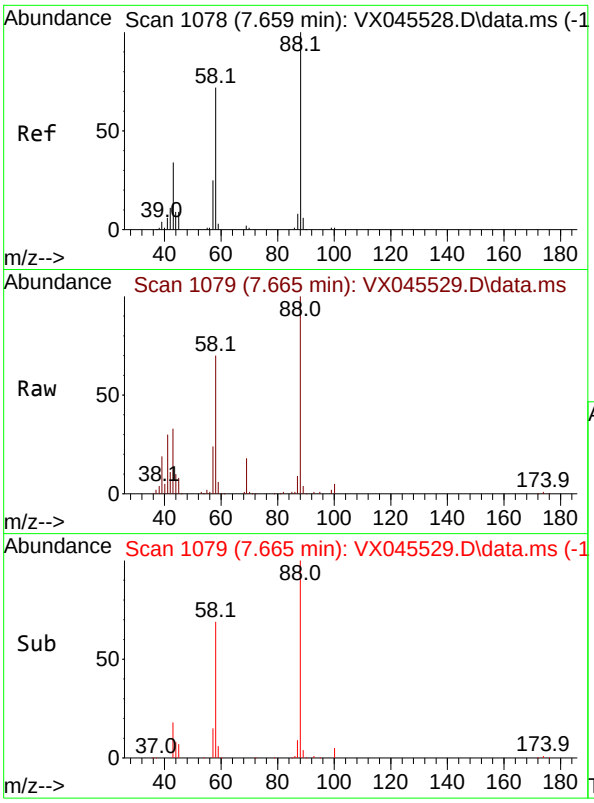


#48
Methyl methacrylate
Concen: 109.675 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion: 41 Resp: 158241

Ion	Ratio	Lower	Upper
41	100		
69	73.5	58.2	87.2
39	65.9	53.6	80.4





#49
1,4-Dioxane
Concen: 2015.906 ug/l
RT: 7.665 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion: 88 Resp: 5262

Ion	Ratio	Lower	Upper
88	100		
43	42.4	32.2	48.4
58	75.5	58.6	88.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
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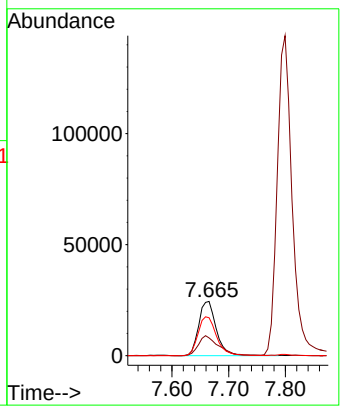
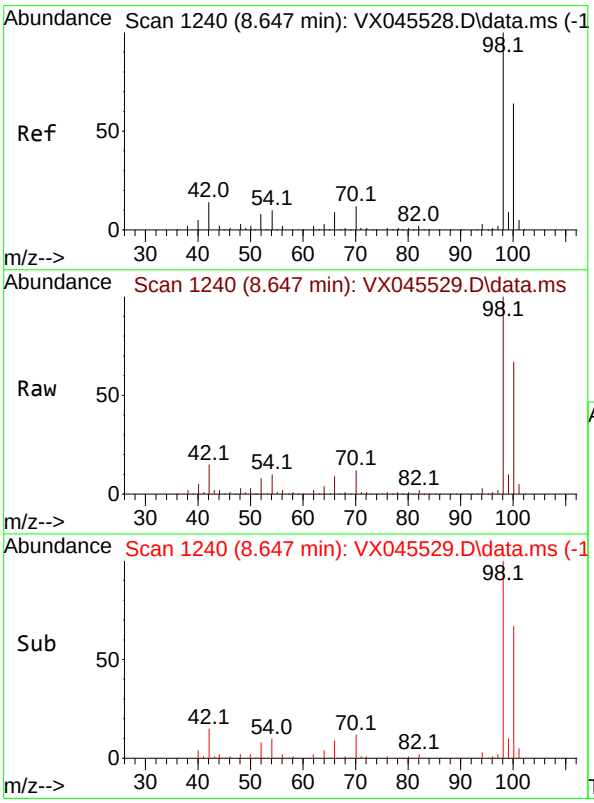
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

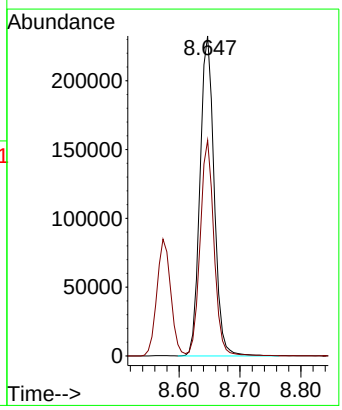


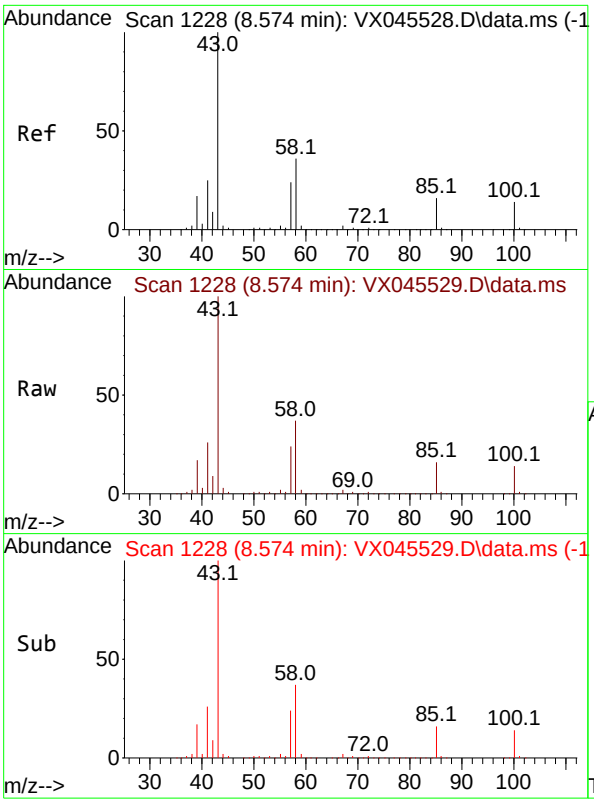


#50
Toluene-d8
Concen: 99.309 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion: 98 Resp: 375599

Ion	Ratio	Lower	Upper
98	100		
100	65.7	52.2	78.4

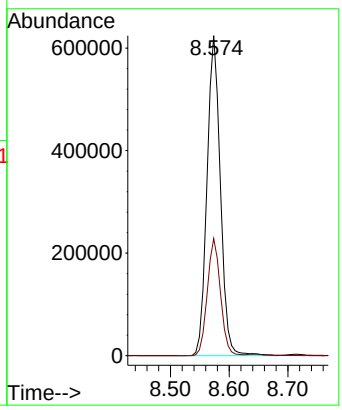




#51
4-Methyl-2-Pentanone
Concen: 533.814 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion: 43 Resp: 98888

Ion	Ratio	Lower	Upper
43	100		
58	36.1	28.5	42.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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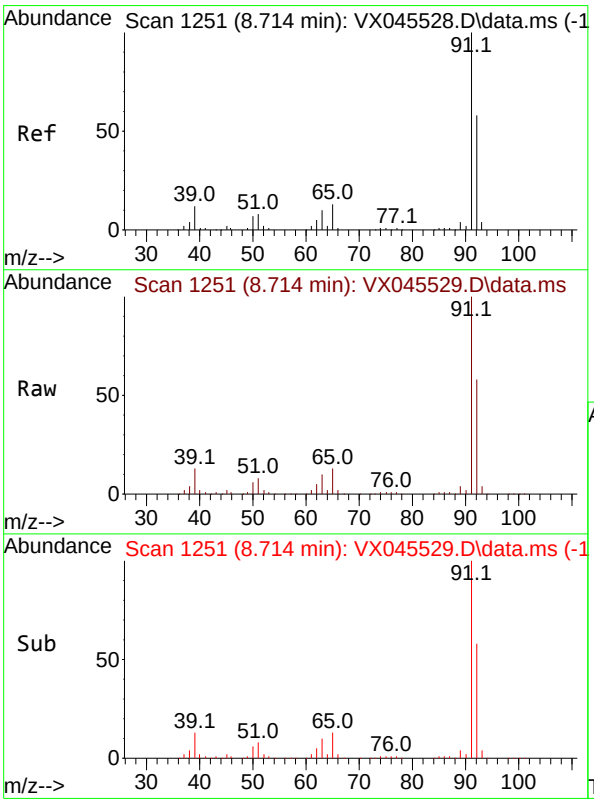
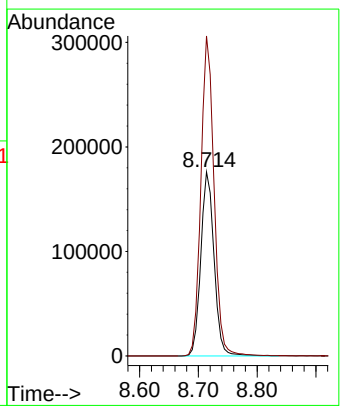
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

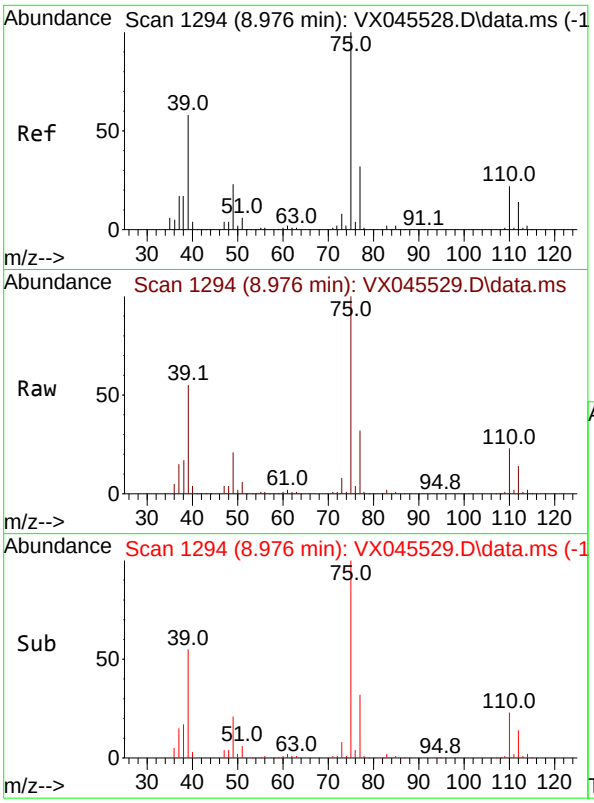


#52
Toluene
Concen: 102.199 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion: 92 Resp: 276323

Ion	Ratio	Lower	Upper
92	100		
91	172.5	138.7	208.1

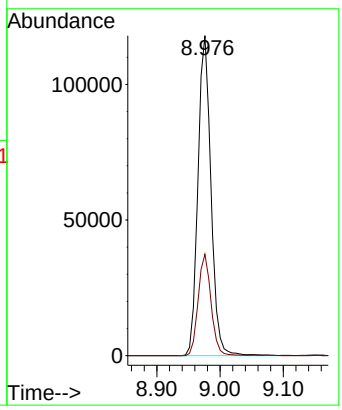




#53
t-1,3-Dichloropropene
Concen: 100.645 ug/l
RT: 8.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion: 75 Resp: 16941

Ion	Ratio	Lower	Upper
75	100		
77	31.7	25.4	38.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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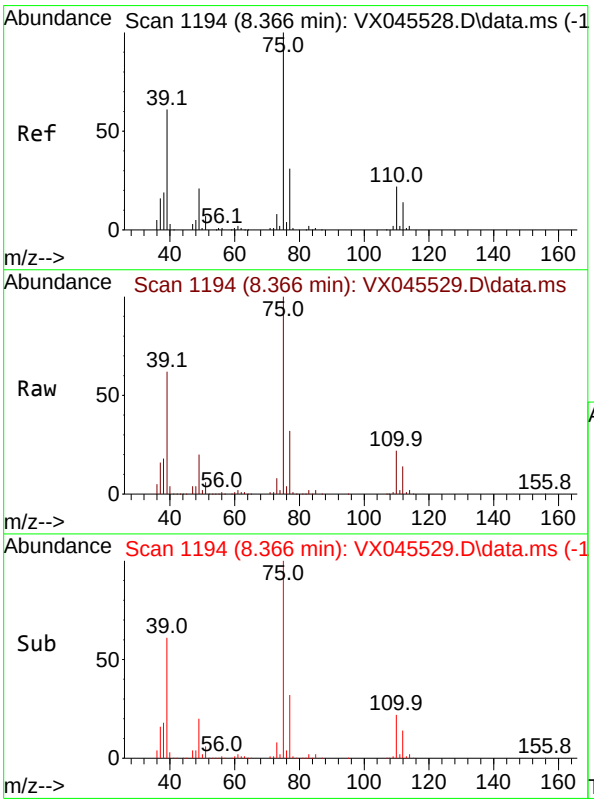
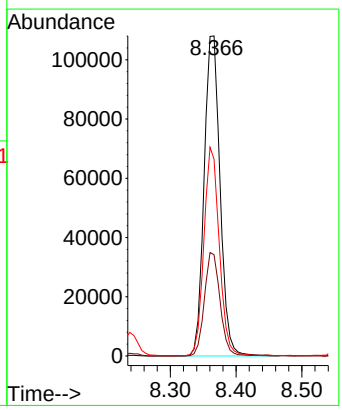
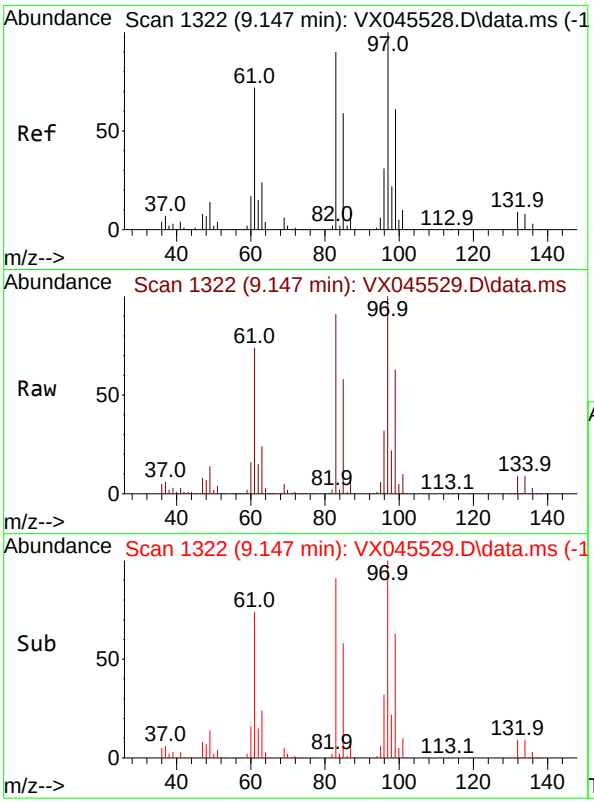


#54
cis-1,3-Dichloropropene
Concen: 113.521 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion: 75 Resp: 182328

Ion	Ratio	Lower	Upper
75	100		
77	31.6	24.6	36.8
39	61.4	48.4	72.6

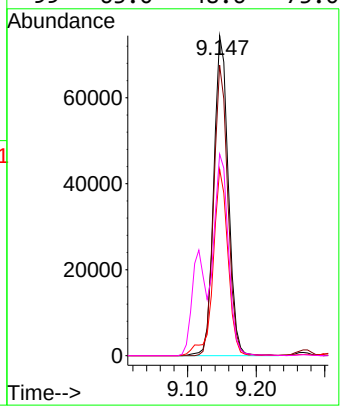




#55
1,1,2-Trichloroethane
Concen: 101.361 ug/l
RT: 9.147 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion: 97 Resp: 10920

Ion	Ratio	Lower	Upper
97	100		
83	90.8	71.8	107.8
85	58.2	47.0	70.6
99	63.0	48.6	73.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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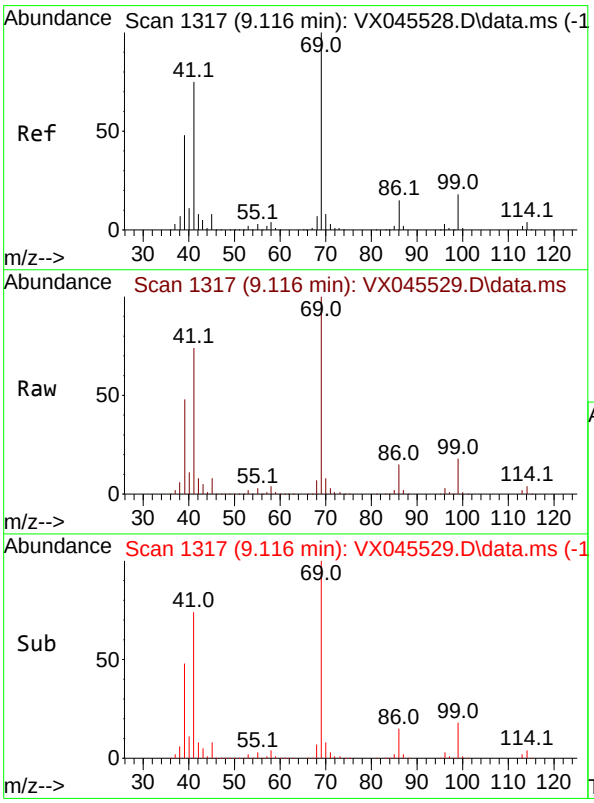
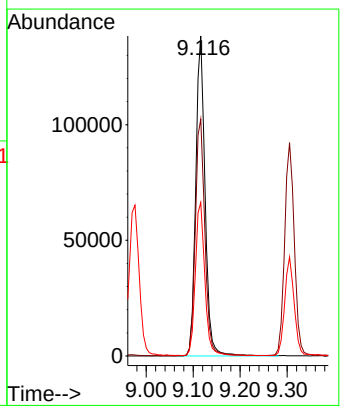
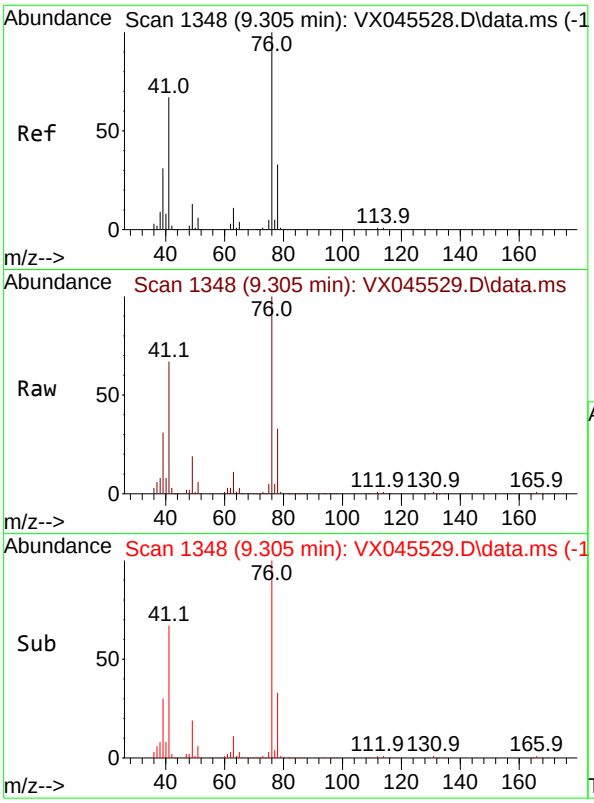


#56
Ethyl methacrylate
Concen: 115.168 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion: 69 Resp: 192034

Ion	Ratio	Lower	Upper
69	100		
41	76.5	61.3	91.9
39	49.0	40.2	60.2

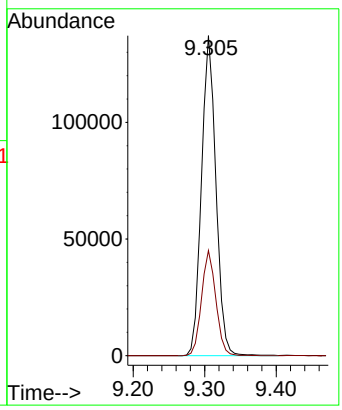




#57
1,3-Dichloropropane
Concen: 102.588 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion: 76 Resp: 19247

Ion	Ratio	Lower	Upper
76	100		
78	32.4	26.0	39.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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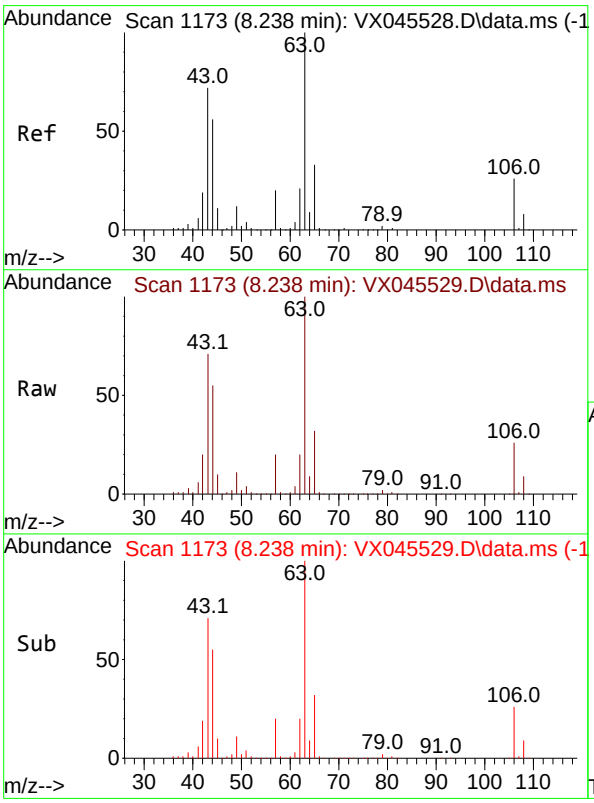
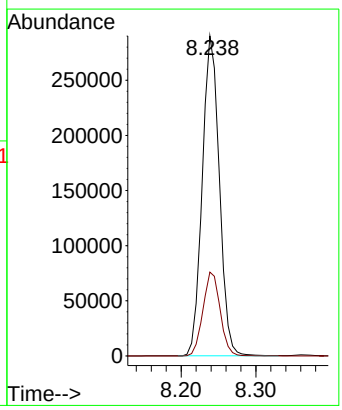
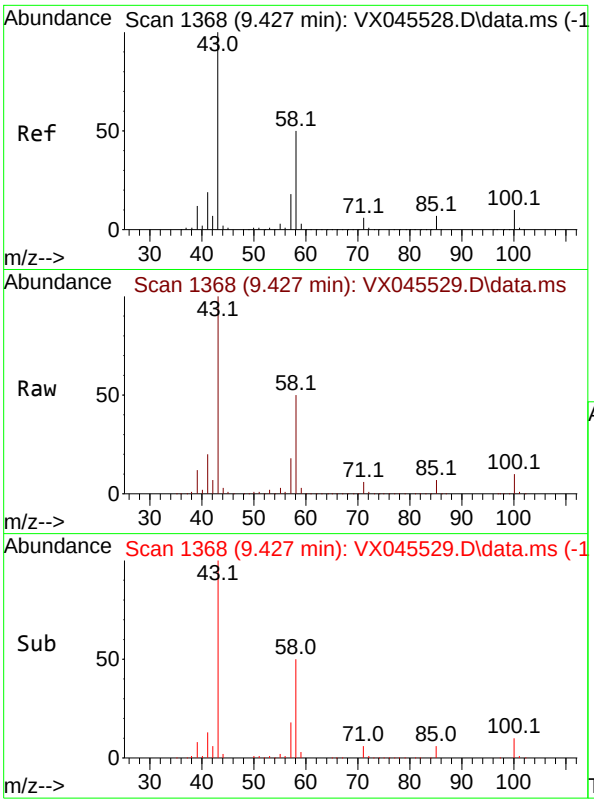


#58
2-Chloroethyl Vinyl ether
Concen: 545.696 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion: 63 Resp: 460297

Ion	Ratio	Lower	Upper
63	100		
106	26.4	21.0	31.6

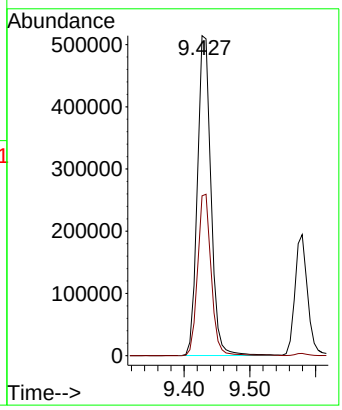




#59
2-Hexanone
Concen: 538.538 ug/l
RT: 9.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion: 43 Resp: 73877

Ion	Ratio	Lower	Upper
43	100		
58	50.3	24.9	74.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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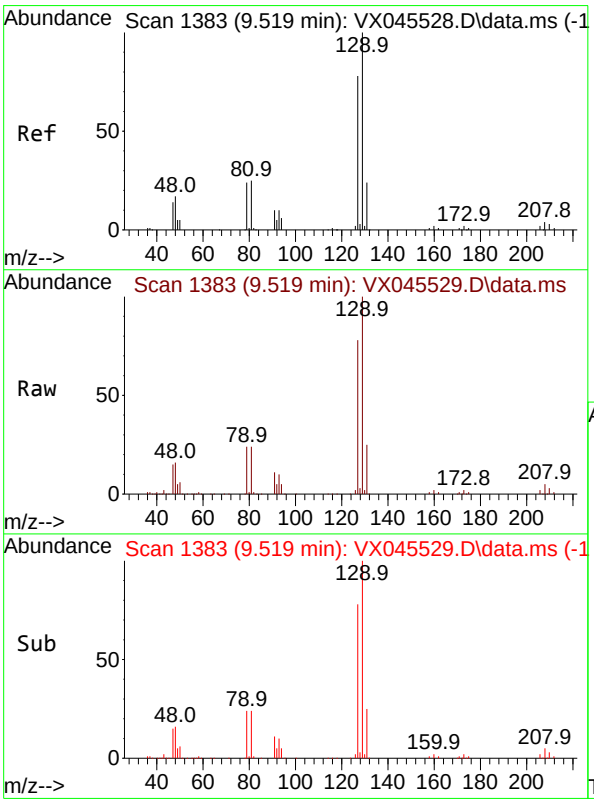
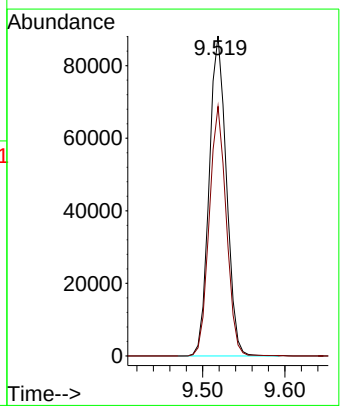
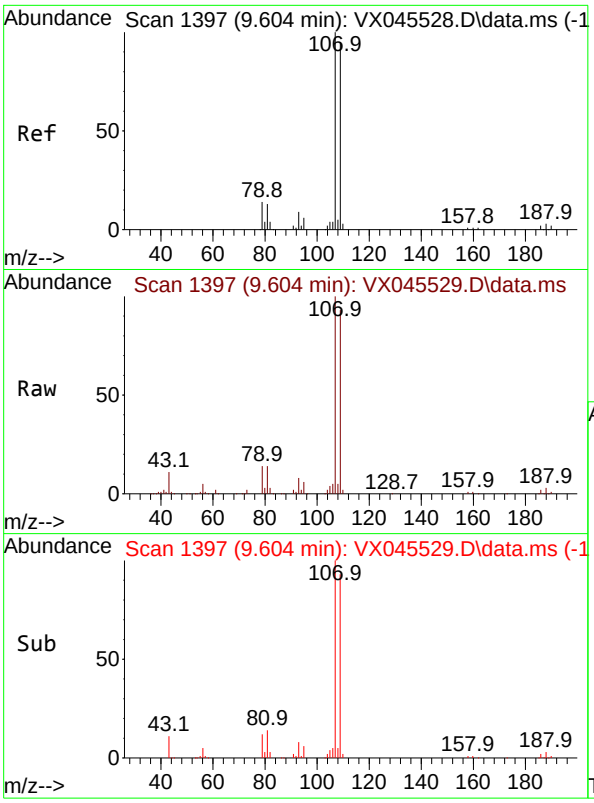


#60
Dibromochloromethane
Concen: 109.570 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion:129 Resp: 128700

Ion	Ratio	Lower	Upper
129	100		
127	76.8	39.4	118.2

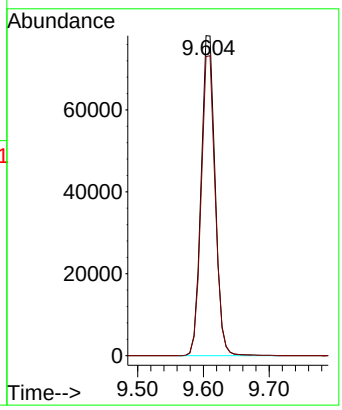




#61
1,2-Dibromoethane
Concen: 106.282 ug/l
RT: 9.604 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion:107 Resp: 11591

Ion	Ratio	Lower	Upper
107	100		
109	93.7	75.7	113.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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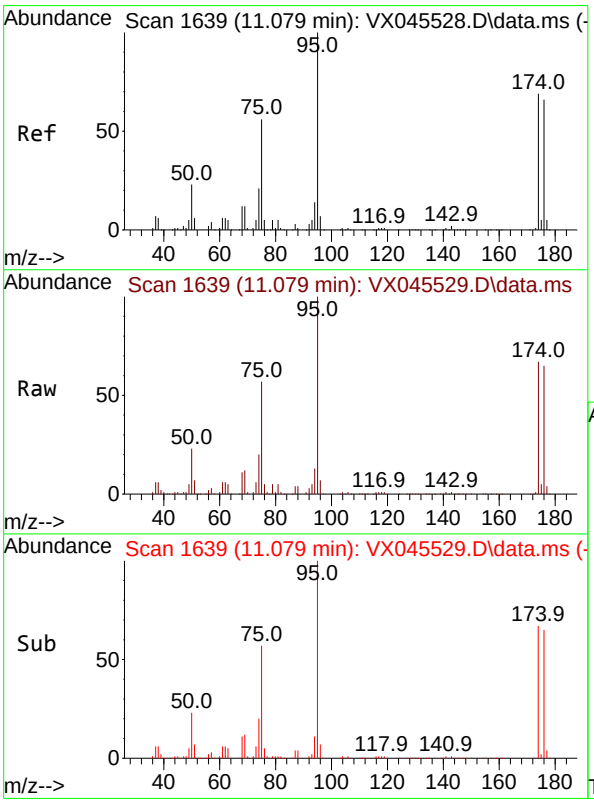
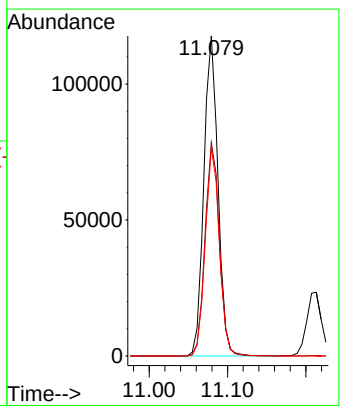
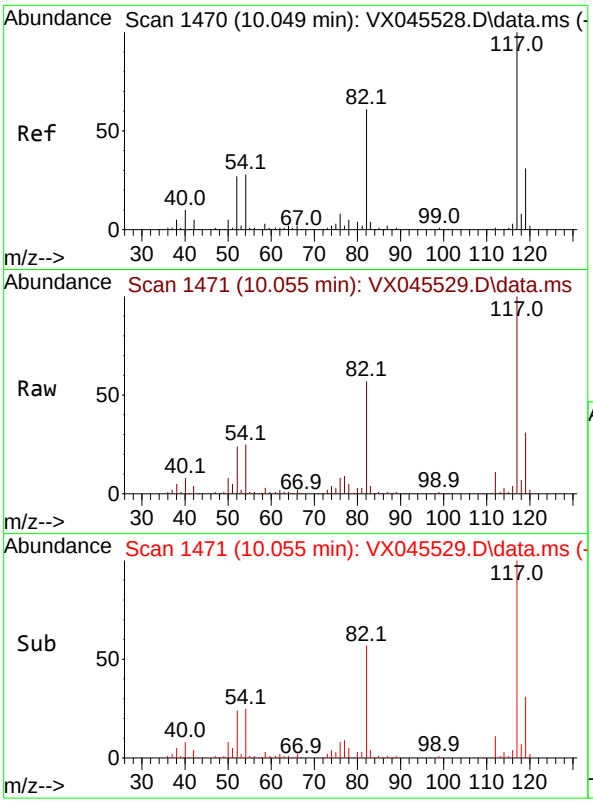


#62
4-Bromofluorobenzene
Concen: 106.664 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion: 95 Resp: 146944

Ion	Ratio	Lower	Upper
95	100		
174	67.8	0.0	135.8
176	64.7	0.0	131.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion:117 Resp: 13636

Ion	Ratio	Lower	Upper
117	100		
82	57.2	49.2	73.8
119	31.2	25.1	37.7

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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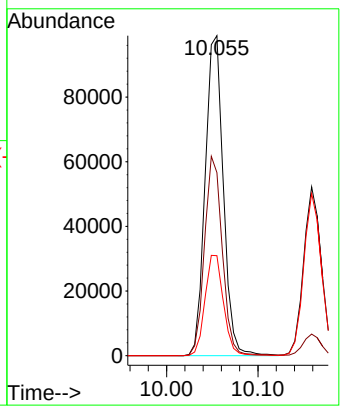
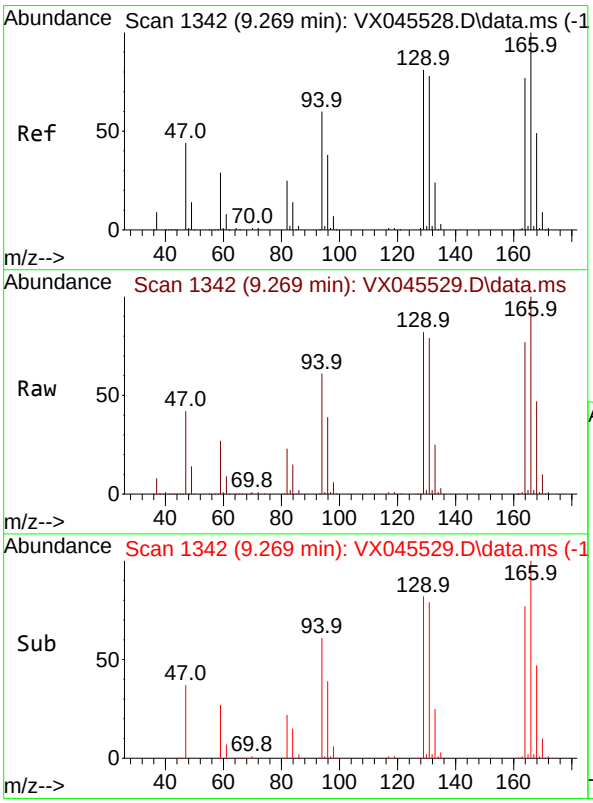
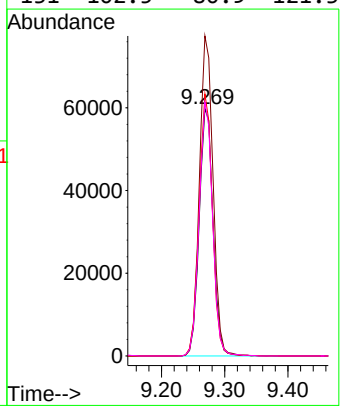


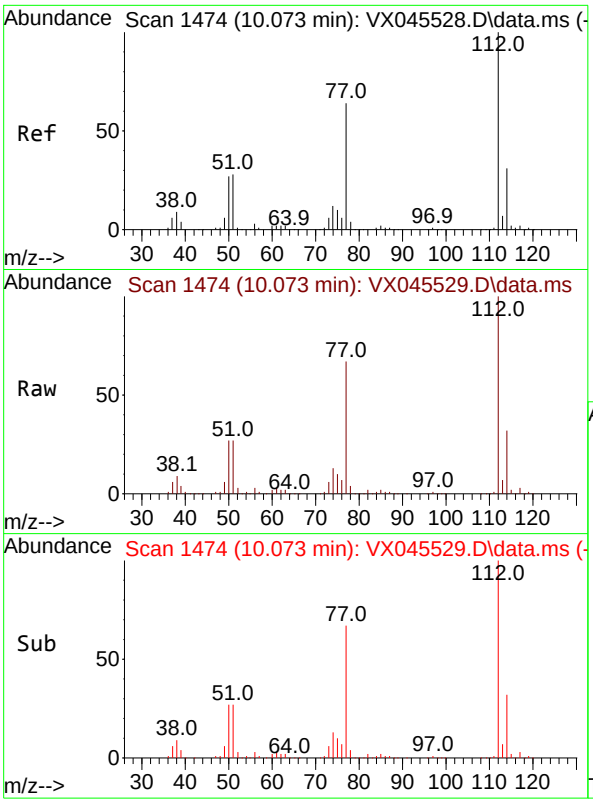


#64
Tetrachloroethene
Concen: 94.325 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion:164 Resp: 90817

Ion	Ratio	Lower	Upper
164	100		
166	129.3	103.8	155.8
129	105.9	84.3	126.5
131	102.5	80.9	121.3

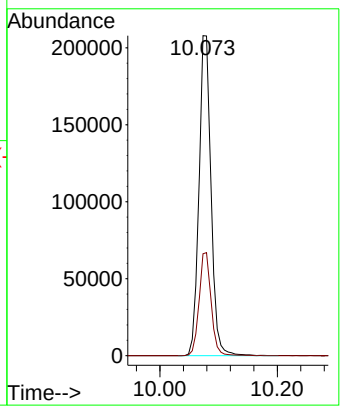




#65
Chlorobenzene
Concen: 101.682 ug/l
RT: 10.073 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion:112 Resp: 29630

Ion	Ratio	Lower	Upper
112	100		
114	31.9	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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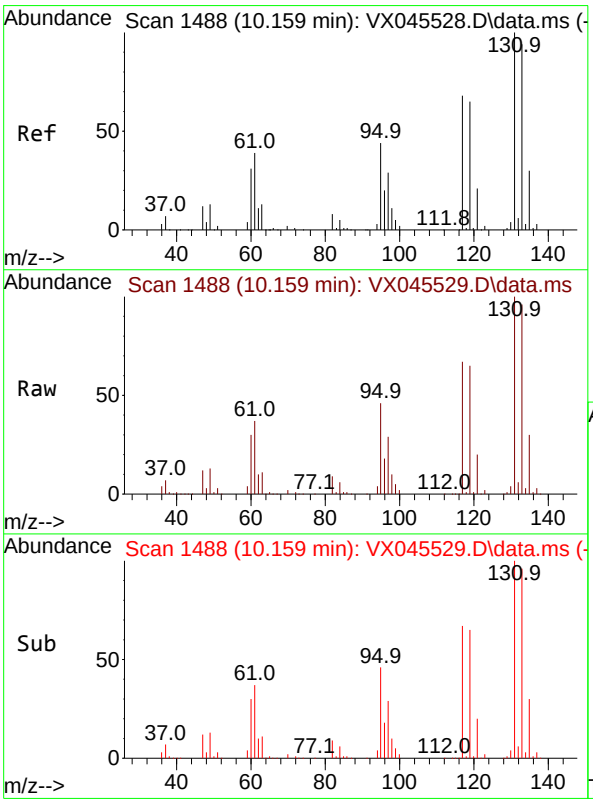
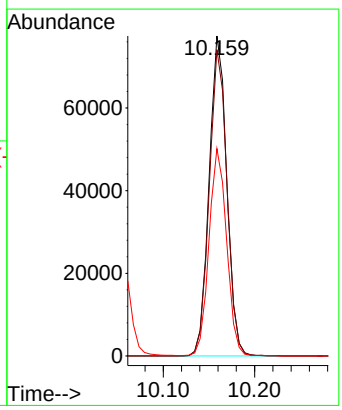
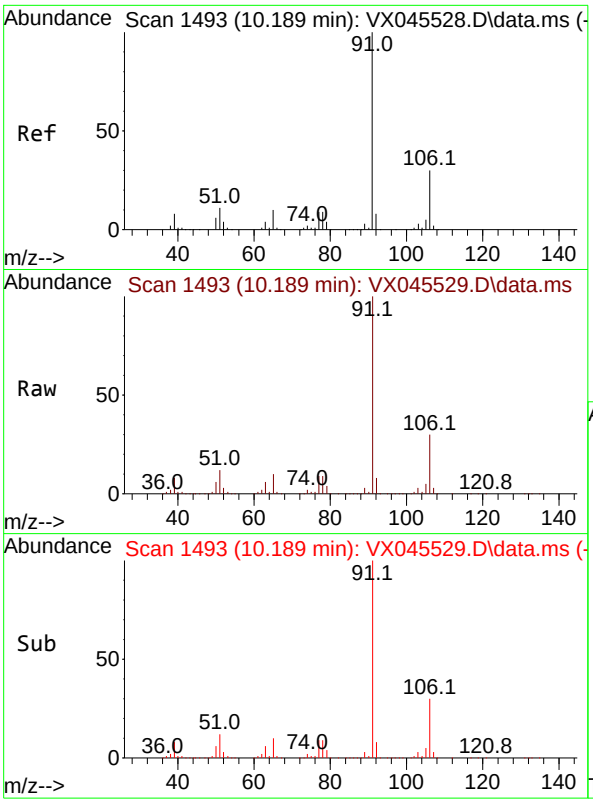


#66
1,1,1,2-Tetrachloroethane
Concen: 102.243 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion:131 Resp: 103437

Ion	Ratio	Lower	Upper
131	100		
133	96.1	47.5	142.5
119	65.0	32.9	98.6

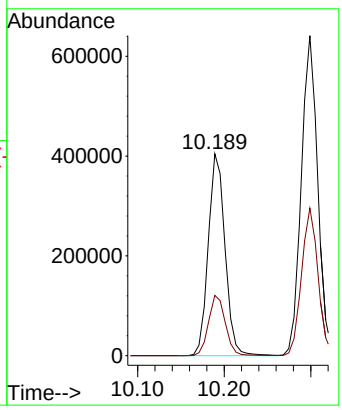




#67
Ethyl Benzene
Concen: 104.152 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion: 91 Resp: 54356

Ion	Ratio	Lower	Upper
91	100		
106	29.9	23.7	35.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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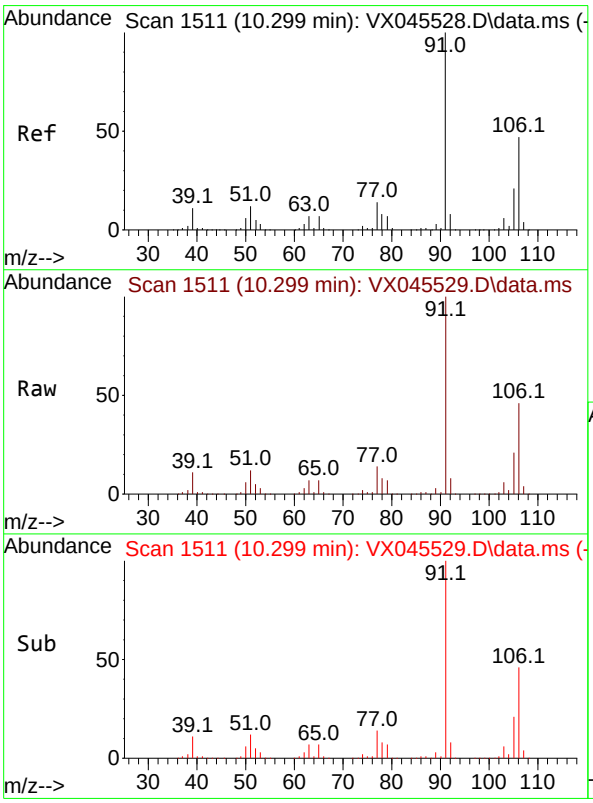
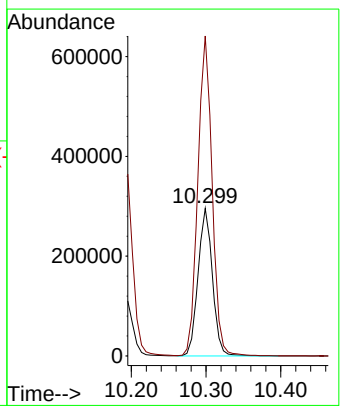
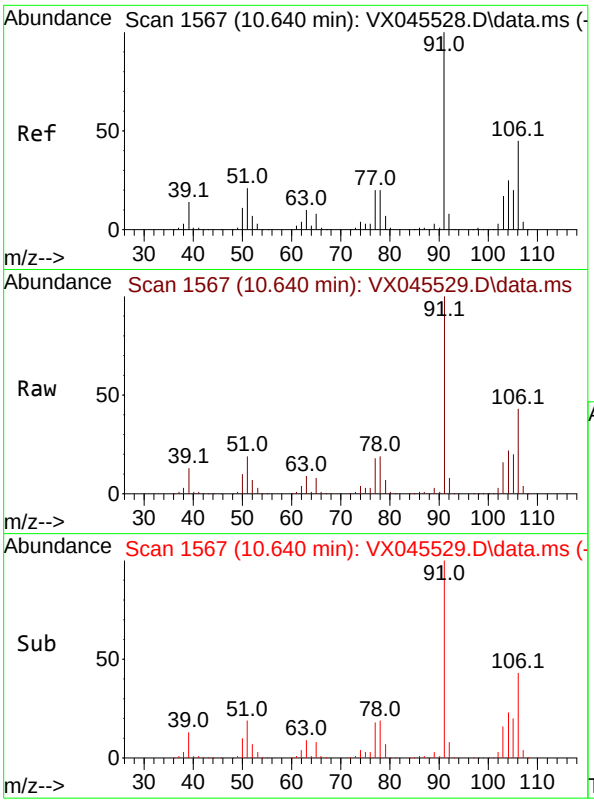


#68
m/p-Xylenes
Concen: 207.694 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion:106 Resp: 394241

Ion	Ratio	Lower	Upper
106	100		
91	216.1	172.6	258.8

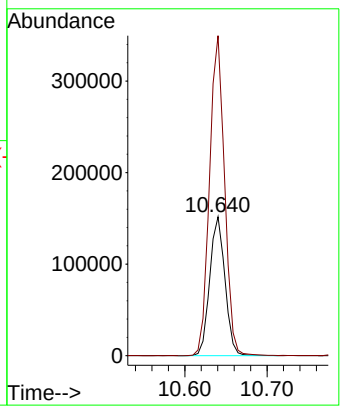




#69
o-Xylene
Concen: 104.487 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion:106 Resp: 19538

Ion	Ratio	Lower	Upper
106	100		
91	228.0	113.6	340.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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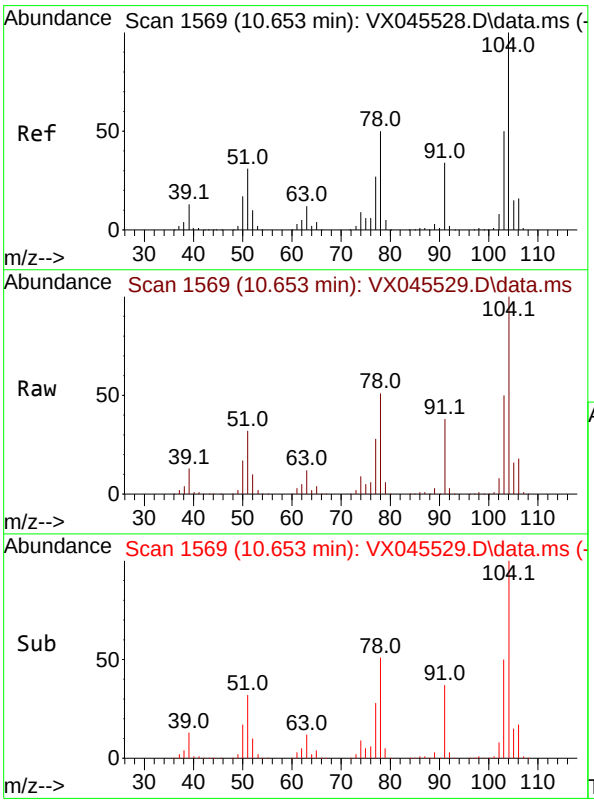
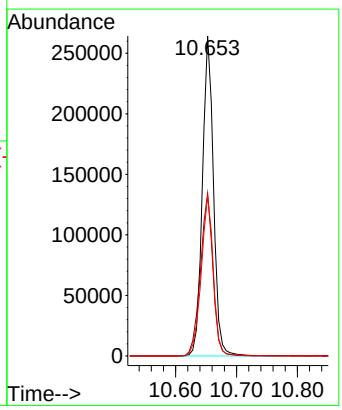
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

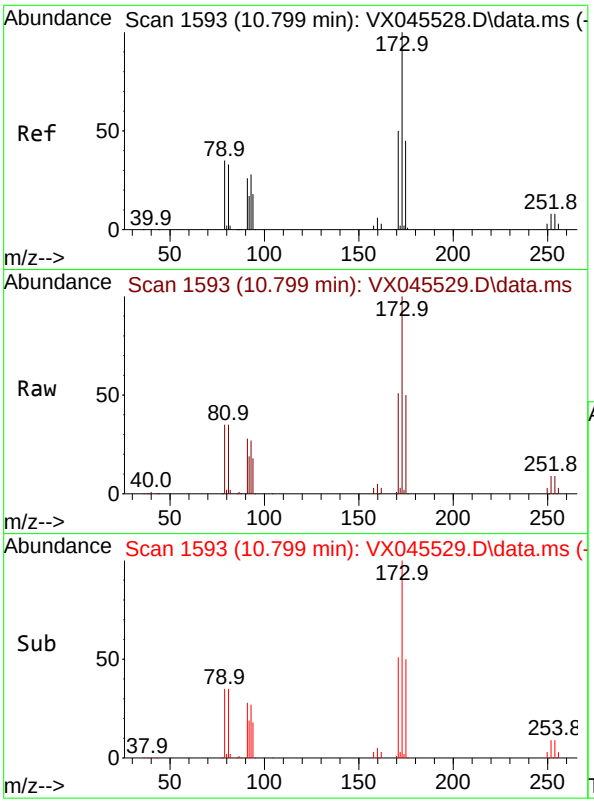


#70
Styrene
Concen: 108.654 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion:104 Resp: 335333

Ion	Ratio	Lower	Upper
104	100		
78	57.0	45.4	68.2
103	54.7	43.8	65.8

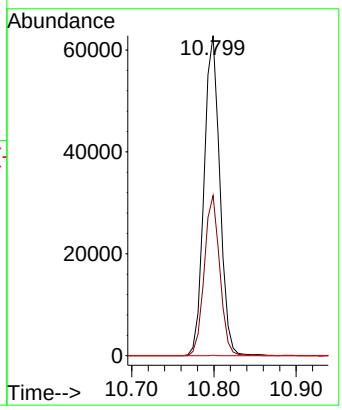




#71
Bromoform
Concen: 110.714 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion:173 Resp: 8363

Ion	Ratio	Lower	Upper
173	100		
175	49.0	23.4	70.2
254	0.0	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
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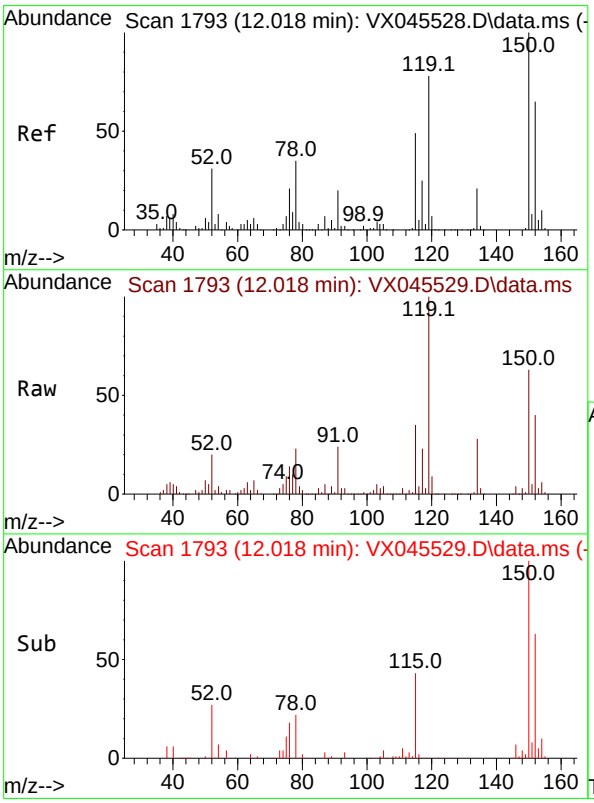
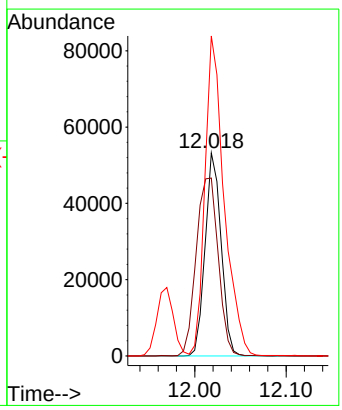
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

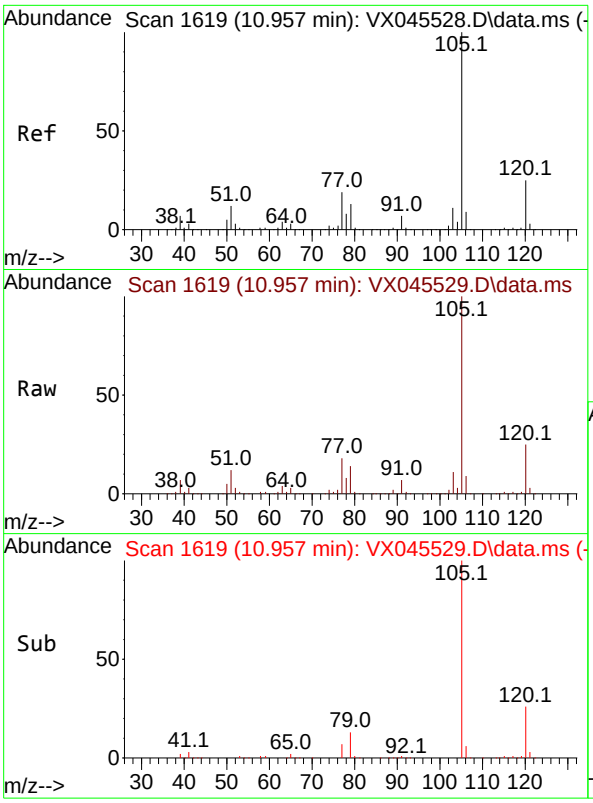


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion:152 Resp: 64612

Ion	Ratio	Lower	Upper
152	100		
115	121.0	46.9	140.7
150	188.4	0.0	349.4

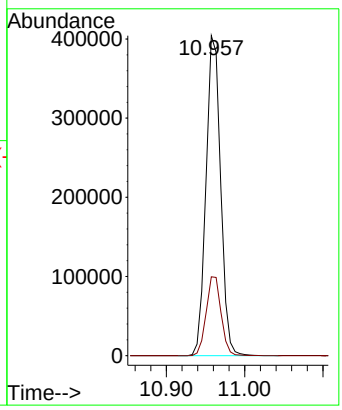




#73
Isopropylbenzene
Concen: 100.944 ug/l
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion:105 Resp: 52243

Ion	Ratio	Lower	Upper
105	100		
120	25.2	12.7	38.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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Reviewed By :Amit Patel 04/02/2025
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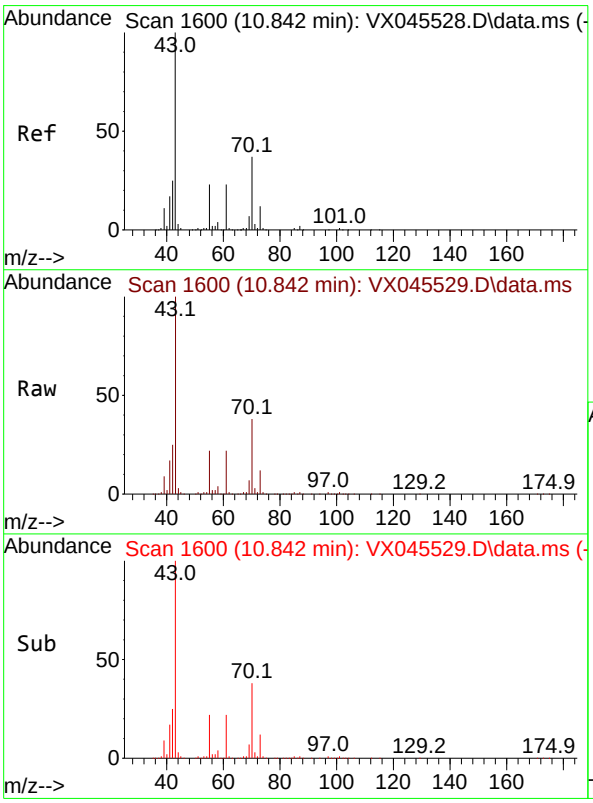
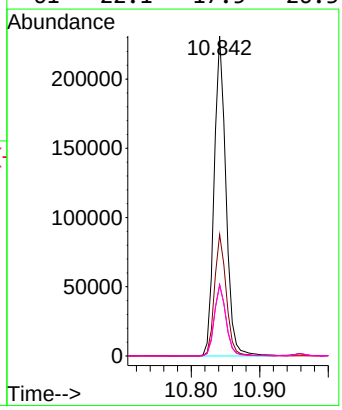
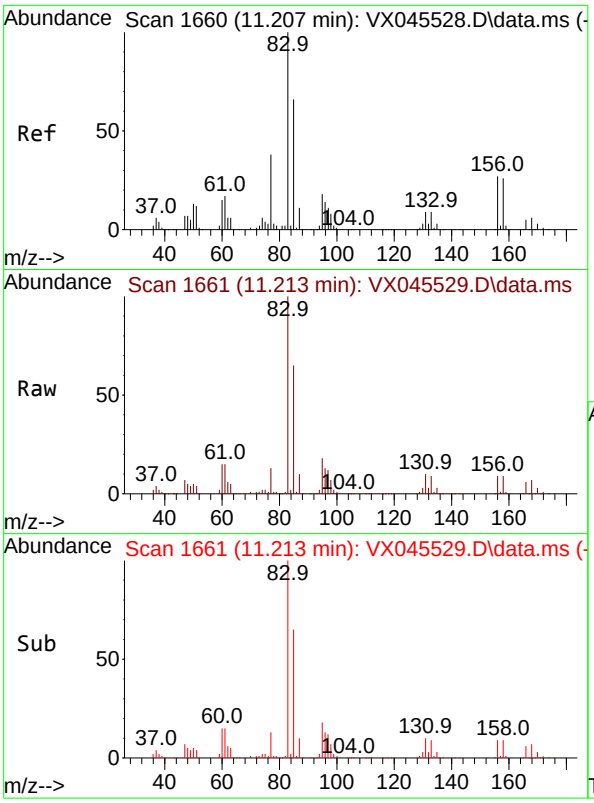


#74
N-amyl acetate
Concen: 111.267 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion: 43 Resp: 275462

Ion	Ratio	Lower	Upper
43	100		
70	38.1	30.1	45.1
55	22.4	18.3	27.5
61	22.1	17.5	26.3

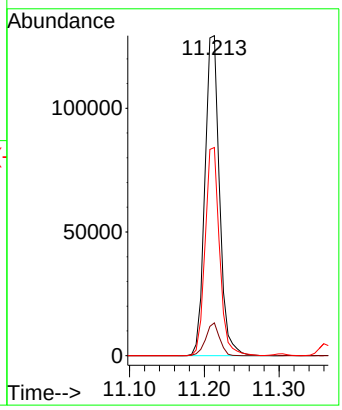




#75
1,1,2,2-Tetrachloroethane
Concen: 96.243 ug/l
RT: 11.213 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion: 83 Resp: 17497

Ion	Ratio	Lower	Upper
83	100		
131	9.8	4.7	14.1
85	64.3	32.4	97.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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Reviewed By :Amit Patel 04/02/2025
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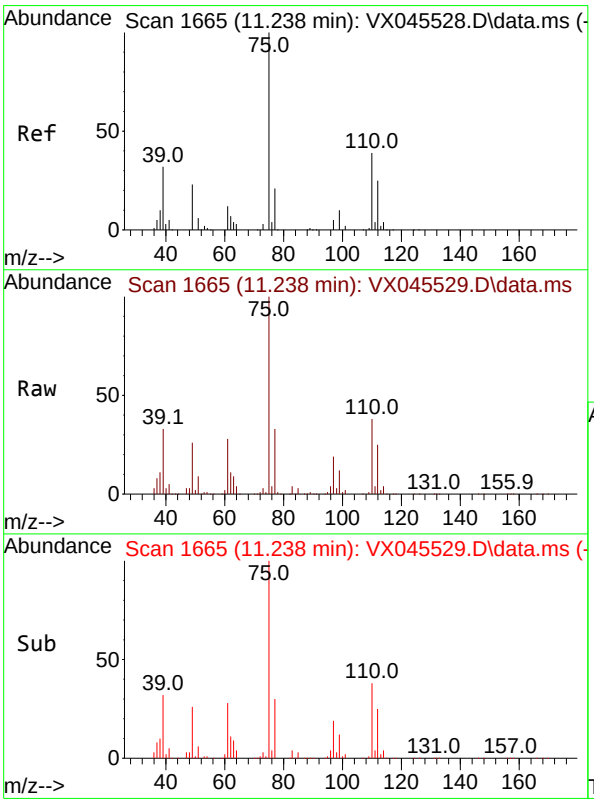
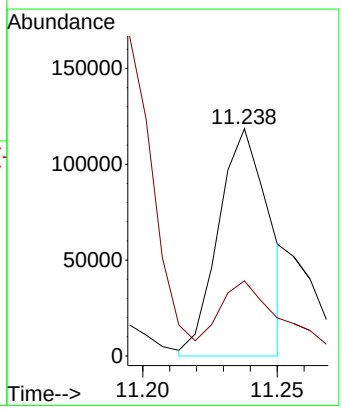
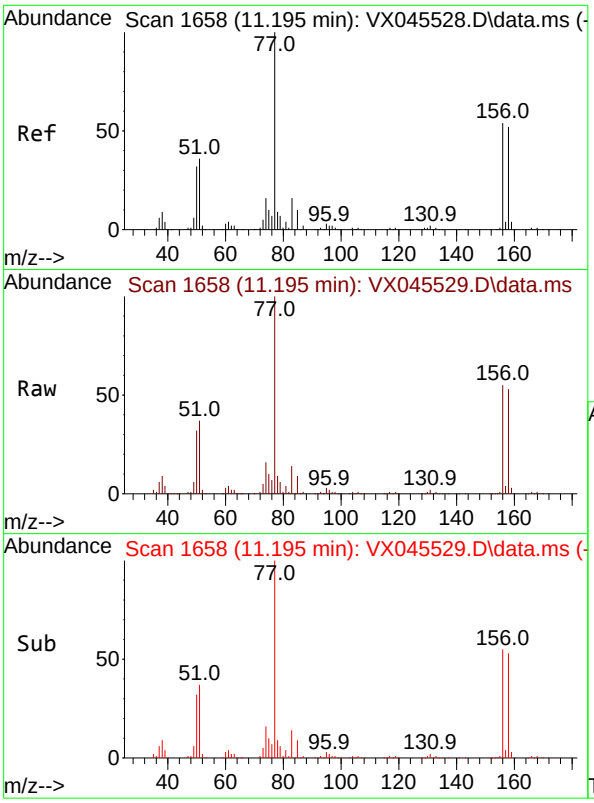


#76
1,2,3-Trichloropropane
Concen: 97.744 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion: 75 Resp: 154048

Ion	Ratio	Lower	Upper
75	100		
77	41.8	20.0	59.9

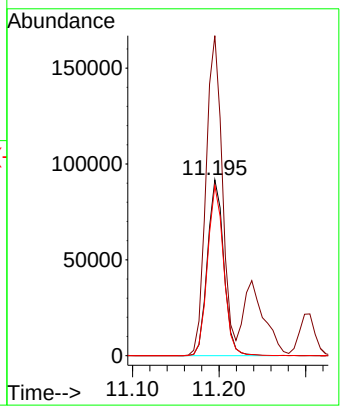




#77
Bromobenzene
Concen: 99.983 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion:156 Resp: 11956

Ion	Ratio	Lower	Upper
156	100		
77	183.4	92.6	277.8
158	95.9	48.1	144.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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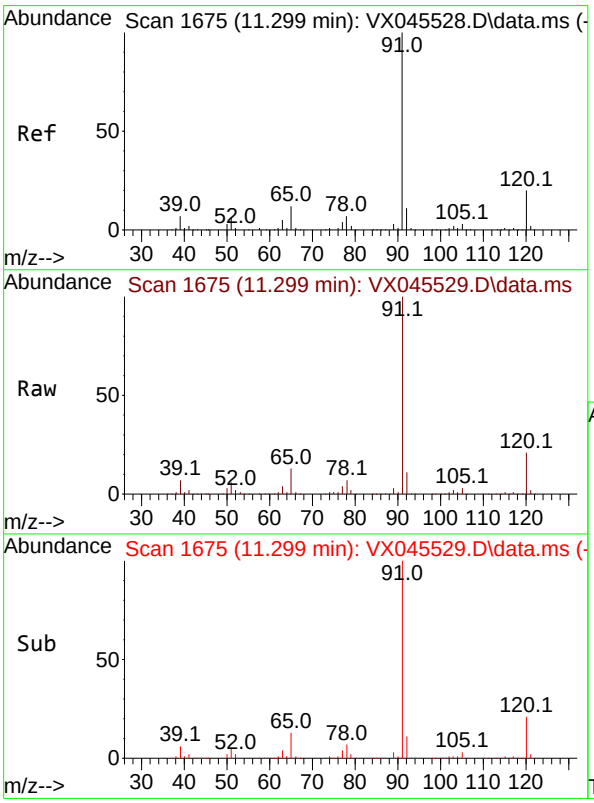
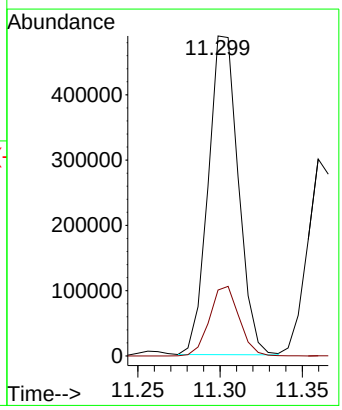
Supervised By :Mahesh Dadoda 04/02/2025

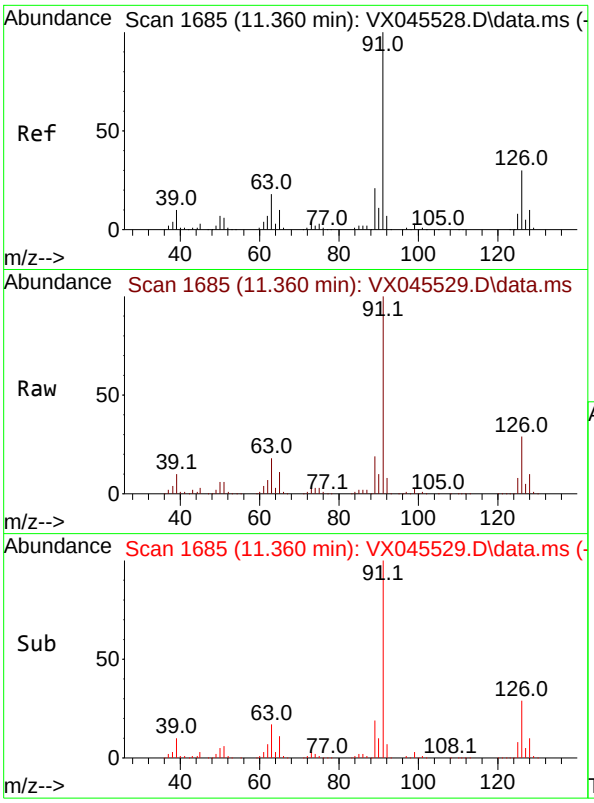


#78
n-propylbenzene
Concen: 104.454 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion: 91 Resp: 622679

Ion	Ratio	Lower	Upper
91	100		
120	21.5	10.8	32.3





#79
2-Chlorotoluene
Concen: 98.840 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion: 91 Resp: 37668

Ion	Ratio	Lower	Upper
91	100		
126	31.2	15.8	47.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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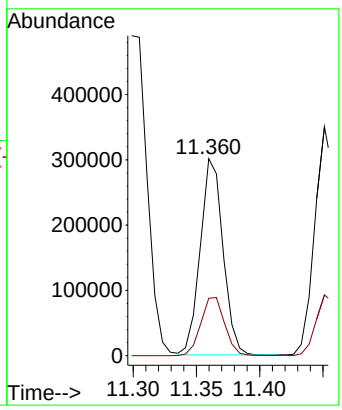
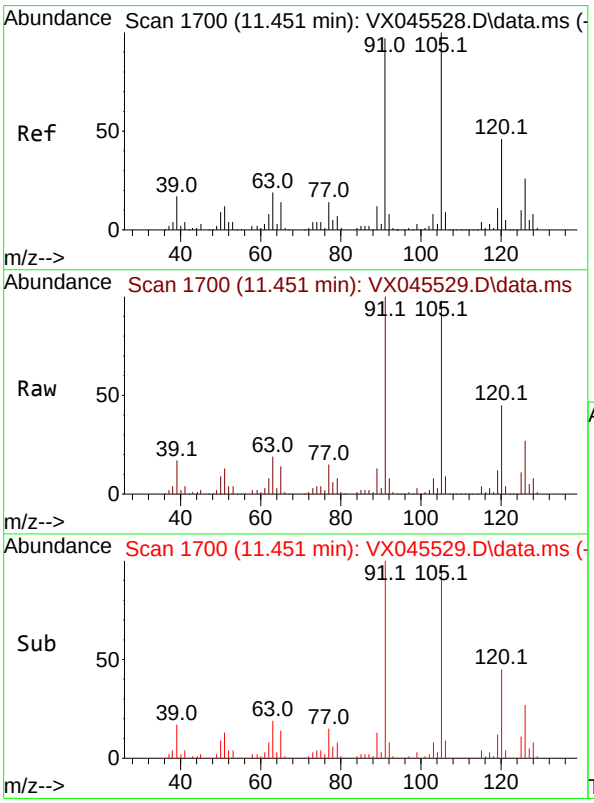
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

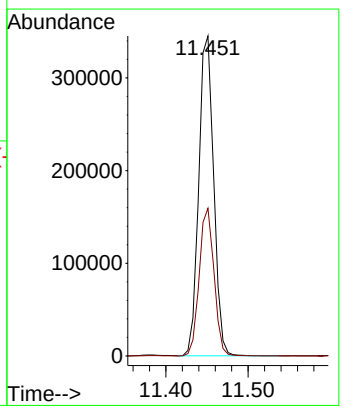


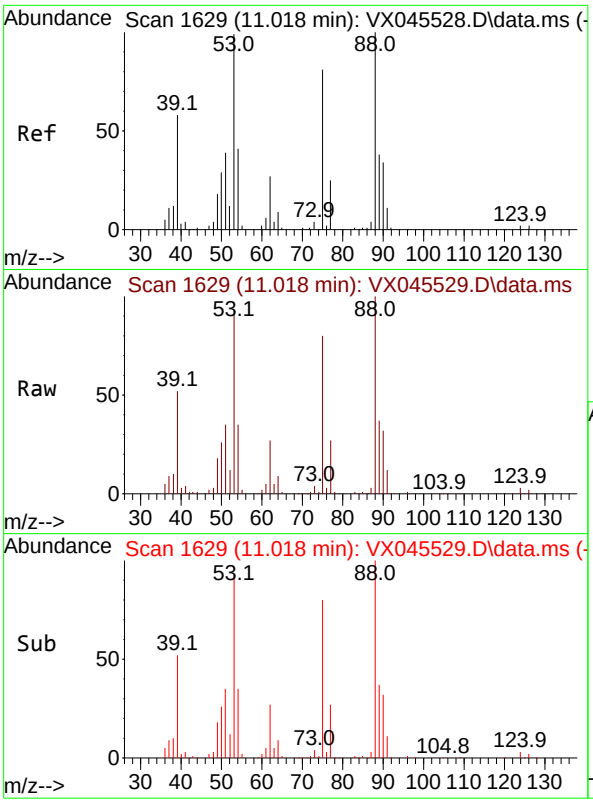


#80
1,3,5-Trimethylbenzene
Concen: 101.675 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion:105 Resp: 435137

Ion	Ratio	Lower	Upper
105	100		
120	45.9	23.0	69.0

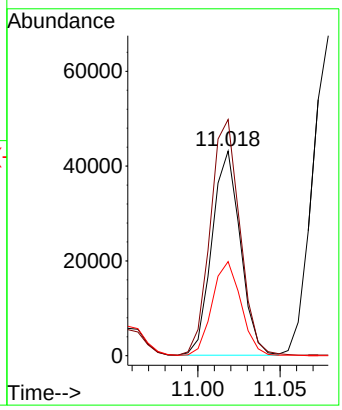




#81
trans-1,4-Dichloro-2-butene
Concen: 111.704 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion: 75 Resp: 5187

Ion	Ratio	Lower	Upper
75	100		
53	119.5	101.8	152.6
89	46.9	37.2	55.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
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Reviewed By :Amit Patel 04/02/2025
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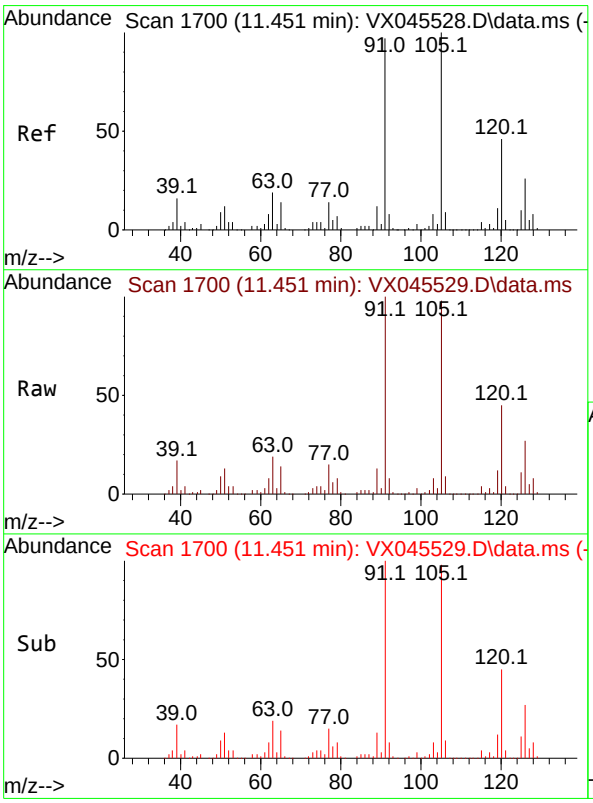
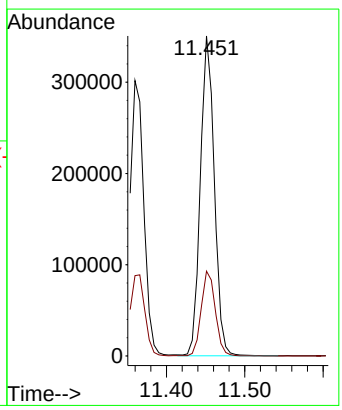
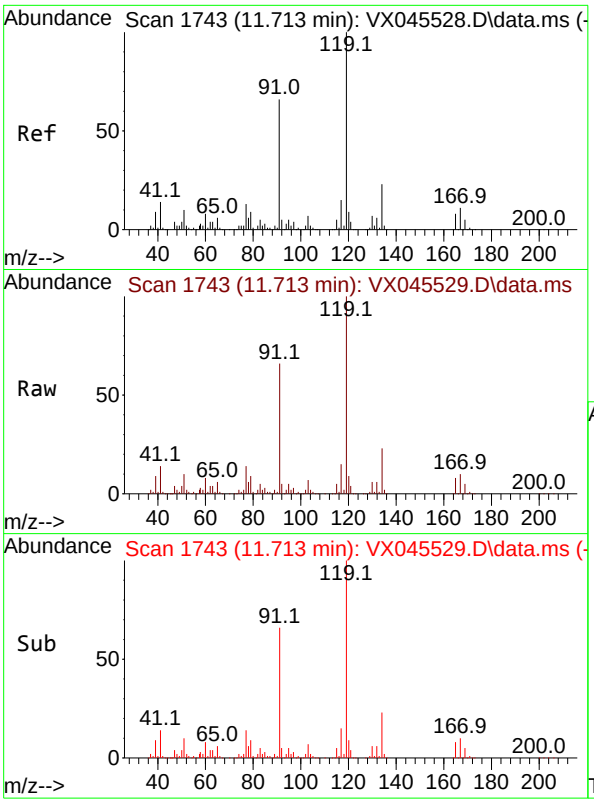


#82
4-Chlorotoluene
Concen: 101.877 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion: 91 Resp: 432884

Ion	Ratio	Lower	Upper
91	100		
126	26.9	13.3	39.9

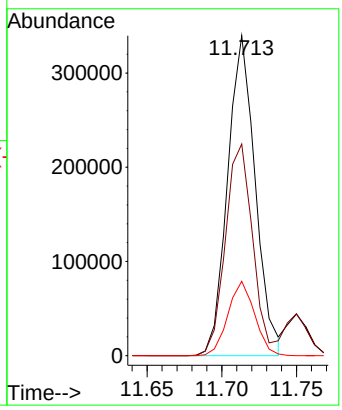




#83
tert-Butylbenzene
Concen: 103.292 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion:119 Resp: 43764

Ion	Ratio	Lower	Upper
119	100		
91	65.8	32.4	97.2
134	22.4	11.5	34.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
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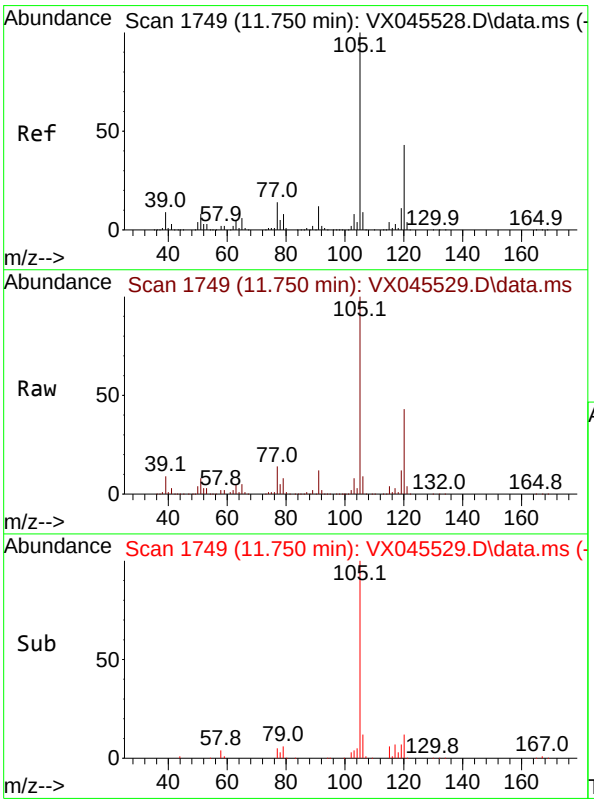
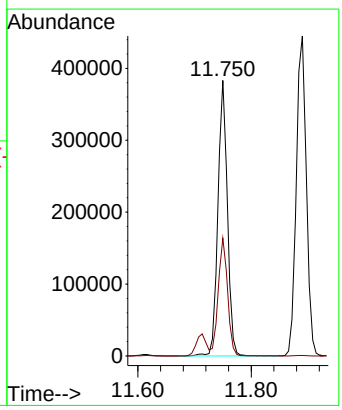
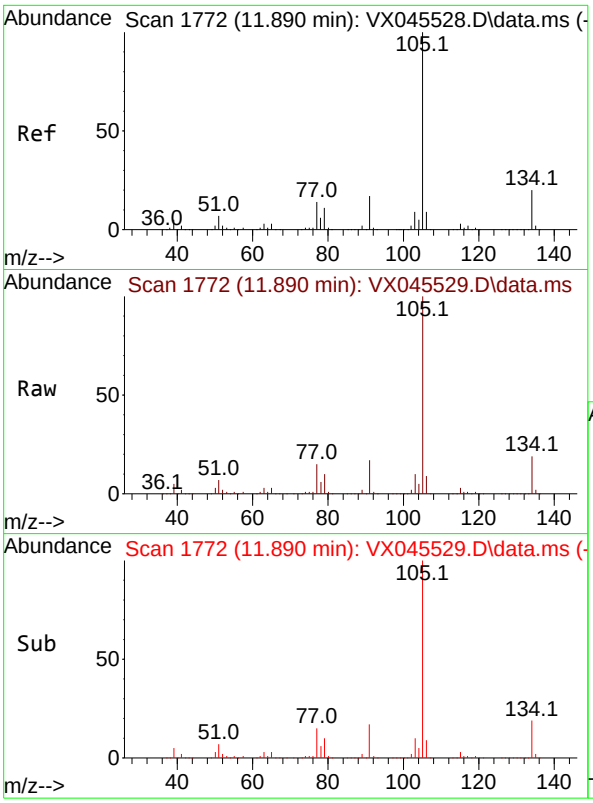


#84
1,2,4-Trimethylbenzene
Concen: 103.414 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion:105 Resp: 444211

Ion	Ratio	Lower	Upper
105	100		
120	42.4	21.4	64.3

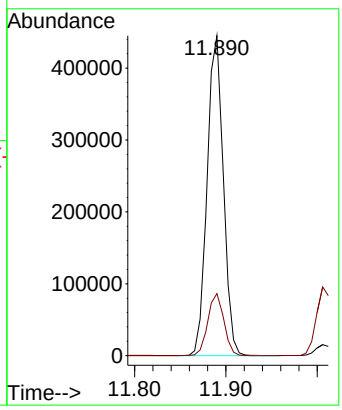




#85
sec-Butylbenzene
Concen: 105.082 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion:105 Resp: 54685

Ion	Ratio	Lower	Upper
105	100		
134	19.3	9.6	28.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

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Reviewed By :Amit Patel 04/02/2025
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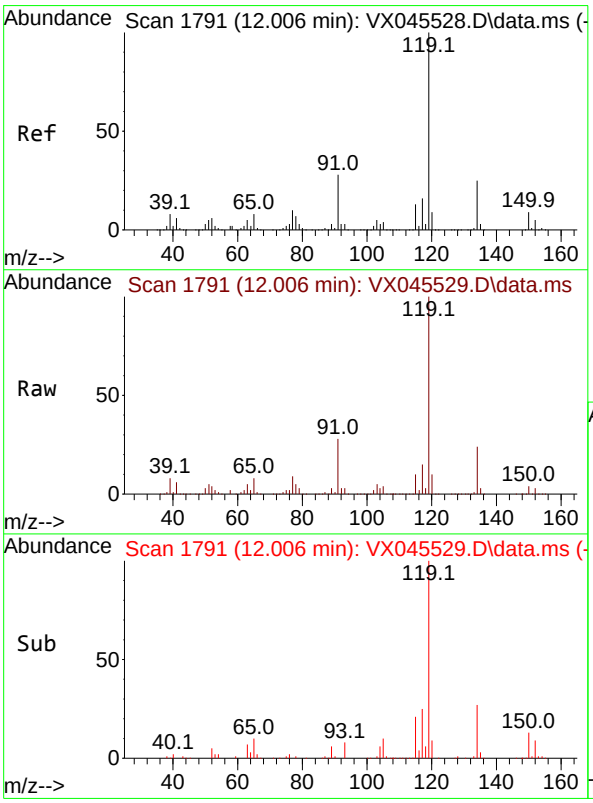
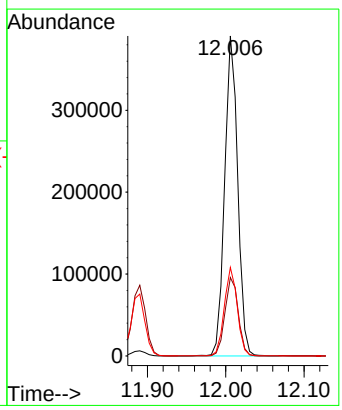
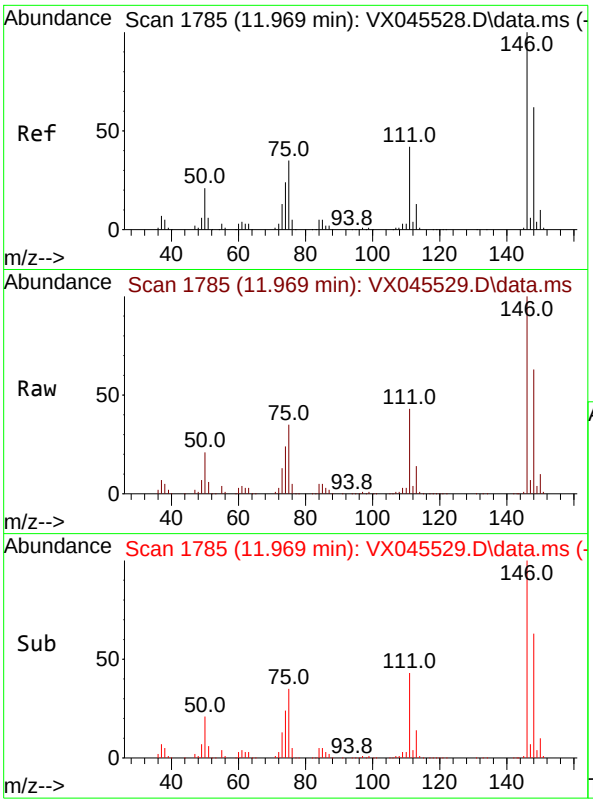


#86
p-Isopropyltoluene
Concen: 105.609 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion:119 Resp: 453109

Ion	Ratio	Lower	Upper
119	100		
134	25.1	12.6	37.8
91	27.4	13.7	41.1

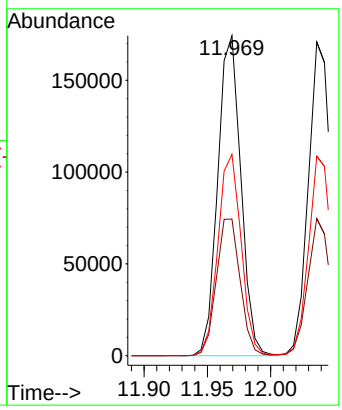




#87
1,3-Dichlorobenzene
Concen: 101.749 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion:146 Resp: 22148

Ion	Ratio	Lower	Upper
146	100		
111	44.1	22.2	66.6
148	63.1	31.9	95.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
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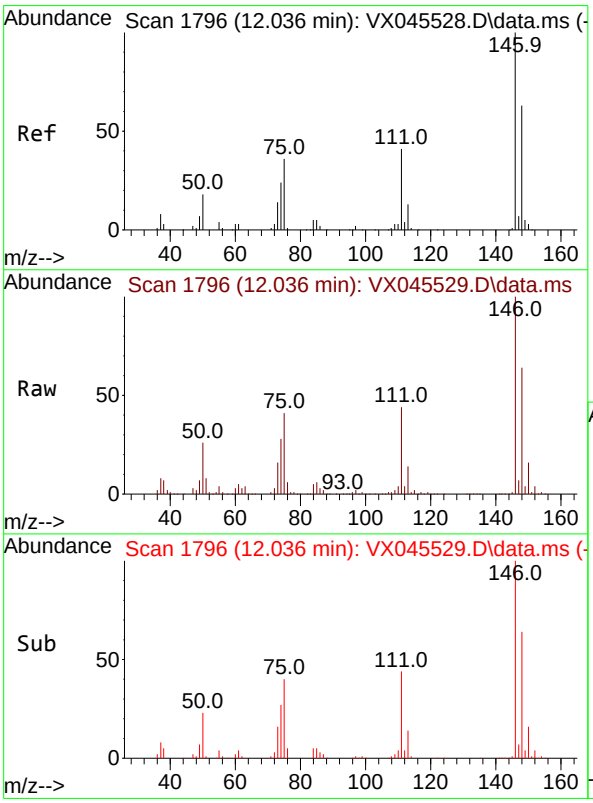
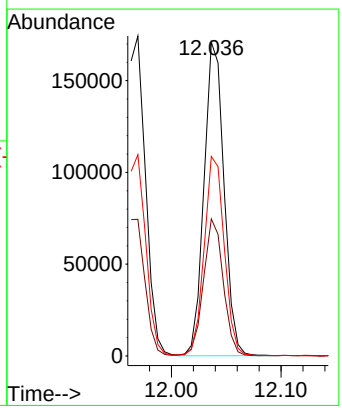
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

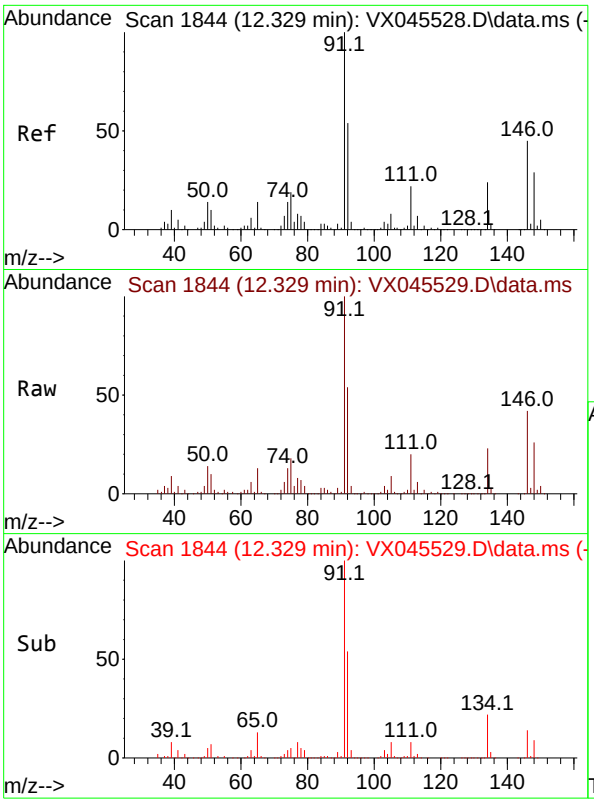


#88
1,4-Dichlorobenzene
Concen: 98.047 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion:146 Resp: 216367

Ion	Ratio	Lower	Upper
146	100		
111	43.2	20.9	62.8
148	64.0	31.5	94.5

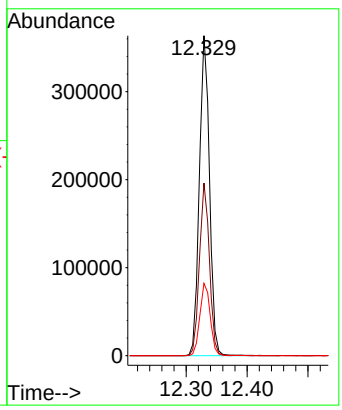




#89
n-Butylbenzene
Concen: 113.075 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion: 91 Resp: 42069

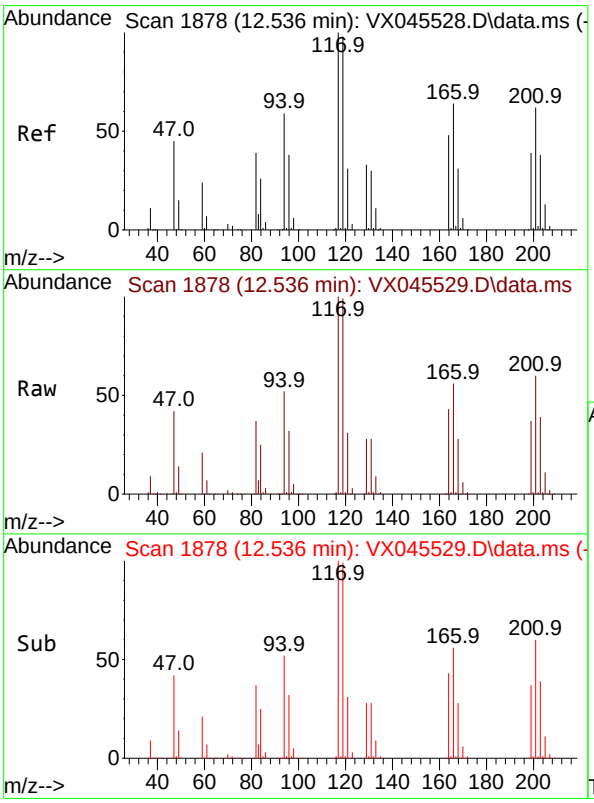
Ion	Ratio	Lower	Upper
91	100		
92	53.3	26.9	80.6
134	23.1	11.9	35.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

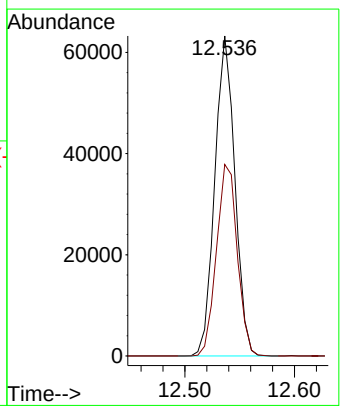
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

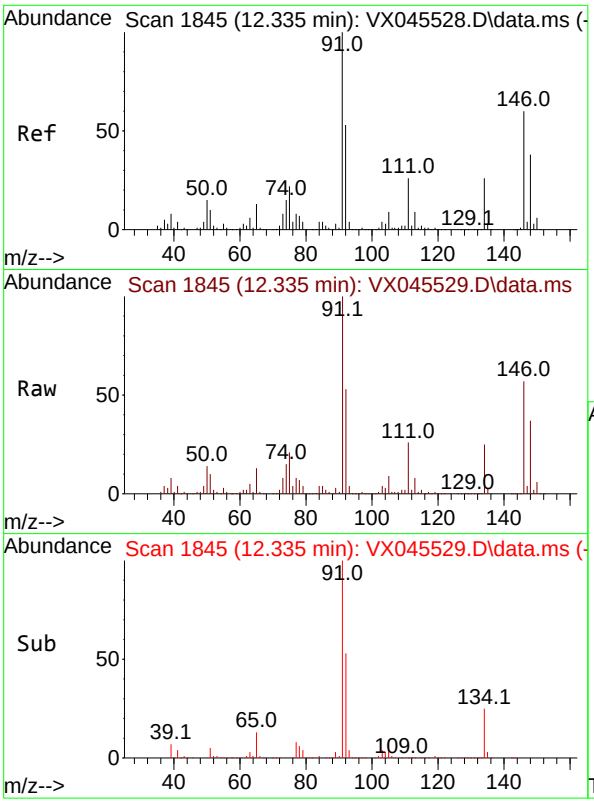


#90
Hexachloroethane
Concen: 109.160 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion:117 Resp: 80489

Ion	Ratio	Lower	Upper
117	100		
201	62.1	31.2	93.6

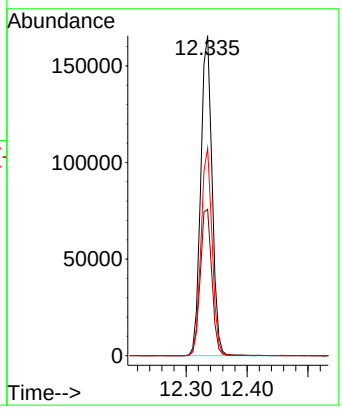




#91
1,2-Dichlorobenzene
Concen: 99.419 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion:146 Resp: 21515

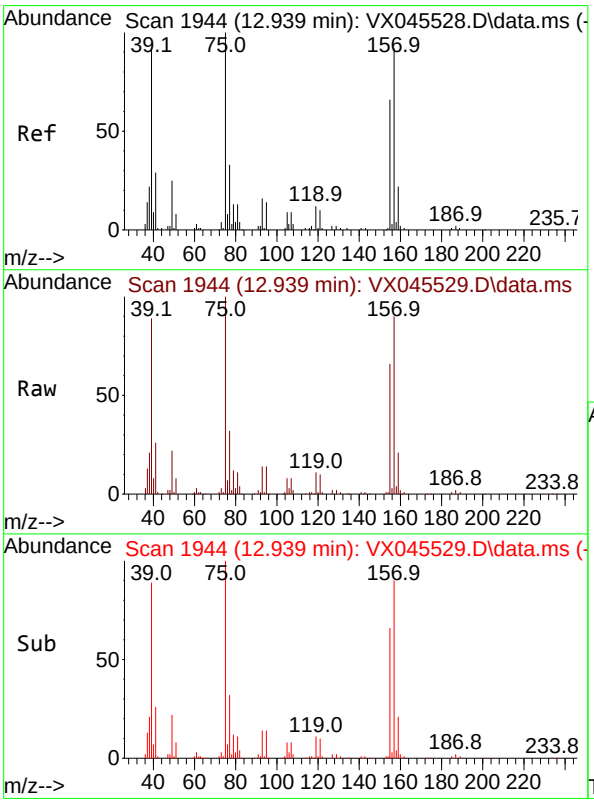
Ion	Ratio	Lower	Upper
146	100		
111	46.6	22.9	68.8
148	63.7	31.9	95.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

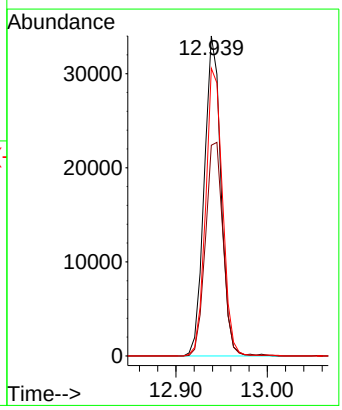
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

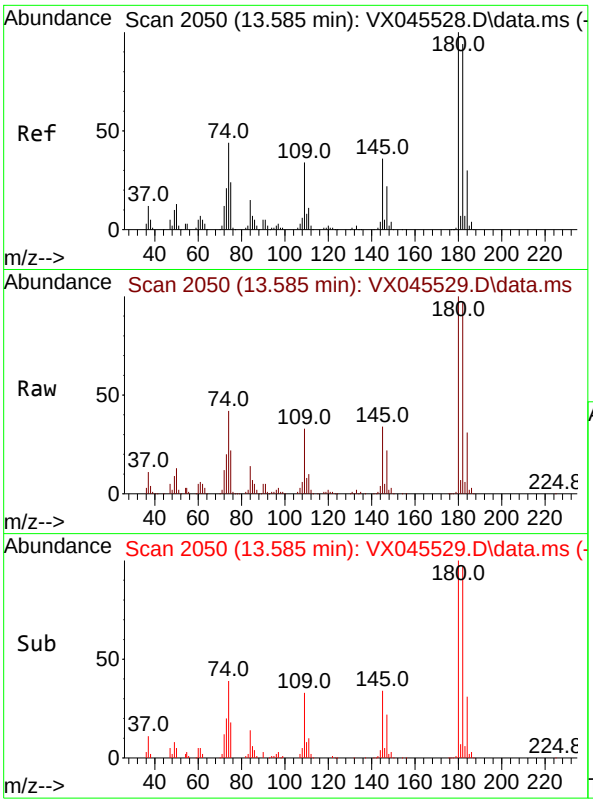


#92
1,2-Dibromo-3-Chloropropane
Concen: 113.214 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion: 75 Resp: 43047

Ion	Ratio	Lower	Upper
75	100		
155	70.2	34.9	104.7
157	90.6	44.9	134.7

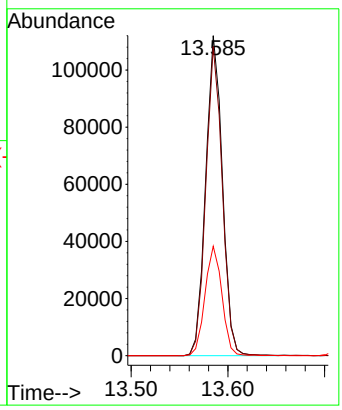




#93
1,2,4-Trichlorobenzene
Concen: 112.106 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion:180 Resp: 13504

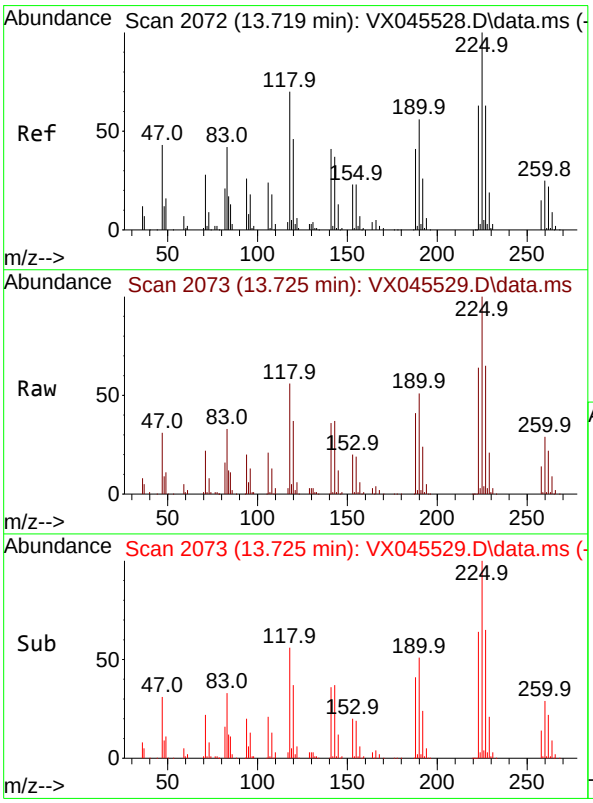
Ion	Ratio	Lower	Upper
180	100		
182	95.1	47.9	143.6
145	34.6	17.9	53.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

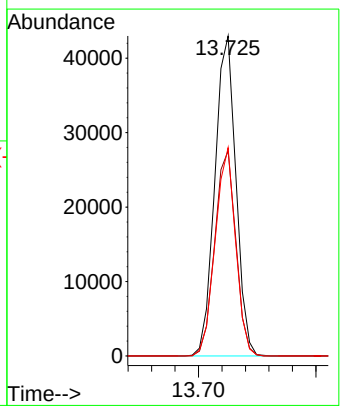
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

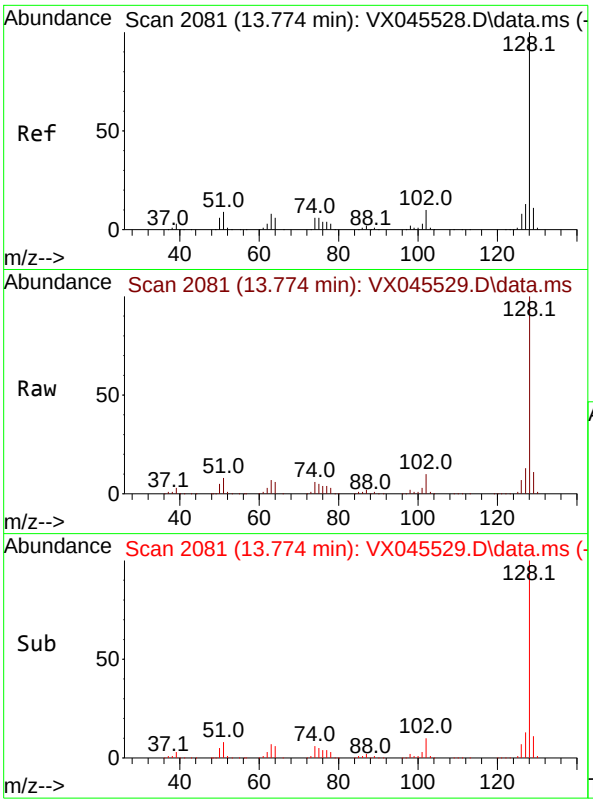


#94
Hexachlorobutadiene
Concen: 103.326 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.006 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion:225 Resp: 53636

Ion	Ratio	Lower	Upper
225	100		
223	64.2	31.1	93.3
227	62.9	32.2	96.6

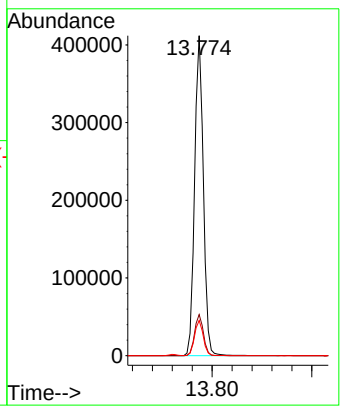




#95
Naphthalene
Concen: 111.473 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion:128 Resp: 49971

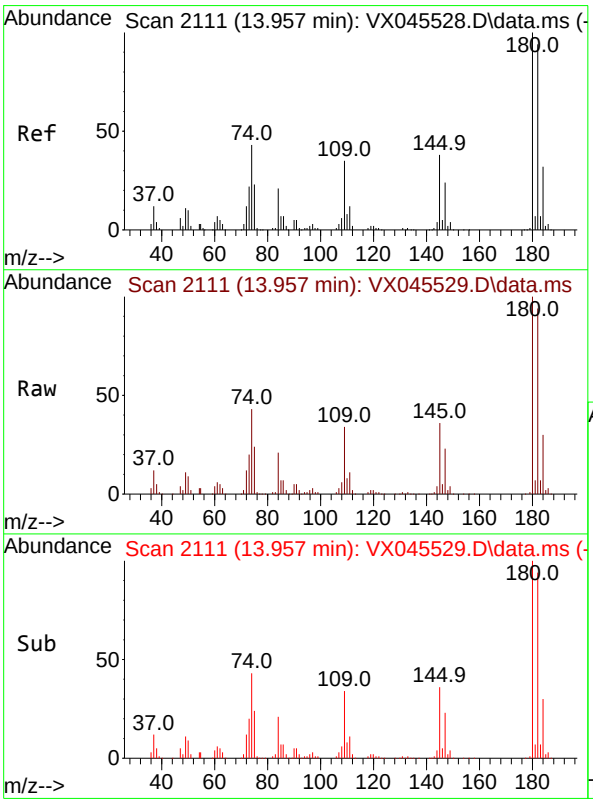
Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.3	15.5
129	11.0	8.6	12.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

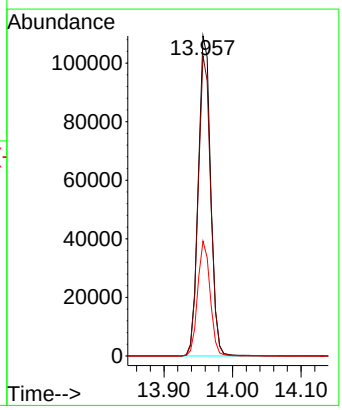
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#96
1,2,3-Trichlorobenzene
Concen: 108.869 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion:180 Resp: 137328

Ion	Ratio	Lower	Upper
180	100		
182	94.5	47.3	141.8
145	36.0	18.2	54.6



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045530.D
Acq On : 01 Apr 2025 19:02
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 02 02:54:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 02:44:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	90033	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	160037	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	133342	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	61380	50.000	ug/l	# 0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	252998	153.661	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 307.320%#			
35) Dibromofluoromethane	5.379	113	173598	152.887	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 305.780%#			
50) Toluene-d8	8.647	98	603264	152.216	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 304.440%#			
62) 4-Bromofluorobenzene	11.079	95	220921	153.035	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 306.060%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.167	85	221436	164.460	ug/l	100
3) Chloromethane	1.307	50	198321	143.373	ug/l	98
4) Vinyl Chloride	1.374	62	197096	155.697	ug/l	100
5) Bromomethane	1.593	94	88225	146.986	ug/l	97
6) Chloroethane	1.660	64	86251	128.421	ug/l	97
7) Trichlorofluoromethane	1.868	101	267098	141.495	ug/l	100
8) Diethyl Ether	2.136	74	96467	152.215	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.319	101	171118	154.698	ug/l	97
10) Methyl Iodide	2.441	142	202594	146.838	ug/l	99
11) Tert butyl alcohol	2.989	59	167769	758.202	ug/l	100
12) 1,1-Dichloroethene	2.307	96	166365	153.921	ug/l	97
13) Acrolein	2.239	56	232818	764.070	ug/l	100
14) Allyl chloride	2.654	41	313268	152.755	ug/l	99
15) Acrylonitrile	3.069	53	507965	727.247	ug/l	100
16) Acetone	2.386	43	479564	709.323	ug/l	99
17) Carbon Disulfide	2.502	76	443495	166.133	ug/l	99
18) Methyl Acetate	2.703	43	228558	146.832	ug/l	99
19) Methyl tert-butyl Ether	3.117	73	598532	158.301	ug/l	99
20) Methylene Chloride	2.782	84	186382	147.254	ug/l	99
21) trans-1,2-Dichloroethene	3.081	96	170283	154.210	ug/l	98
22) Diisopropyl ether	3.764	45	636728	157.617	ug/l	94
23) Vinyl Acetate	3.721	43	2911326	834.120	ug/l	100
24) 1,1-Dichloroethane	3.605	63	349040	152.778	ug/l	99
25) 2-Butanone	4.556	43	740096	747.834	ug/l	99
26) 2,2-Dichloropropane	4.465	77	252063	170.765	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	205254	152.571	ug/l	98
28) Bromochloromethane	4.891	49	155600	140.938	ug/l	97
29) Tetrahydrofuran	5.001	42	475589	741.226	ug/l	100
30) Chloroform	5.087	83	353681	150.451	ug/l	98
31) Cyclohexane	5.458	56	310219	153.595	ug/l	97
32) 1,1,1-Trichloroethane	5.373	97	315136	158.426	ug/l	98
36) 1,1-Dichloropropene	5.684	75	239776	156.399	ug/l	98
37) Ethyl Acetate	4.715	43	294559	152.461	ug/l	99
38) Carbon Tetrachloride	5.672	117	266770	161.005	ug/l	99
39) Methylcyclohexane	7.373	83	303251	161.366	ug/l	96
40) Benzene	6.031	78	703311	150.208	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045530.D
Acq On : 01 Apr 2025 19:02
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 02 02:54:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 02:44:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	4.922	41	164699	160.155 ug/l		98
42) 1,2-Dichloroethane	6.080	62	296168	153.146 ug/l		100
43) Isopropyl Acetate	6.336	43	475823	162.494 ug/l		99
44) Trichloroethene	7.117	130	170940	153.599 ug/l		95
45) 1,2-Dichloropropane	7.428	63	179457	153.610 ug/l		98
46) Dibromomethane	7.574	93	135415	150.996 ug/l		98
47) Bromodichloromethane	7.818	83	279881	156.272 ug/l		98
48) Methyl methacrylate	7.690	41	240818	159.281 ug/l		99
49) 1,4-Dioxane	7.659	88	74929	2739.196 ug/l		99
51) 4-Methyl-2-Pentanone	8.574	43	1414771	728.817 ug/l		99
52) Toluene	8.714	92	420015	148.245 ug/l		100
53) t-1,3-Dichloropropene	8.976	75	267671	150.589 ug/l		98
54) cis-1,3-Dichloropropene	8.360	75	287973	171.104 ug/l		98
55) 1,1,2-Trichloroethane	9.147	97	163426	144.752 ug/l		98
56) Ethyl methacrylate	9.116	69	285895	163.624 ug/l		98
57) 1,3-Dichloropropane	9.305	76	288430	146.708 ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	703881	796.340 ug/l		99
59) 2-Hexanone	9.433	43	1053971	733.198 ug/l		100
60) Dibromochloromethane	9.519	129	194342	157.895 ug/l		98
61) 1,2-Dibromoethane	9.610	107	174571	152.745 ug/l		99
64) Tetrachloroethene	9.269	164	138926	147.568 ug/l		98
65) Chlorobenzene	10.080	112	444631	156.049 ug/l		98
66) 1,1,1,2-Tetrachloroethane	10.159	131	156069	157.769 ug/l		99
67) Ethyl Benzene	10.189	91	821130	160.907 ug/l		99
68) m/p-Xylenes	10.299	106	583228	314.231 ug/l		99
69) o-Xylene	10.640	106	285670	156.241 ug/l		100
70) Styrene	10.653	104	480722	159.299 ug/l		99
71) Bromoform	10.799	173	126115	170.743 ug/l	#	98
73) Isopropylbenzene	10.957	105	764406	155.475 ug/l		100
74) N-amyl acetate	10.842	43	408934	173.877 ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.213	83	249980	144.737 ug/l		100
76) 1,2,3-Trichloropropane	11.238	75	215694m	144.064 ug/l		
77) Bromobenzene	11.195	156	171573	151.033 ug/l		99
78) n-propylbenzene	11.305	91	897084	158.408 ug/l		100
79) 2-Chlorotoluene	11.360	91	537263	148.399 ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	620819	152.700 ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	78805	178.636 ug/l		93
82) 4-Chlorotoluene	11.451	91	615594	152.505 ug/l		99
83) tert-Butylbenzene	11.713	119	627039	155.783 ug/l		100
84) 1,2,4-Trimethylbenzene	11.750	105	629704	154.317 ug/l		100
85) sec-Butylbenzene	11.890	105	790355	159.869 ug/l		100
86) p-Isopropyltoluene	12.006	119	641521	157.397 ug/l		100
87) 1,3-Dichlorobenzene	11.969	146	314077	151.885 ug/l		100
88) 1,4-Dichlorobenzene	12.037	146	314197	149.876 ug/l		99
89) n-Butylbenzene	12.329	91	604445	171.019 ug/l		100
90) Hexachloroethane	12.536	117	121761	173.829 ug/l		99
91) 1,2-Dichlorobenzene	12.335	146	307031	149.342 ug/l		100
92) 1,2-Dibromo-3-Chloropr...	12.939	75	64317	178.062 ug/l		99
93) 1,2,4-Trichlorobenzene	13.585	180	199365	174.213 ug/l		99
94) Hexachlorobutadiene	13.725	225	77792	157.752 ug/l		99
95) Naphthalene	13.774	128	733300	172.191 ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	201989	168.562 ug/l		99

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045530.D
Acq On : 01 Apr 2025 19:02
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 02 02:54:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 02:44:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

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

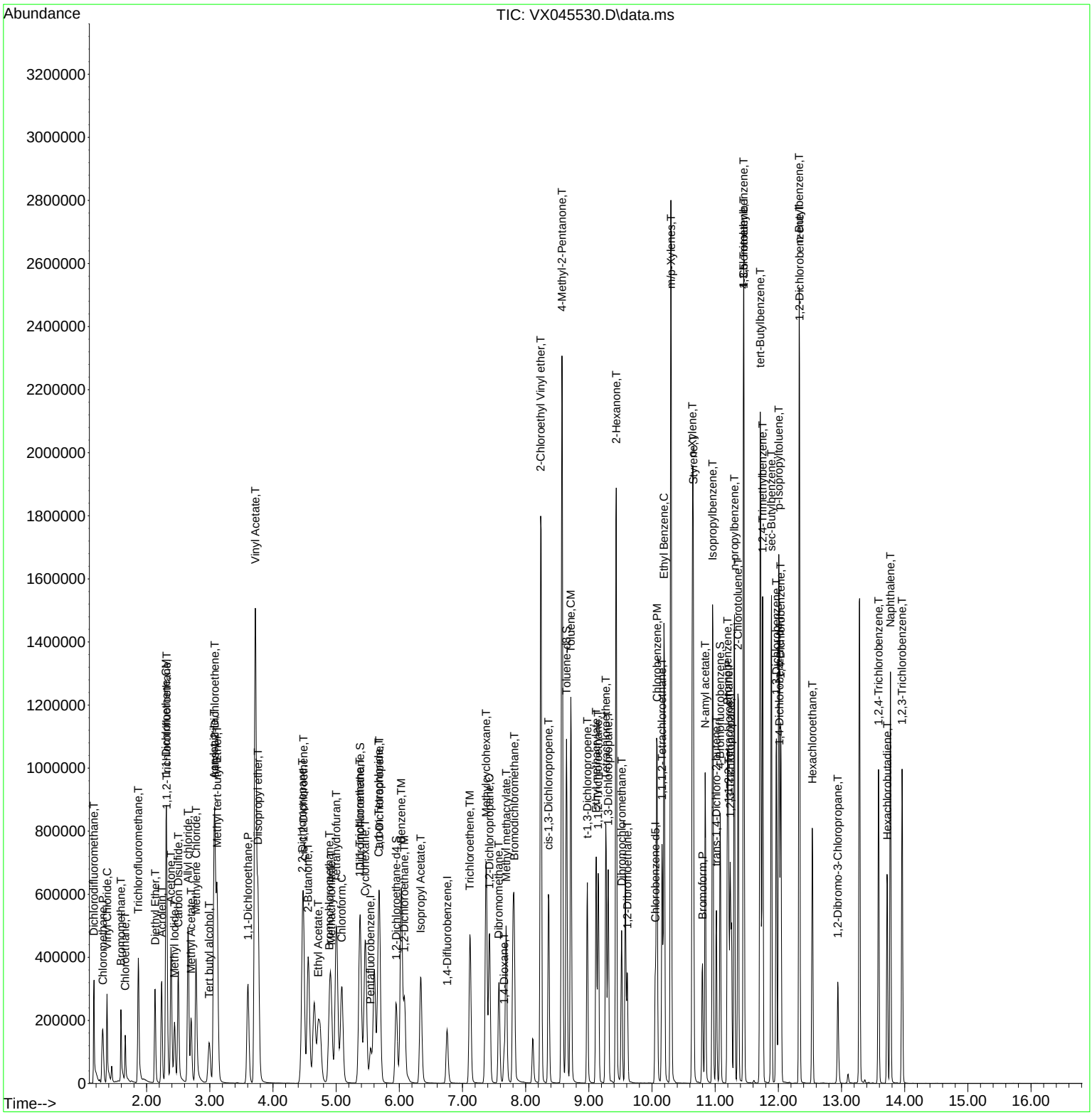
(#) = qualifier out of range (m) = manual integration (+) = signals summed

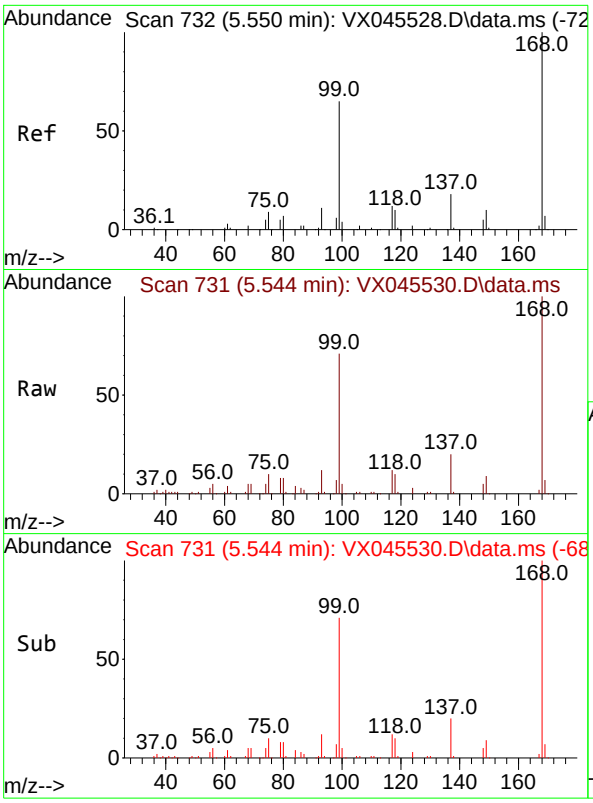
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045530.D
Acq On : 01 Apr 2025 19:02
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 02 02:54:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 02:44:48 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

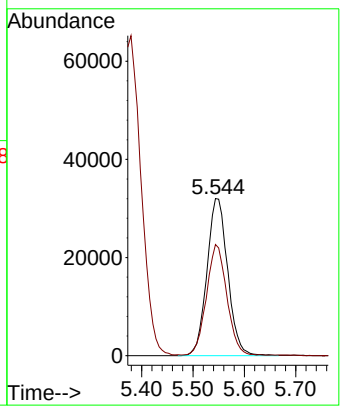




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion:168 Resp: 9003

Ion	Ratio	Lower	Upper
168	100		
99	70.3	52.3	78.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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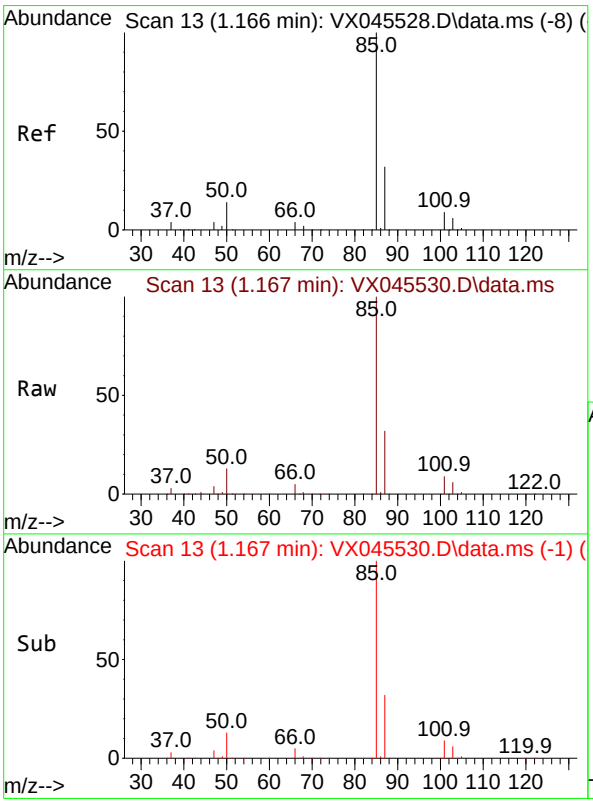
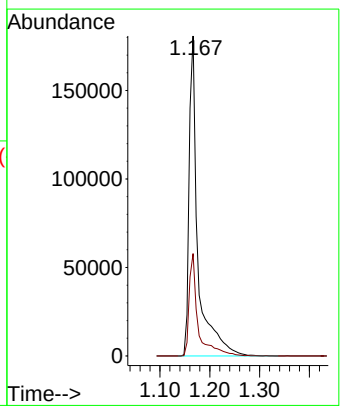
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

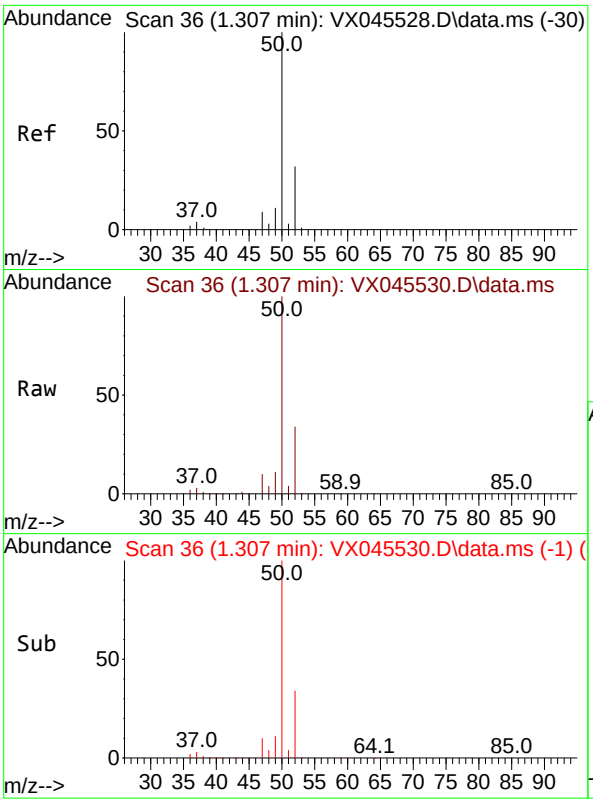


#2
Dichlorodifluoromethane
Concen: 164.460 ug/l
RT: 1.167 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion: 85 Resp: 221436

Ion	Ratio	Lower	Upper
85	100		
87	32.0	16.1	48.2

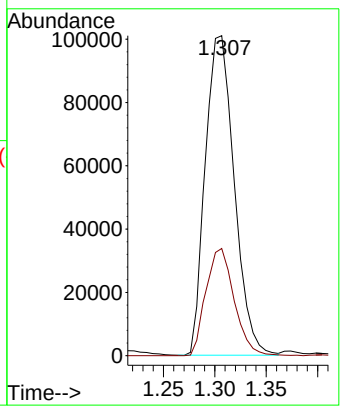




#3
Chloromethane
Concen: 143.373 ug/l
RT: 1.307 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion: 50 Resp: 19832

Ion	Ratio	Lower	Upper
50	100		
52	33.6	25.9	38.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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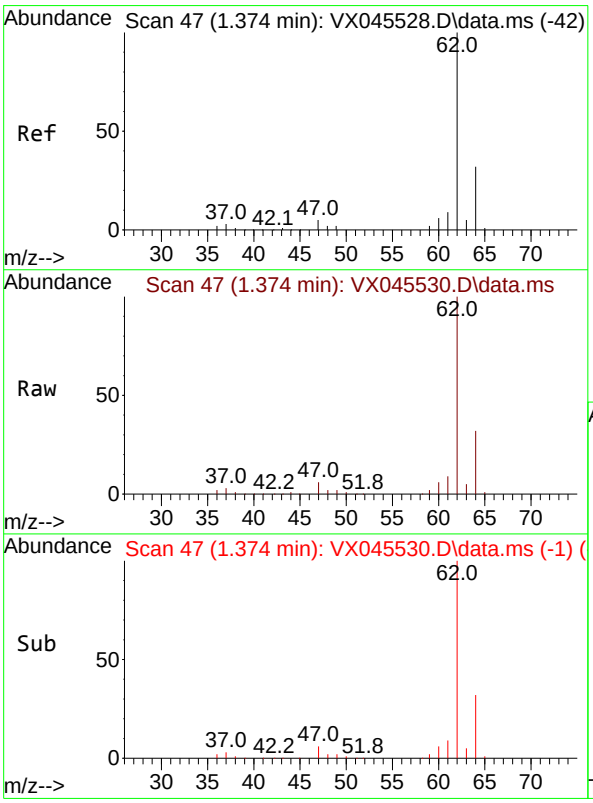
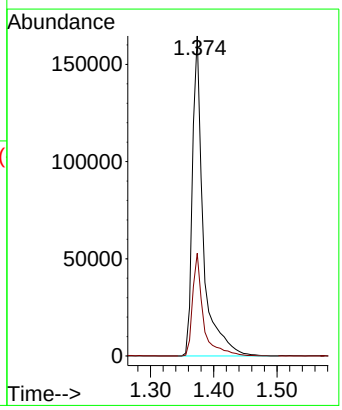
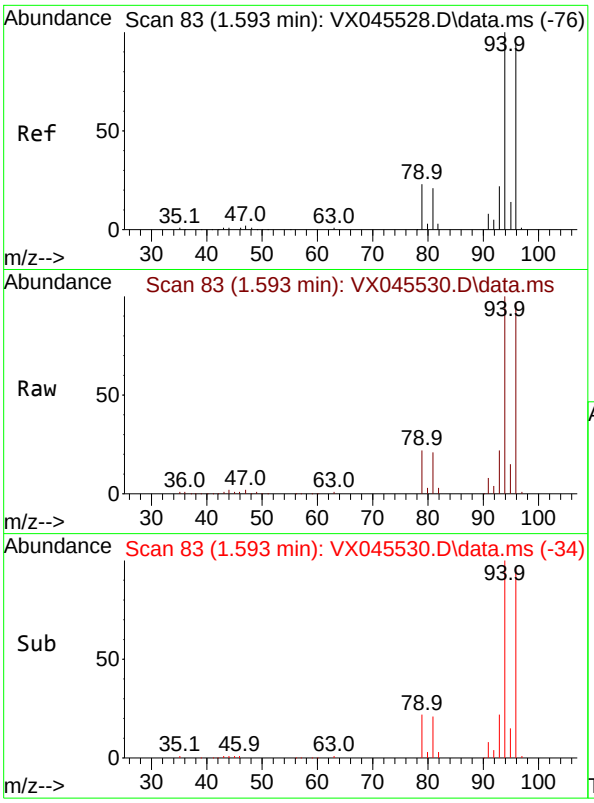


#4
Vinyl Chloride
Concen: 155.697 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion: 62 Resp: 197096

Ion	Ratio	Lower	Upper
62	100		
64	32.1	25.5	38.3

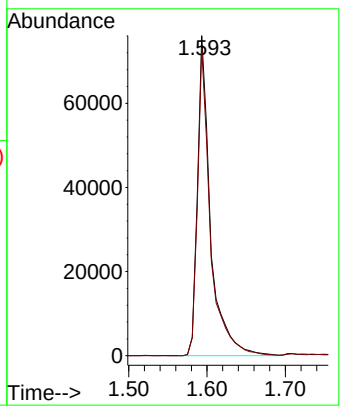




#5
Bromomethane
Concen: 146.986 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion: 94 Resp: 8822

Ion	Ratio	Lower	Upper
94	100		
96	96.1	74.8	112.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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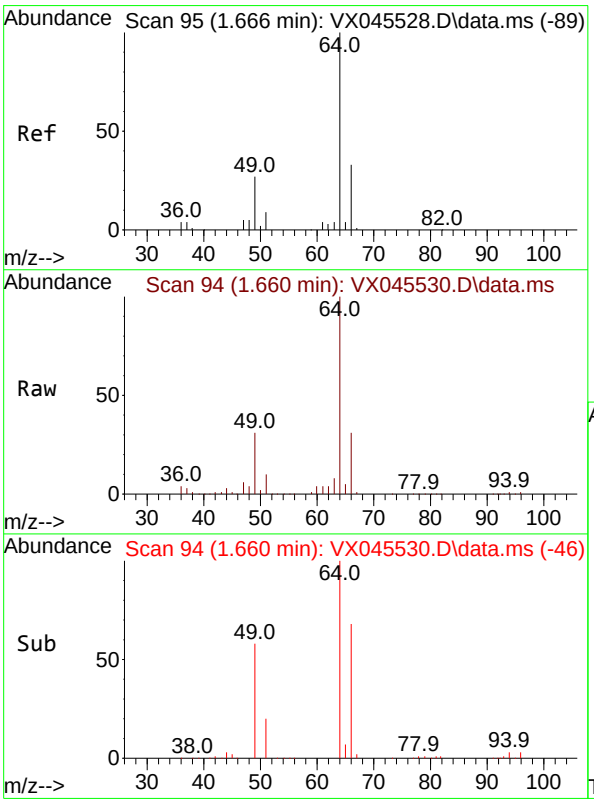
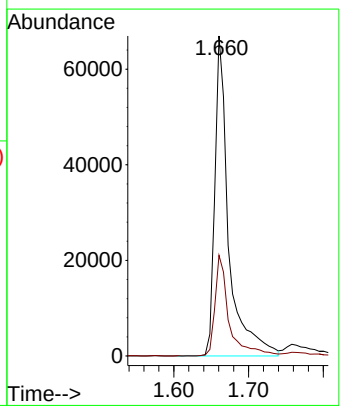
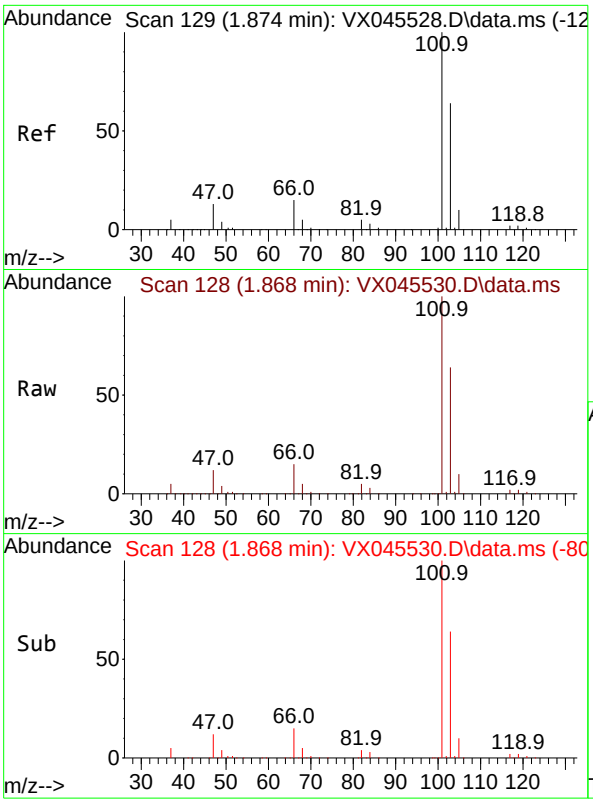


#6
Chloroethane
Concen: 128.421 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.006 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion: 64 Resp: 86251

Ion	Ratio	Lower	Upper
64	100		
66	31.4	26.3	39.5

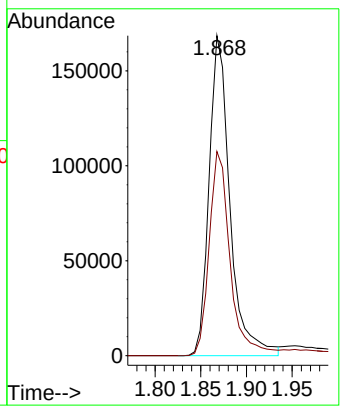




#7
Trichlorofluoromethane
Concen: 141.495 ug/l
RT: 1.868 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion:101 Resp: 26709

Ion	Ratio	Lower	Upper
101	100		
103	63.8	51.1	76.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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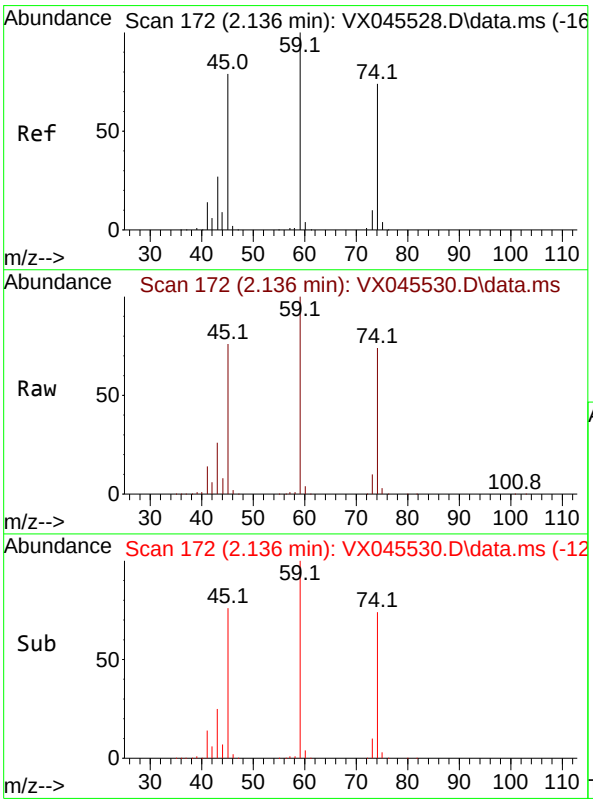
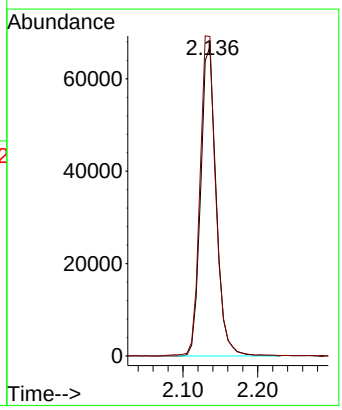
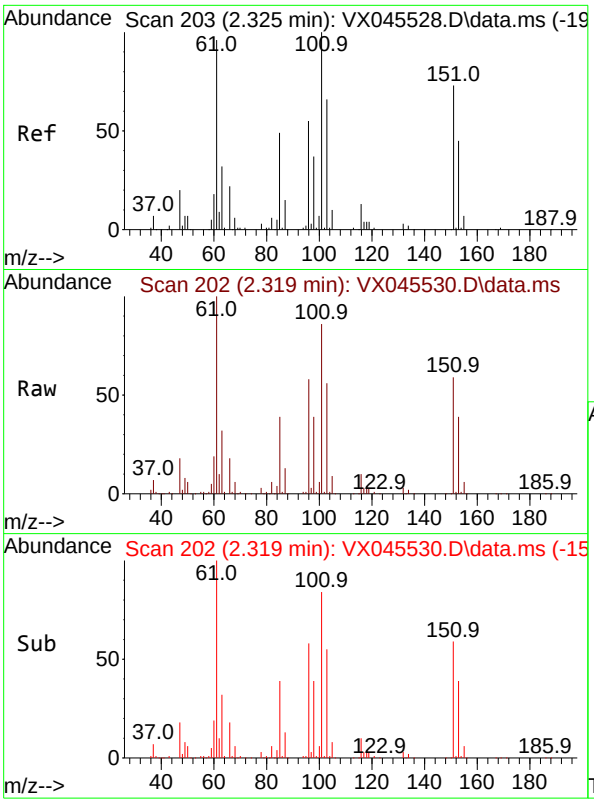


#8
Diethyl Ether
Concen: 152.215 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion: 74 Resp: 96467

Ion	Ratio	Lower	Upper
74	100		
45	105.8	53.0	159.1





#9
1,1,2-Trichlorotrifluoroethane
Concen: 154.698 ug/l
RT: 2.319 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion:101 Resp: 17111

Ion	Ratio	Lower	Upper
101	100		
85	46.9	38.9	58.3
151	69.3	57.5	86.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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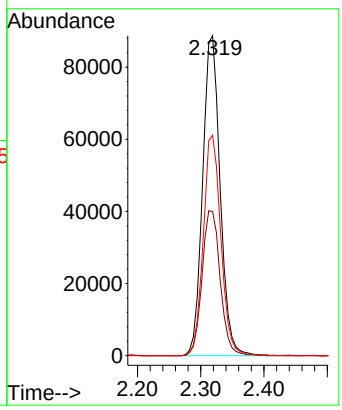
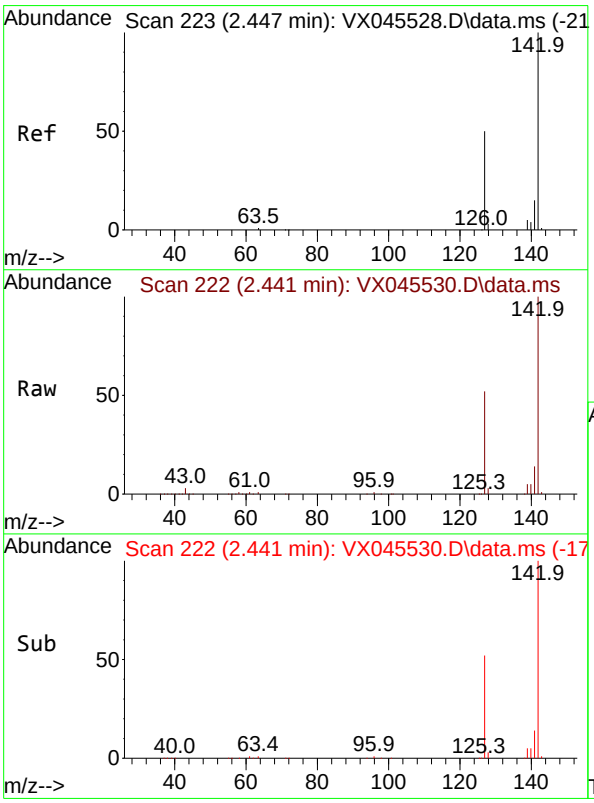
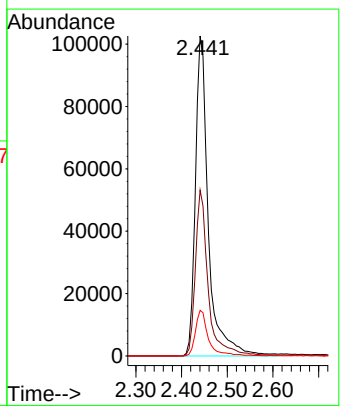


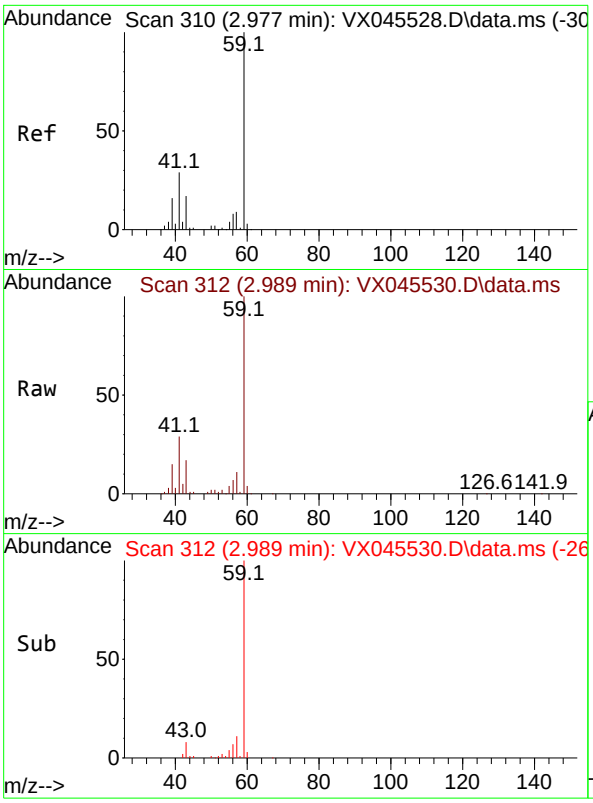


#10
Methyl Iodide
Concen: 146.838 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.006 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion:142 Resp: 202594

Ion	Ratio	Lower	Upper
142	100		
127	51.2	40.2	60.4
141	14.3	11.7	17.5

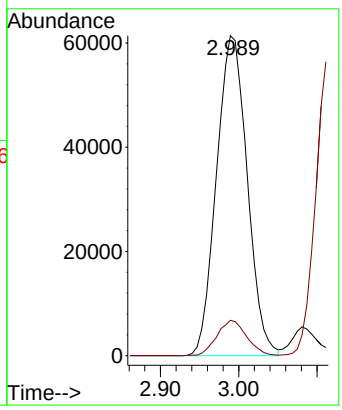




#11
Tert butyl alcohol
Concen: 758.202 ug/l
RT: 2.989 min Scan# 3
Delta R.T. 0.012 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion: 59 Resp: 16776

Ion	Ratio	Lower	Upper
59	100		
57	10.7	8.6	12.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
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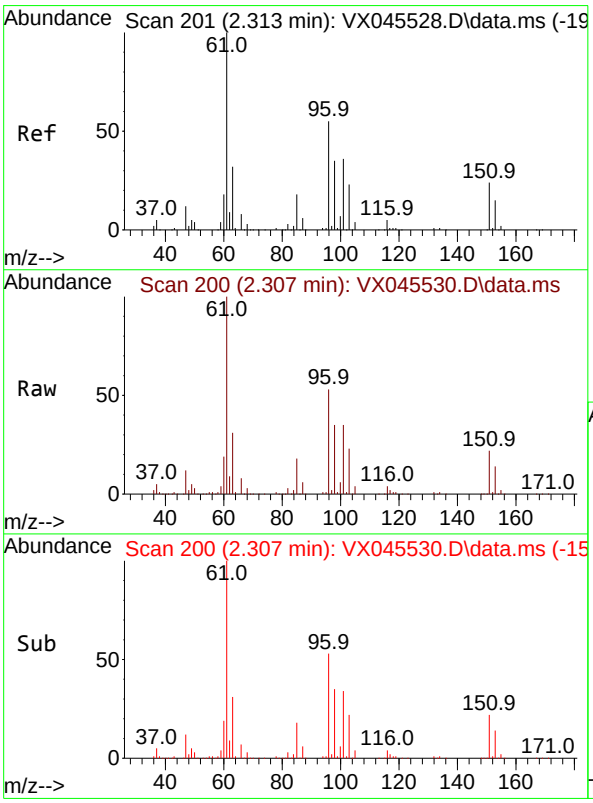
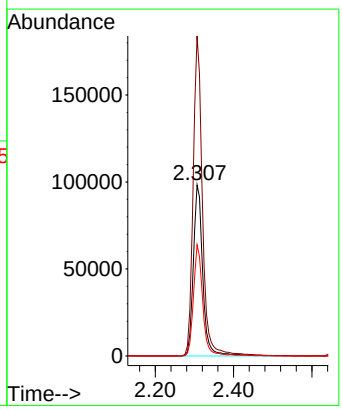
Supervised By :Mahesh Dadoda 04/02/2025

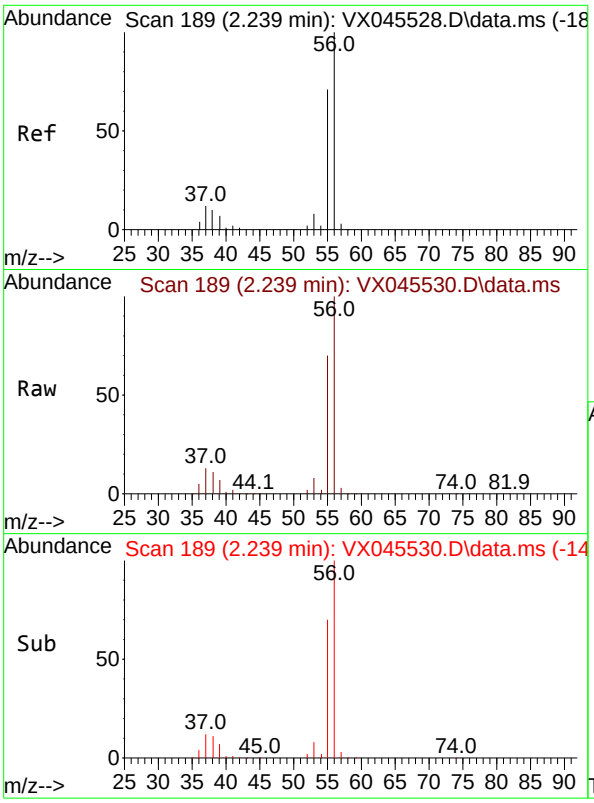


#12
1,1-Dichloroethene
Concen: 153.921 ug/l
RT: 2.307 min Scan# 200
Delta R.T. -0.006 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion: 96 Resp: 166365

Ion	Ratio	Lower	Upper
96	100		
61	187.0	145.7	218.5
98	65.0	51.6	77.4

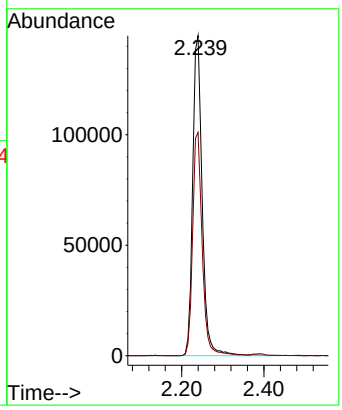




#13
Acrolein
Concen: 764.070 ug/l
RT: 2.239 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion: 56 Resp: 23281

Ion	Ratio	Lower	Upper
56	100		
55	70.2	56.2	84.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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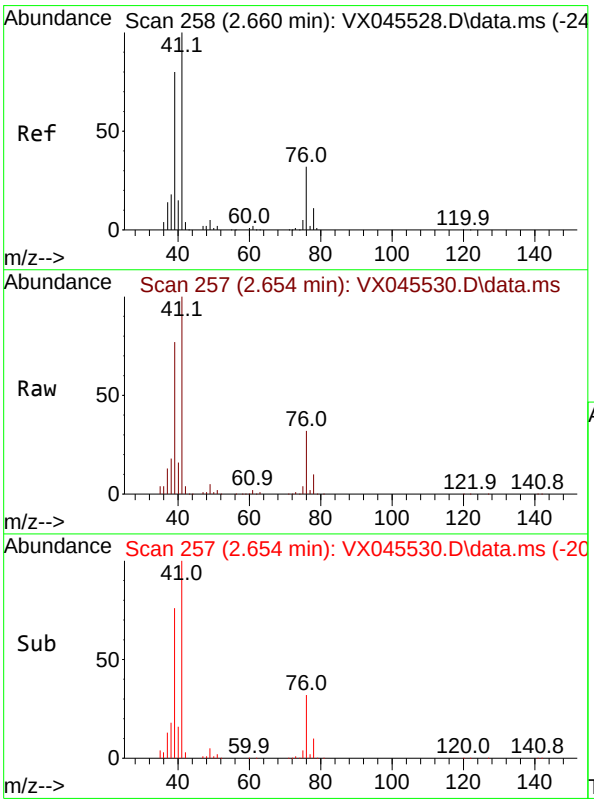
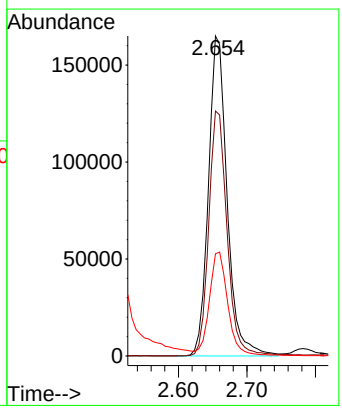
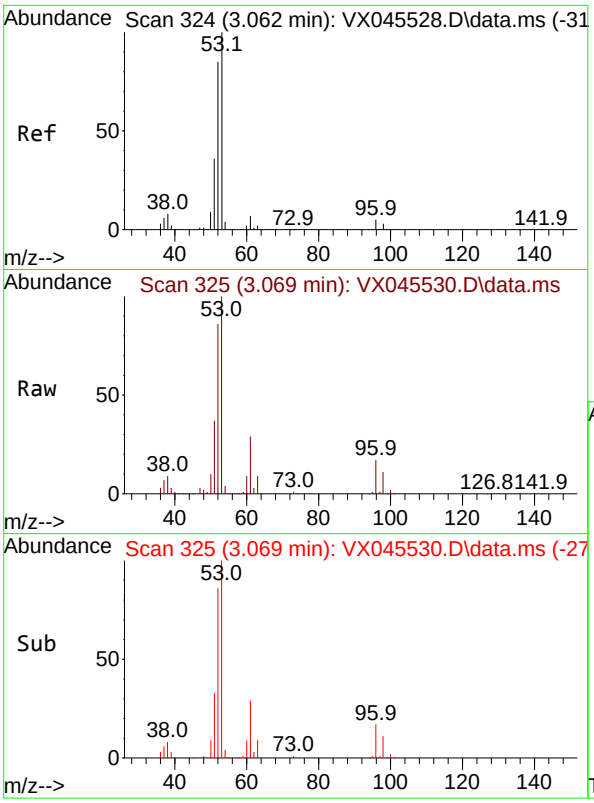


#14
Allyl chloride
Concen: 152.755 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.006 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion: 41 Resp: 313268

Ion	Ratio	Lower	Upper
41	100		
39	75.0	60.2	90.2
76	32.2	24.6	36.8

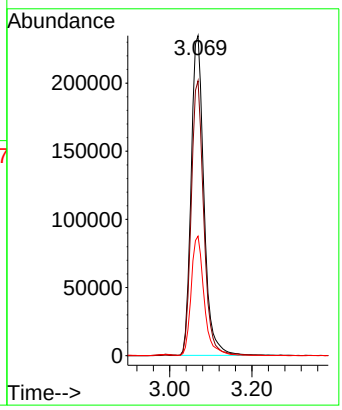




#15
Acrylonitrile
Concen: 727.247 ug/l
RT: 3.069 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion: 53 Resp: 50796

Ion	Ratio	Lower	Upper
53	100		
52	83.8	67.4	101.2
51	37.7	29.9	44.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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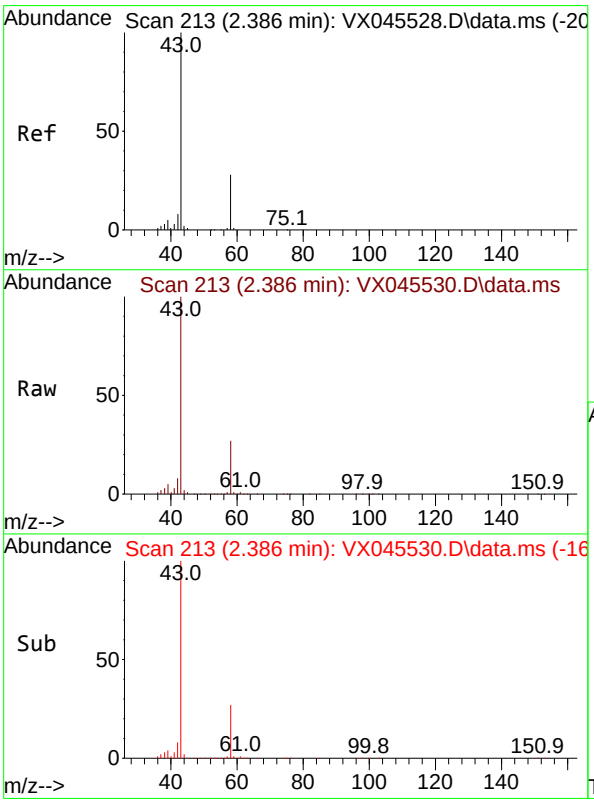
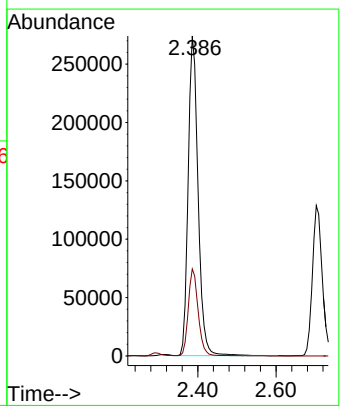
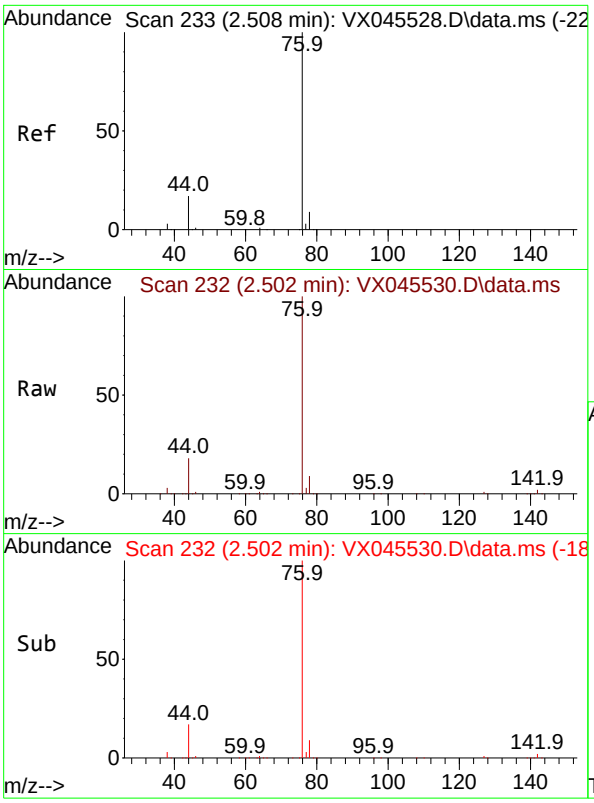


#16
Acetone
Concen: 709.323 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion: 43 Resp: 479564

Ion	Ratio	Lower	Upper
43	100		
58	27.2	22.3	33.5

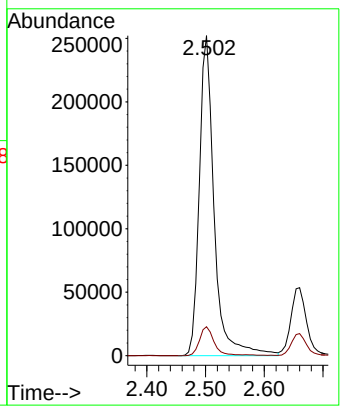




#17
Carbon Disulfide
Concen: 166.133 ug/l
RT: 2.502 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion: 76 Resp: 44349

Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.0	10.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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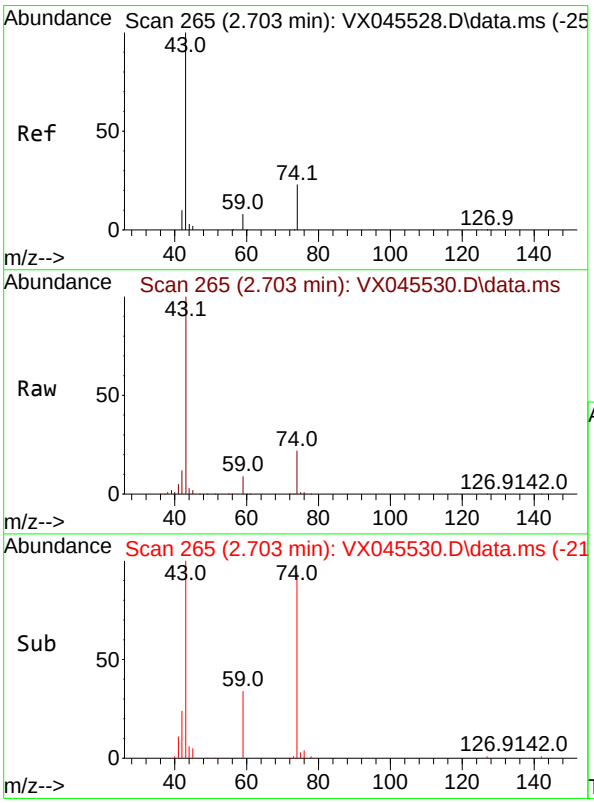
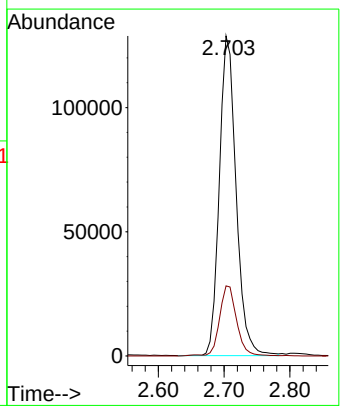
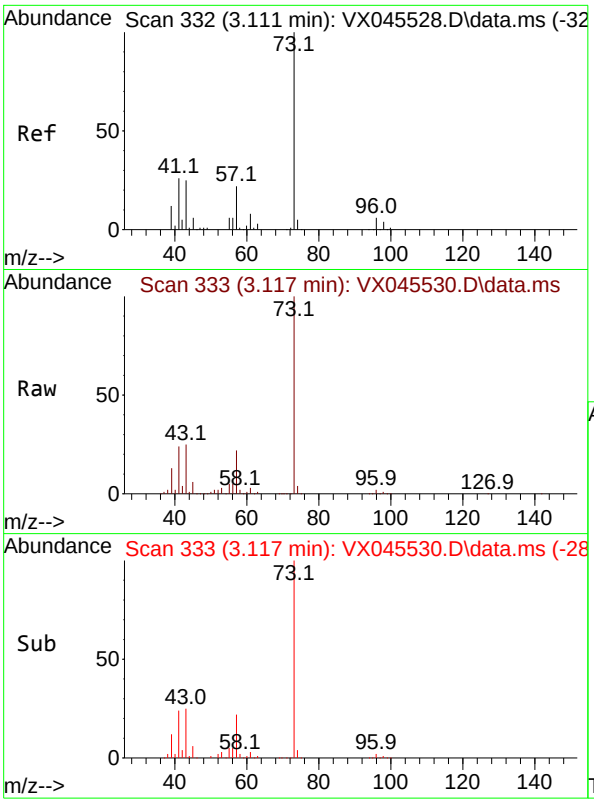


#18
Methyl Acetate
Concen: 146.832 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion: 43 Resp: 228558

Ion	Ratio	Lower	Upper
43	100		
74	22.4	17.5	26.3

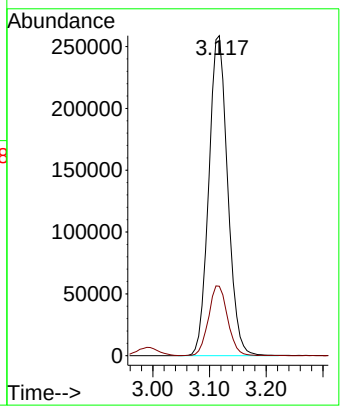




#19
Methyl tert-butyl Ether
Concen: 158.301 ug/l
RT: 3.117 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion: 73 Resp: 59853

Ion	Ratio	Lower	Upper
73	100		
57	21.7	17.6	26.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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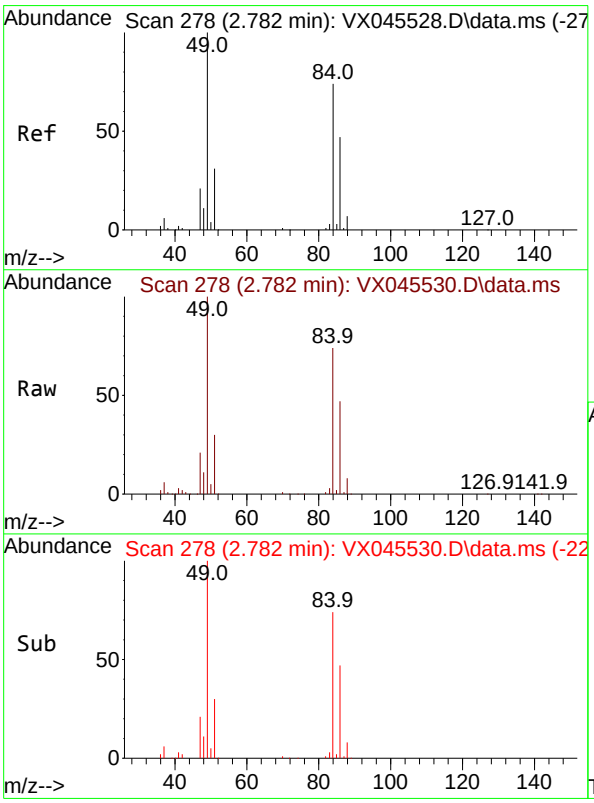
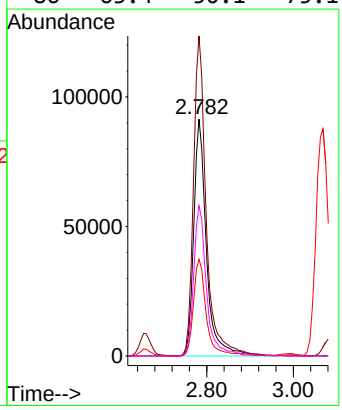
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

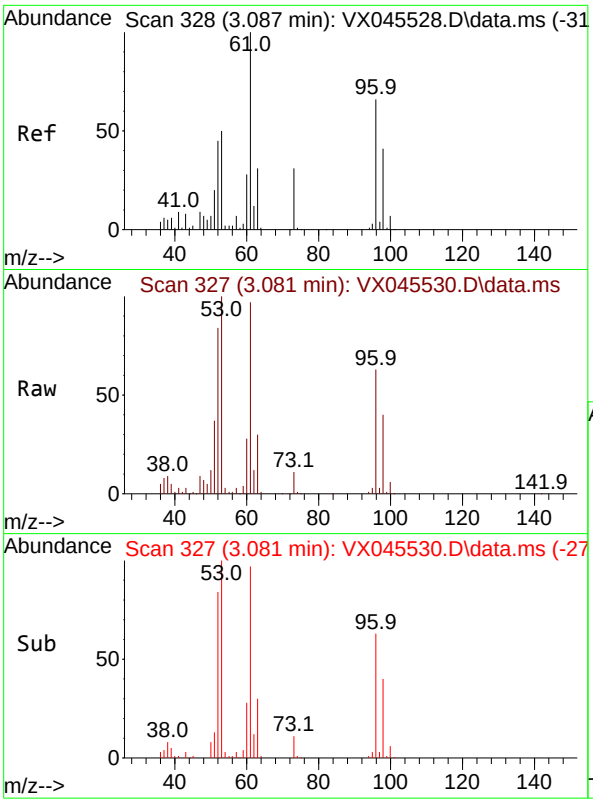


#20
Methylene Chloride
Concen: 147.254 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion: 84 Resp: 186382

Ion	Ratio	Lower	Upper
84	100		
49	135.1	107.5	161.3
51	40.8	33.0	49.6
86	63.4	50.1	75.1

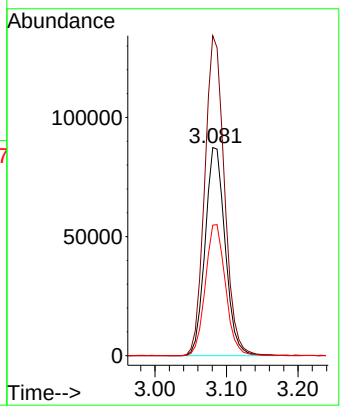




#21
trans-1,2-Dichloroethene
Concen: 154.210 ug/l
RT: 3.081 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion: 96 Resp: 17028

Ion	Ratio	Lower	Upper
96	100		
61	153.7	121.0	181.6
98	62.7	49.7	74.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
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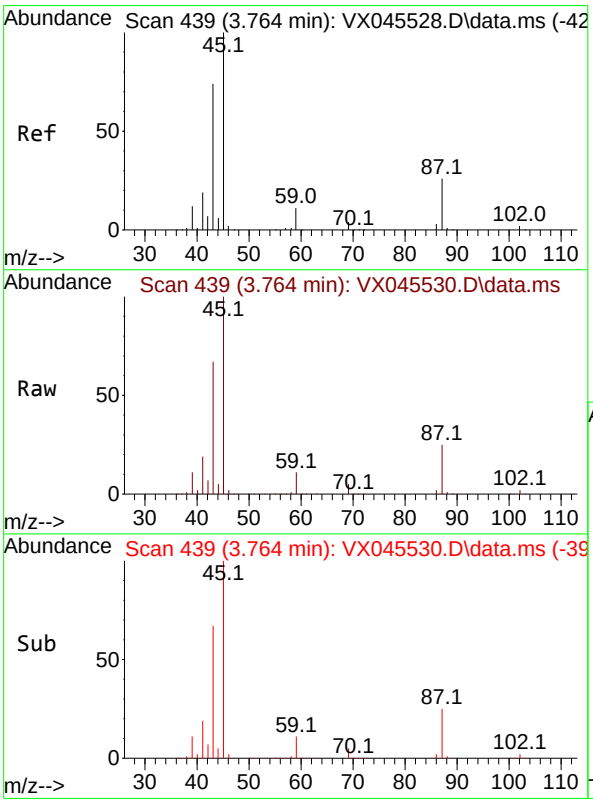
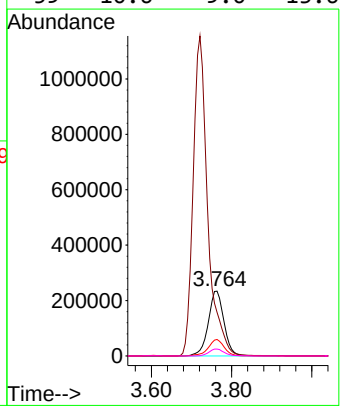
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

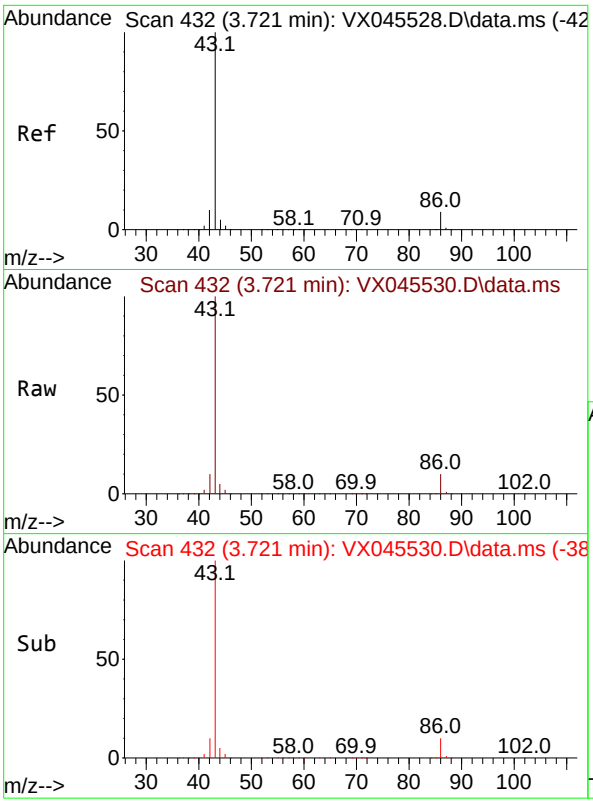


#22
Diisopropyl ether
Concen: 157.617 ug/l
RT: 3.764 min Scan# 439
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion: 45 Resp: 636728

Ion	Ratio	Lower	Upper
45	100		
43	67.0	59.3	88.9
87	25.5	20.4	30.6
59	10.6	9.0	13.6

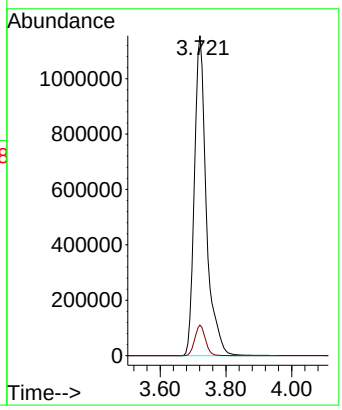




#23
Vinyl Acetate
Concen: 834.120 ug/l
RT: 3.721 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion: 43 Resp: 291132

Ion	Ratio	Lower	Upper
43	100		
86	9.6	7.5	11.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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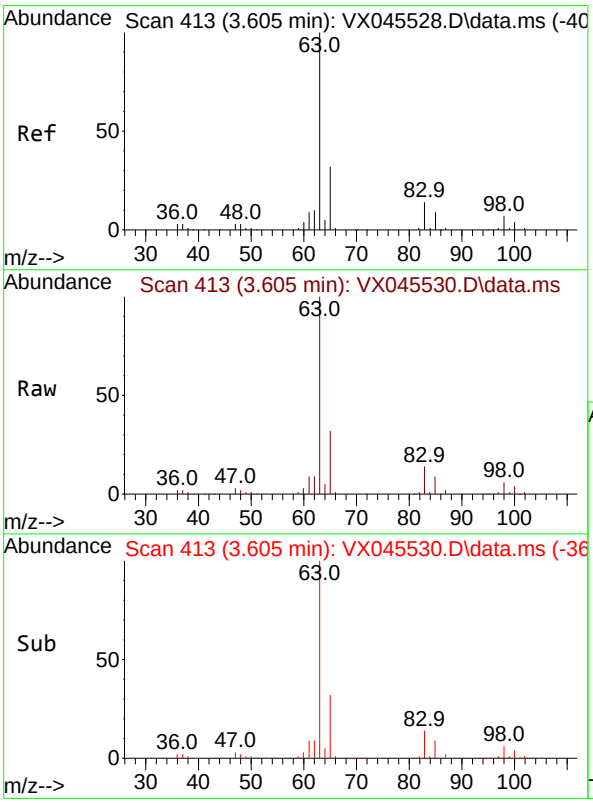
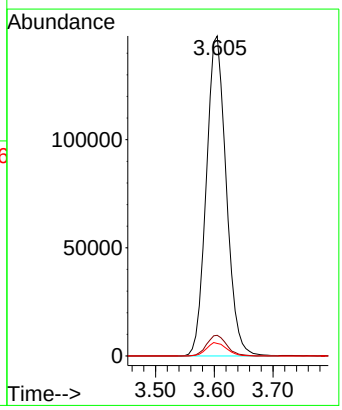
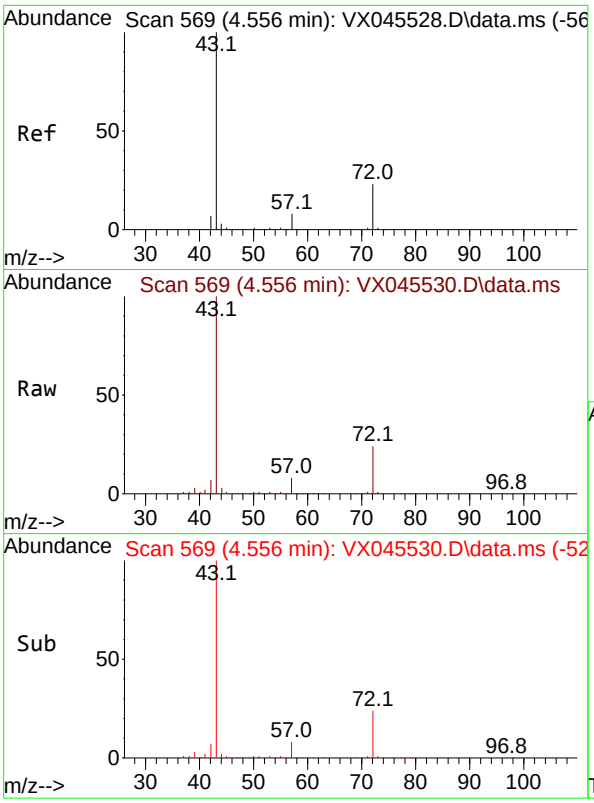


#24
1,1-Dichloroethane
Concen: 152.778 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion: 63 Resp: 349040

Ion	Ratio	Lower	Upper
63	100		
98	6.4	3.4	10.1
100	3.9	2.2	6.6

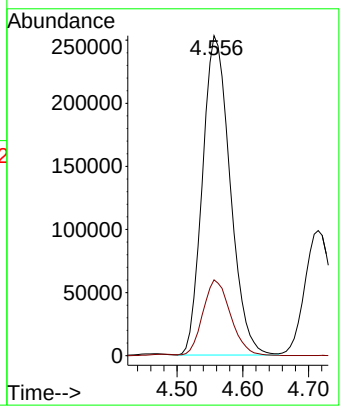




#25
2-Butanone
Concen: 747.834 ug/l
RT: 4.556 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion: 43 Resp: 74009

Ion	Ratio	Lower	Upper
43	100		
72	23.6	18.6	28.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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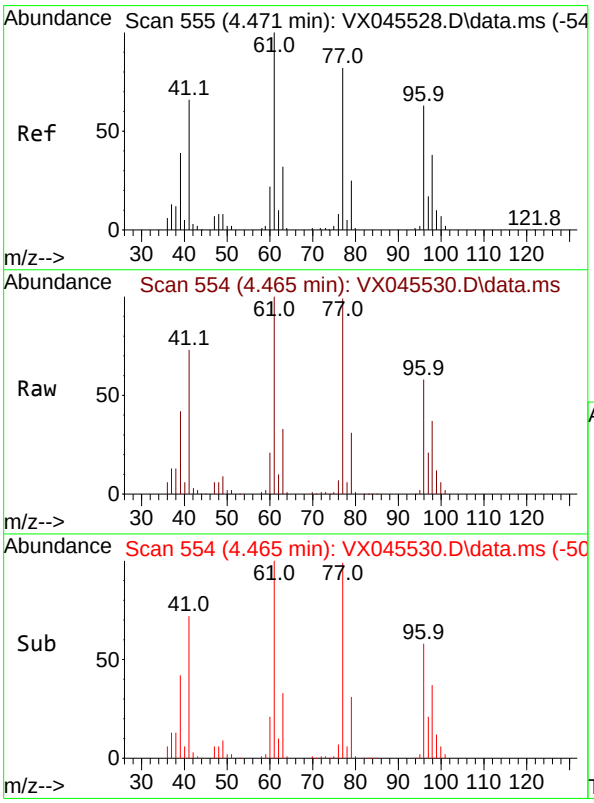
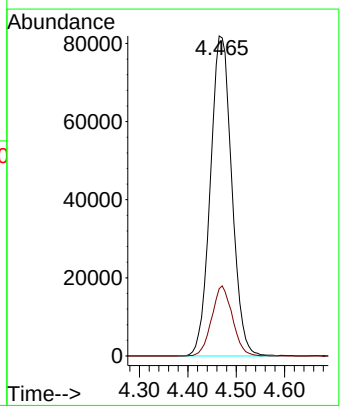
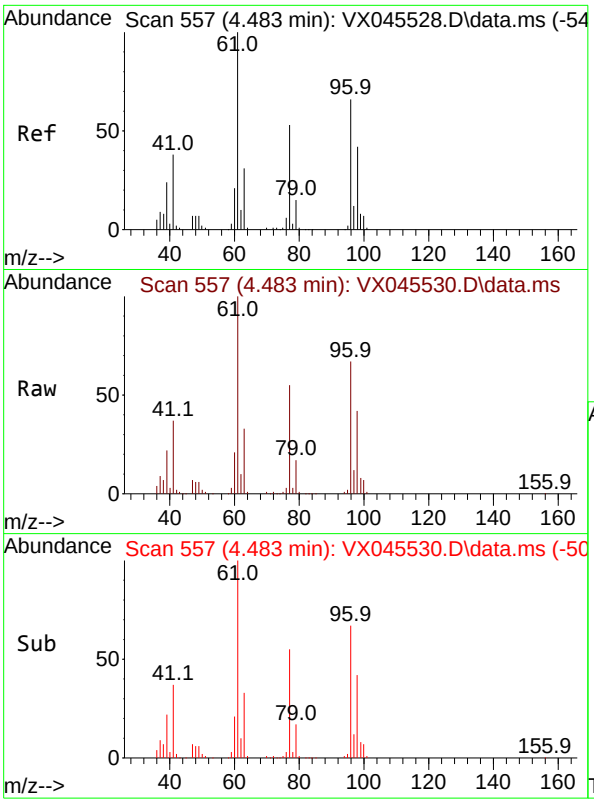


#26
2,2-Dichloropropane
Concen: 170.765 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.006 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion: 77 Resp: 252063

Ion	Ratio	Lower	Upper
77	100		
97	21.2	10.6	31.8

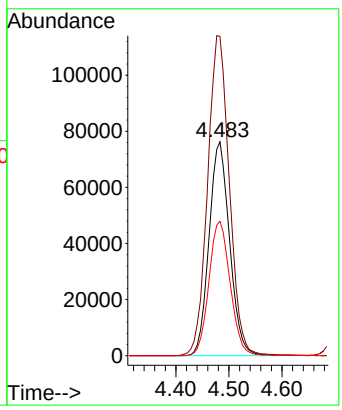




#27
cis-1,2-Dichloroethene
Concen: 152.571 ug/l
RT: 4.483 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion: 96 Resp: 20525

Ion	Ratio	Lower	Upper
96	100		
61	158.2	0.0	313.2
98	64.9	0.0	126.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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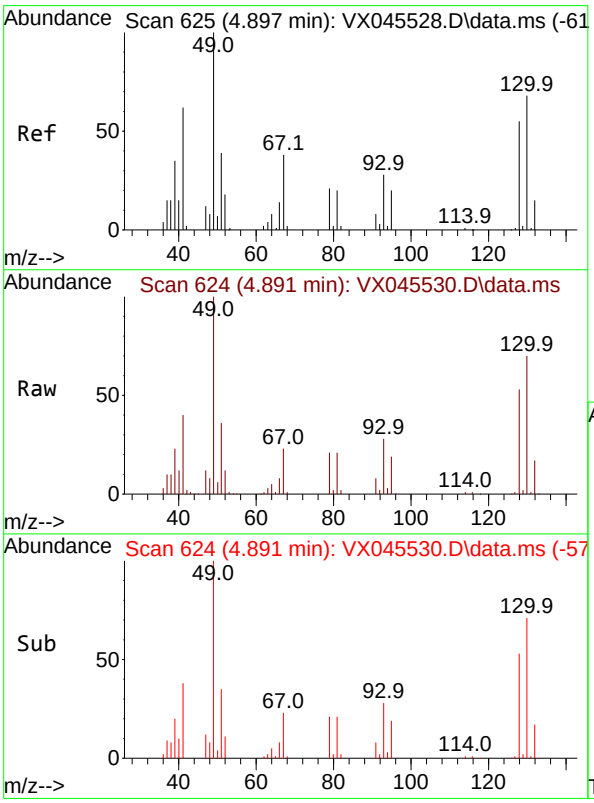
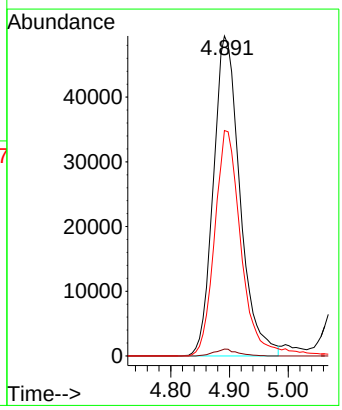
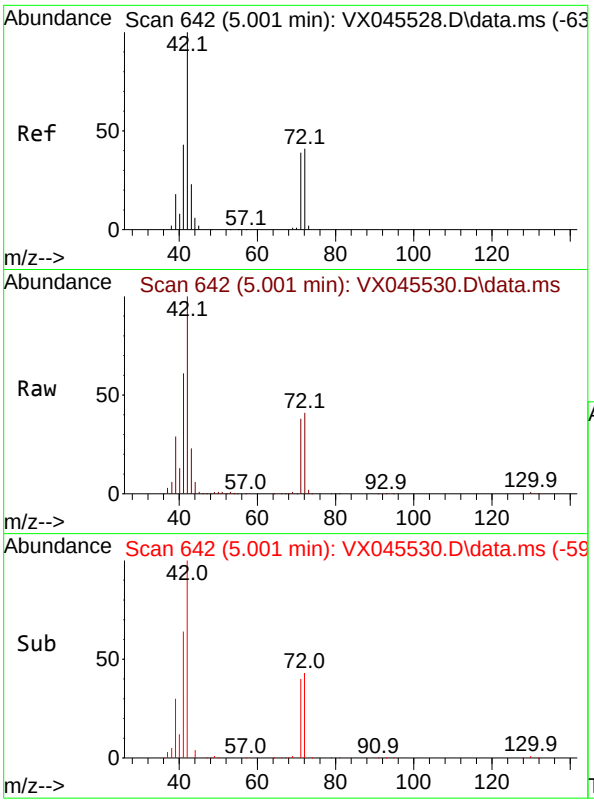


#28
Bromochloromethane
Concen: 140.938 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion: 49 Resp: 155600

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	3.8
130	70.7	54.6	81.8





#29
Tetrahydrofuran
Concen: 741.226 ug/l
RT: 5.001 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion: 42 Resp: 47558

Ion	Ratio	Lower	Upper
42	100		
72	42.3	33.4	50.0
71	39.2	31.4	47.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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Reviewed By :Amit Patel 04/02/2025
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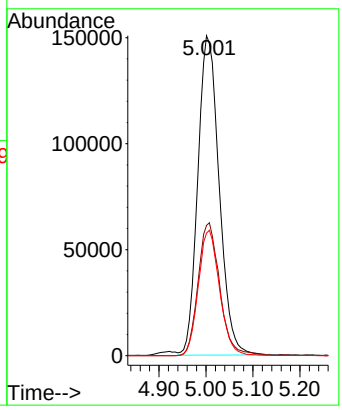
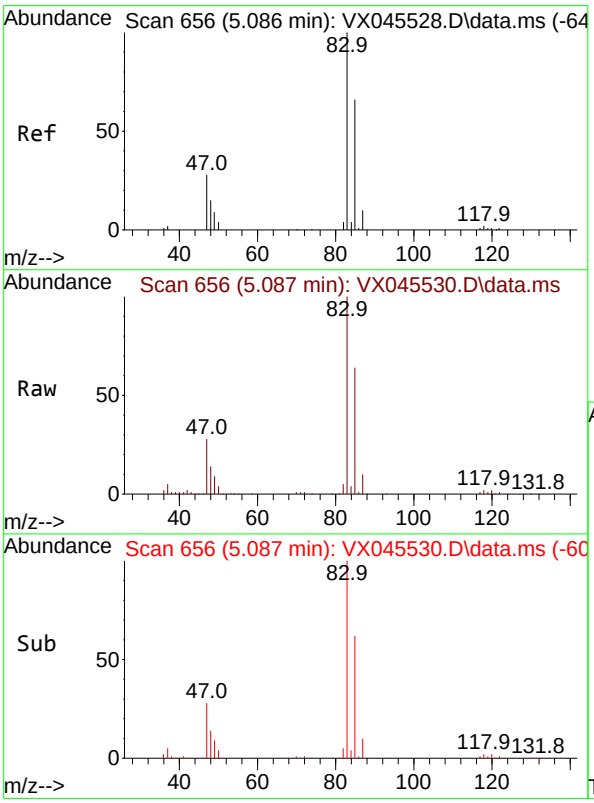
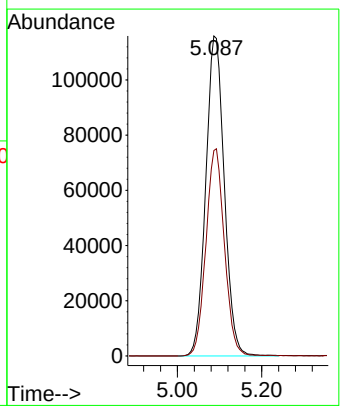


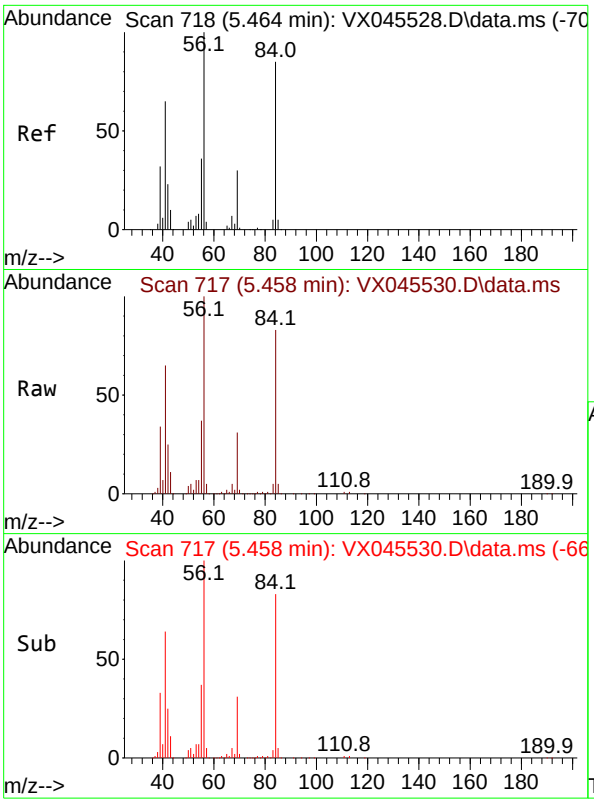


#30
Chloroform
Concen: 150.451 ug/l
RT: 5.087 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion: 83 Resp: 353681

Ion	Ratio	Lower	Upper
83	100		
85	64.2	52.8	79.2

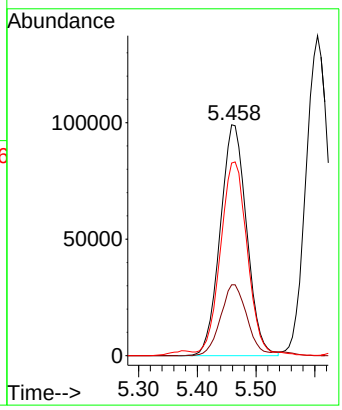




#31
Cyclohexane
Concen: 153.595 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion: 56 Resp: 31021

Ion	Ratio	Lower	Upper
56	100		
69	30.7	23.6	35.4
84	81.9	67.7	101.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
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Reviewed By :Amit Patel 04/02/2025
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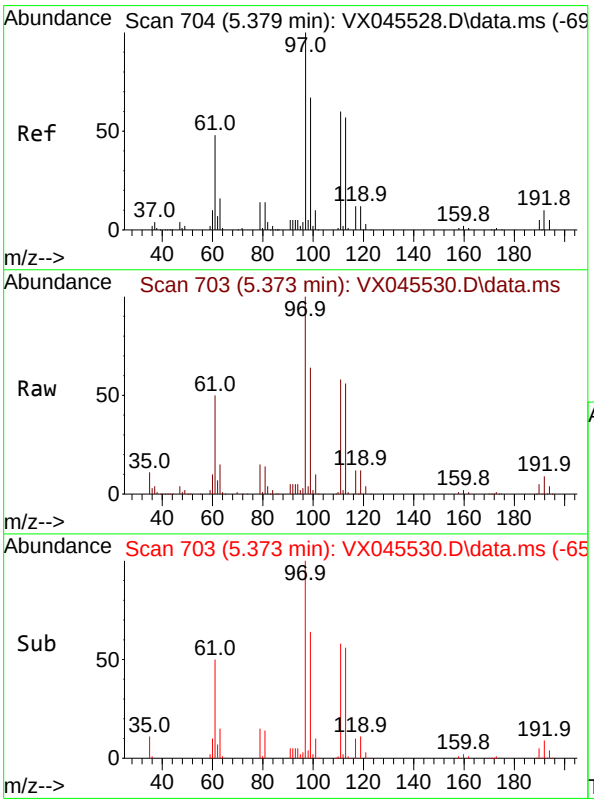
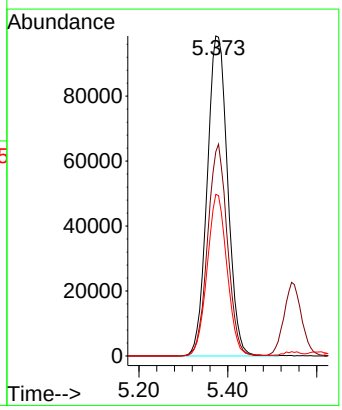
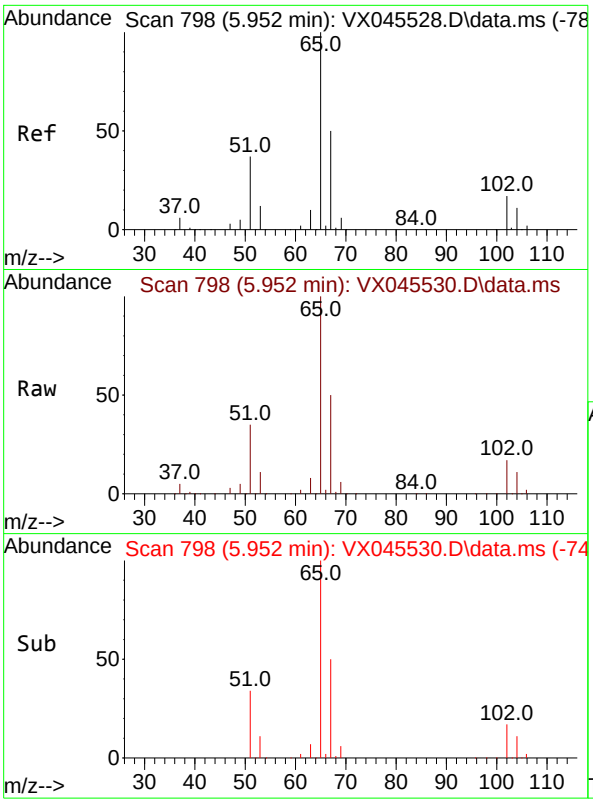


#32
1,1,1-Trichloroethane
Concen: 158.426 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.006 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion: 97 Resp: 315136

Ion	Ratio	Lower	Upper
97	100		
99	63.7	51.7	77.5
61	49.1	41.0	61.4

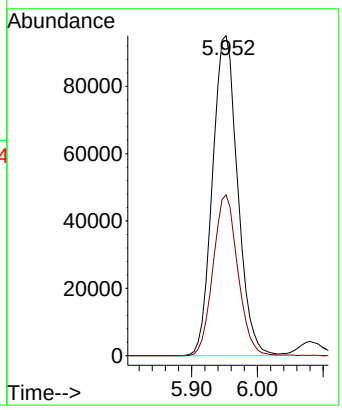




#33
1,2-Dichloroethane-d4
Concen: 153.661 ug/l
RT: 5.952 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion: 65 Resp: 25299

Ion	Ratio	Lower	Upper
65	100		
67	49.4	0.0	99.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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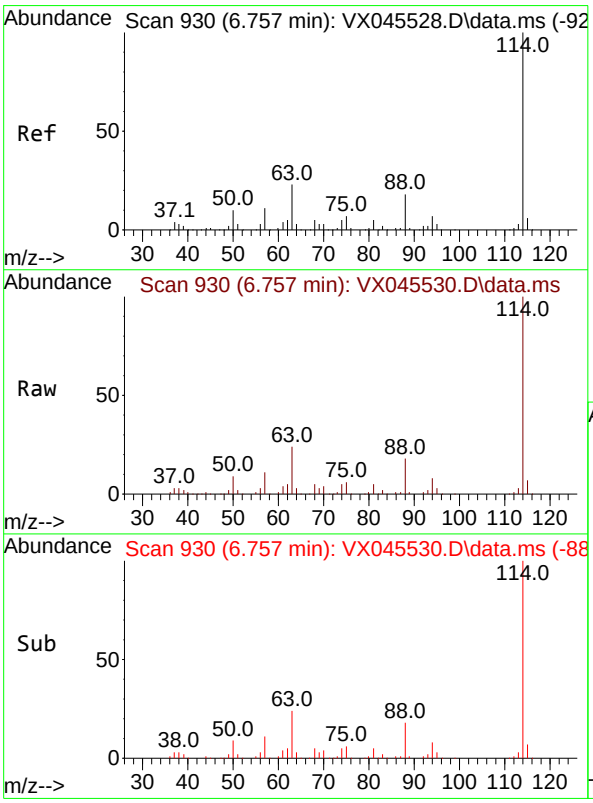
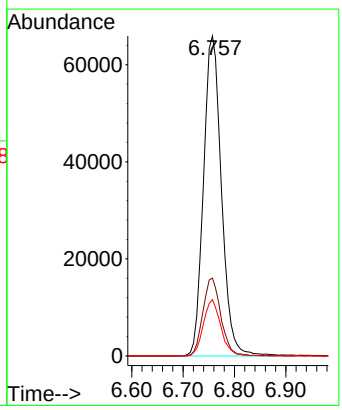
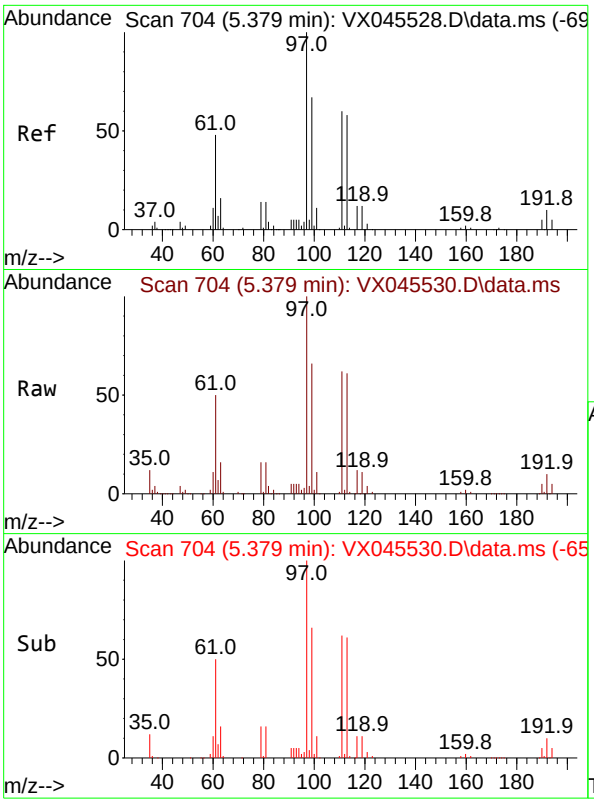


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion:114 Resp: 160037

Ion	Ratio	Lower	Upper
114	100		
63	24.3	0.0	46.8
88	17.6	0.0	35.4

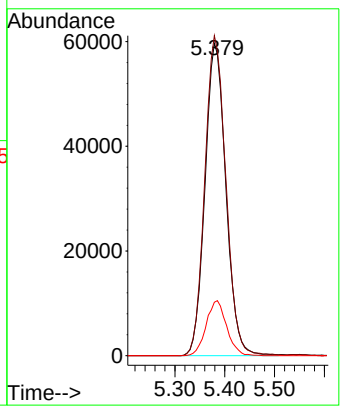




#35
Dibromofluoromethane
Concen: 152.887 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion:113 Resp: 17359

Ion	Ratio	Lower	Upper
113	100		
111	103.4	81.8	122.6
192	17.3	13.8	20.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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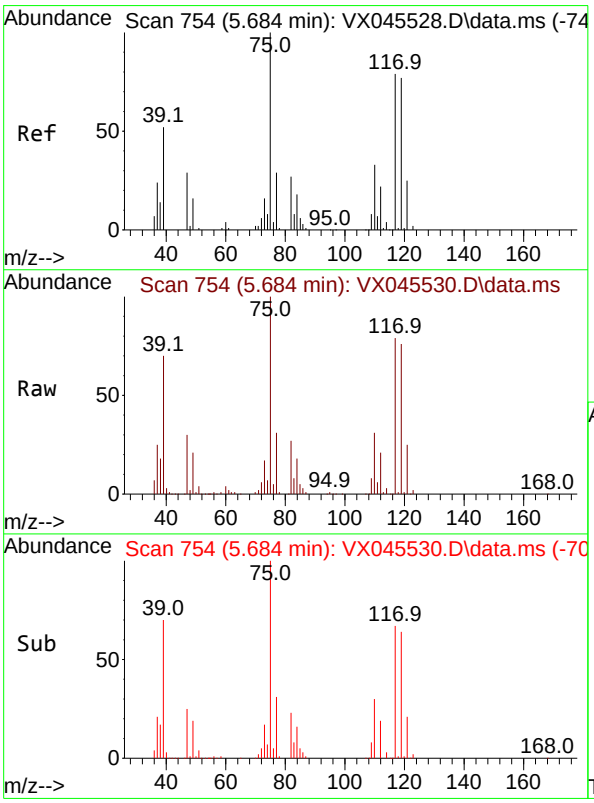
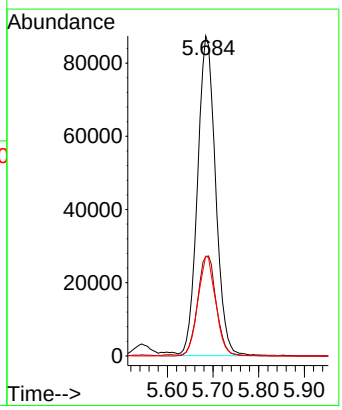
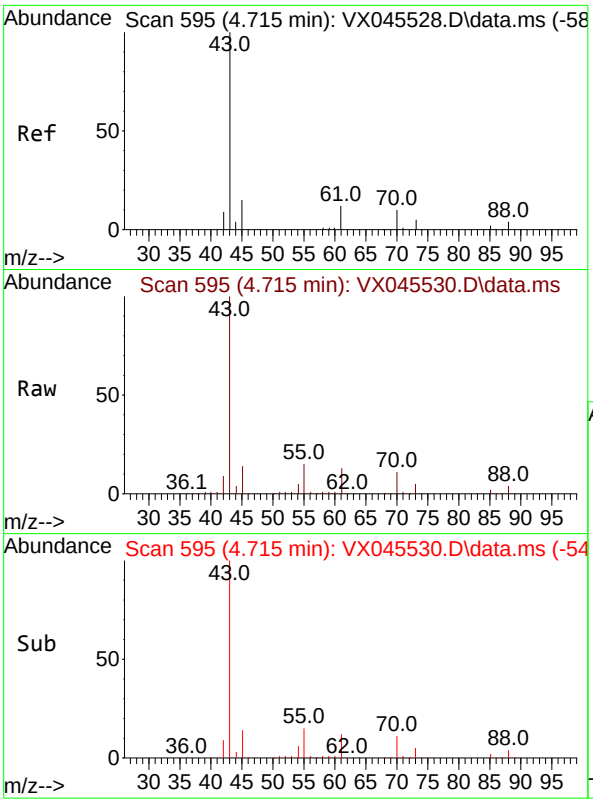


#36
1,1-Dichloropropene
Concen: 156.399 ug/l
RT: 5.684 min Scan# 754
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion: 75 Resp: 239776

Ion	Ratio	Lower	Upper
75	100		
110	32.4	16.9	50.6
77	30.6	25.0	37.4





#37
Ethyl Acetate
Concen: 152.461 ug/l
RT: 4.715 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion: 43 Resp: 29455

Ion	Ratio	Lower	Upper
43	100		
61	12.5	9.9	14.9
70	10.0	7.5	11.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
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Reviewed By :Amit Patel 04/02/2025
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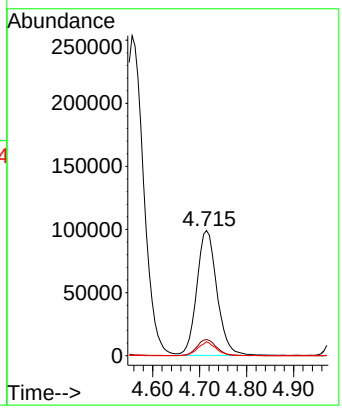
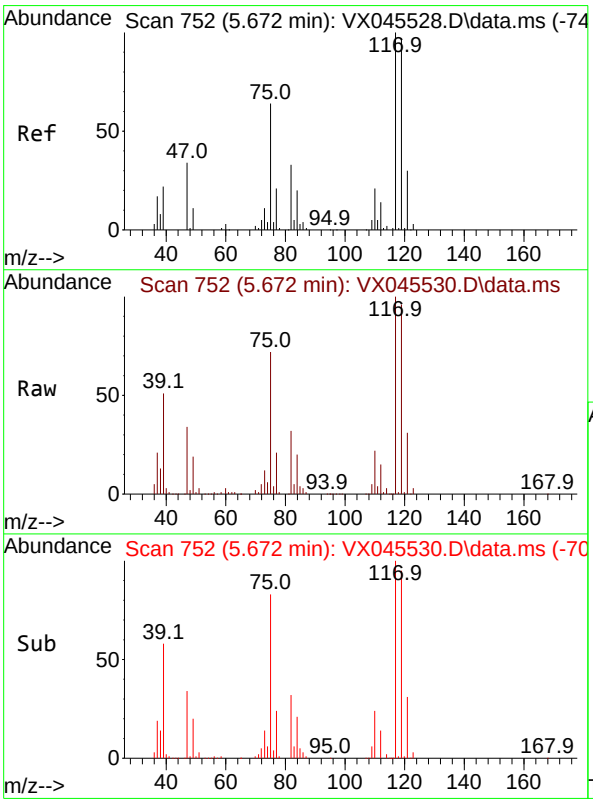
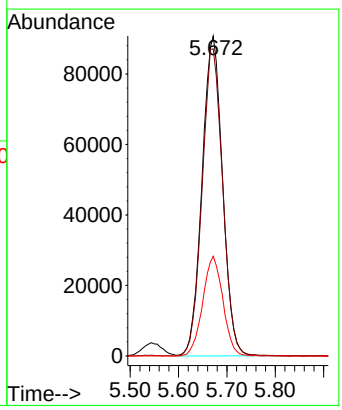


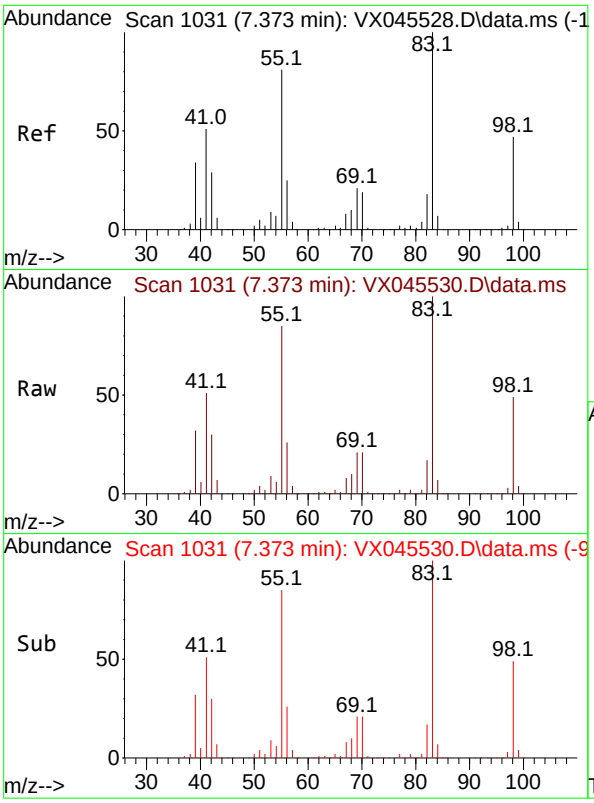


#38
Carbon Tetrachloride
Concen: 161.005 ug/l
RT: 5.672 min Scan# 752
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion:117 Resp: 266770

Ion	Ratio	Lower	Upper
117	100		
119	95.9	76.9	115.3
121	31.2	24.2	36.2

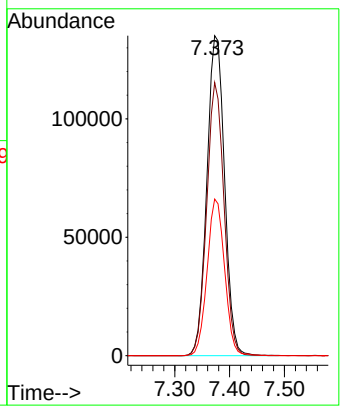




#39
Methylcyclohexane
Concen: 161.366 ug/l
RT: 7.373 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion: 83 Resp: 30325

Ion	Ratio	Lower	Upper
83	100		
55	85.4	64.9	97.3
98	49.0	37.4	56.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
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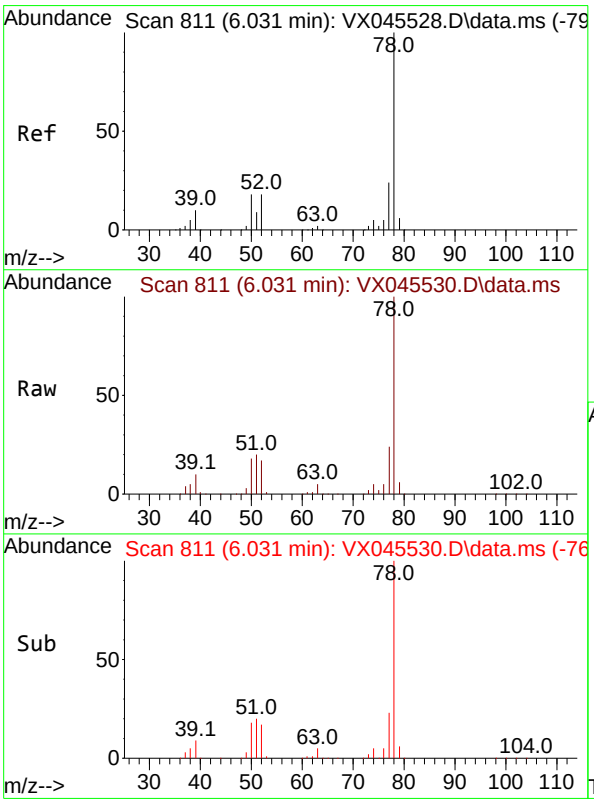
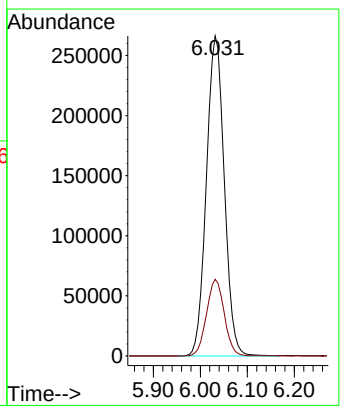
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

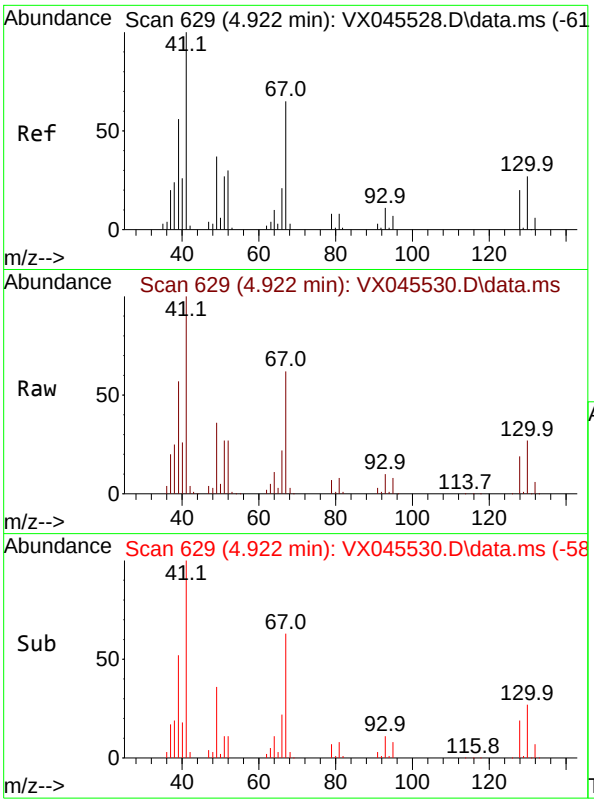


#40
Benzene
Concen: 150.208 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion: 78 Resp: 703311

Ion	Ratio	Lower	Upper
78	100		
77	24.0	19.0	28.6

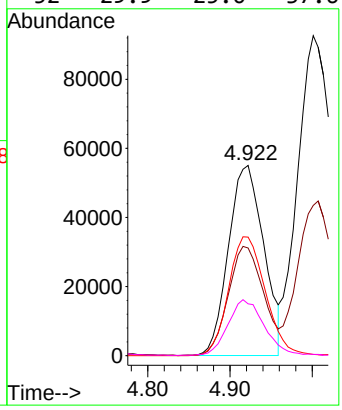




#41
Methacrylonitrile
Concen: 160.155 ug/l
RT: 4.922 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion: 41 Resp: 16469

Ion	Ratio	Lower	Upper
41	100		
39	57.4	47.0	70.6
67	65.5	53.2	79.8
52	29.9	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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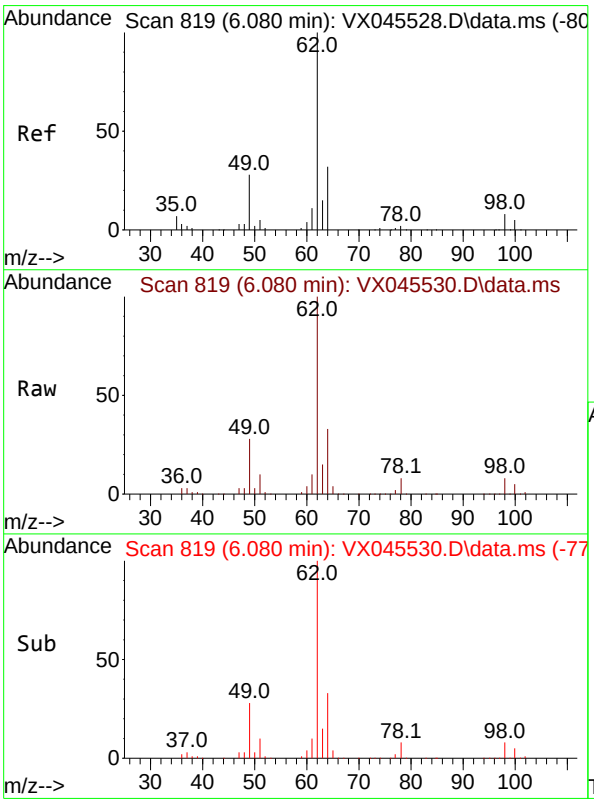
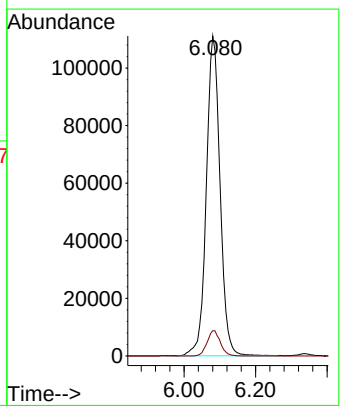
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

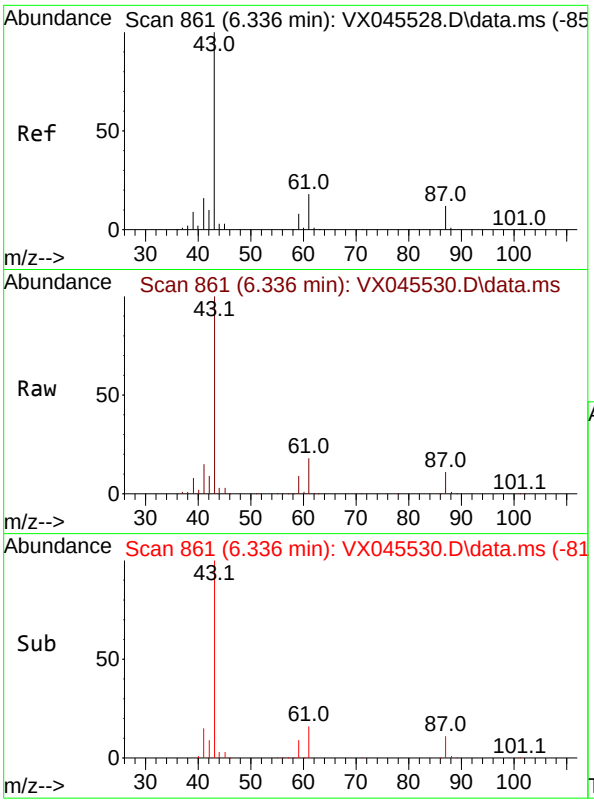


#42
1,2-Dichloroethane
Concen: 153.146 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion: 62 Resp: 296168

Ion	Ratio	Lower	Upper
62	100		
98	7.6	0.0	15.2





#43
Isopropyl Acetate
Concen: 162.494 ug/l
RT: 6.336 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion: 43 Resp: 47582

Ion	Ratio	Lower	Upper
43	100		
61	18.1	14.1	21.1
87	11.8	9.2	13.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
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Reviewed By :Amit Patel 04/02/2025
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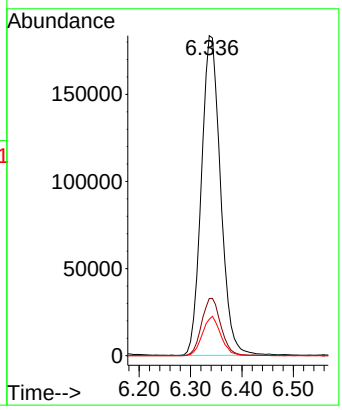
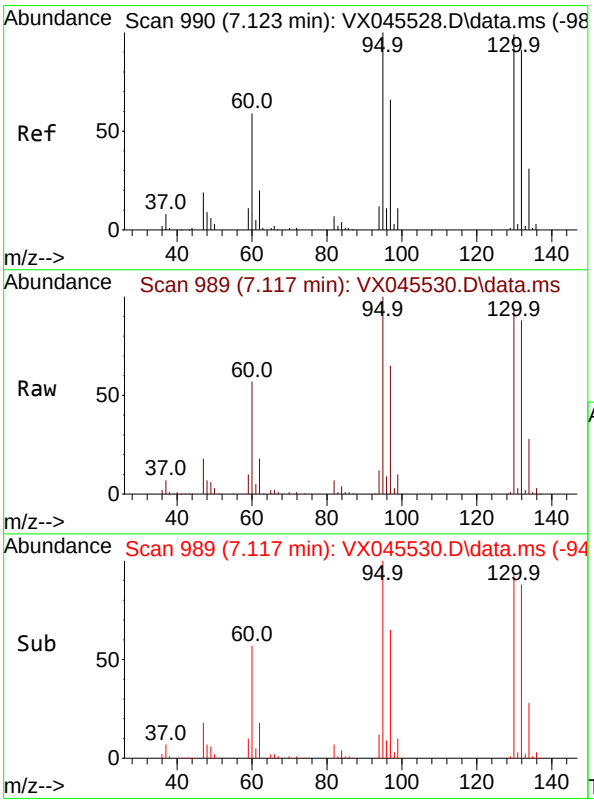
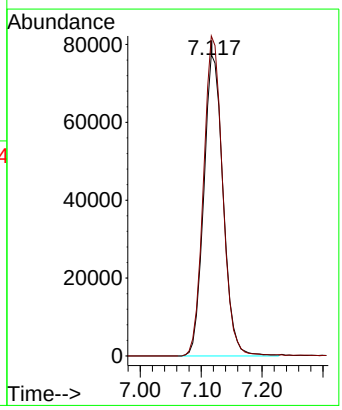


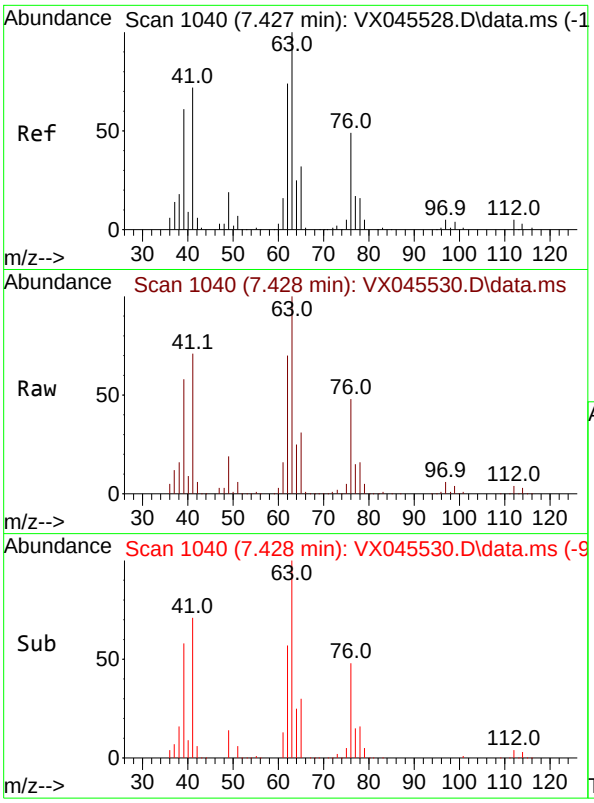


#44
Trichloroethene
Concen: 153.599 ug/l
RT: 7.117 min Scan# 989
Delta R.T. -0.006 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion:130 Resp: 170940

Ion	Ratio	Lower	Upper
130	100		
95	106.1	0.0	202.0

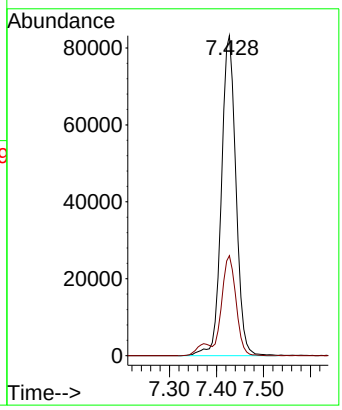




#45
1,2-Dichloropropane
Concen: 153.610 ug/l
RT: 7.428 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion: 63 Resp: 17945

Ion	Ratio	Lower	Upper
63	100		
65	31.3	25.8	38.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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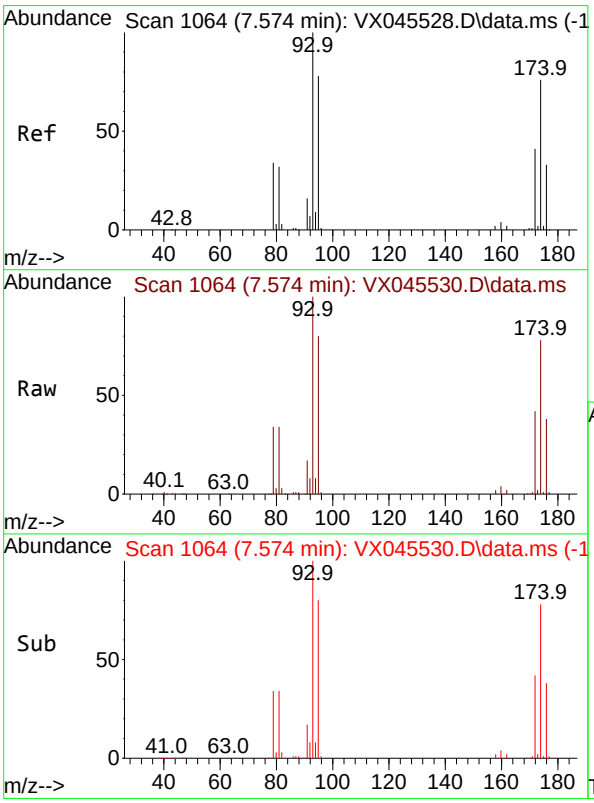
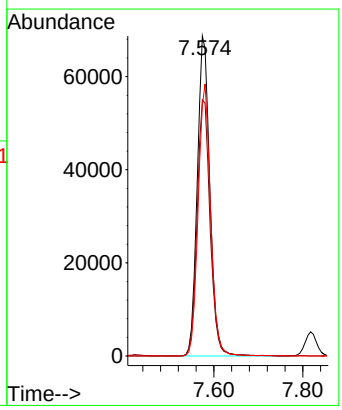
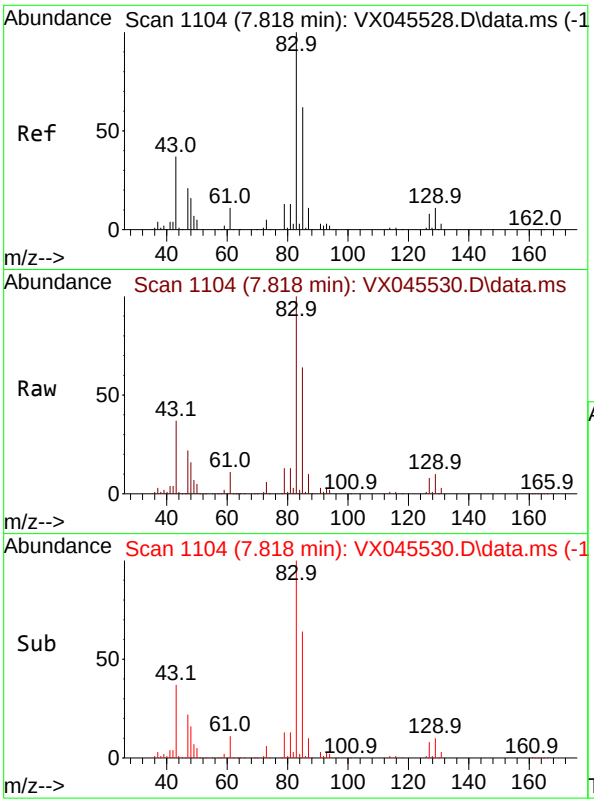


#46
Dibromomethane
Concen: 150.996 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion: 93 Resp: 135415

Ion	Ratio	Lower	Upper
93	100		
95	82.4	64.8	97.2
174	84.1	65.4	98.0

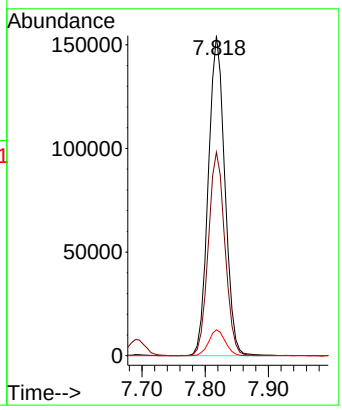




#47
Bromodichloromethane
Concen: 156.272 ug/l
RT: 7.818 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion: 83 Resp: 27988

Ion	Ratio	Lower	Upper
83	100		
85	63.6	49.7	74.5
127	8.1	6.1	9.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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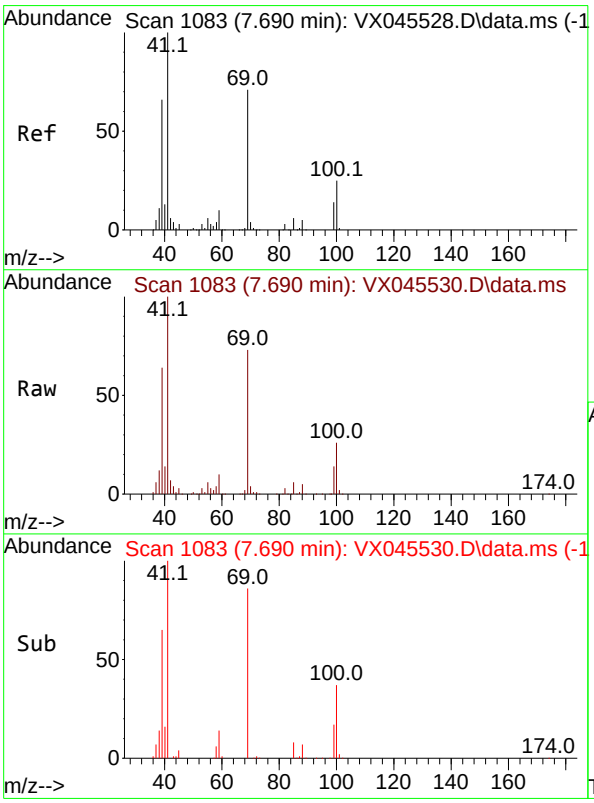
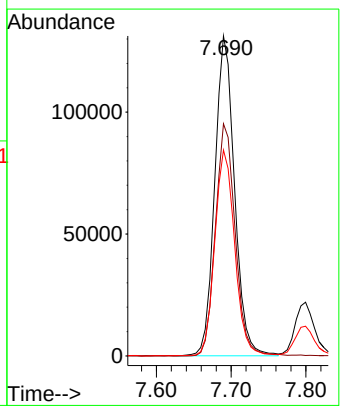
Supervised By :Mahesh Dadoda 04/02/2025

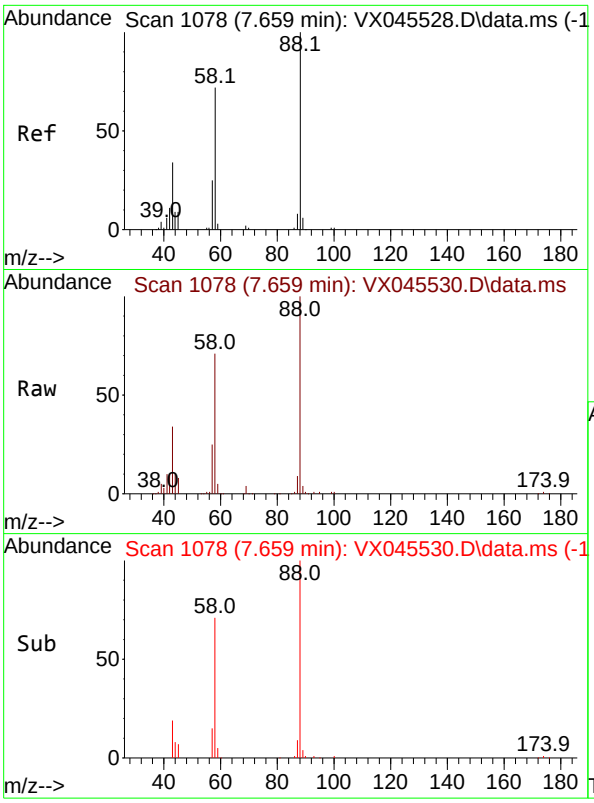


#48
Methyl methacrylate
Concen: 159.281 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion: 41 Resp: 240818

Ion	Ratio	Lower	Upper
41	100		
69	73.0	58.2	87.2
39	64.9	53.6	80.4





#49
1,4-Dioxane
Concen: 2739.196 ug/l
RT: 7.659 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion: 88 Resp: 7492

Ion	Ratio	Lower	Upper
88	100		
43	40.8	32.2	48.4
58	74.2	58.6	88.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
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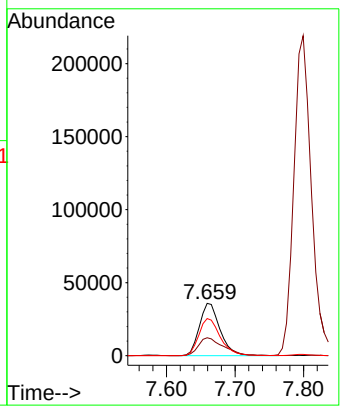
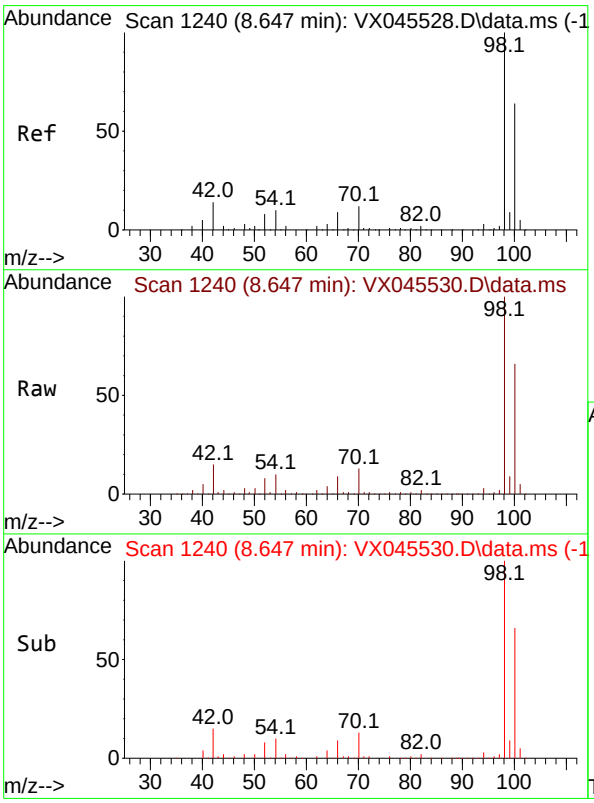
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

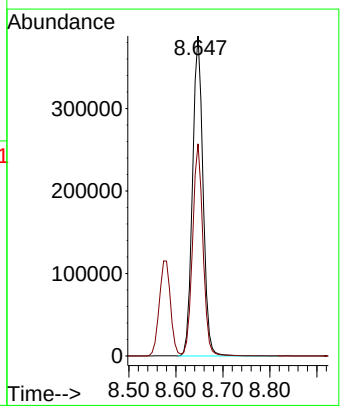


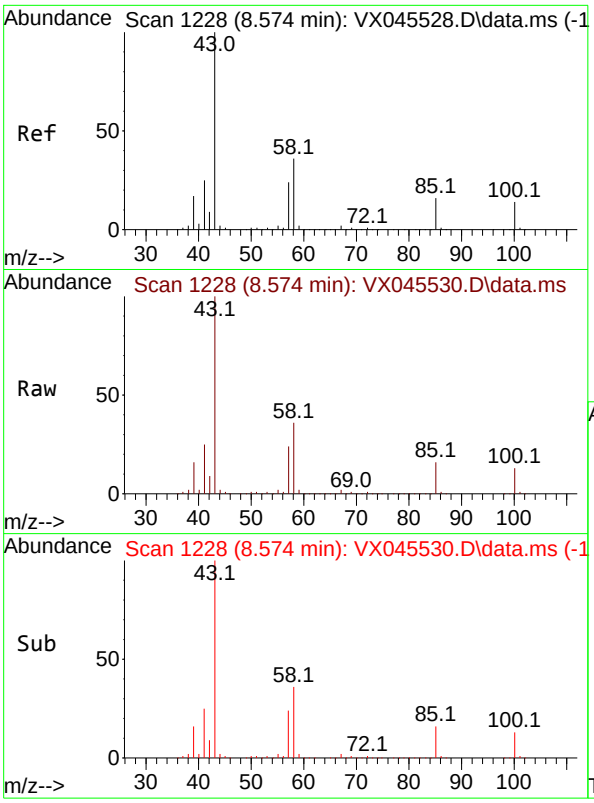


#50
Toluene-d8
Concen: 152.216 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion: 98 Resp: 603264

Ion	Ratio	Lower	Upper
98	100		
100	65.5	52.2	78.4

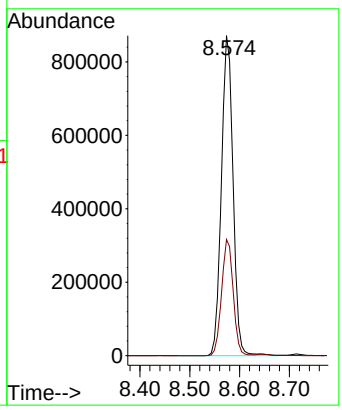




#51
4-Methyl-2-Pentanone
Concen: 728.817 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion: 43 Resp: 141477

Ion	Ratio	Lower	Upper
43	100		
58	36.2	28.5	42.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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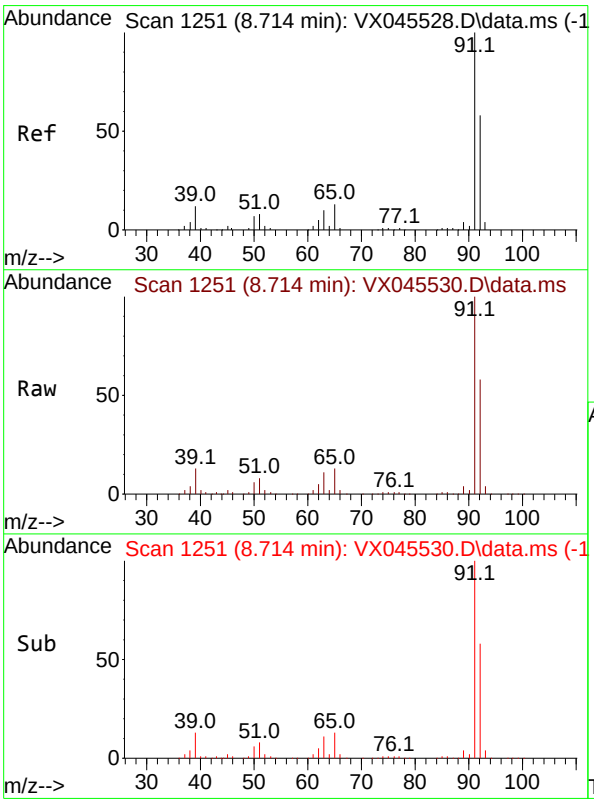
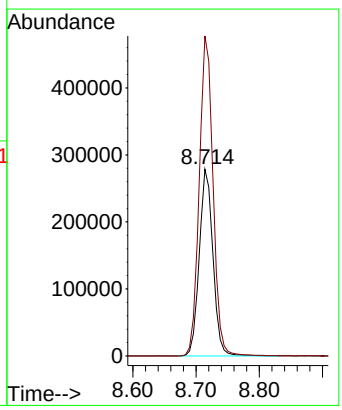
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

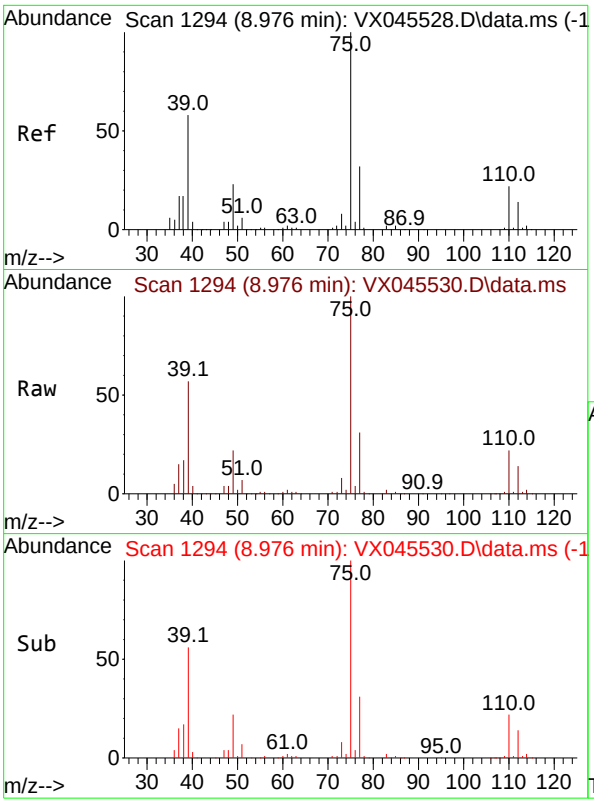


#52
Toluene
Concen: 148.245 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion: 92 Resp: 420015

Ion	Ratio	Lower	Upper
92	100		
91	173.3	138.7	208.1

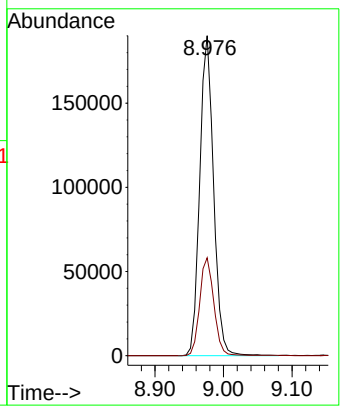




#53
t-1,3-Dichloropropene
Concen: 150.589 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion: 75 Resp: 26767

Ion	Ratio	Lower	Upper
75	100		
77	30.6	25.4	38.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
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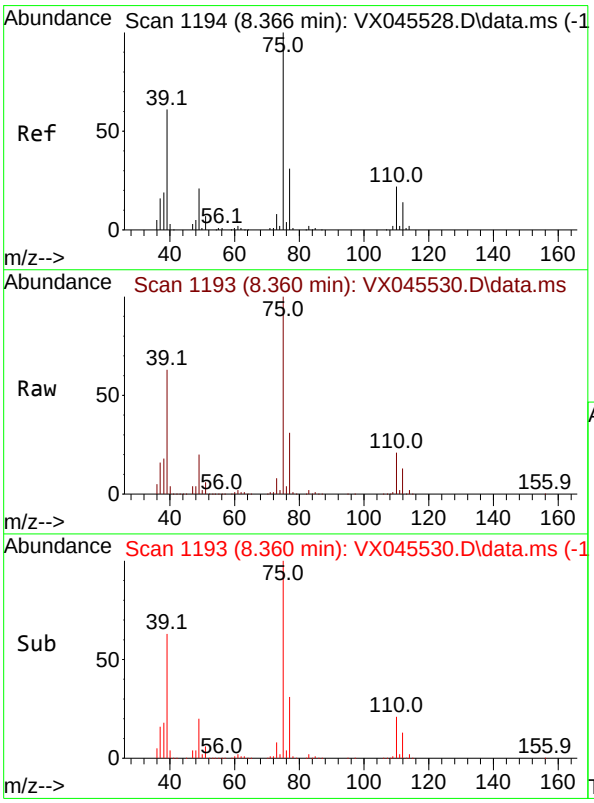
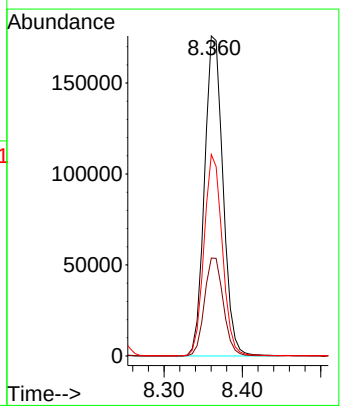
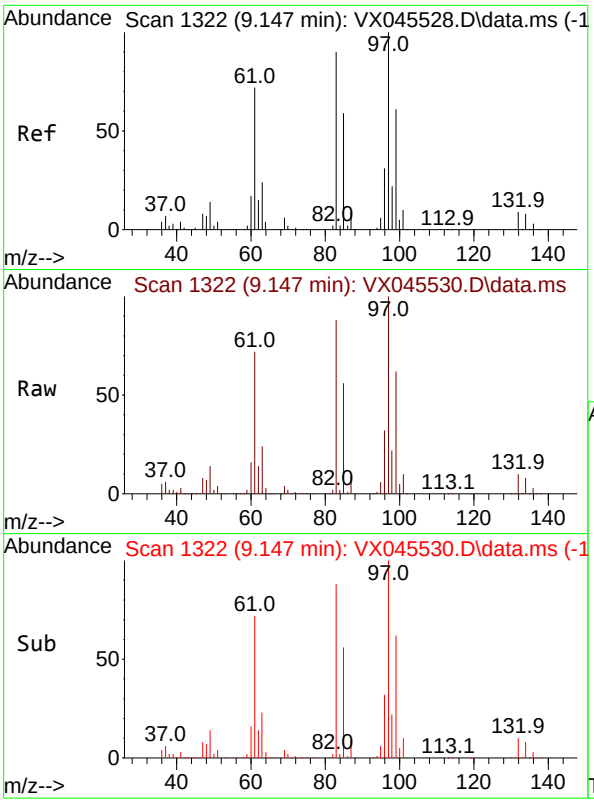


#54
cis-1,3-Dichloropropene
Concen: 171.104 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. -0.006 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion: 75 Resp: 287973

Ion	Ratio	Lower	Upper
75	100		
77	30.6	24.6	36.8
39	62.9	48.4	72.6

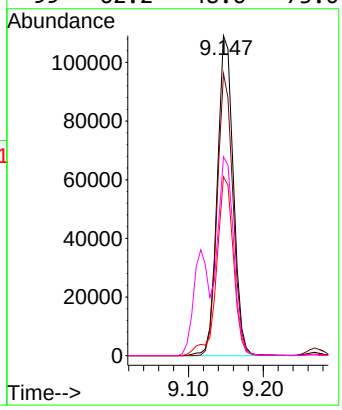




#55
1,1,2-Trichloroethane
Concen: 144.752 ug/l
RT: 9.147 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion: 97 Resp: 16342

Ion	Ratio	Lower	Upper
97	100		
83	88.2	71.8	107.8
85	55.9	47.0	70.6
99	62.2	48.6	73.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
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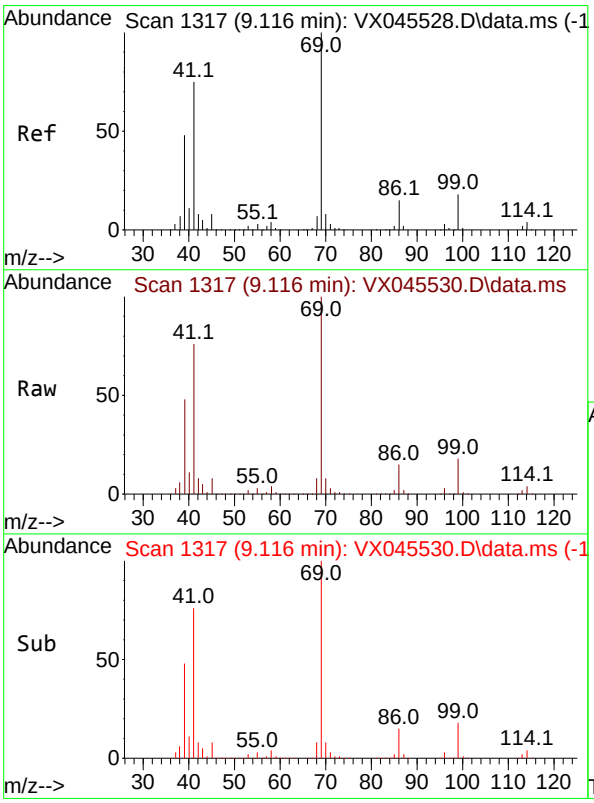
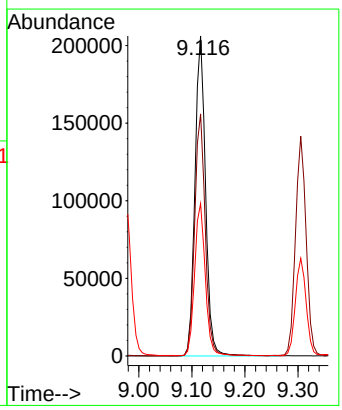
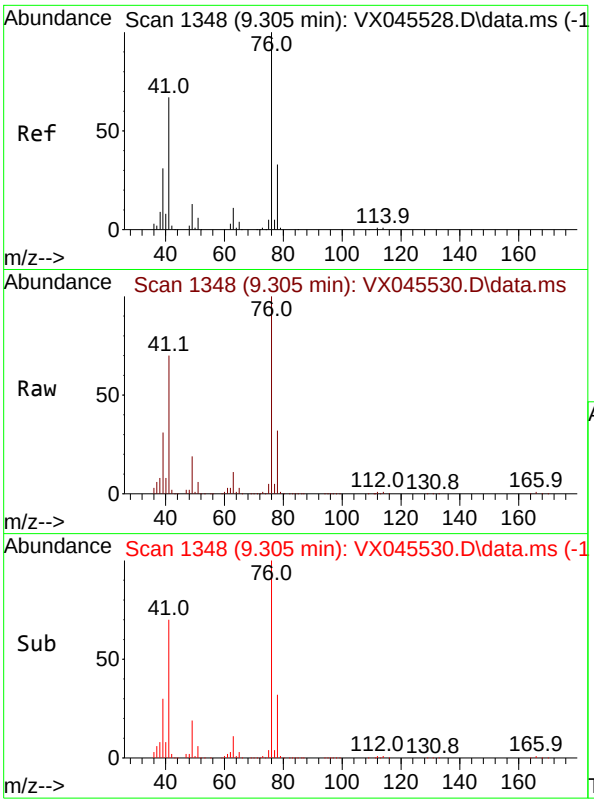


#56
Ethyl methacrylate
Concen: 163.624 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion: 69 Resp: 285895

Ion	Ratio	Lower	Upper
69	100		
41	76.2	61.3	91.9
39	48.0	40.2	60.2

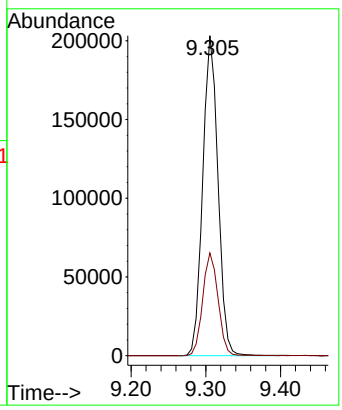




#57
1,3-Dichloropropane
Concen: 146.708 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion: 76 Resp: 28843

Ion	Ratio	Lower	Upper
76	100		
78	32.2	26.0	39.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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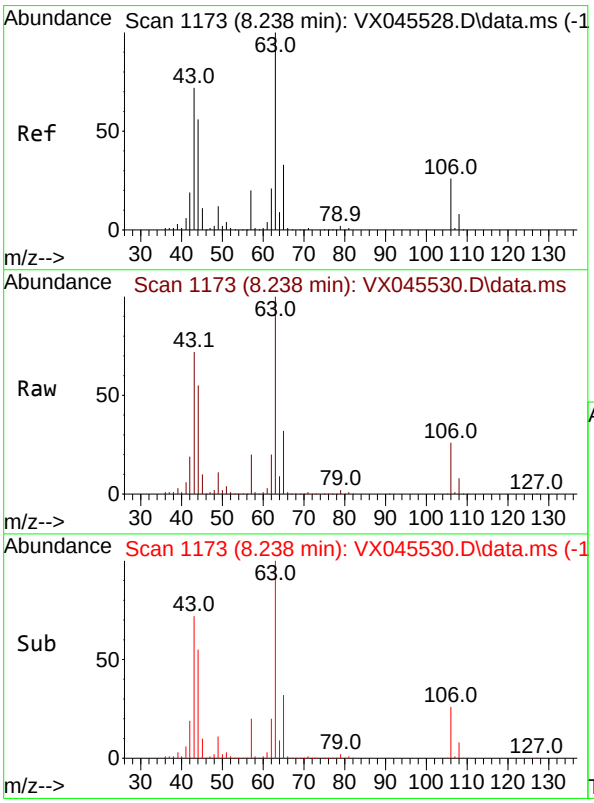
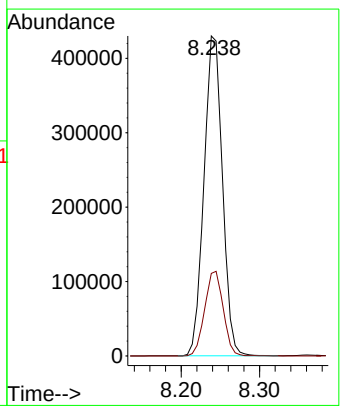
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

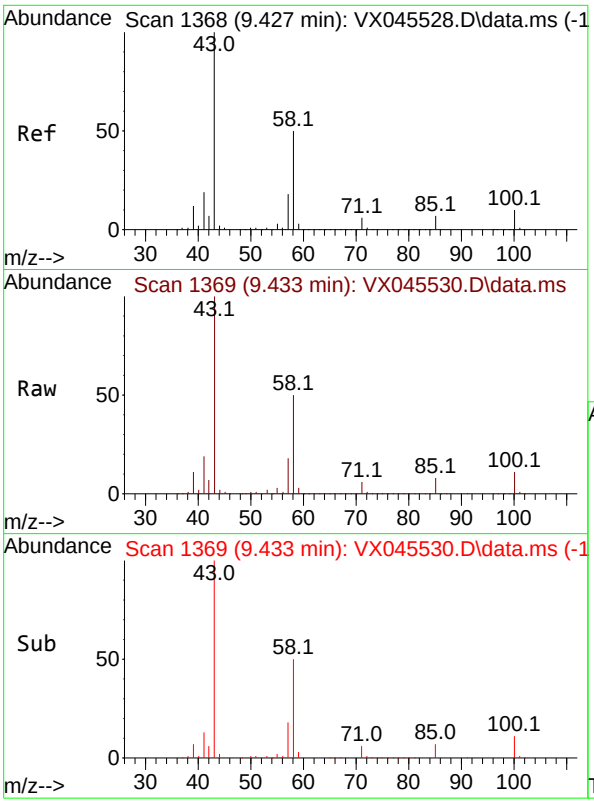


#58
2-Chloroethyl Vinyl ether
Concen: 796.340 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion: 63 Resp: 703881

Ion	Ratio	Lower	Upper
63	100		
106	26.6	21.0	31.6





#59
2-Hexanone
Concen: 733.198 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion: 43 Resp: 105397

Ion	Ratio	Lower	Upper
43	100		
58	49.8	24.9	74.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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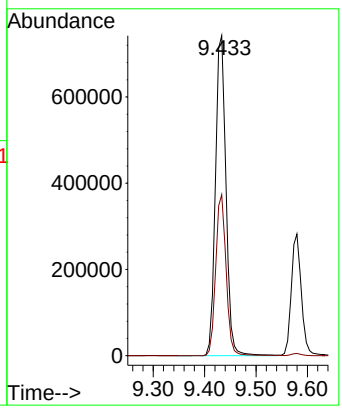
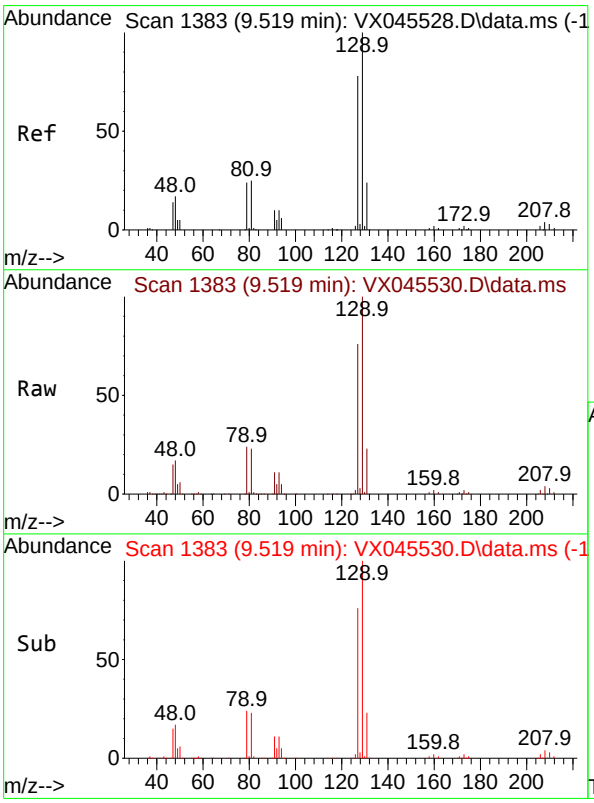
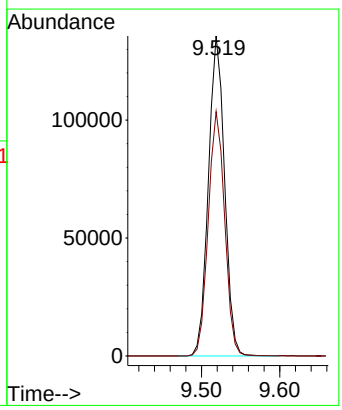


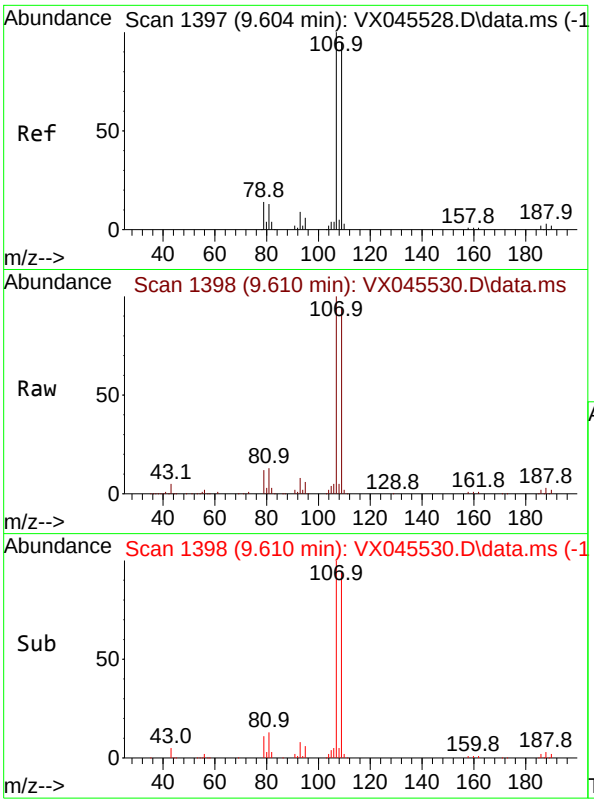


#60
Dibromochloromethane
Concen: 157.895 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion:129 Resp: 194342

Ion	Ratio	Lower	Upper
129	100		
127	77.4	39.4	118.2

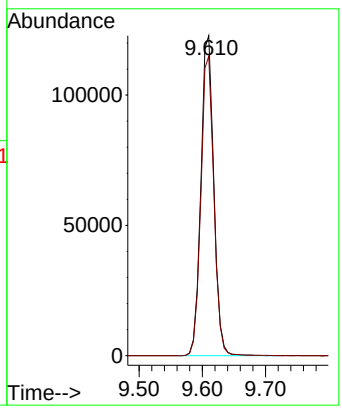




#61
1,2-Dibromoethane
Concen: 152.745 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion:107 Resp: 17457

Ion	Ratio	Lower	Upper
107	100		
109	93.9	75.7	113.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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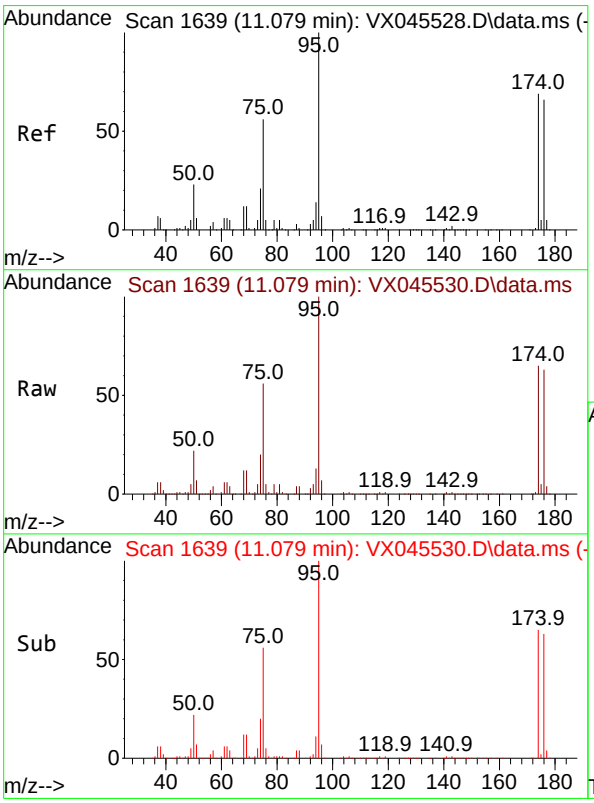
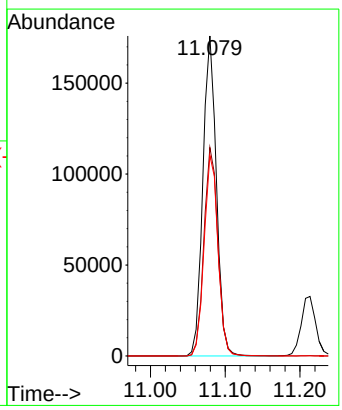
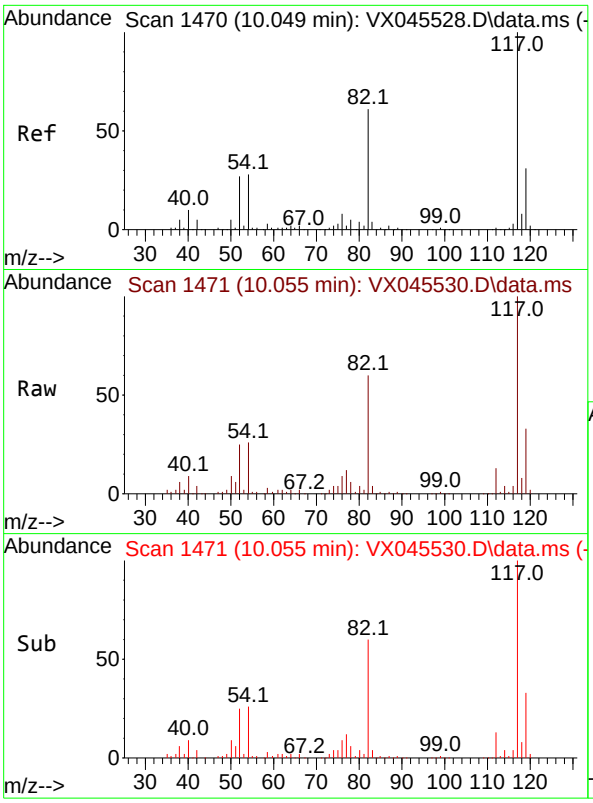


#62
4-Bromofluorobenzene
Concen: 153.035 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion: 95 Resp: 220921

Ion	Ratio	Lower	Upper
95	100		
174	66.9	0.0	135.8
176	64.3	0.0	131.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion:117 Resp: 13334

Ion	Ratio	Lower	Upper
117	100		
82	59.5	49.2	73.8
119	32.7	25.1	37.7

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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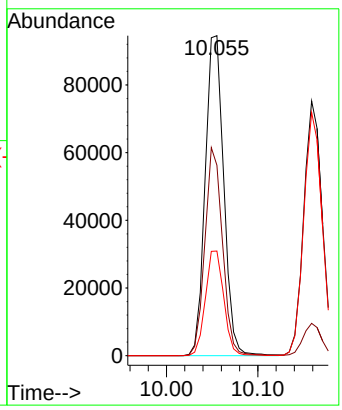
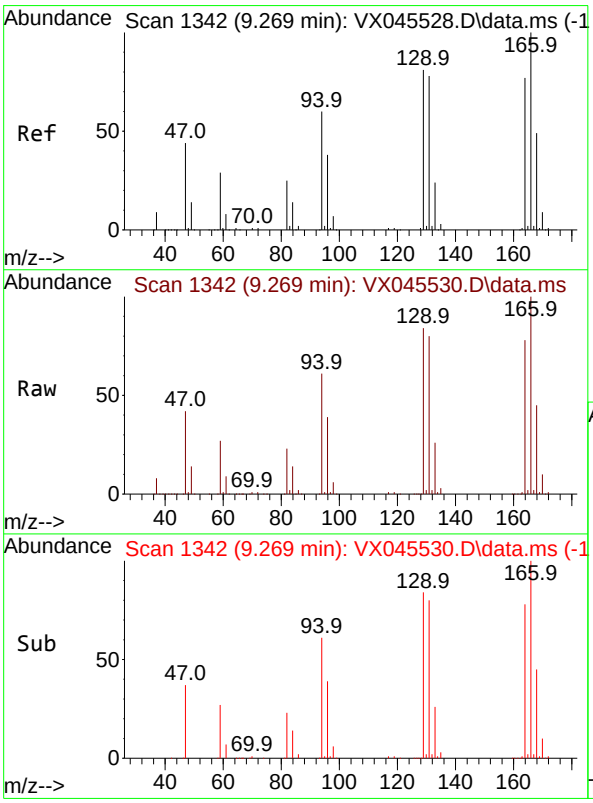
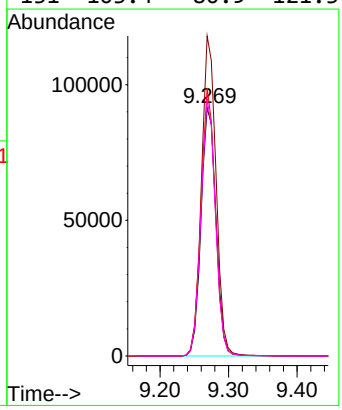


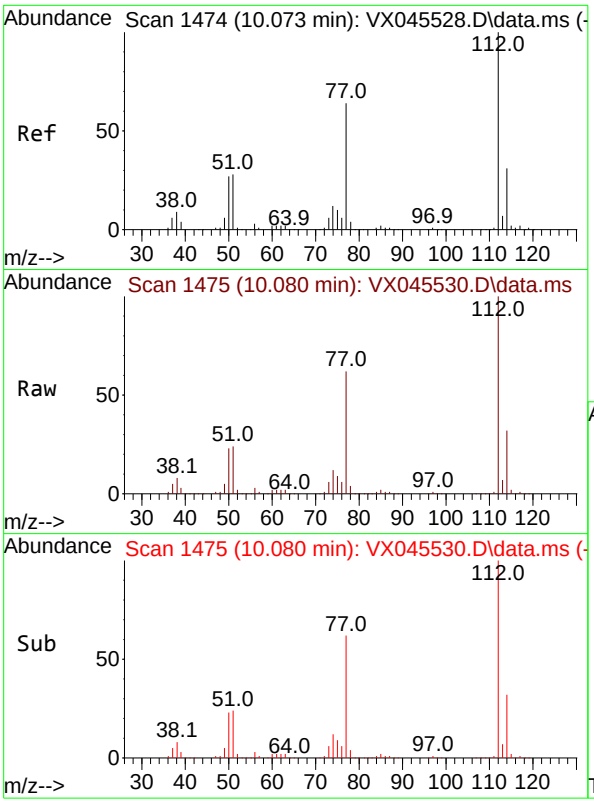


#64
Tetrachloroethene
Concen: 147.568 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion:164 Resp: 138926

Ion	Ratio	Lower	Upper
164	100		
166	128.9	103.8	155.8
129	107.9	84.3	126.5
131	103.4	80.9	121.3

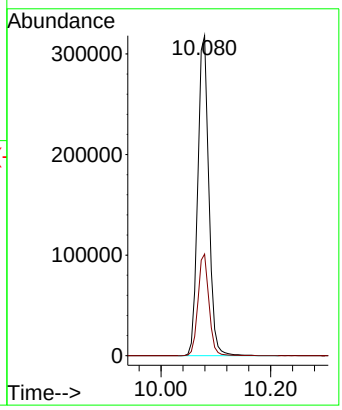




#65
Chlorobenzene
Concen: 156.049 ug/l
RT: 10.080 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion:112 Resp: 44463

Ion	Ratio	Lower	Upper
112	100		
114	31.7	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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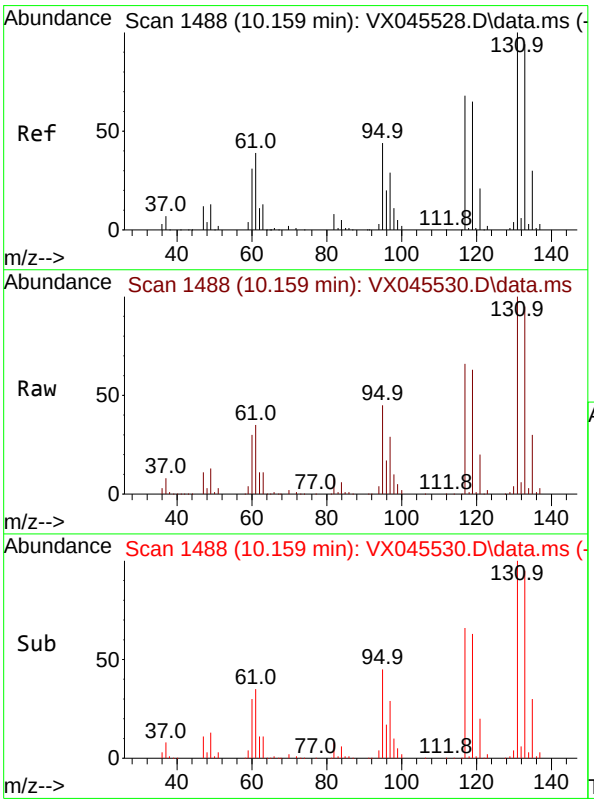
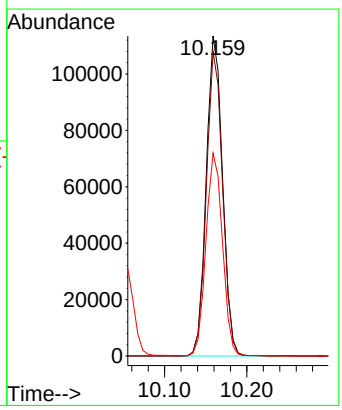
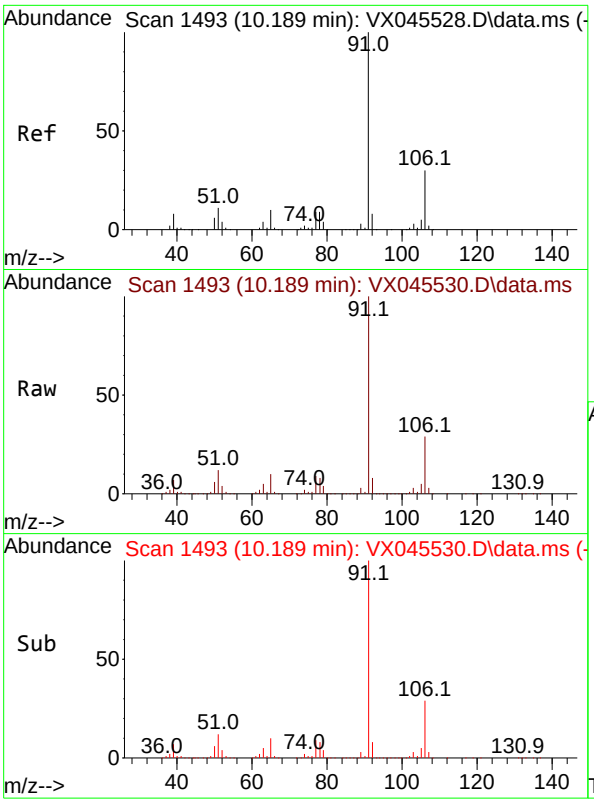


#66
1,1,1,2-Tetrachloroethane
Concen: 157.769 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion:131 Resp: 156069

Ion	Ratio	Lower	Upper
131	100		
133	94.6	47.5	142.5
119	64.4	32.9	98.6

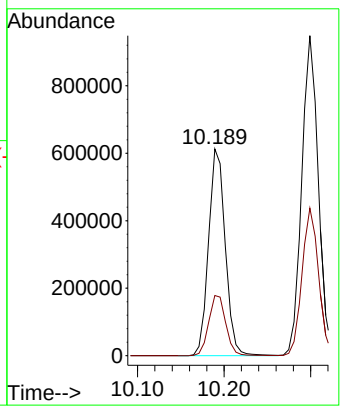




#67
Ethyl Benzene
Concen: 160.907 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion: 91 Resp: 82113

Ion	Ratio	Lower	Upper
91	100		
106	29.1	23.7	35.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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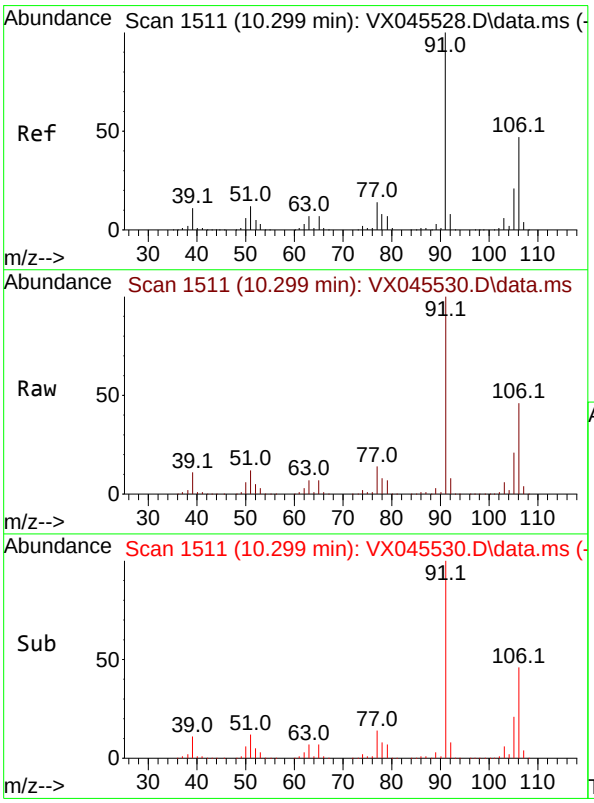
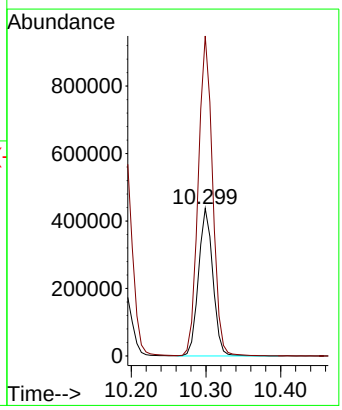
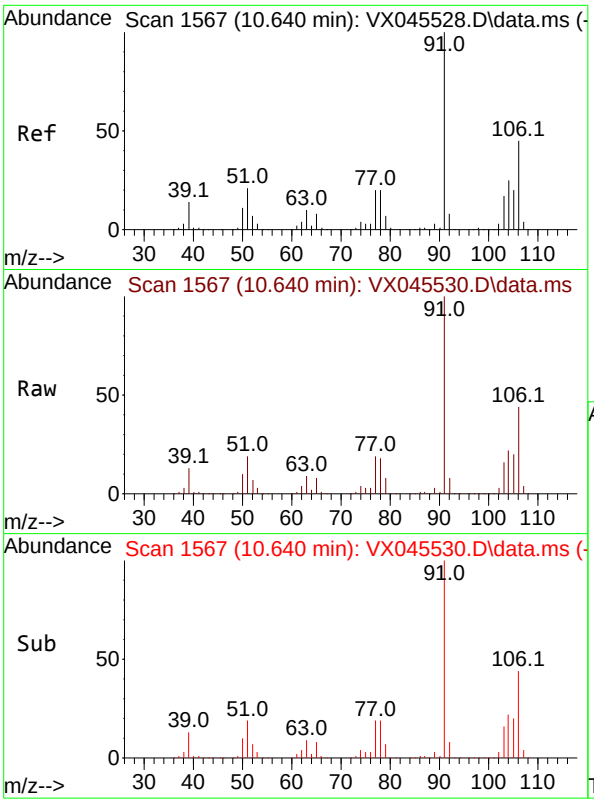


#68
m/p-Xylenes
Concen: 314.231 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion:106 Resp: 583228

Ion	Ratio	Lower	Upper
106	100		
91	216.7	172.6	258.8

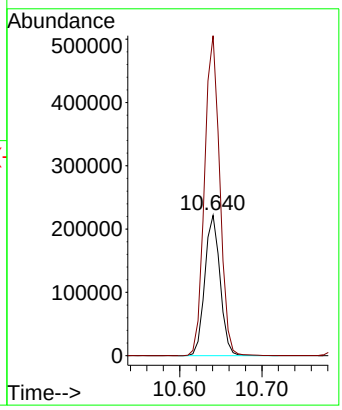




#69
o-Xylene
Concen: 156.241 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion:106 Resp: 28567

Ion	Ratio	Lower	Upper
106	100		
91	227.6	113.6	340.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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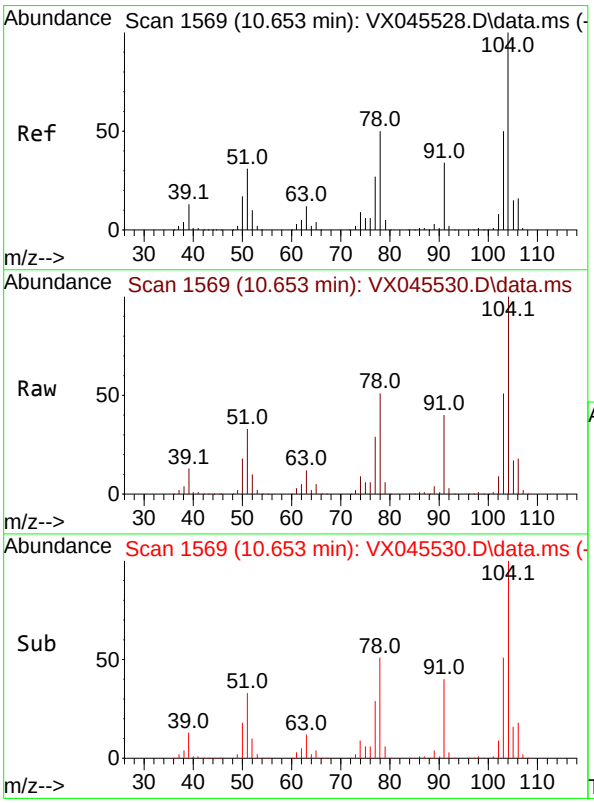
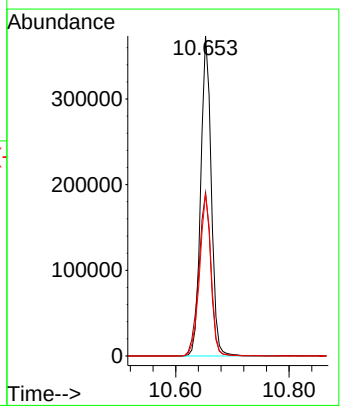
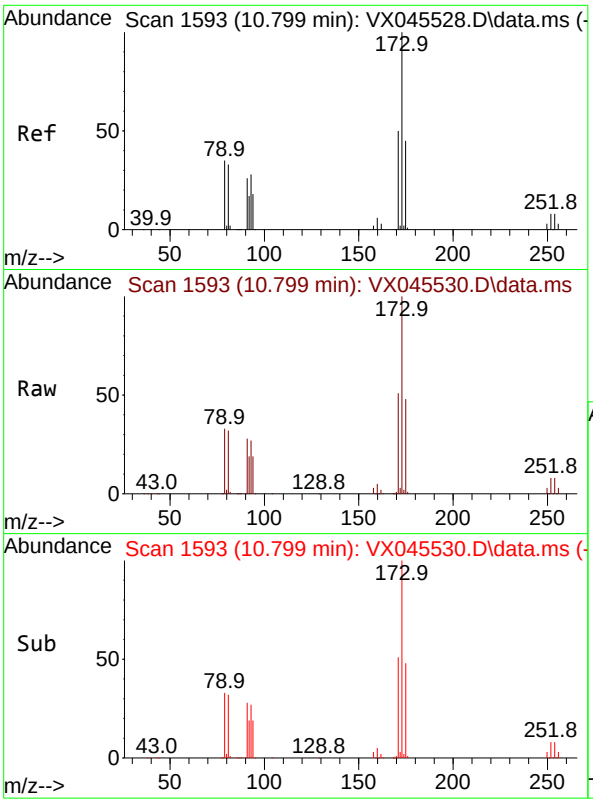


#70
Styrene
Concen: 159.299 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion:104 Resp: 480722

Ion	Ratio	Lower	Upper
104	100		
78	57.9	45.4	68.2
103	55.4	43.8	65.8

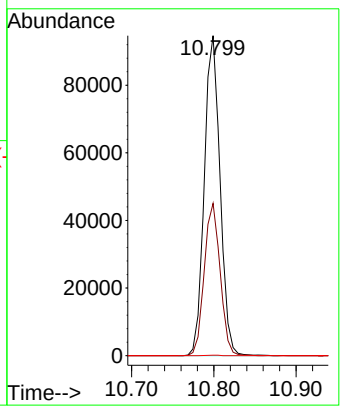




#71
Bromoform
Concen: 170.743 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion:173 Resp: 12611

Ion	Ratio	Lower	Upper
173	100		
175	48.0	23.4	70.2
254	0.1	0.0	0.0#



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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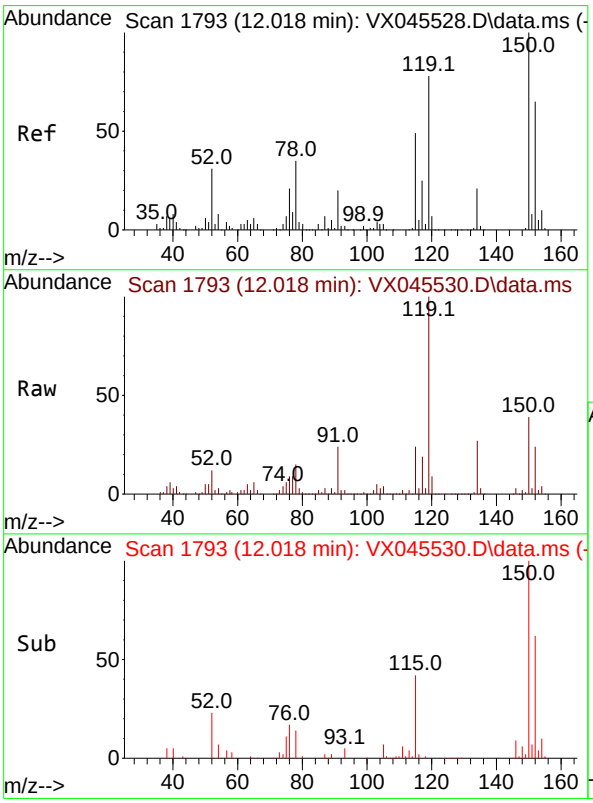
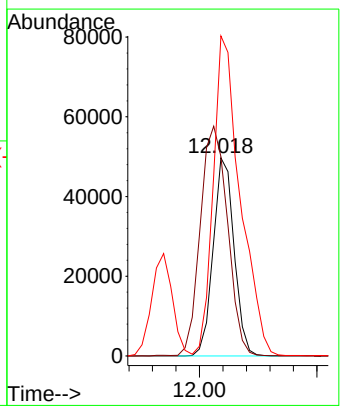
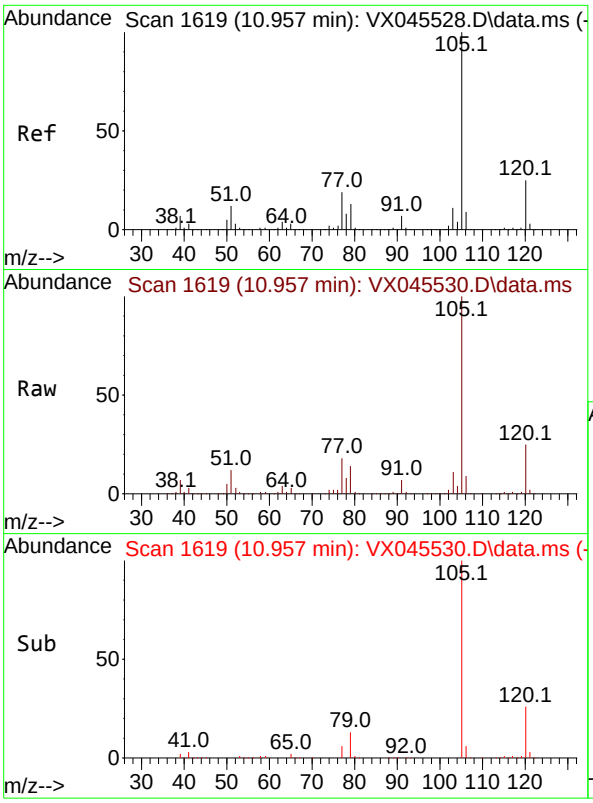


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion:152 Resp: 61380

Ion	Ratio	Lower	Upper
152	100		
115	151.4	46.9	140.7#
150	208.6	0.0	349.4

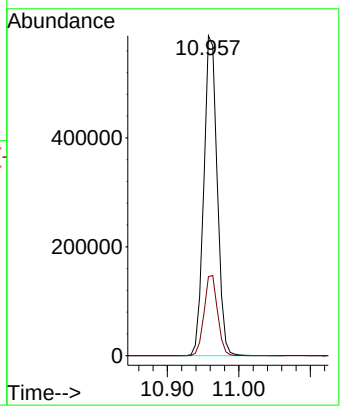




#73
Isopropylbenzene
Concen: 155.475 ug/l
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion:105 Resp: 76440

Ion	Ratio	Lower	Upper
105	100		
120	25.3	12.7	38.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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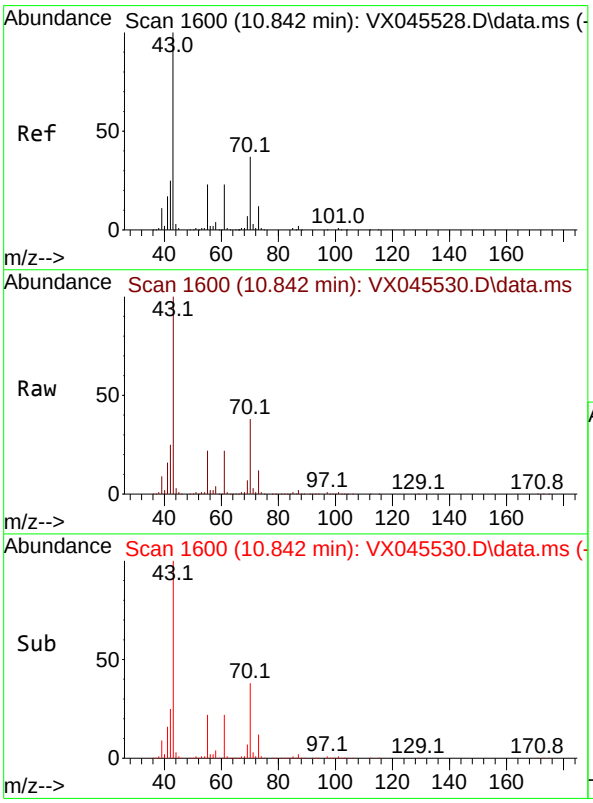
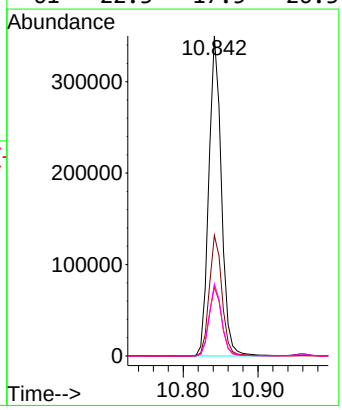
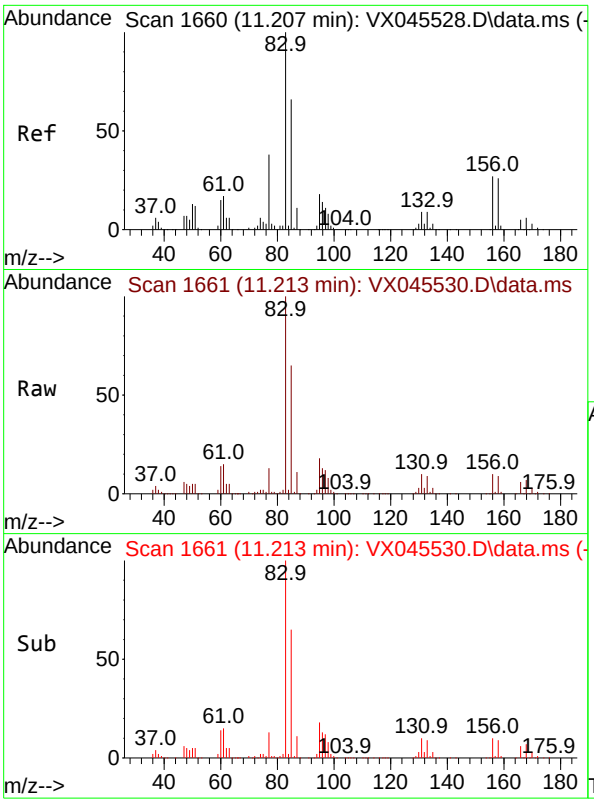


#74
N-amyl acetate
Concen: 173.877 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion: 43 Resp: 408934

Ion	Ratio	Lower	Upper
43	100		
70	38.3	30.1	45.1
55	22.0	18.3	27.5
61	22.3	17.5	26.3





#75
1,1,2,2-Tetrachloroethane
Concen: 144.737 ug/l
RT: 11.213 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion: 83 Resp: 24998

Ion	Ratio	Lower	Upper
83	100		
131	9.7	4.7	14.1
85	64.8	32.4	97.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
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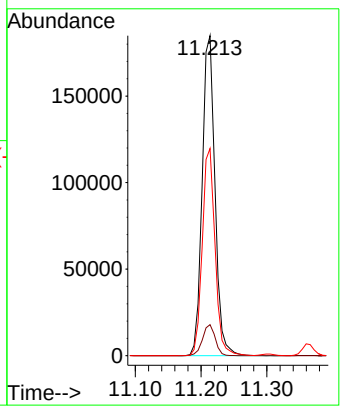
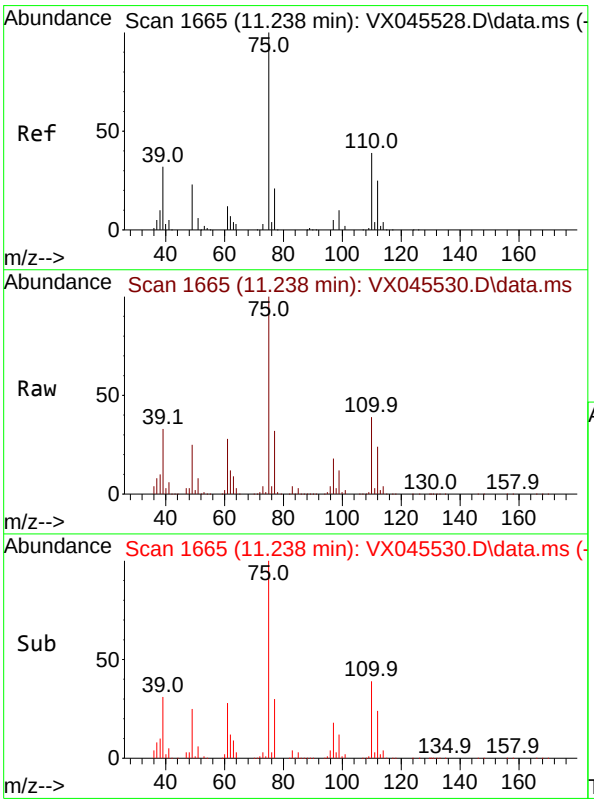
Supervised By :Mahesh Dadoda 04/02/2025

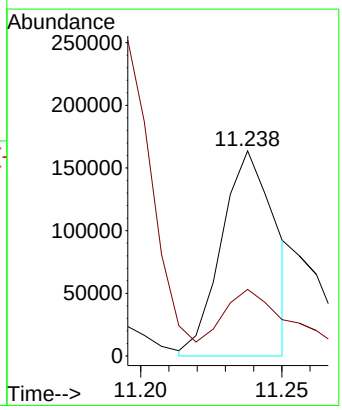


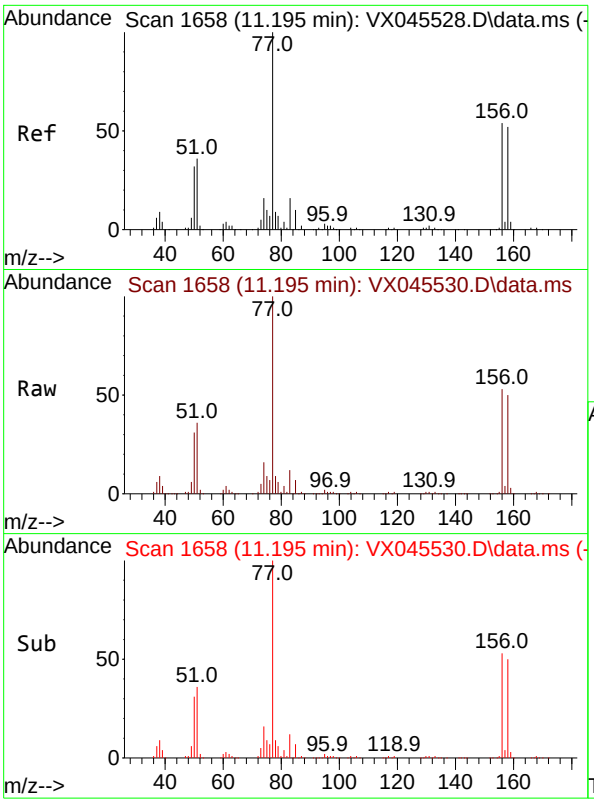


#76
1,2,3-Trichloropropane
Concen: 144.064 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion: 75 Resp: 215694

Ion	Ratio	Lower	Upper
75	100		
77	42.3	20.0	59.9





#77
Bromobenzene
Concen: 151.033 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion:156 Resp: 17157

Ion	Ratio	Lower	Upper
156	100		
77	185.8	92.6	277.8
158	95.3	48.1	144.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
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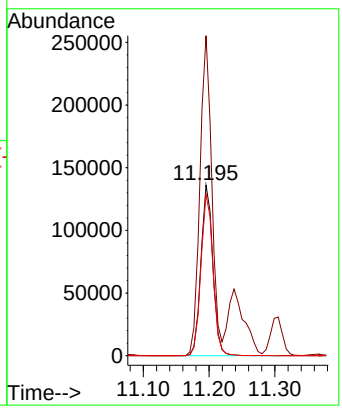
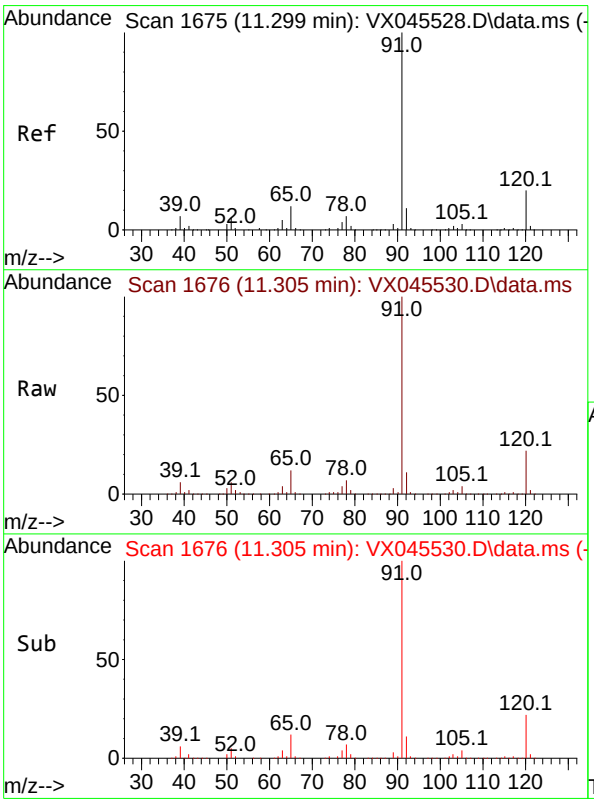
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

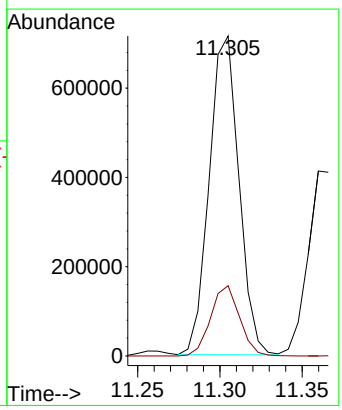


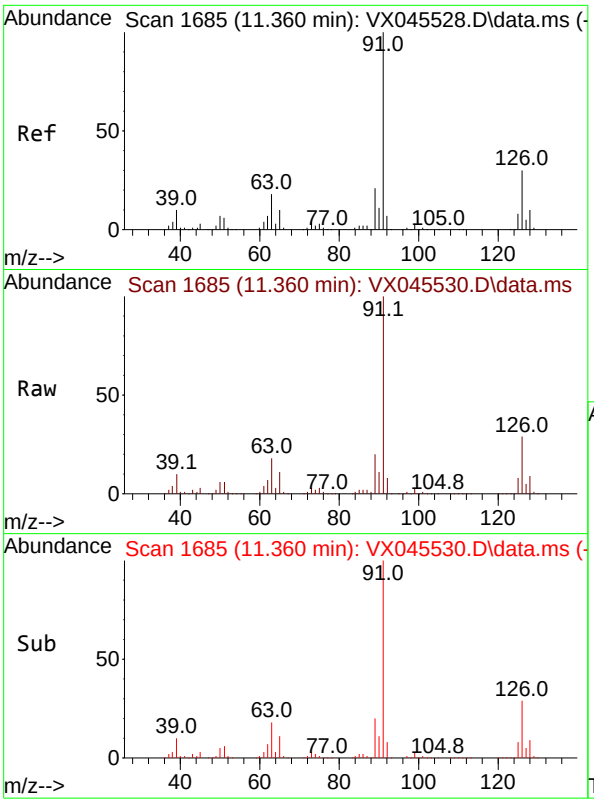


#78
n-propylbenzene
Concen: 158.408 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.006 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion: 91 Resp: 897084

Ion	Ratio	Lower	Upper
91	100		
120	21.5	10.8	32.3





#79
2-Chlorotoluene
Concen: 148.399 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion: 91 Resp: 53726

Ion	Ratio	Lower	Upper
91	100		
126	30.9	15.8	47.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
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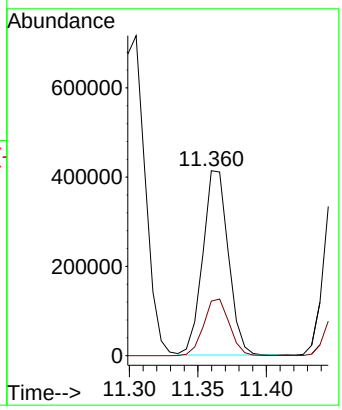
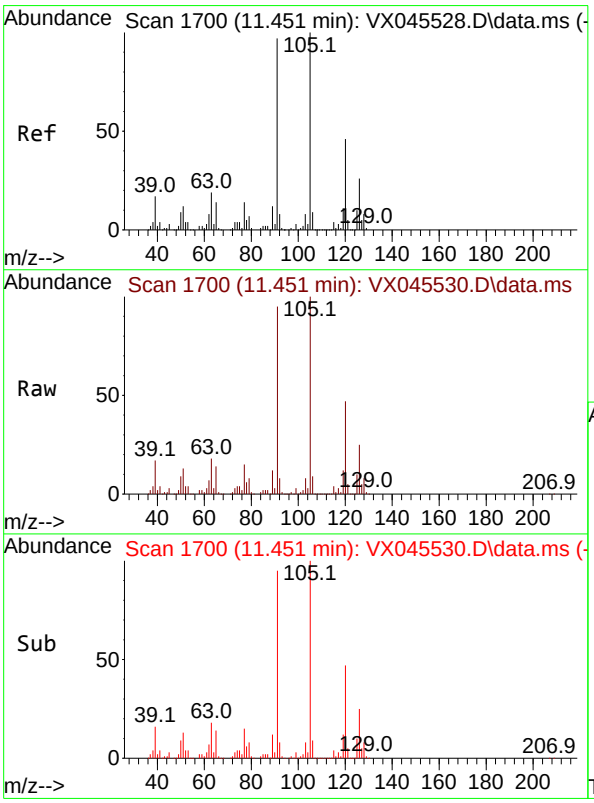
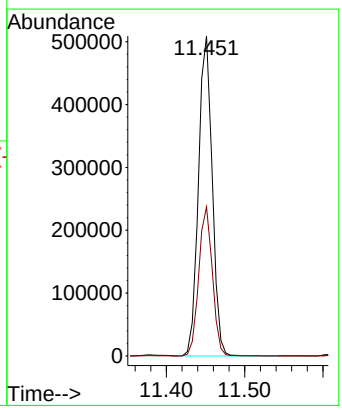


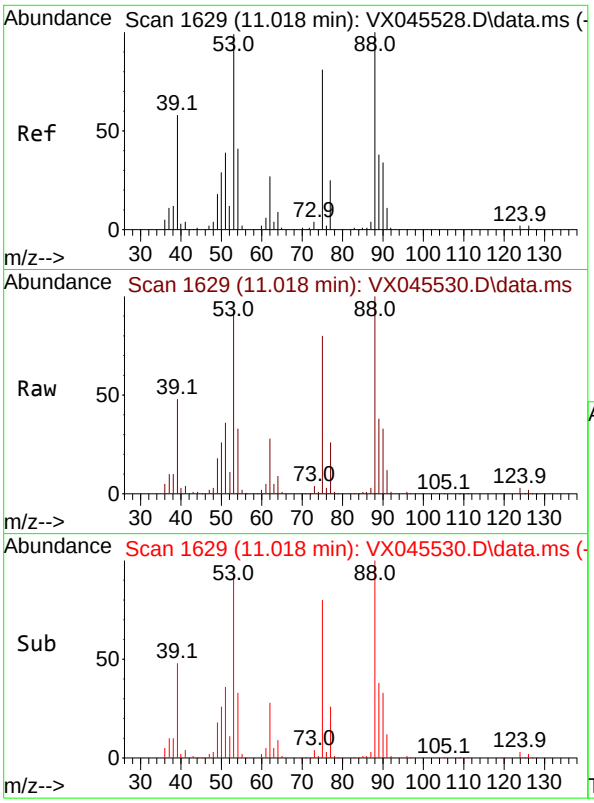


#80
1,3,5-Trimethylbenzene
Concen: 152.700 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion:105 Resp: 620819

Ion	Ratio	Lower	Upper
105	100		
120	46.1	23.0	69.0

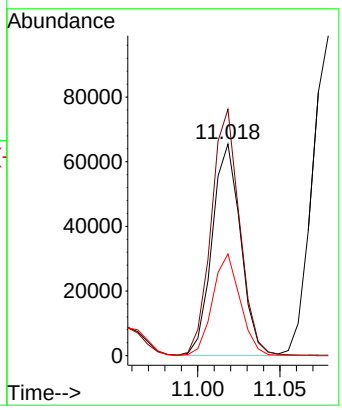




#81
trans-1,4-Dichloro-2-butene
Concen: 178.636 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion: 75 Resp: 7880

Ion	Ratio	Lower	Upper
75	100		
53	116.0	101.8	152.6
89	46.8	37.2	55.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
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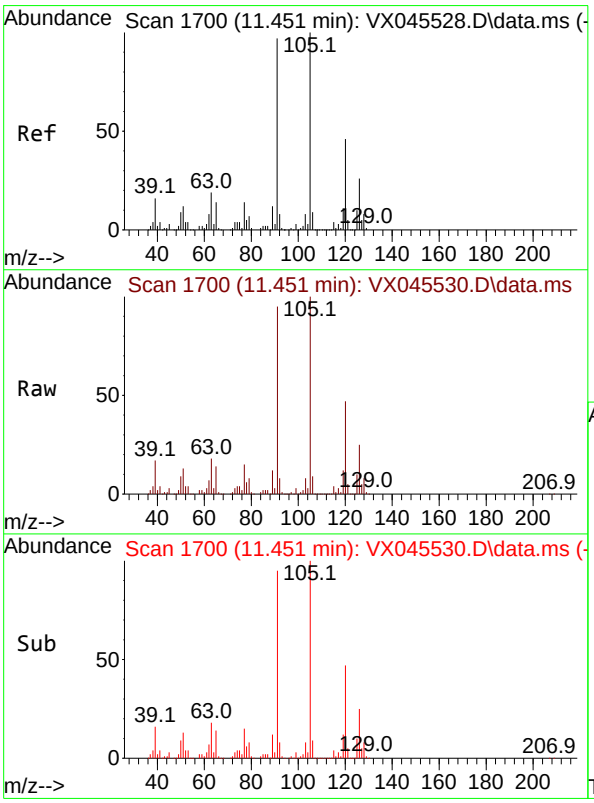
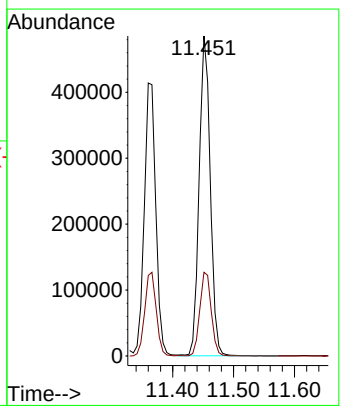
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

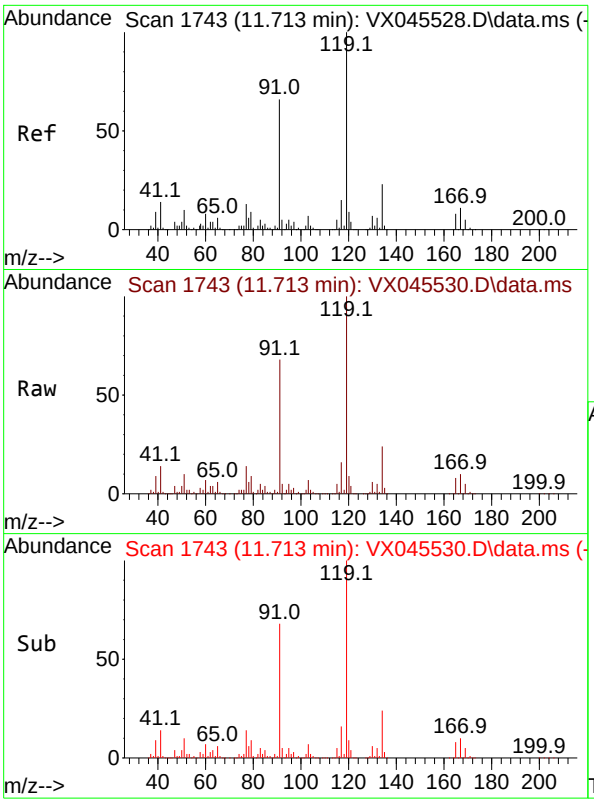


#82
4-Chlorotoluene
Concen: 152.505 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion: 91 Resp: 615594

Ion	Ratio	Lower	Upper
91	100		
126	26.9	13.3	39.9

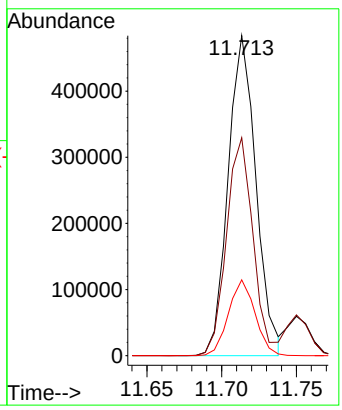




#83
tert-Butylbenzene
Concen: 155.783 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion:119 Resp: 62703

Ion	Ratio	Lower	Upper
119	100		
91	65.2	32.4	97.2
134	22.7	11.5	34.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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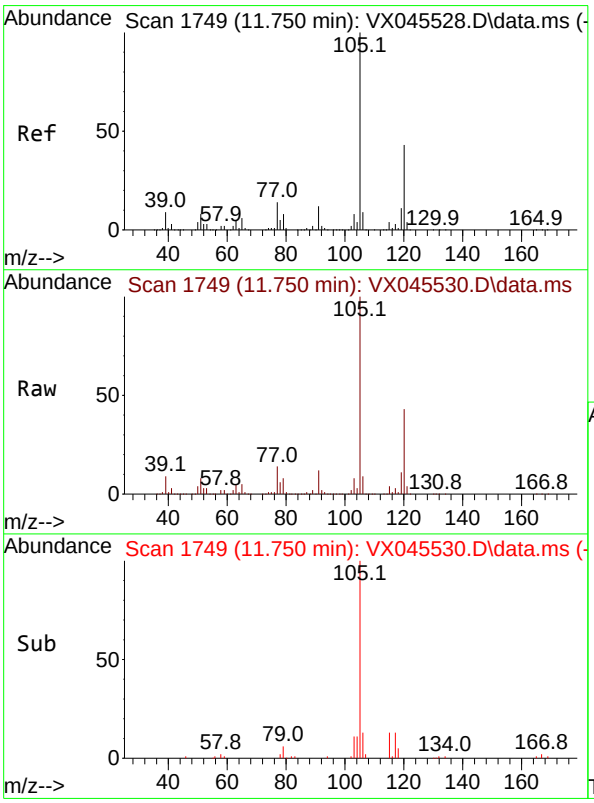
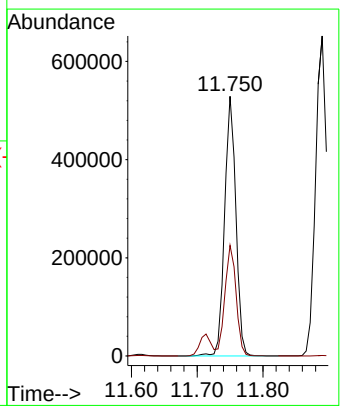
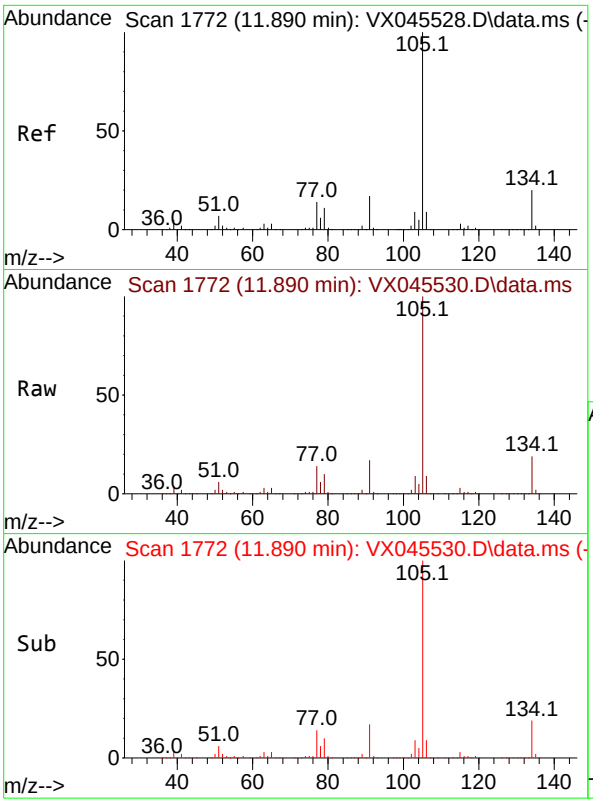


#84
1,2,4-Trimethylbenzene
Concen: 154.317 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion:105 Resp: 629704

Ion	Ratio	Lower	Upper
105	100		
120	42.7	21.4	64.3

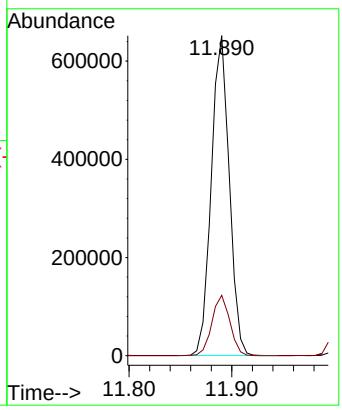




#85
sec-Butylbenzene
Concen: 159.869 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion:105 Resp: 79035

Ion	Ratio	Lower	Upper
105	100		
134	18.9	9.6	28.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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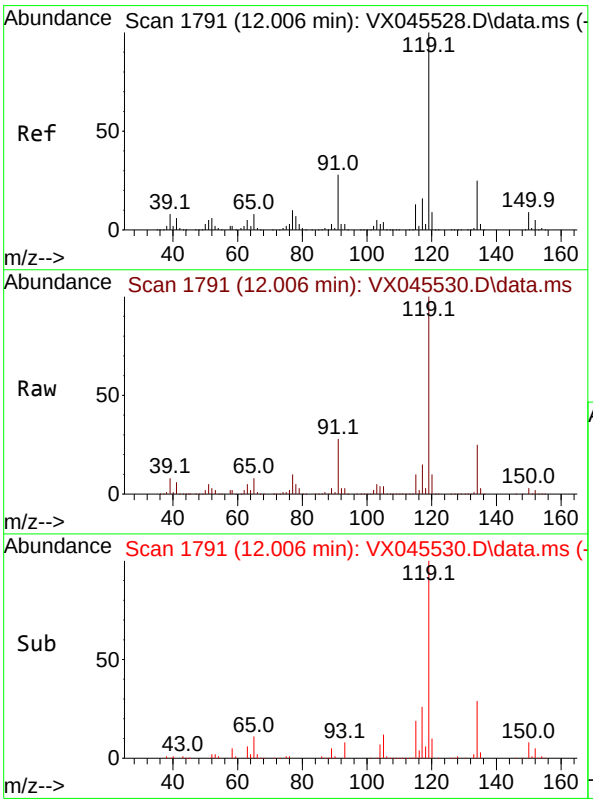
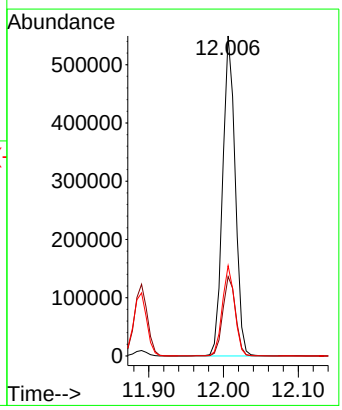
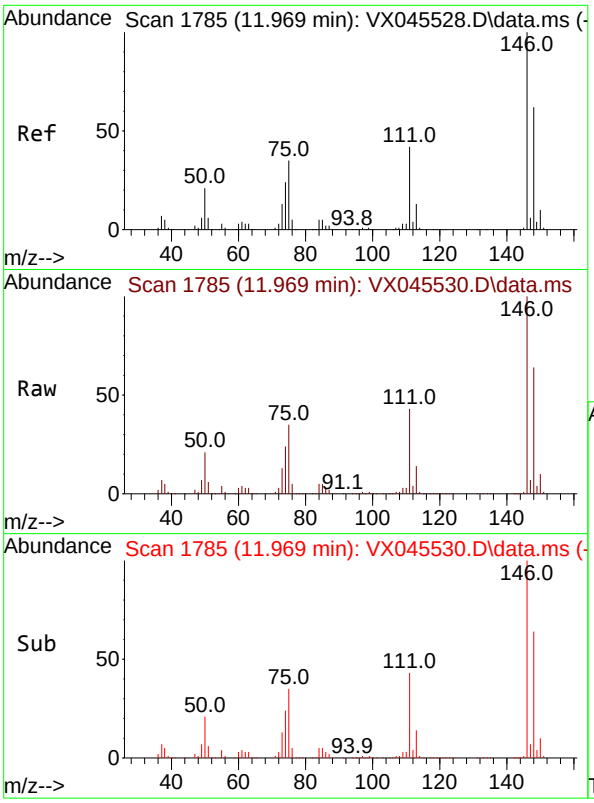


#86
p-Isopropyltoluene
Concen: 157.397 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion:119 Resp: 641521

Ion	Ratio	Lower	Upper
119	100		
134	25.3	12.6	37.8
91	27.6	13.7	41.1





#87
1,3-Dichlorobenzene
Concen: 151.885 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion:146 Resp: 31407

Ion	Ratio	Lower	Upper
146	100		
111	44.6	22.2	66.6
148	63.6	31.9	95.7

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
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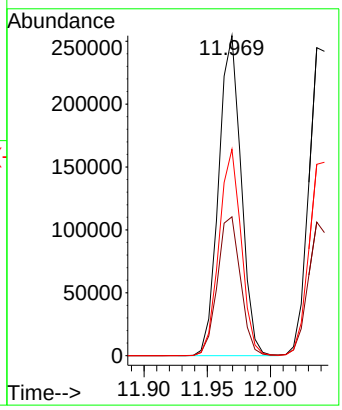
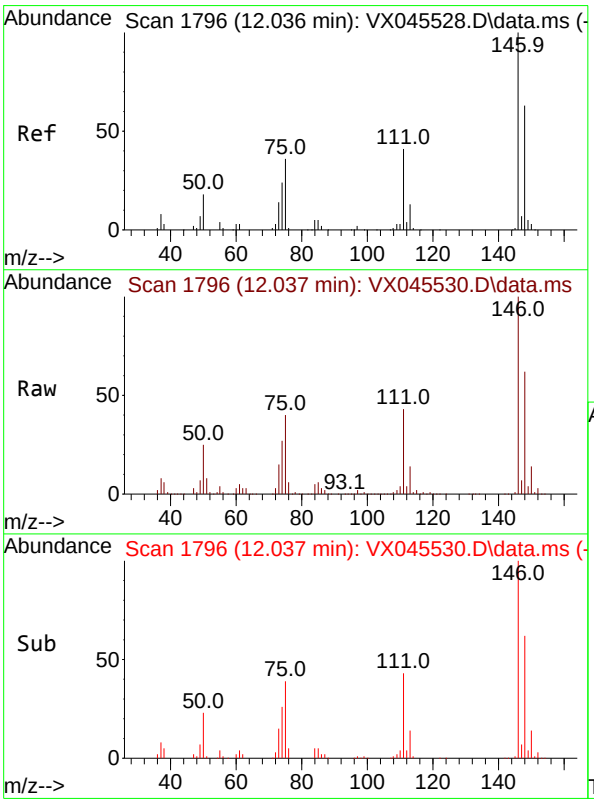
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

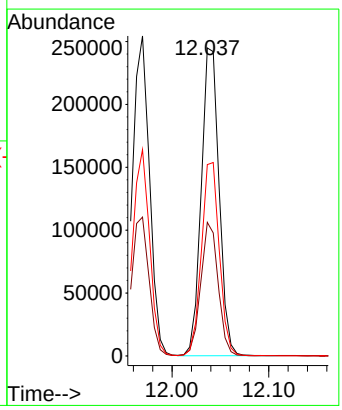


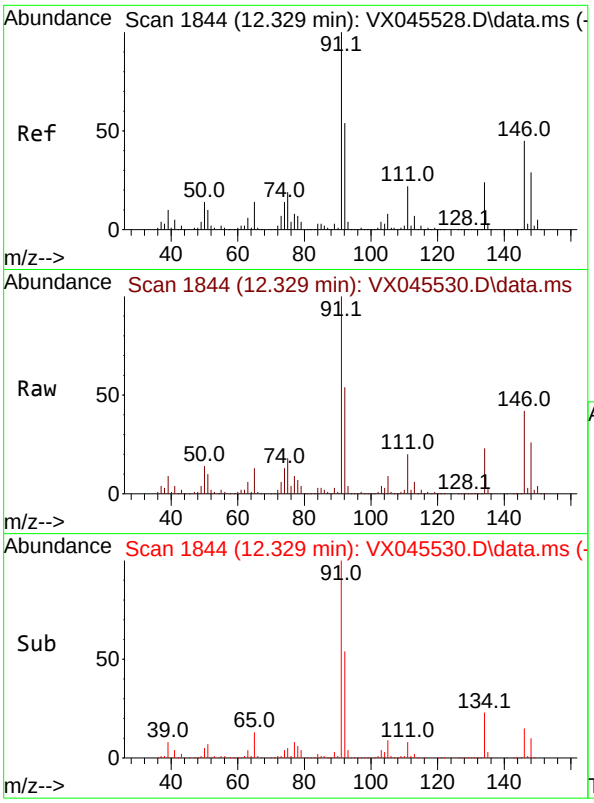


#88
1,4-Dichlorobenzene
Concen: 149.876 ug/l
RT: 12.037 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion:146 Resp: 314197

Ion	Ratio	Lower	Upper
146	100		
111	42.3	20.9	62.8
148	63.5	31.5	94.5

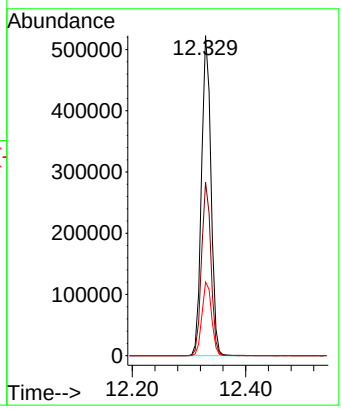




#89
n-Butylbenzene
Concen: 171.019 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion: 91 Resp: 60444

Ion	Ratio	Lower	Upper
91	100		
92	53.9	26.9	80.6
134	23.6	11.9	35.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

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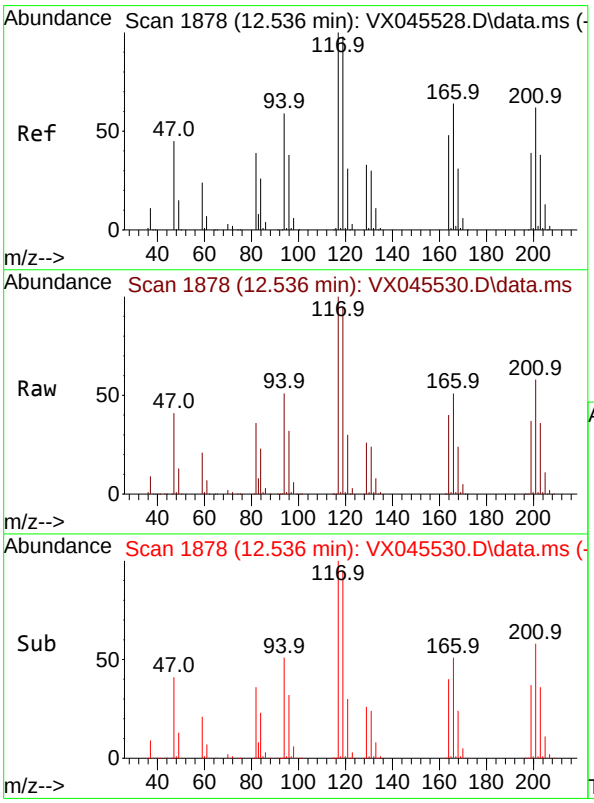
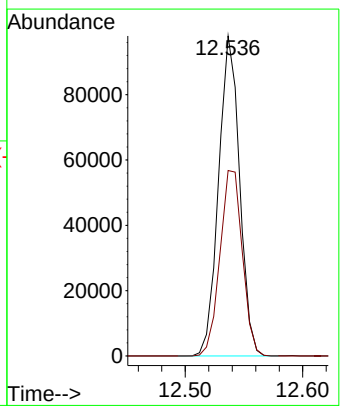
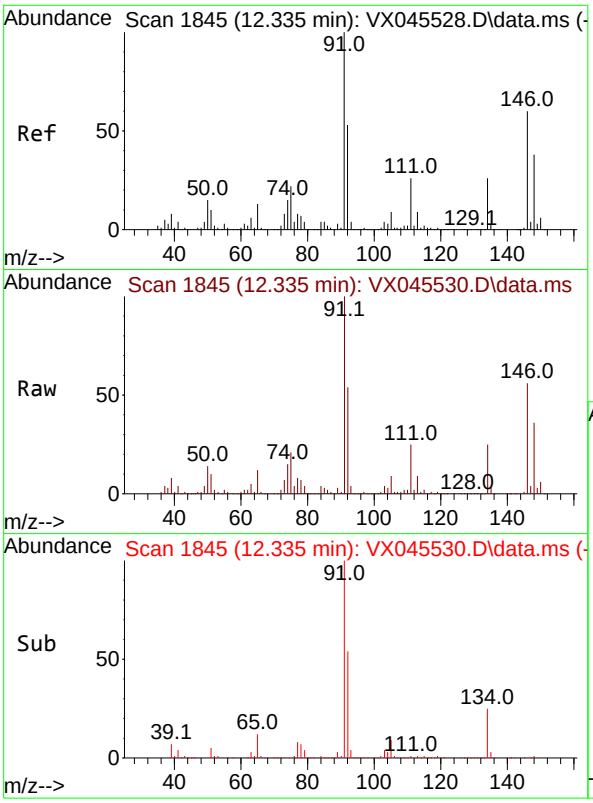


#90
Hexachloroethane
Concen: 173.829 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion:117 Resp: 121761

Ion	Ratio	Lower	Upper
117	100		
201	61.9	31.2	93.6

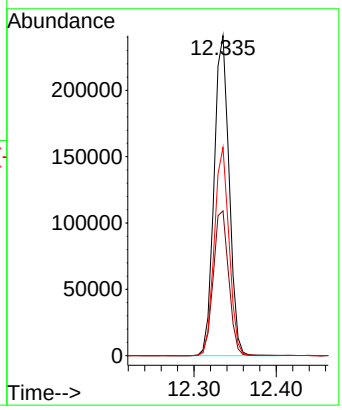




#91
1,2-Dichlorobenzene
Concen: 149.342 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion:146 Resp: 30703

Ion	Ratio	Lower	Upper
146	100		
111	46.3	22.9	68.8
148	63.8	31.9	95.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
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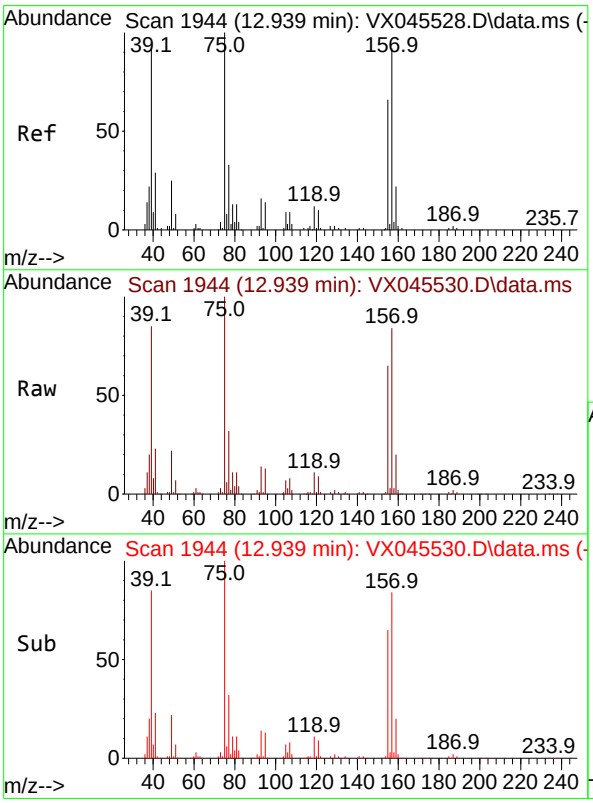
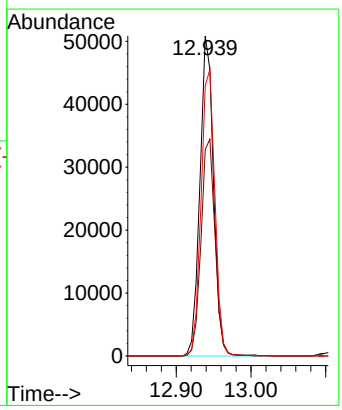
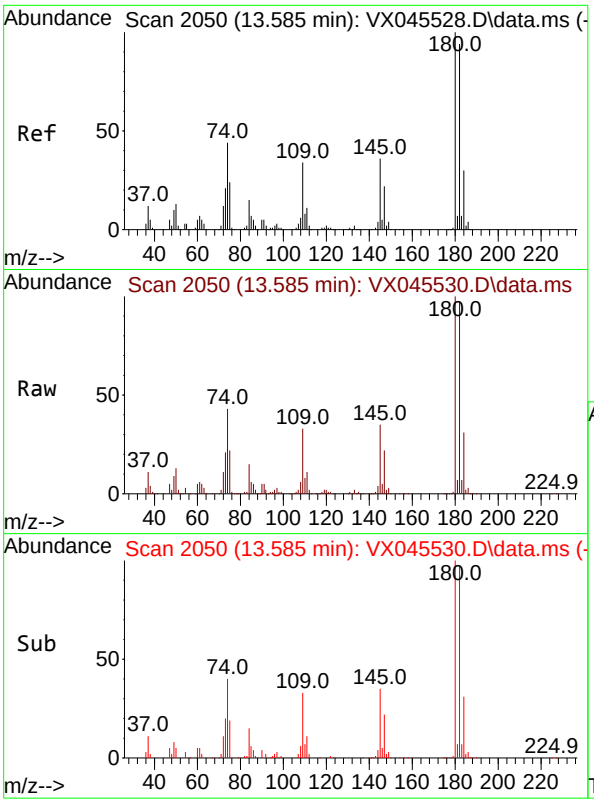


#92
1,2-Dibromo-3-Chloropropane
Concen: 178.062 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion: 75 Resp: 64317

Ion	Ratio	Lower	Upper
75	100		
155	69.7	34.9	104.7
157	91.3	44.9	134.7

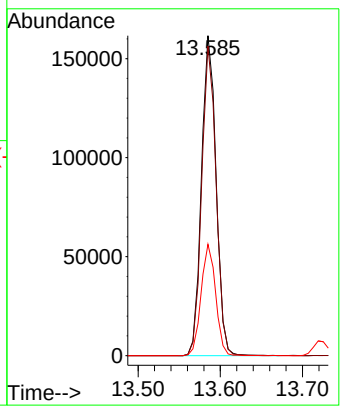




#93
1,2,4-Trichlorobenzene
Concen: 174.213 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion:180 Resp: 19936

Ion	Ratio	Lower	Upper
180	100		
182	95.4	47.9	143.6
145	34.6	17.9	53.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
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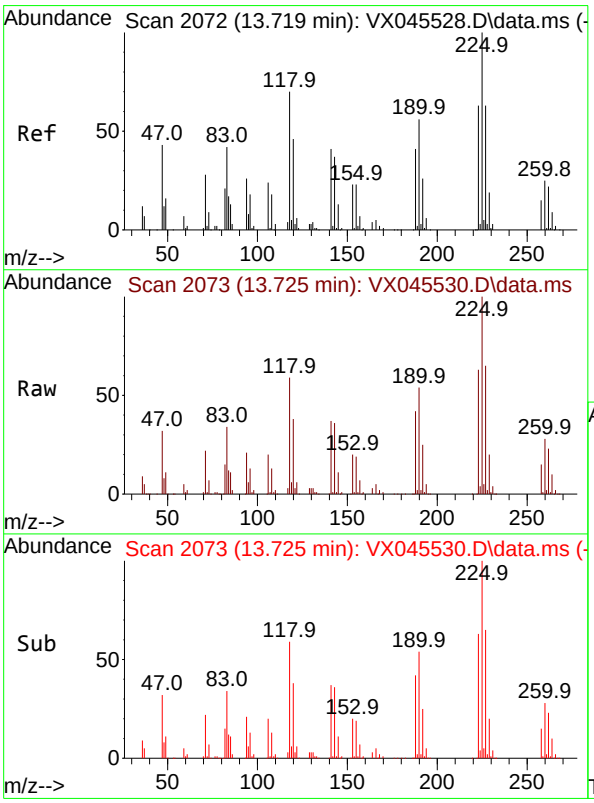
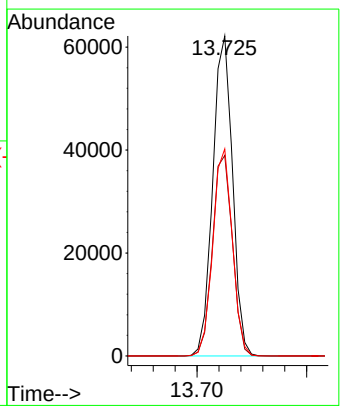
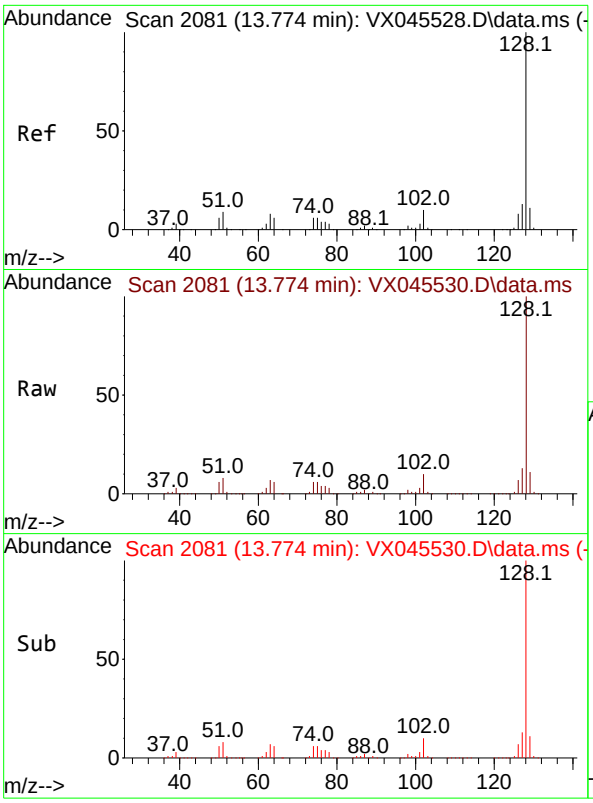


#94
Hexachlorobutadiene
Concen: 157.752 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.006 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion:225 Resp: 77792

Ion	Ratio	Lower	Upper
225	100		
223	63.4	31.1	93.3
227	63.8	32.2	96.6

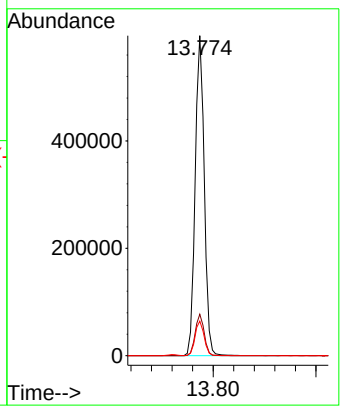




#95
Naphthalene
Concen: 172.191 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion:128 Resp: 73330

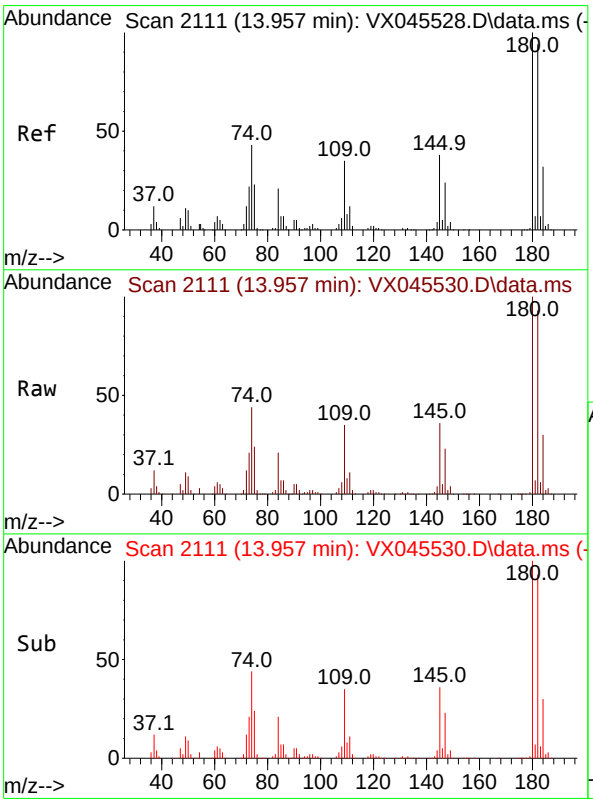
Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.3	15.5
129	10.7	8.6	12.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

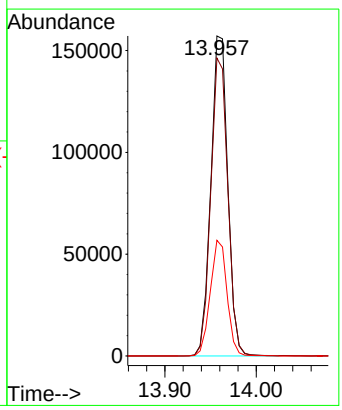
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#96
1,2,3-Trichlorobenzene
Concen: 168.562 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion:180 Resp: 201989

Ion	Ratio	Lower	Upper
180	100		
182	94.0	47.3	141.8
145	35.8	18.2	54.6



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045532.D
Acq On : 01 Apr 2025 19:48
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 02 03:14:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
ICVVX040225

Manual Integrations APPROVED
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	96972	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	174855	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	152417	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	67633	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	89251	50.329	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 100.660%			
35) Dibromofluoromethane	5.379	113	61107	49.256	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.520%			
50) Toluene-d8	8.647	98	217200	50.160	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.320%			
62) 4-Bromofluorobenzene	11.079	95	80376	50.959	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 101.920%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	76070	52.454	ug/l	97
3) Chloromethane	1.301	50	72033	48.349	ug/l	99
4) Vinyl Chloride	1.374	62	66559	48.816	ug/l	99
5) Bromomethane	1.593	94	30379	46.991	ug/l	99
6) Chloroethane	1.672	64	37317	51.586	ug/l	100
7) Trichlorofluoromethane	1.880	101	102379	50.354	ug/l	96
8) Diethyl Ether	2.130	74	33603	49.228	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.325	101	59007	49.528	ug/l	98
10) Methyl Iodide	2.447	142	72261	48.626	ug/l	99
11) Tert butyl alcohol	2.971	59	58774	246.612	ug/l	99
12) 1,1-Dichloroethene	2.313	96	57888	49.726	ug/l	99
13) Acrolein	2.233	56	78156	238.141	ug/l	99
14) Allyl chloride	2.660	41	111636	50.541	ug/l	99
15) Acrylonitrile	3.062	53	186837	248.351	ug/l	100
16) Acetone	2.380	43	176153	241.904	ug/l	99
17) Carbon Disulfide	2.508	76	149677	52.057	ug/l	100
18) Methyl Acetate	2.703	43	81720	48.742	ug/l	100
19) Methyl tert-butyl Ether	3.111	73	207487	50.950	ug/l	100
20) Methylene Chloride	2.782	84	66875	49.055	ug/l	99
21) trans-1,2-Dichloroethene	3.087	96	59229	49.800	ug/l	98
22) Diisopropyl ether	3.757	45	221449	50.895	ug/l	92
23) Vinyl Acetate	3.715	43	1005423	267.449	ug/l	99
24) 1,1-Dichloroethane	3.605	63	122240	49.677	ug/l	99
25) 2-Butanone	4.550	43	271686	254.882	ug/l	97
26) 2,2-Dichloropropane	4.471	77	82704	52.020	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	71072	49.049	ug/l	98
28) Bromochloromethane	4.891	49	57557	48.403	ug/l	99
29) Tetrahydrofuran	5.001	42	172405	249.473	ug/l	100
30) Chloroform	5.086	83	125621	49.614	ug/l	98
31) Cyclohexane	5.458	56	107862	49.583	ug/l	97
32) 1,1,1-Trichloroethane	5.379	97	107830	50.330	ug/l	99
36) 1,1-Dichloropropene	5.684	75	83901	50.088	ug/l	99
37) Ethyl Acetate	4.708	43	105095	49.787	ug/l	98
38) Carbon Tetrachloride	5.672	117	91723	50.667	ug/l	100
39) Methylcyclohexane	7.373	83	102919	50.124	ug/l	99
40) Benzene	6.031	78	251758	49.212	ug/l	100

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045532.D
Acq On : 01 Apr 2025 19:48
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 02 03:14:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
ICVVX040225

Manual Integrations APPROVED
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.916	41	59140	53.098	ug/l		99
42) 1,2-Dichloroethane	6.080	62	103270	48.875	ug/l		100
43) Isopropyl Acetate	6.336	43	164894	51.539	ug/l		100
44) Trichloroethene	7.123	130	57931	47.643	ug/l		92
45) 1,2-Dichloropropane	7.421	63	63210	49.521	ug/l		95
46) Dibromomethane	7.574	93	47564	48.542	ug/l		97
47) Bromodichloromethane	7.818	83	96418	49.273	ug/l		96
48) Methyl methacrylate	7.690	41	85084	51.507	ug/l		99
49) 1,4-Dioxane	7.659	88	28552	955.327	ug/l		99
51) 4-Methyl-2-Pentanone	8.568	43	540822	254.994	ug/l		100
52) Toluene	8.714	92	151664	48.994	ug/l		100
53) t-1,3-Dichloropropene	8.976	75	87744	46.783	ug/l		98
54) cis-1,3-Dichloropropene	8.360	75	99074	53.878	ug/l		98
55) 1,1,2-Trichloroethane	9.147	97	60452	49.007	ug/l		97
56) Ethyl methacrylate	9.116	69	102525	53.705	ug/l		100
57) 1,3-Dichloropropane	9.305	76	107121	49.869	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	251285	260.201	ug/l		99
59) 2-Hexanone	9.427	43	395336	251.710	ug/l		100
60) Dibromochloromethane	9.519	129	68562	50.983	ug/l		99
61) 1,2-Dibromoethane	9.604	107	63301	50.693	ug/l		100
64) Tetrachloroethene	9.269	164	50834	47.239	ug/l		99
65) Chlorobenzene	10.073	112	163518	50.207	ug/l		98
66) 1,1,1,2-Tetrachloroethane	10.159	131	57096	50.495	ug/l		99
67) Ethyl Benzene	10.189	91	300747	51.558	ug/l		100
68) m/p-Xylenes	10.299	106	217943	102.728	ug/l		99
69) o-Xylene	10.640	106	107947	51.650	ug/l		100
70) Styrene	10.653	104	181524	52.624	ug/l		100
71) Bromoform	10.799	173	44489	52.694	ug/l	#	98
73) Isopropylbenzene	10.957	105	286010	52.794	ug/l		100
74) N-amyl acetate	10.842	43	140941	54.387	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.207	83	92505	48.608	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	82060m	49.741	ug/l		
77) Bromobenzene	11.195	156	63244	50.525	ug/l		98
78) n-propylbenzene	11.299	91	336753	53.967	ug/l		100
79) 2-Chlorotoluene	11.360	91	203677	51.057	ug/l		99
80) 1,3,5-Trimethylbenzene	11.445	105	239822	53.534	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	25511	52.482	ug/l		98
82) 4-Chlorotoluene	11.451	91	233159	52.422	ug/l		100
83) tert-Butylbenzene	11.713	119	236276	53.274	ug/l		100
84) 1,2,4-Trimethylbenzene	11.750	105	238257	52.990	ug/l		100
85) sec-Butylbenzene	11.890	105	293633	53.903	ug/l		100
86) p-Isopropyltoluene	12.006	119	244031	54.337	ug/l		99
87) 1,3-Dichlorobenzene	11.963	146	115113	50.521	ug/l		100
88) 1,4-Dichlorobenzene	12.036	146	113458	49.117	ug/l		97
89) n-Butylbenzene	12.329	91	214931	55.189	ug/l		99
90) Hexachloroethane	12.536	117	41729	54.066	ug/l		98
91) 1,2-Dichlorobenzene	12.329	146	113126	49.938	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	12.939	75	21184	53.226	ug/l		100
93) 1,2,4-Trichlorobenzene	13.585	180	65488	51.935	ug/l		98
94) Hexachlorobutadiene	13.725	225	27147	49.961	ug/l		99
95) Naphthalene	13.774	128	247600	52.765	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	66542	50.396	ug/l		100

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045532.D
Acq On : 01 Apr 2025 19:48
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 02 03:14:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
ICVVX040225

Manual Integrations APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

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

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

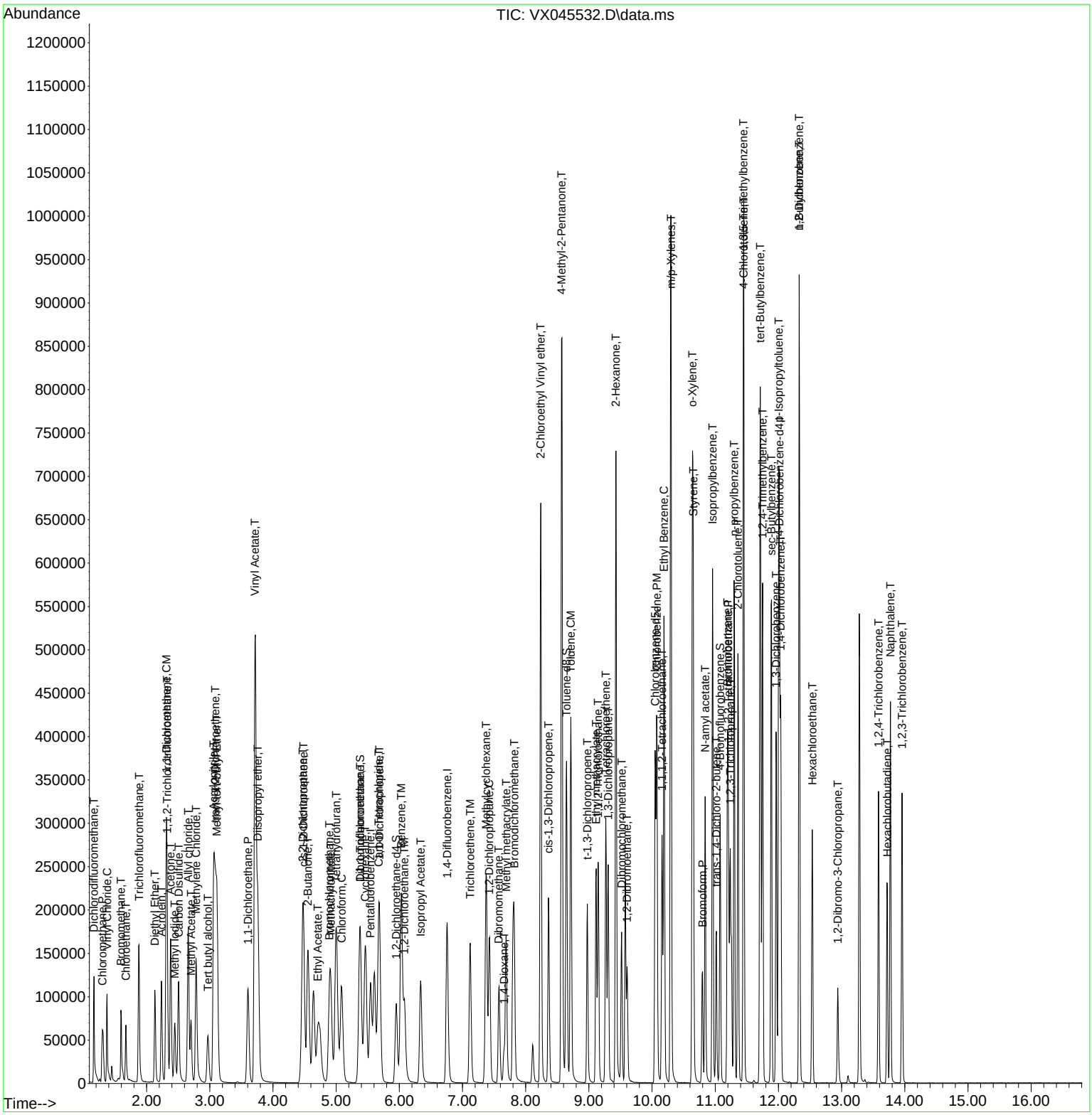
Quantitation Report (QT Reviewed)

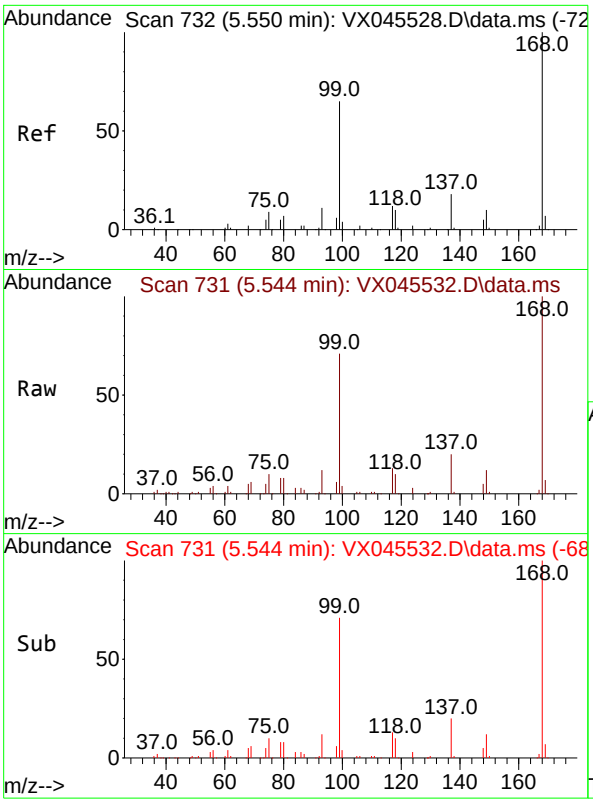
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045532.D
Acq On : 01 Apr 2025 19:48
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 02 03:14:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
ICVVX040225

Manual Integrations APPROVED
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

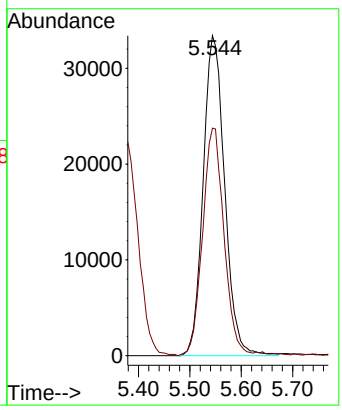




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion:168 Resp: 9697

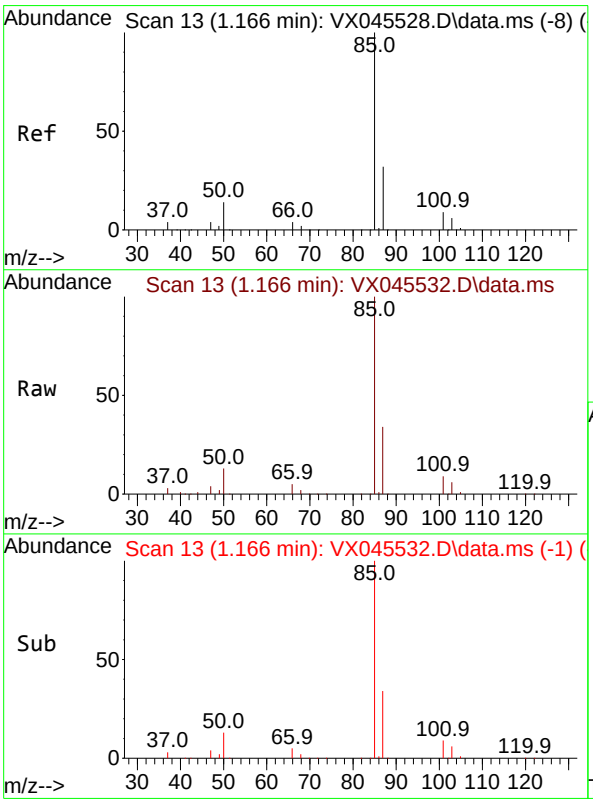
Ion	Ratio	Lower	Upper
168	100		
99	71.1	52.3	78.5



Instrument :
MSVOA_X
ClientSampleId :
ICVVX040225

Manual Integrations
APPROVED

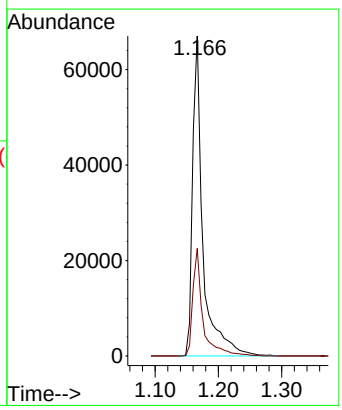
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

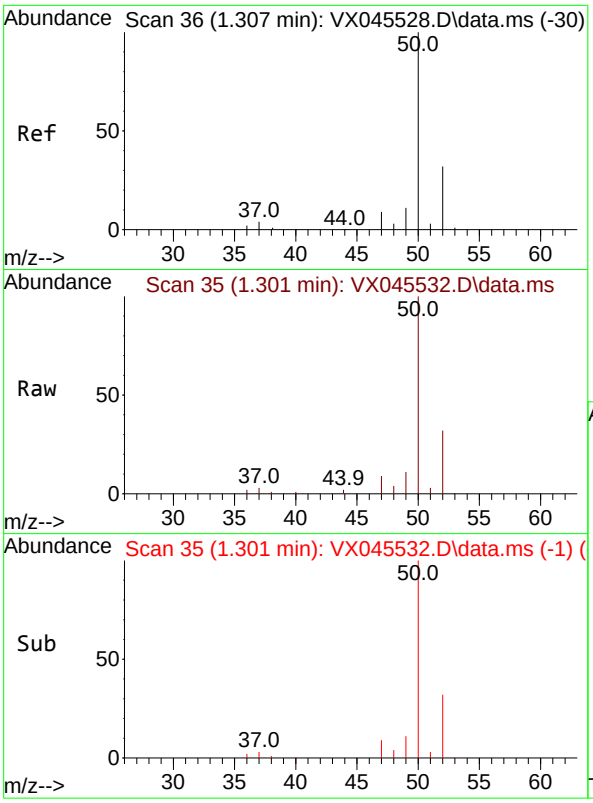


#2
Dichlorodifluoromethane
Concen: 52.454 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion: 85 Resp: 76070

Ion	Ratio	Lower	Upper
85	100		
87	33.6	16.1	48.2

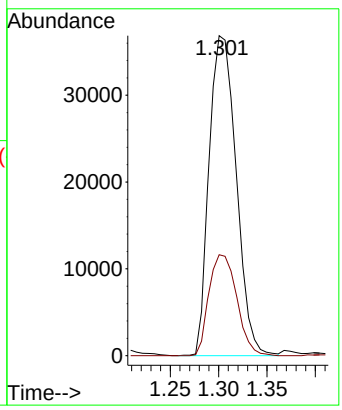




#3
Chloromethane
Concen: 48.349 ug/l
RT: 1.301 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion: 50 Resp: 7203

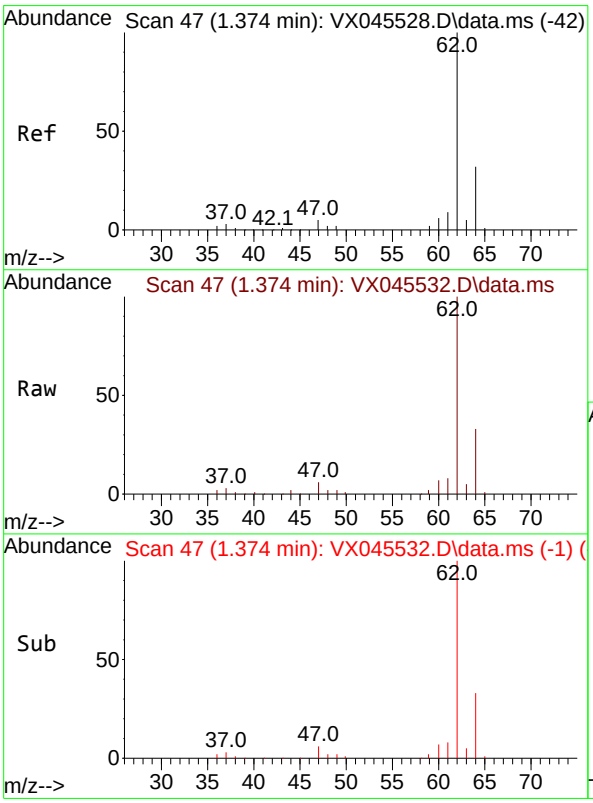
Ion	Ratio	Lower	Upper
50	100		
52	31.6	25.9	38.9



Instrument :
MSVOA_X
ClientSampleId :
ICVVX040225

Manual Integrations
APPROVED

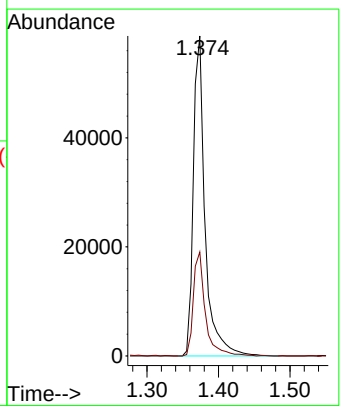
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

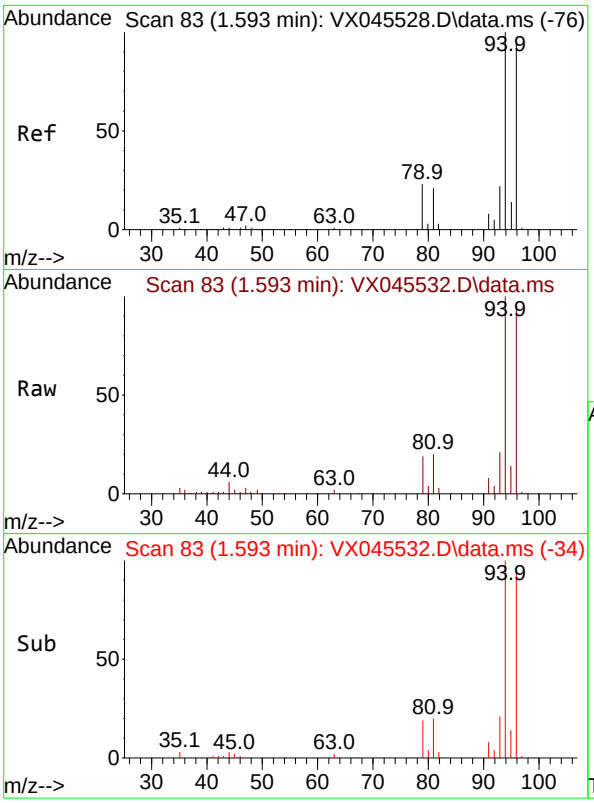


#4
Vinyl Chloride
Concen: 48.816 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion: 62 Resp: 66559

Ion	Ratio	Lower	Upper
62	100		
64	32.5	25.5	38.3





#5
Bromomethane
Concen: 46.991 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

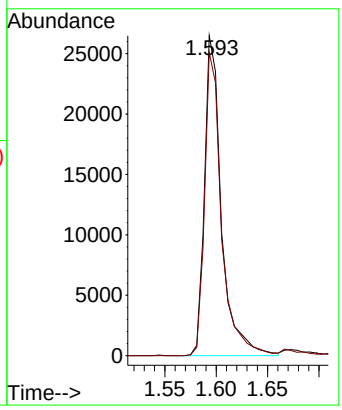
Tgt Ion: 94 Resp: 3037

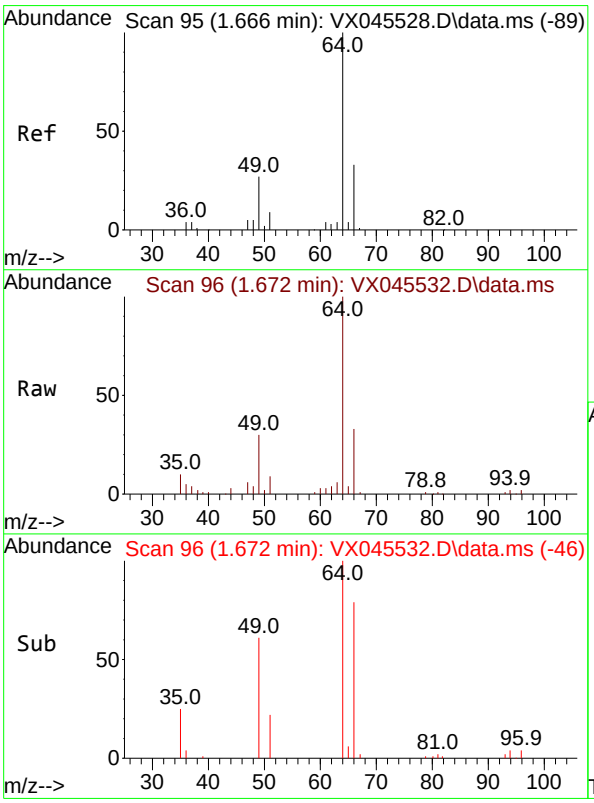
Ion	Ratio	Lower	Upper
94	100		
96	94.7	74.8	112.2

Instrument :
MSVOA_X
ClientSampleId :
ICVVX040225

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

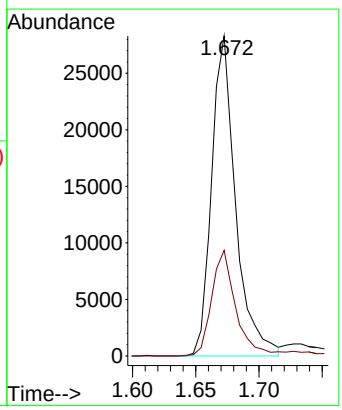


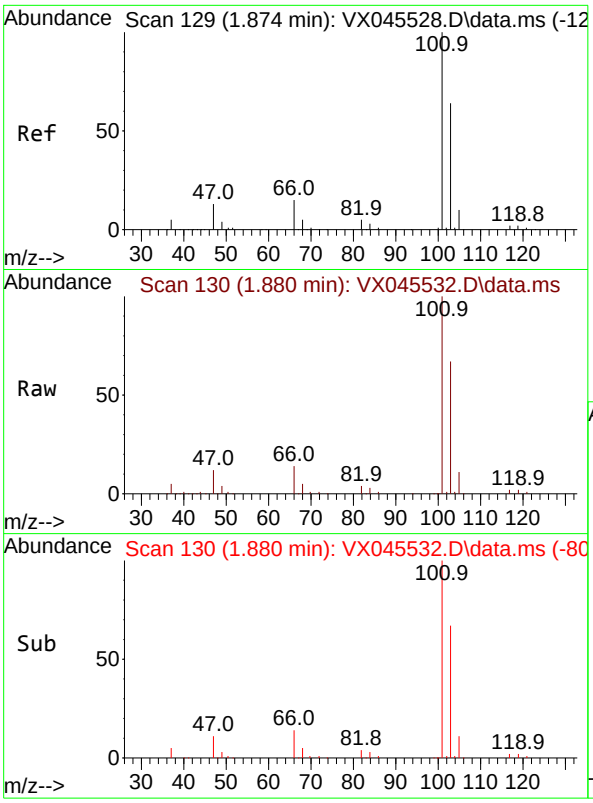


#6
Chloroethane
Concen: 51.586 ug/l
RT: 1.672 min Scan# 96
Delta R.T. 0.006 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion: 64 Resp: 37317

Ion	Ratio	Lower	Upper
64	100		
66	33.0	26.3	39.5

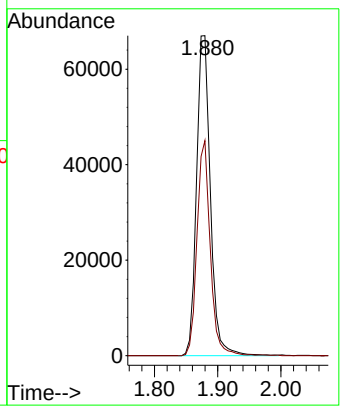




#7
Trichlorofluoromethane
Concen: 50.354 ug/l
RT: 1.880 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion:101 Resp: 10237

Ion	Ratio	Lower	Upper
101	100		
103	67.2	51.1	76.7



Instrument :
MSVOA_X
ClientSampleId :
ICVVX040225

Manual Integrations
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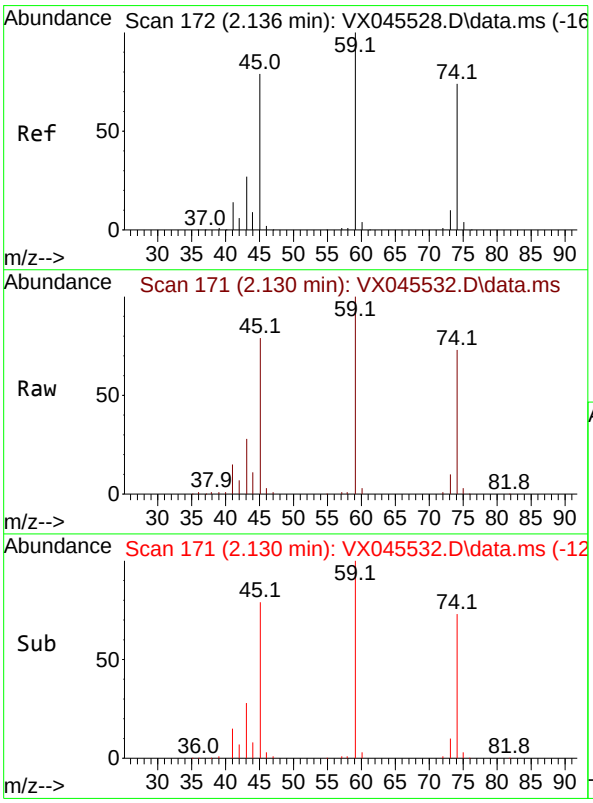
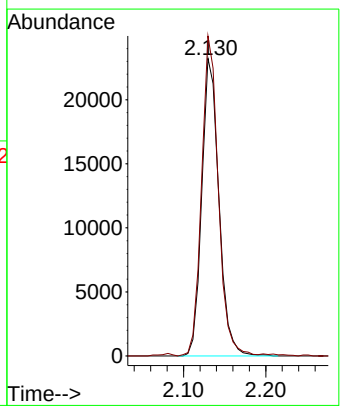
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

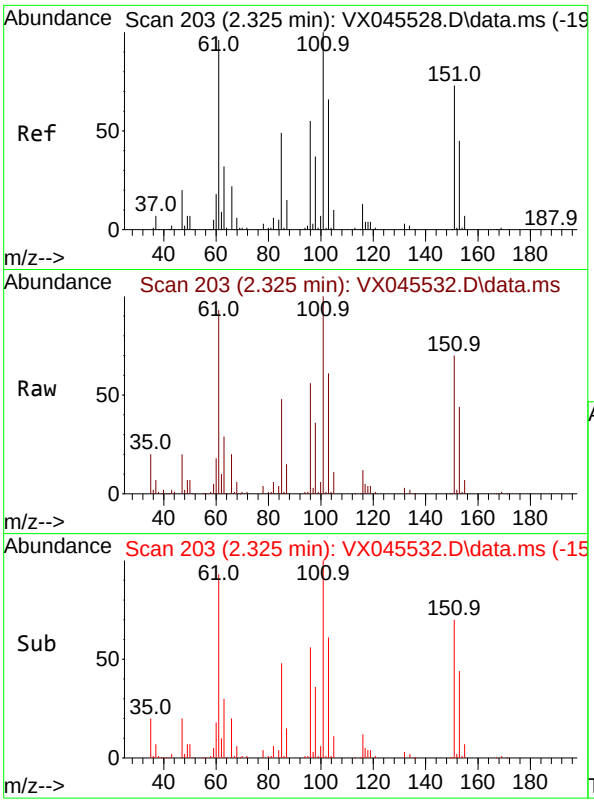


#8
Diethyl Ether
Concen: 49.228 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion: 74 Resp: 33603

Ion	Ratio	Lower	Upper
74	100		
45	105.2	53.0	159.1

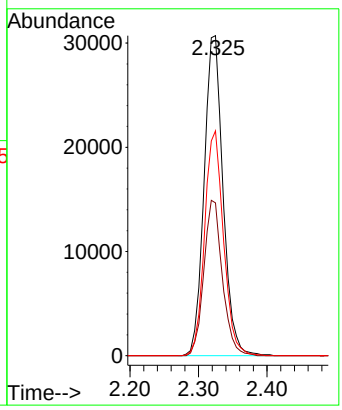




#9
1,1,2-Trichlorotrifluoroethane
Concen: 49.528 ug/l
RT: 2.325 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion:101 Resp: 5900

Ion	Ratio	Lower	Upper
101	100		
85	47.5	38.9	58.3
151	70.1	57.5	86.3



Instrument :
MSVOA_X
ClientSampleId :
ICVVX040225

Manual Integrations
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Reviewed By :Amit Patel 04/02/2025
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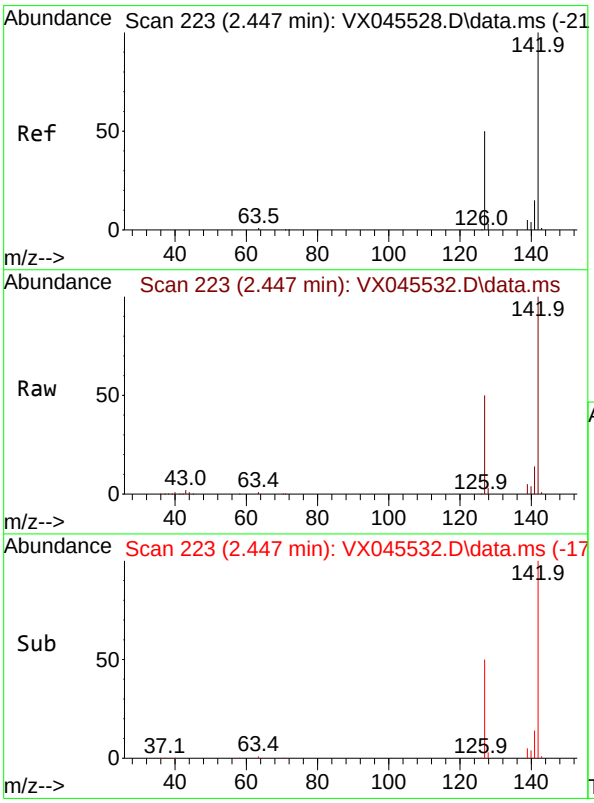
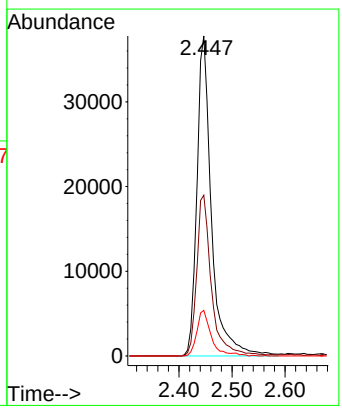
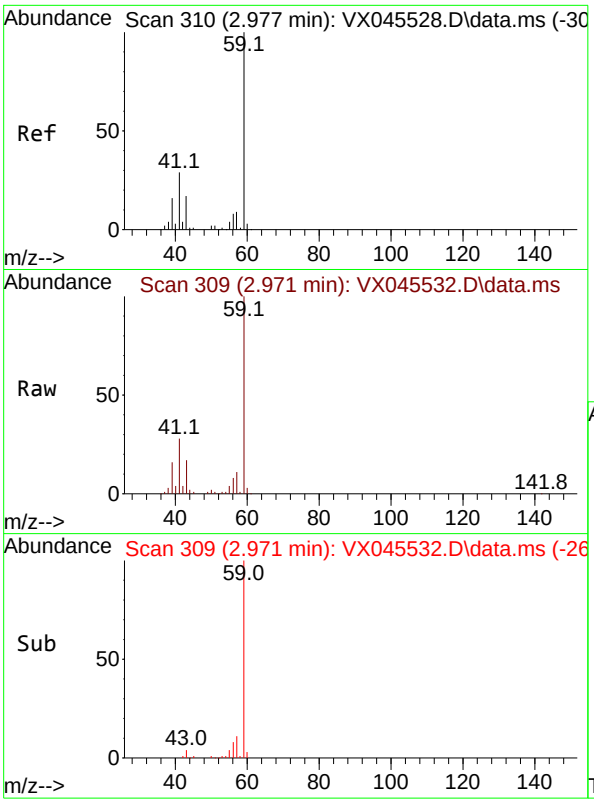


#10
Methyl Iodide
Concen: 48.626 ug/l
RT: 2.447 min Scan# 223
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion:142 Resp: 72261

Ion	Ratio	Lower	Upper
142	100		
127	50.6	40.2	60.4
141	14.1	11.7	17.5

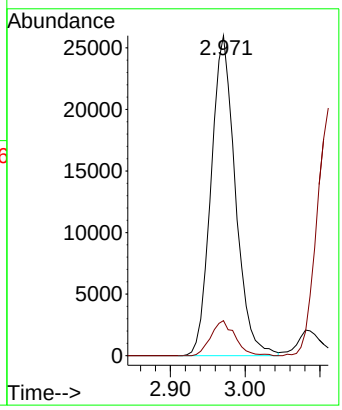




#11
Tert butyl alcohol
Concen: 246.612 ug/l
RT: 2.971 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion: 59 Resp: 5877

Ion	Ratio	Lower	Upper
59	100		
57	10.9	8.6	12.8



Instrument :
MSVOA_X
ClientSampleId :
ICVVX040225

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Reviewed By :Amit Patel 04/02/2025
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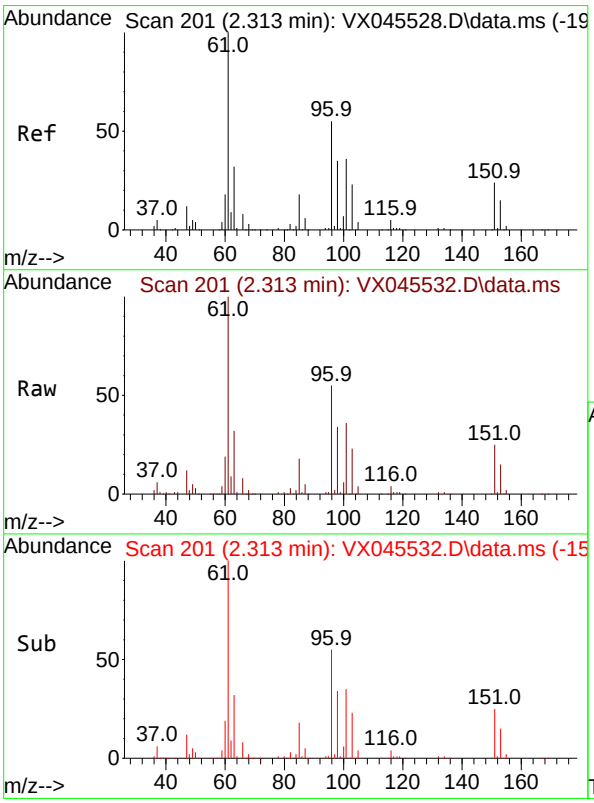
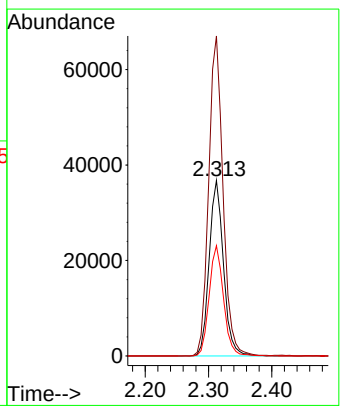
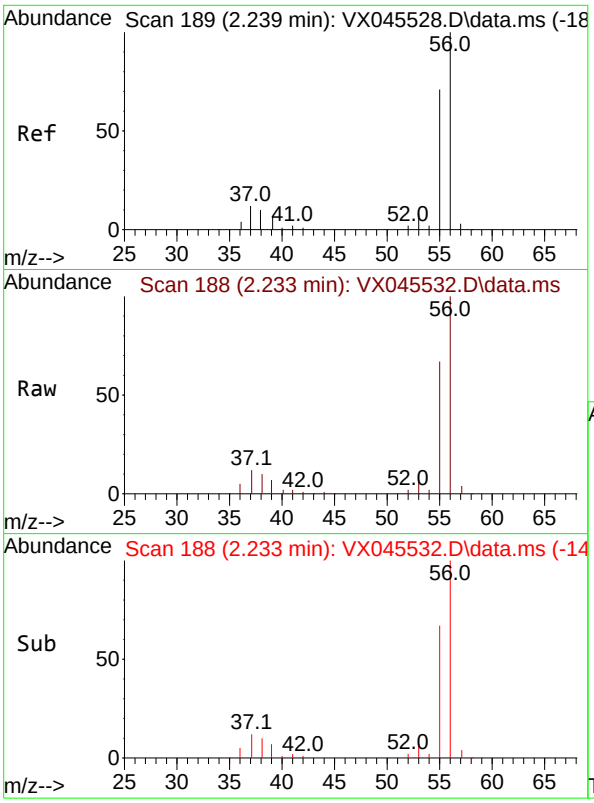


#12
1,1-Dichloroethene
Concen: 49.726 ug/l
RT: 2.313 min Scan# 201
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion: 96 Resp: 57888

Ion	Ratio	Lower	Upper
96	100		
61	182.3	145.7	218.5
98	62.8	51.6	77.4

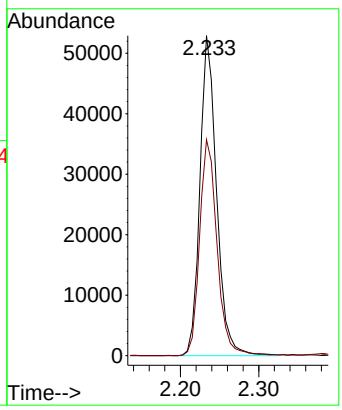




#13
Acrolein
Concen: 238.141 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion: 56 Resp: 7815

Ion	Ratio	Lower	Upper
56	100		
55	71.0	56.2	84.2



Instrument :
MSVOA_X
ClientSampleId :
ICVVX040225

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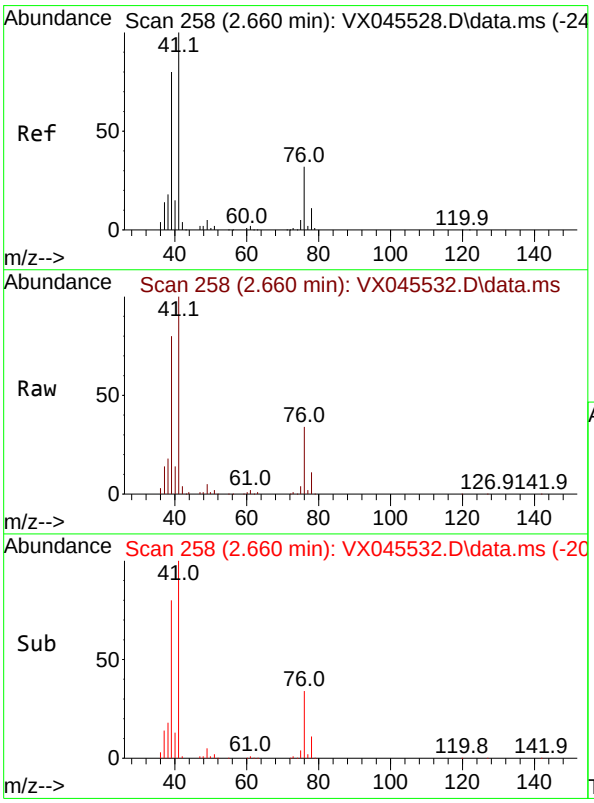
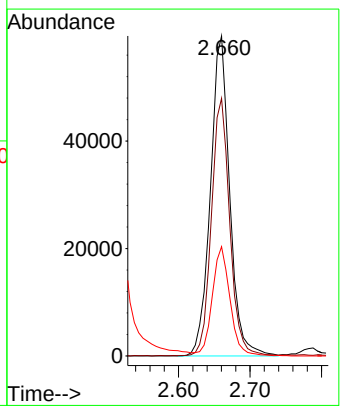
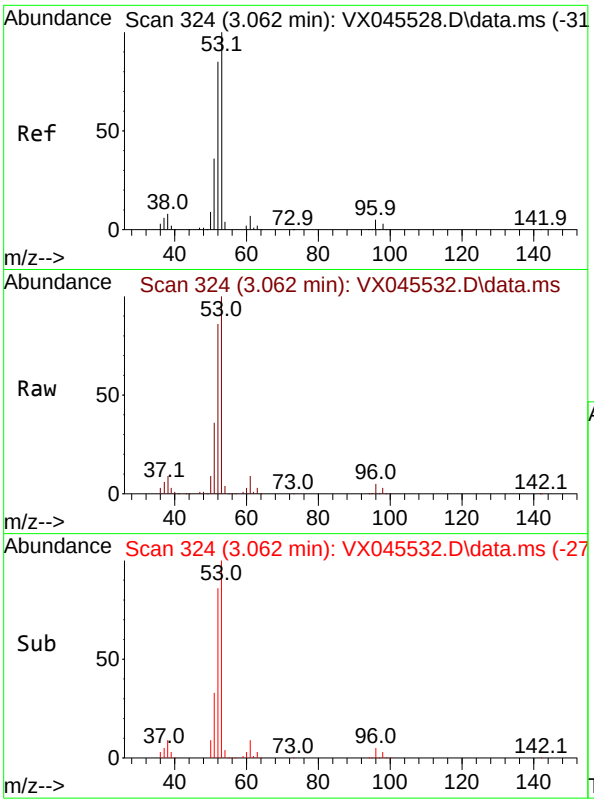


#14
Allyl chloride
Concen: 50.541 ug/l
RT: 2.660 min Scan# 258
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion: 41 Resp: 111636

Ion	Ratio	Lower	Upper
41	100		
39	76.2	60.2	90.2
76	31.6	24.6	36.8

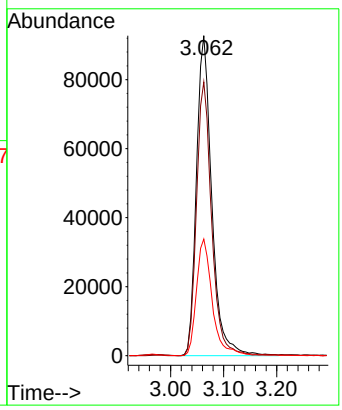




#15
Acrylonitrile
Concen: 248.351 ug/l
RT: 3.062 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion: 53 Resp: 18683

Ion	Ratio	Lower	Upper
53	100		
52	84.1	67.4	101.2
51	37.6	29.9	44.9



Instrument :
MSVOA_X
ClientSampleId :
ICVVX040225

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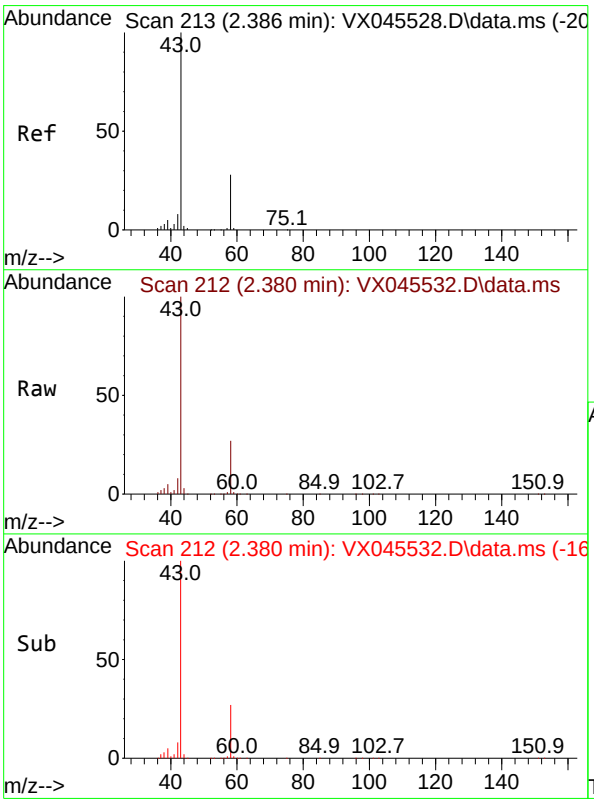
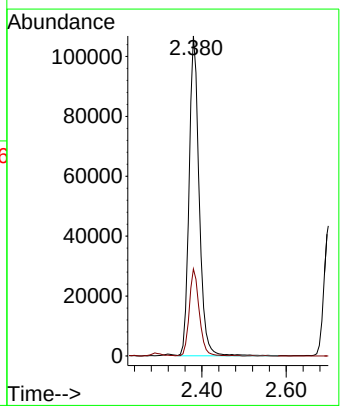
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

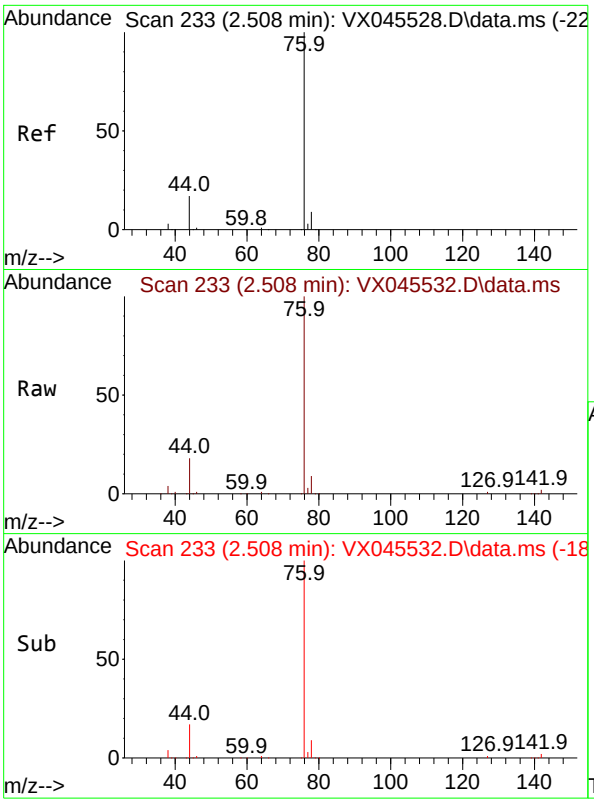


#16
Acetone
Concen: 241.904 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion: 43 Resp: 176153

Ion	Ratio	Lower	Upper
43	100		
58	27.2	22.3	33.5

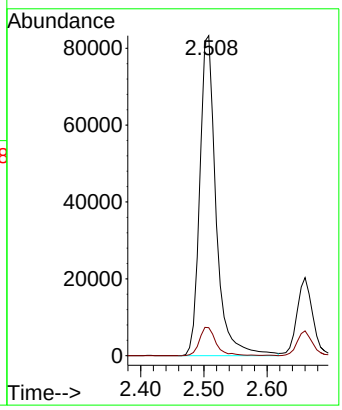




#17
Carbon Disulfide
Concen: 52.057 ug/l
RT: 2.508 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion: 76 Resp: 14967

Ion	Ratio	Lower	Upper
76	100		
78	8.7	7.0	10.6



Instrument :
MSVOA_X
ClientSampleId :
ICVVX040225

Manual Integrations
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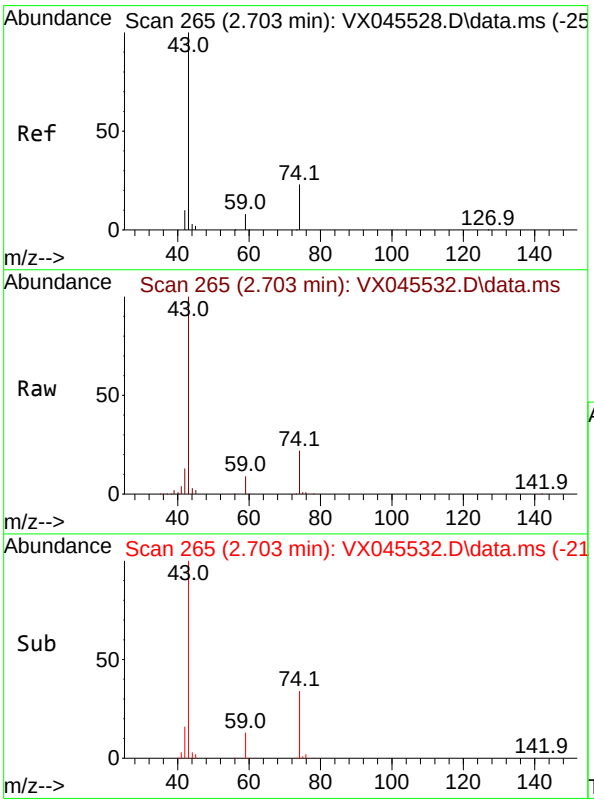
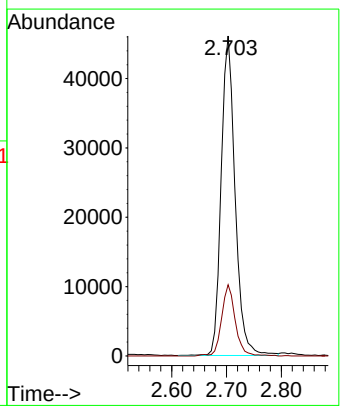
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

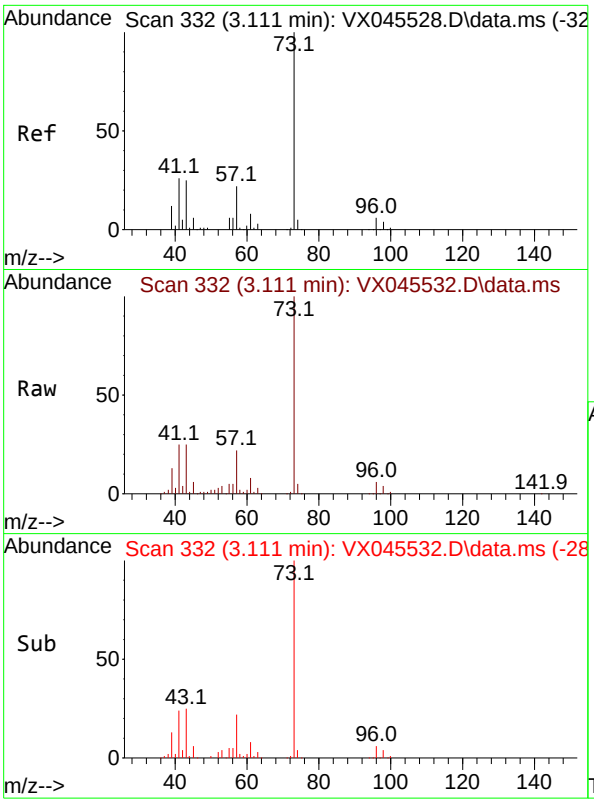


#18
Methyl Acetate
Concen: 48.742 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion: 43 Resp: 81720

Ion	Ratio	Lower	Upper
43	100		
74	21.8	17.5	26.3

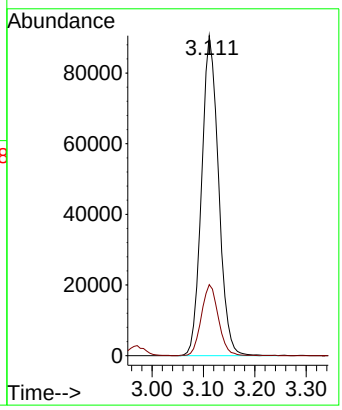




#19
Methyl tert-butyl Ether
Concen: 50.950 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion: 73 Resp: 20748

Ion	Ratio	Lower	Upper
73	100		
57	22.2	17.6	26.4



Instrument :
MSVOA_X
ClientSampleId :
ICVVX040225

Manual Integrations
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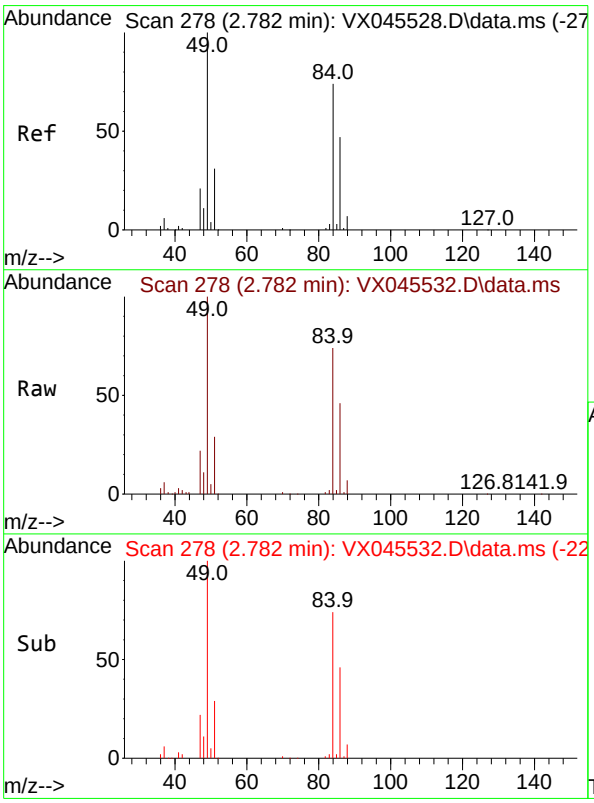
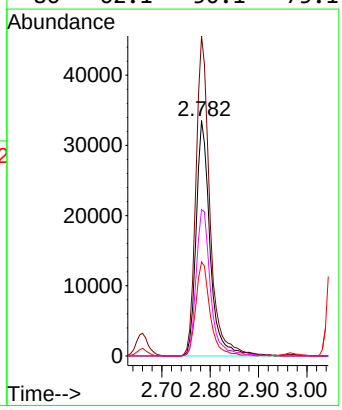
Supervised By :Mahesh Dadoda 04/02/2025

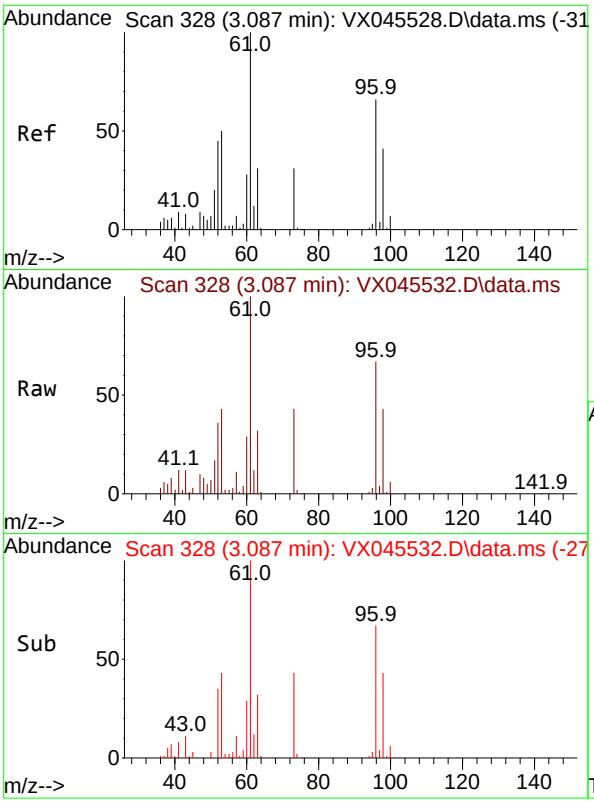


#20
Methylene Chloride
Concen: 49.055 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion: 84 Resp: 66875

Ion	Ratio	Lower	Upper
84	100		
49	135.9	107.5	161.3
51	39.9	33.0	49.6
86	62.1	50.1	75.1

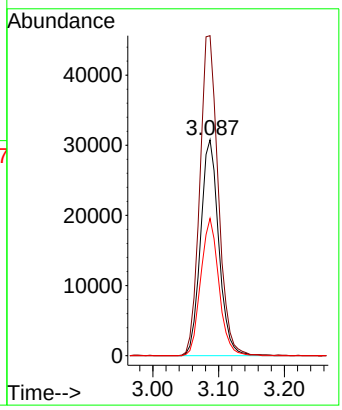




#21
trans-1,2-Dichloroethene
Concen: 49.800 ug/l
RT: 3.087 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion: 96 Resp: 5922

Ion	Ratio	Lower	Upper
96	100		
61	148.2	121.0	181.6
98	63.6	49.7	74.5



Instrument :
MSVOA_X
ClientSampleId :
ICVVX040225

Manual Integrations
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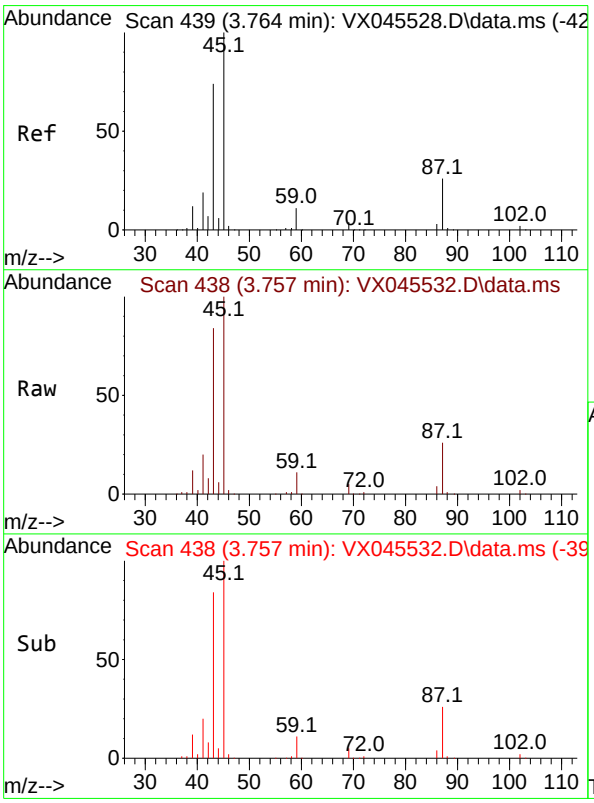
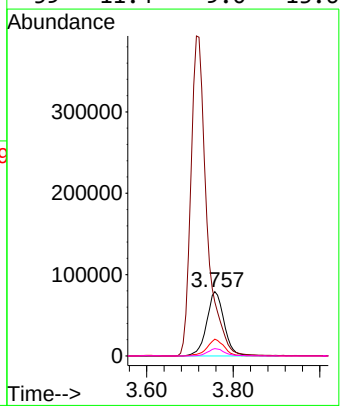
Supervised By :Mahesh Dadoda 04/02/2025

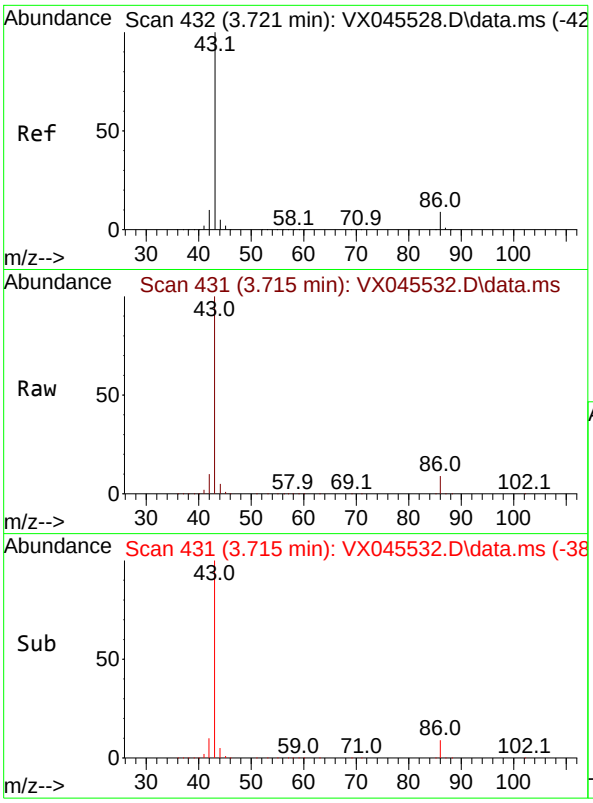


#22
Diisopropyl ether
Concen: 50.895 ug/l
RT: 3.757 min Scan# 438
Delta R.T. -0.006 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion: 45 Resp: 221449

Ion	Ratio	Lower	Upper
45	100		
43	83.3	59.3	88.9
87	26.0	20.4	30.6
59	11.4	9.0	13.6





#23
Vinyl Acetate
Concen: 267.449 ug/l
RT: 3.715 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion: 43 Resp: 100542

Ion	Ratio	Lower	Upper
43	100		
86	9.1	7.5	11.3

Instrument :
MSVOA_X
ClientSampleId :
ICVVX040225

Manual Integrations
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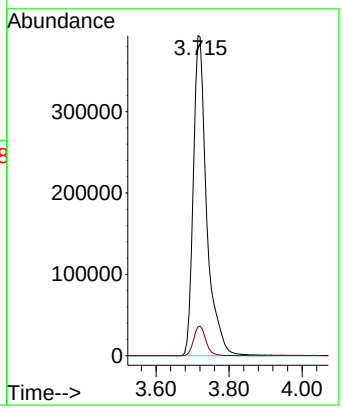
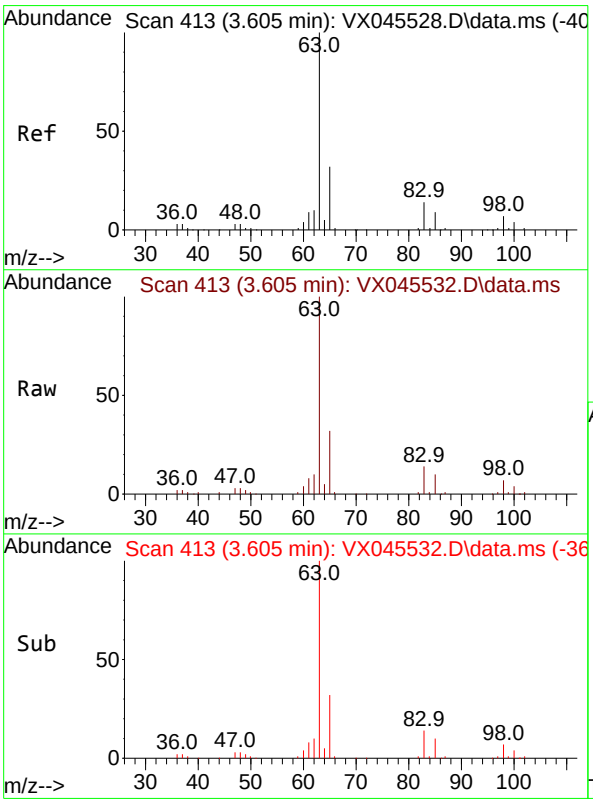
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

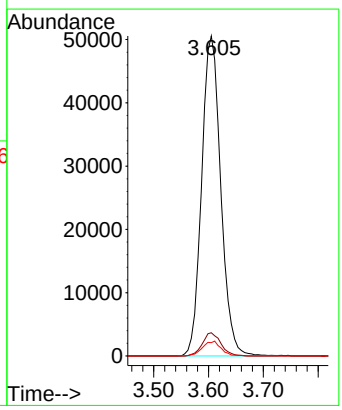


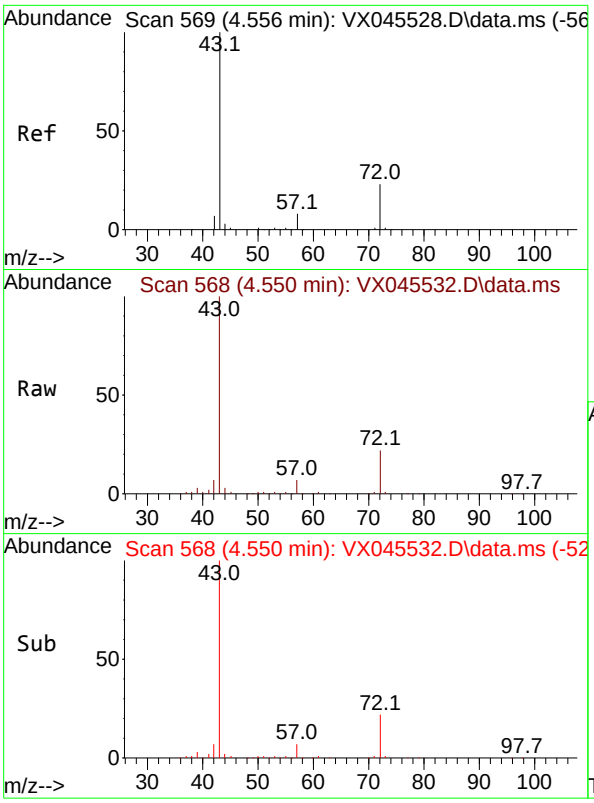


#24
1,1-Dichloroethane
Concen: 49.677 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion: 63 Resp: 122240

Ion	Ratio	Lower	Upper
63	100		
98	7.3	3.4	10.1
100	4.2	2.2	6.6

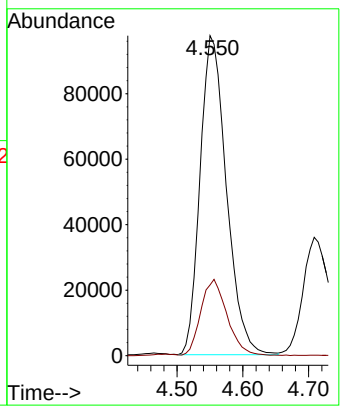




#25
2-Butanone
Concen: 254.882 ug/l
RT: 4.550 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion: 43 Resp: 27168

Ion	Ratio	Lower	Upper
43	100		
72	22.0	18.6	28.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX040225

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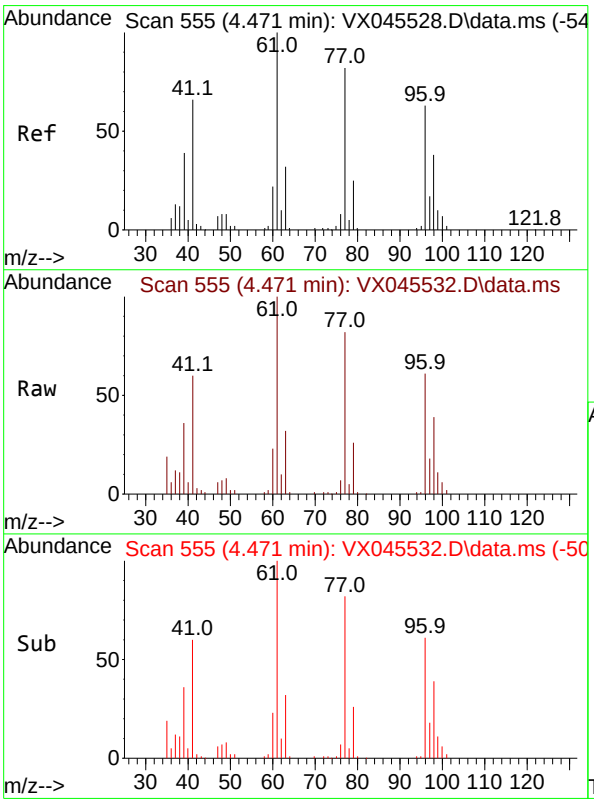
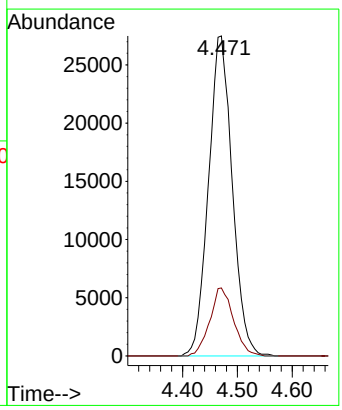
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

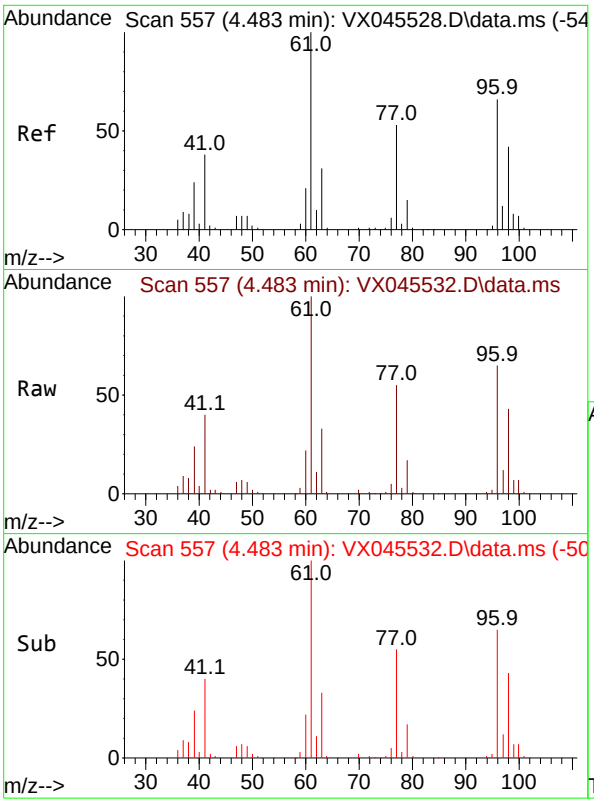


#26
2,2-Dichloropropane
Concen: 52.020 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion: 77 Resp: 82704

Ion	Ratio	Lower	Upper
77	100		
97	21.2	10.6	31.8

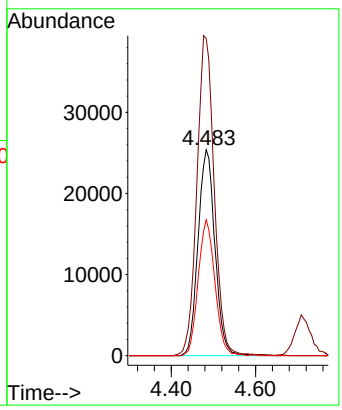




#27
cis-1,2-Dichloroethene
Concen: 49.049 ug/l
RT: 4.483 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion: 96 Resp: 7107

Ion	Ratio	Lower	Upper
96	100		
61	158.6	0.0	313.2
98	65.1	0.0	126.4



Instrument :
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ClientSampleId :
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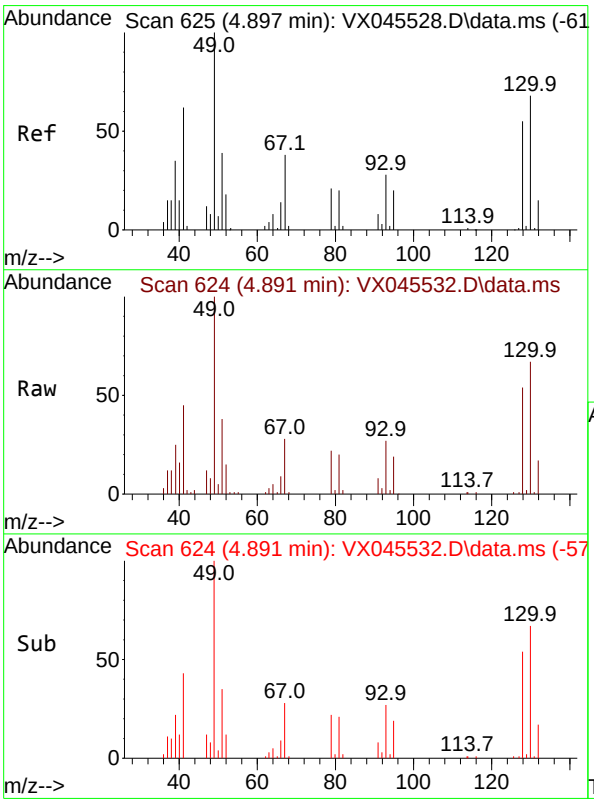
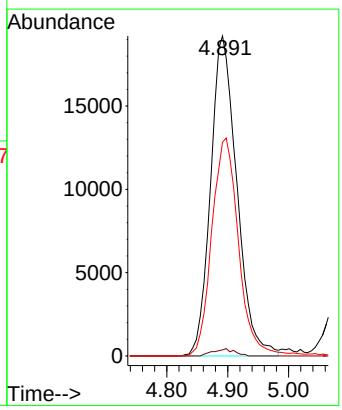
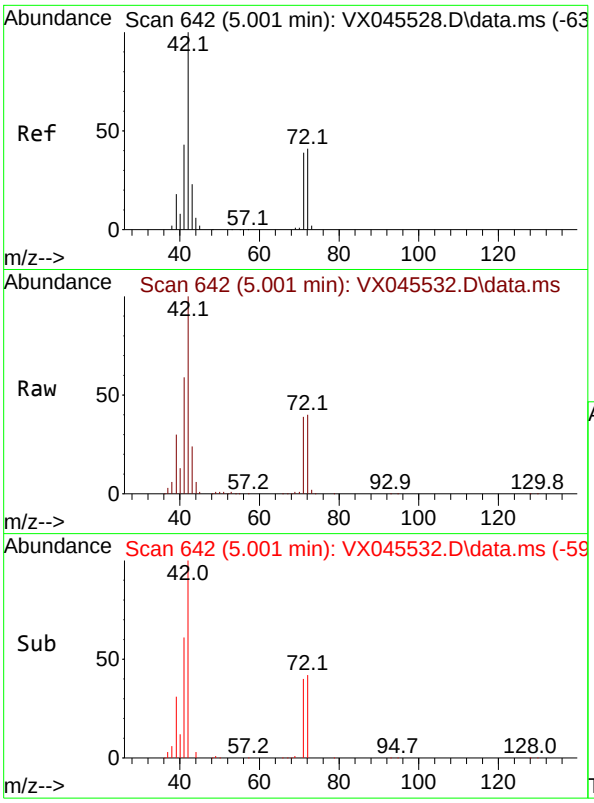


#28
Bromochloromethane
Concen: 48.403 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion: 49 Resp: 57557

Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	3.8
130	69.3	54.6	81.8





#29
Tetrahydrofuran
Concen: 249.473 ug/l
RT: 5.001 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion: 42 Resp: 17240

Ion	Ratio	Lower	Upper
42	100		
72	41.7	33.4	50.0
71	39.0	31.4	47.0

Instrument :
MSVOA_X
ClientSampleId :
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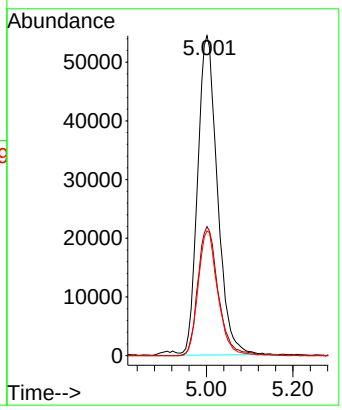
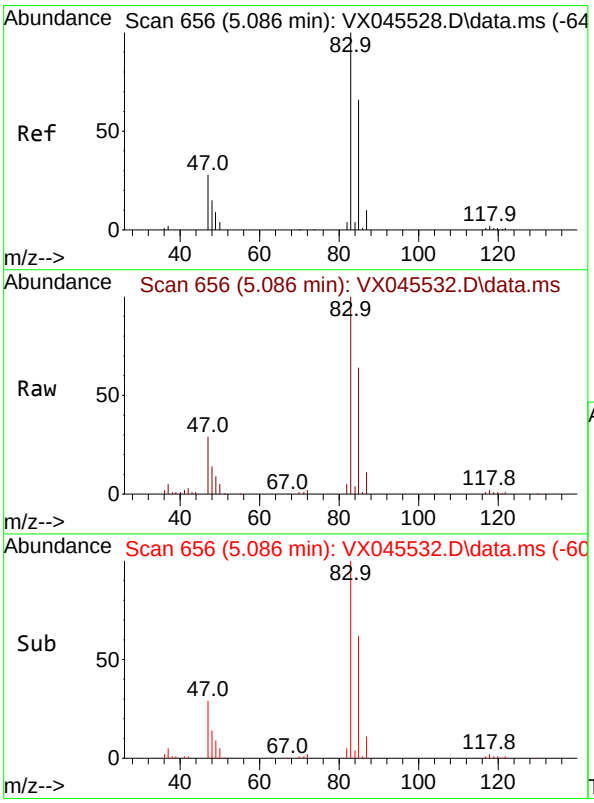
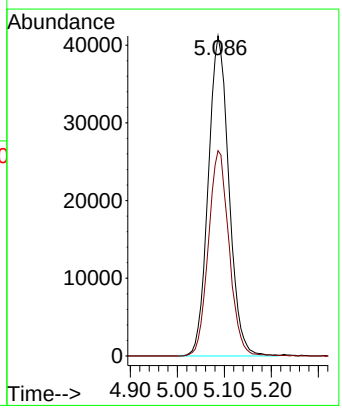


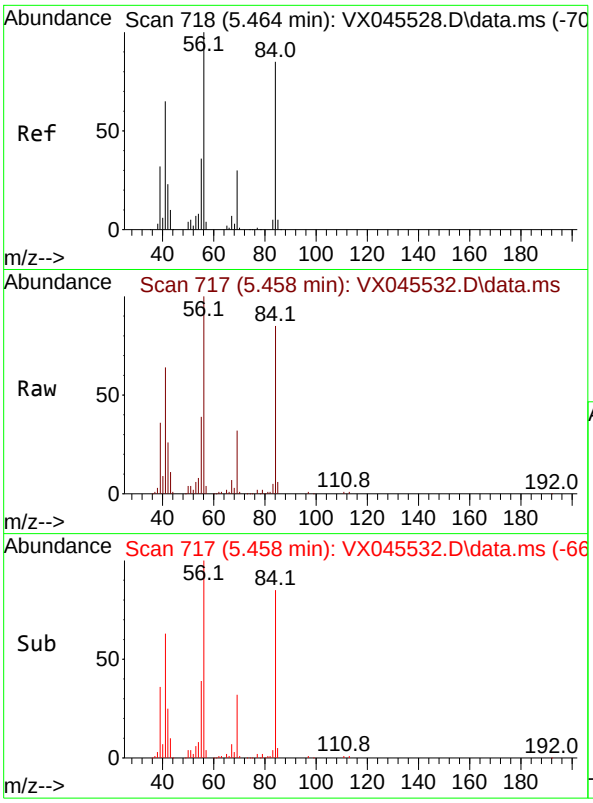


#30
Chloroform
Concen: 49.614 ug/l
RT: 5.086 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion: 83 Resp: 125621

Ion	Ratio	Lower	Upper
83	100		
85	64.2	52.8	79.2

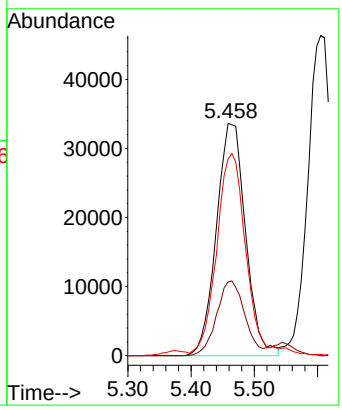




#31
Cyclohexane
Concen: 49.583 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion: 56 Resp: 10786

Ion	Ratio	Lower	Upper
56	100		
69	31.7	23.6	35.4
84	82.7	67.7	101.5



Instrument :
MSVOA_X
ClientSampleId :
ICVVX040225

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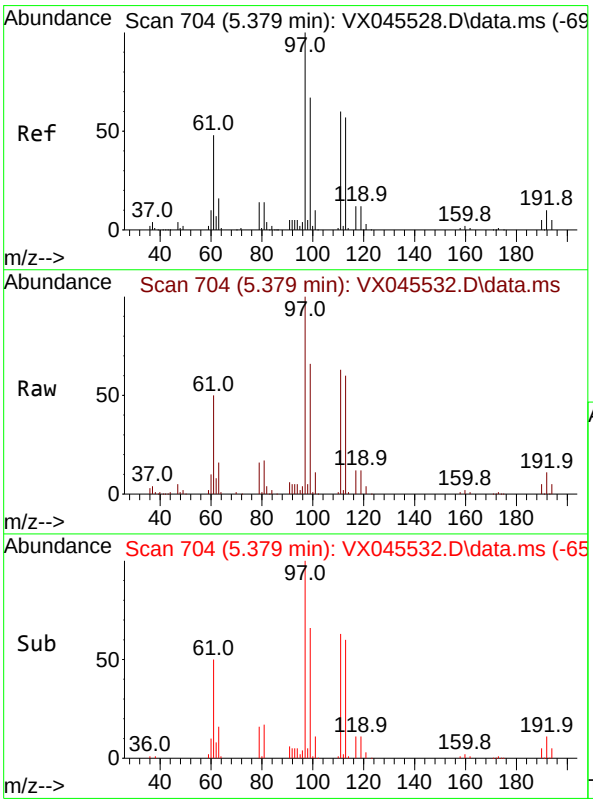
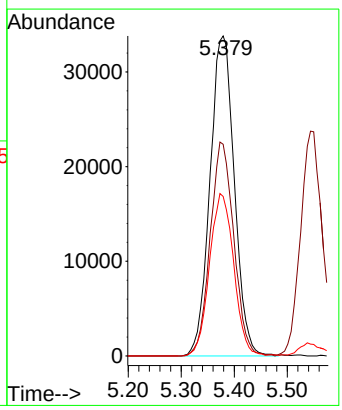
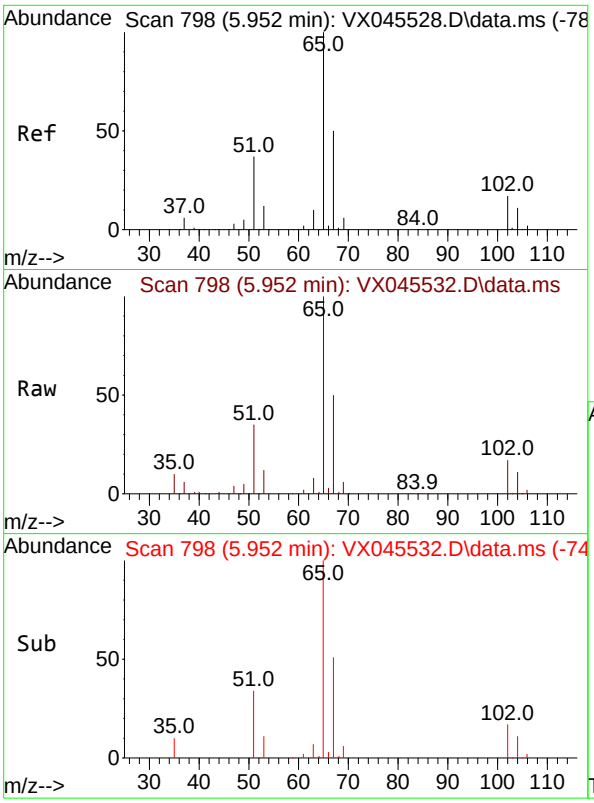


#32
1,1,1-Trichloroethane
Concen: 50.330 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion: 97 Resp: 107830

Ion	Ratio	Lower	Upper
97	100		
99	64.9	51.7	77.5
61	50.5	41.0	61.4

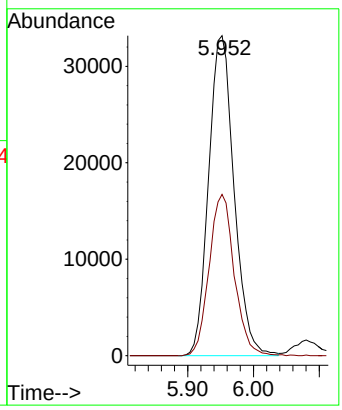




#33
1,2-Dichloroethane-d4
Concen: 50.329 ug/l
RT: 5.952 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion: 65 Resp: 8925

Ion	Ratio	Lower	Upper
65	100		
67	49.8	0.0	99.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX040225

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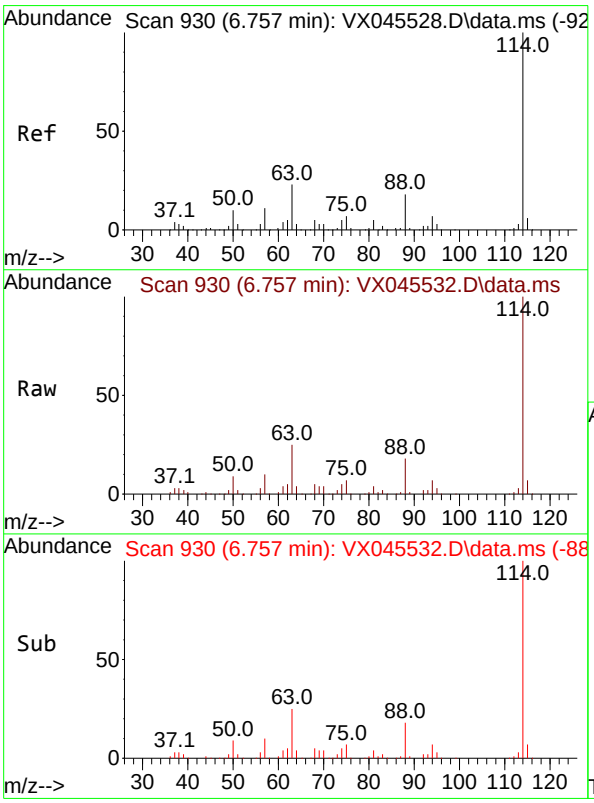
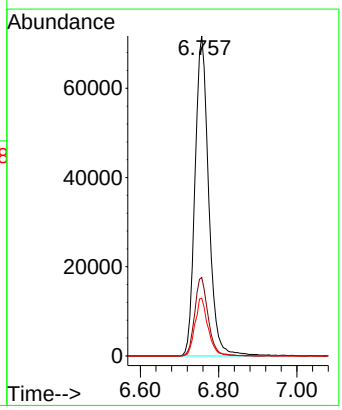
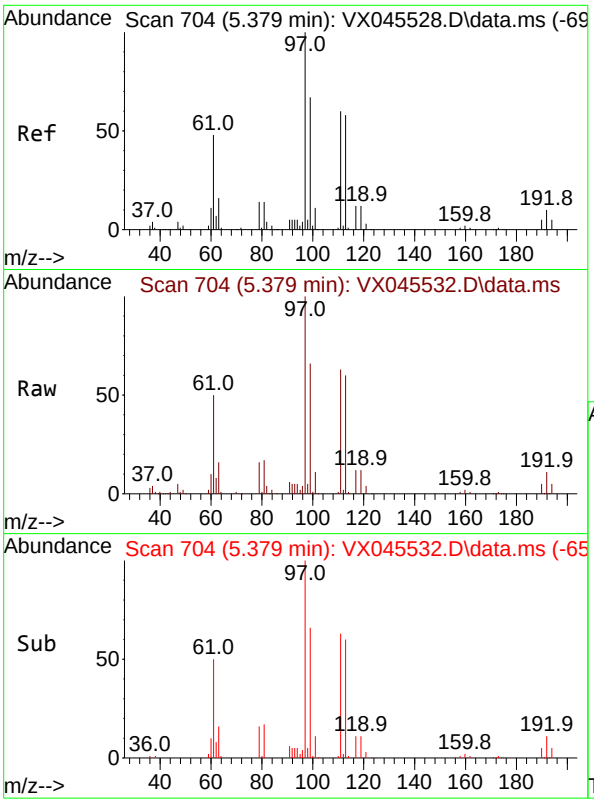


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion:114 Resp: 174855

Ion	Ratio	Lower	Upper
114	100		
63	24.5	0.0	46.8
88	18.1	0.0	35.4

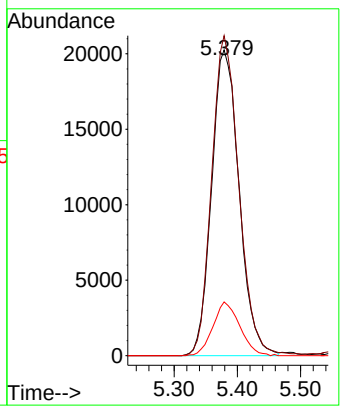




#35
Dibromofluoromethane
Concen: 49.256 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion:113 Resp: 6110

Ion	Ratio	Lower	Upper
113	100		
111	103.5	81.8	122.6
192	17.2	13.8	20.6



Instrument :
MSVOA_X
ClientSampleId :
ICVVX040225

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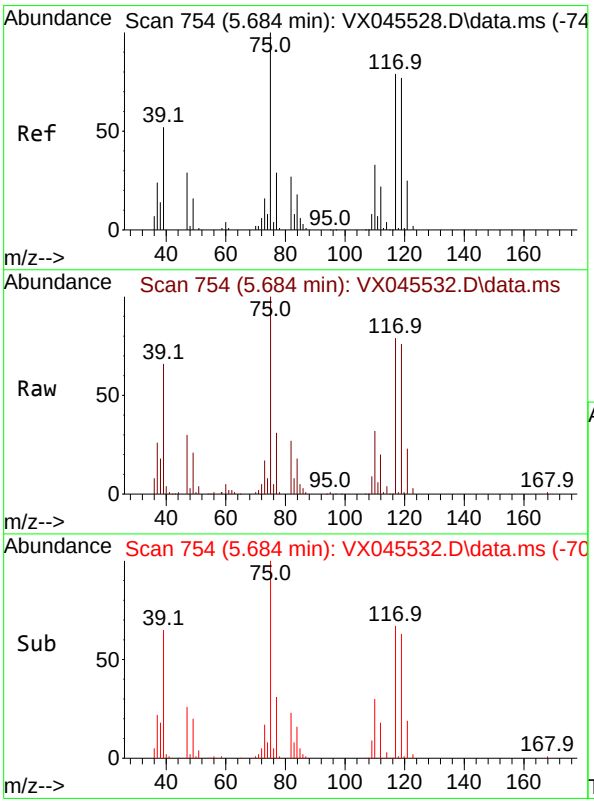
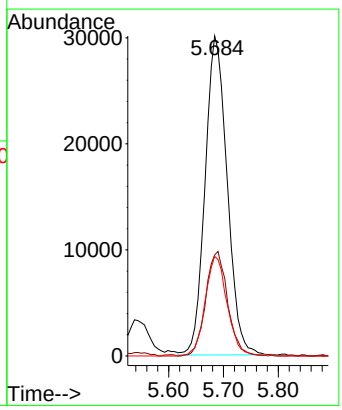
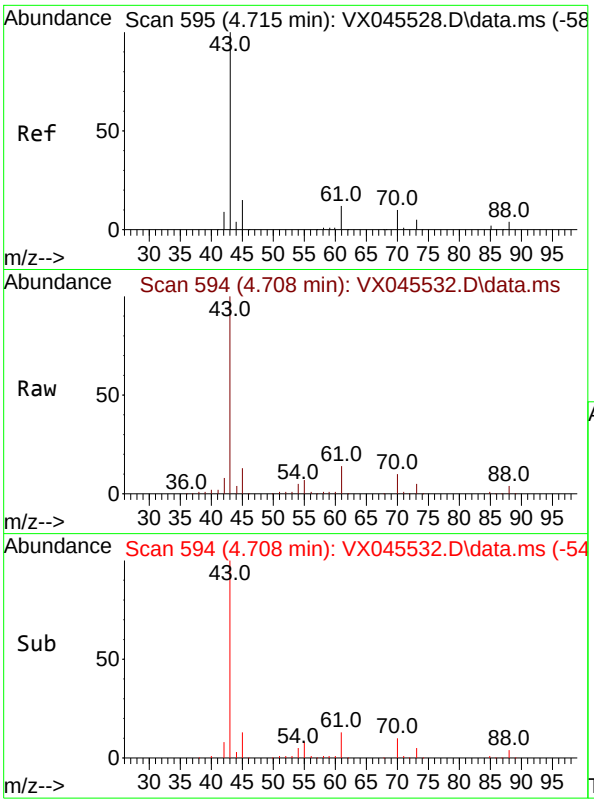


#36
1,1-Dichloropropene
Concen: 50.088 ug/l
RT: 5.684 min Scan# 754
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion: 75 Resp: 83901

Ion	Ratio	Lower	Upper
75	100		
110	32.5	16.9	50.6
77	31.1	25.0	37.4

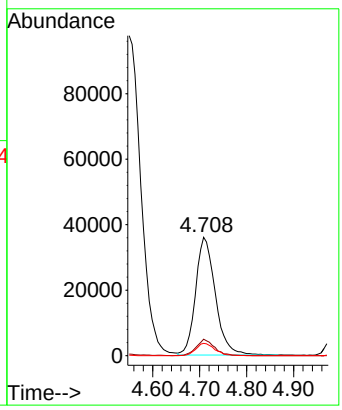




#37
Ethyl Acetate
Concen: 49.787 ug/l
RT: 4.708 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion: 43 Resp: 10509

Ion	Ratio	Lower	Upper
43	100		
61	12.9	9.9	14.9
70	10.2	7.5	11.3



Instrument :
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ClientSampleId :
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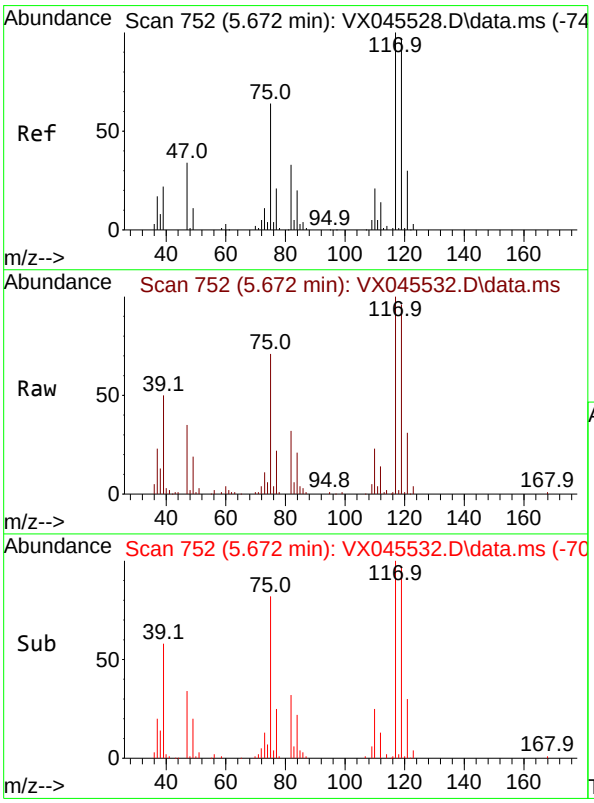
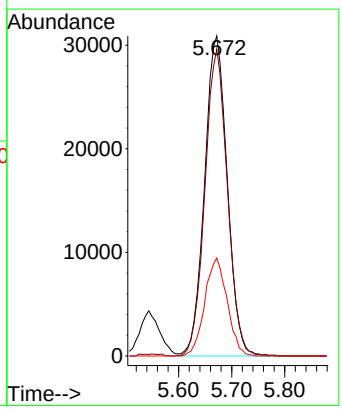
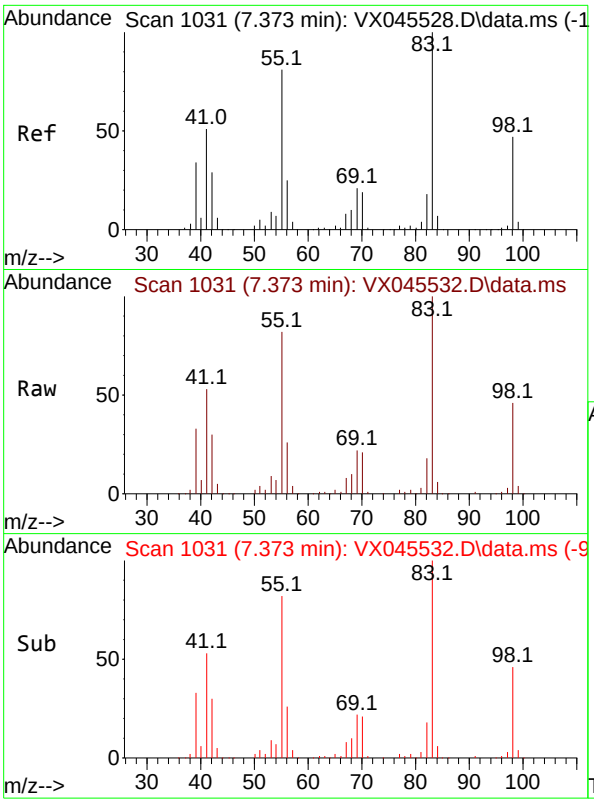


#38
Carbon Tetrachloride
Concen: 50.667 ug/l
RT: 5.672 min Scan# 752
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion:117 Resp: 91723

Ion	Ratio	Lower	Upper
117	100		
119	95.9	76.9	115.3
121	30.6	24.2	36.2

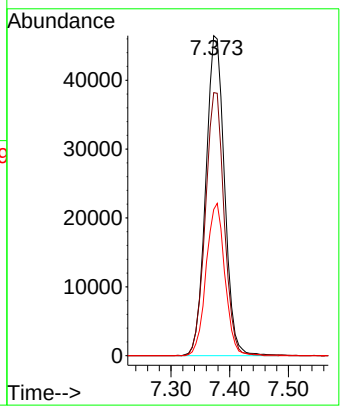




#39
Methylcyclohexane
Concen: 50.124 ug/l
RT: 7.373 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion: 83 Resp: 10291

Ion	Ratio	Lower	Upper
83	100		
55	82.1	64.9	97.3
98	45.7	37.4	56.0



Instrument :
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ClientSampleId :
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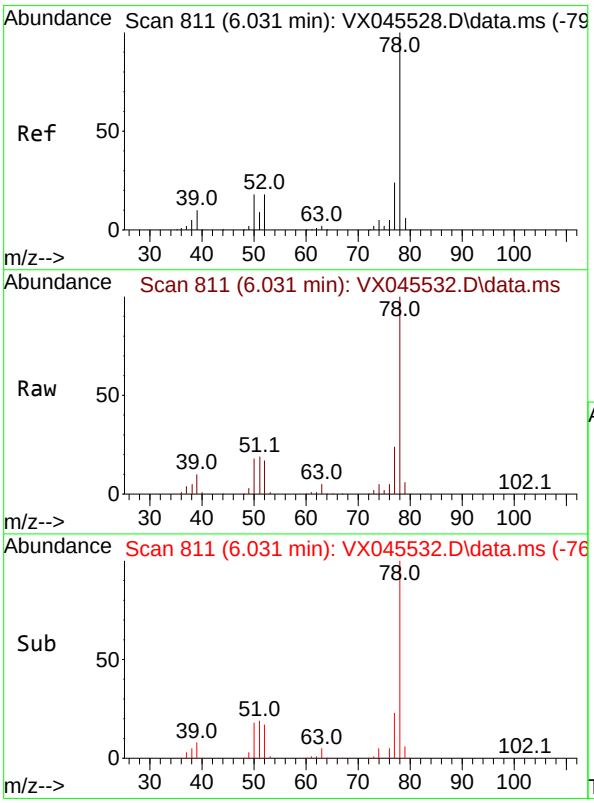
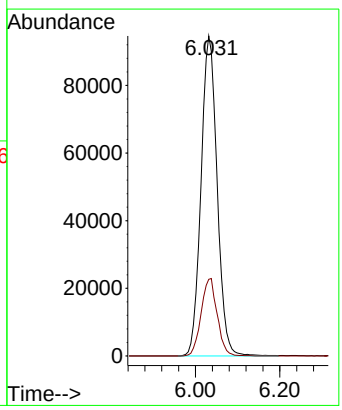
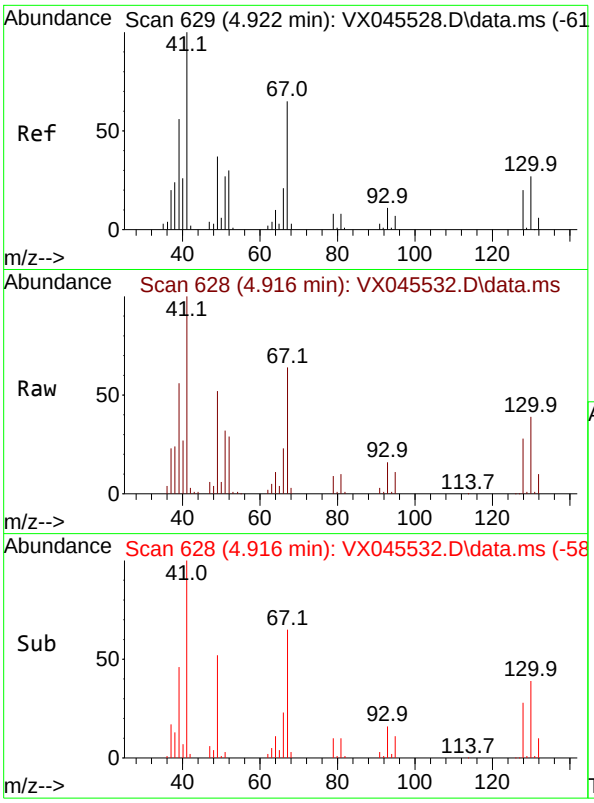


#40
Benzene
Concen: 49.212 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion: 78 Resp: 251758

Ion	Ratio	Lower	Upper
78	100		
77	24.0	19.0	28.6

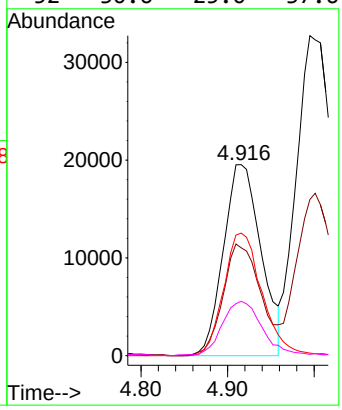




#41
Methacrylonitrile
Concen: 53.098 ug/l
RT: 4.916 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion: 41 Resp: 5914

Ion	Ratio	Lower	Upper
41	100		
39	58.5	47.0	70.6
67	65.5	53.2	79.8
52	30.6	25.0	37.6



Instrument :
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ClientSampleId :
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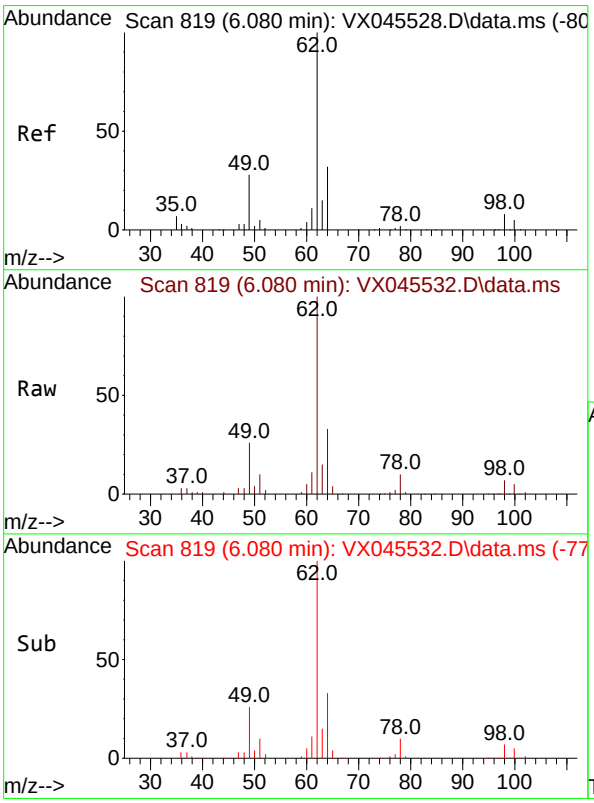
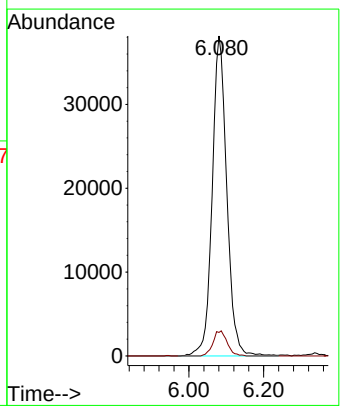
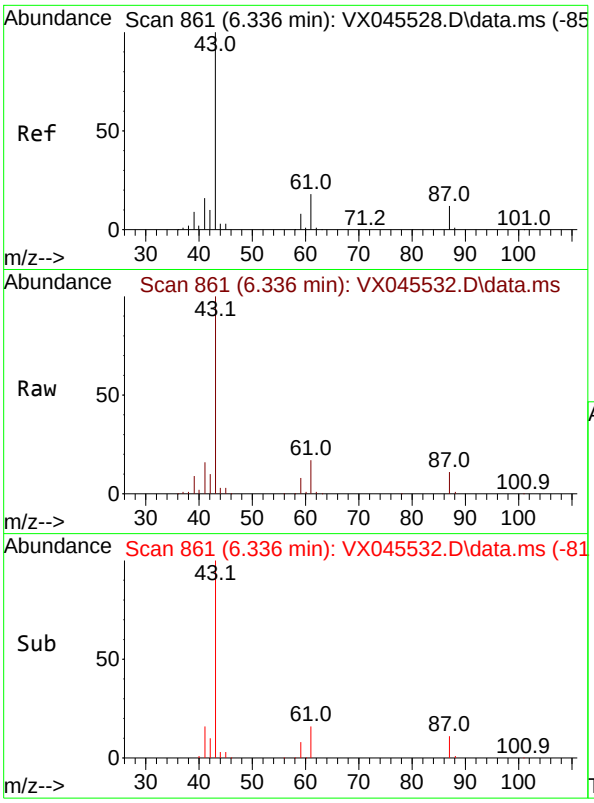


#42
1,2-Dichloroethane
Concen: 48.875 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion: 62 Resp: 103270

Ion	Ratio	Lower	Upper
62	100		
98	7.6	0.0	15.2

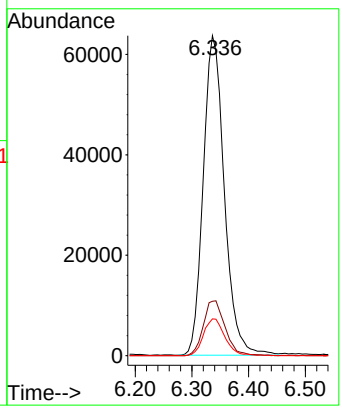




#43
Isopropyl Acetate
Concen: 51.539 ug/l
RT: 6.336 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion: 43 Resp: 16489

Ion	Ratio	Lower	Upper
43	100		
61	17.7	14.1	21.1
87	11.6	9.2	13.8



Instrument :
MSVOA_X
ClientSampleId :
ICVVX040225

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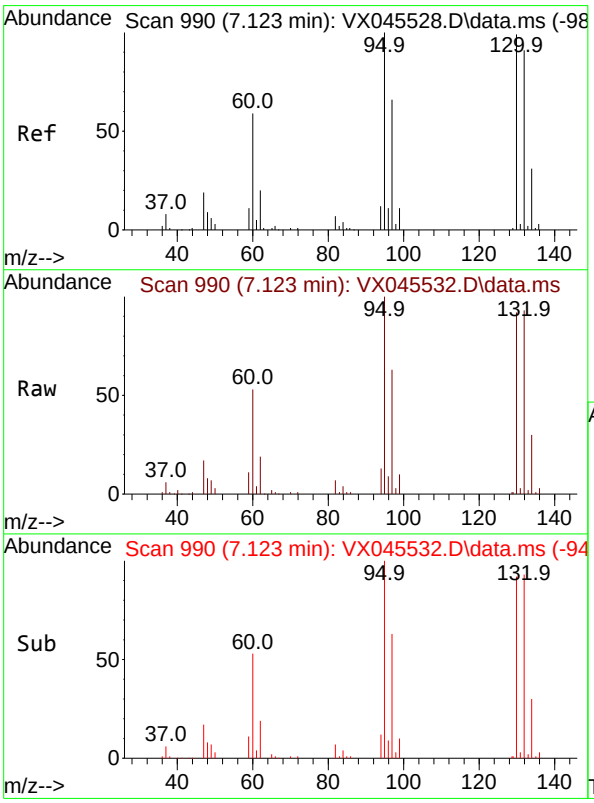
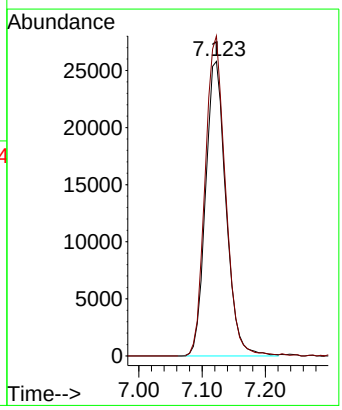
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

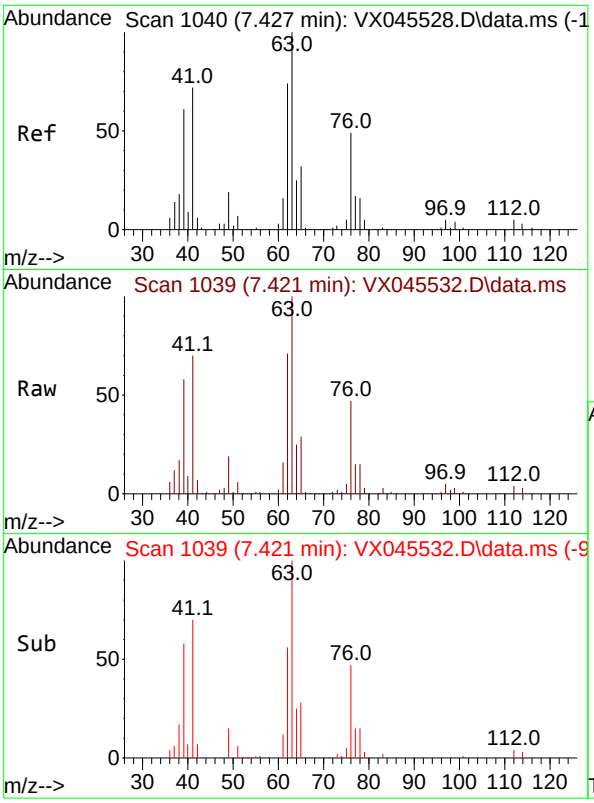


#44
Trichloroethene
Concen: 47.643 ug/l
RT: 7.123 min Scan# 990
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion:130 Resp: 57931

Ion	Ratio	Lower	Upper
130	100		
95	108.6	0.0	202.0

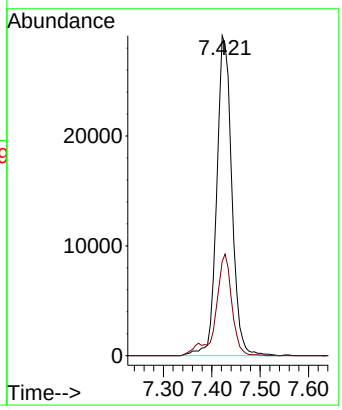




#45
1,2-Dichloropropane
Concen: 49.521 ug/l
RT: 7.421 min Scan# 1(
Delta R.T. -0.006 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion: 63 Resp: 6321(

Ion	Ratio	Lower	Upper
63	100		
65	29.5	25.8	38.6



Instrument :
MSVOA_X
ClientSampleId :
ICVVX040225

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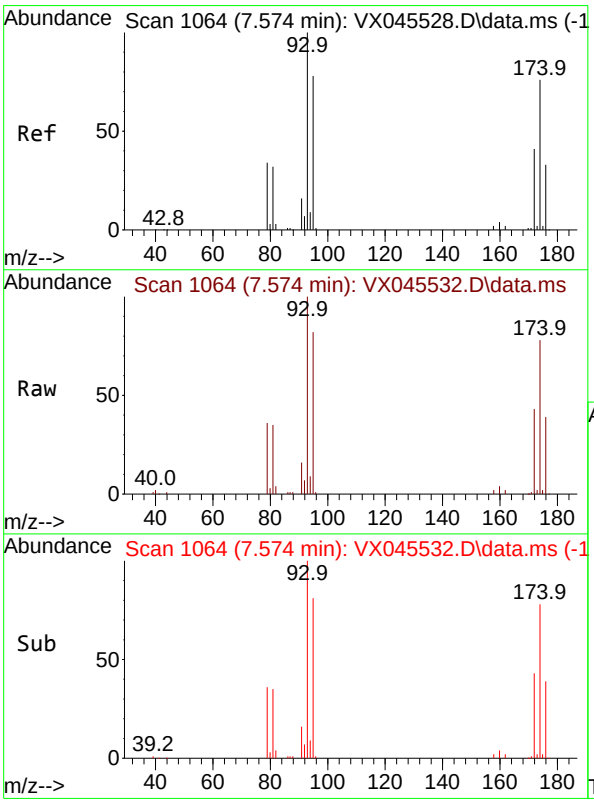
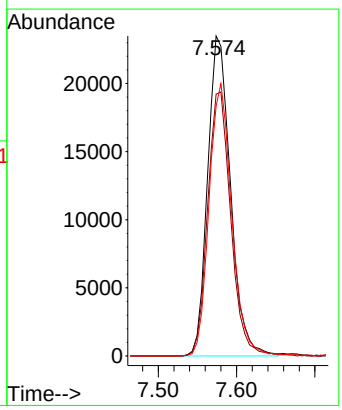
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

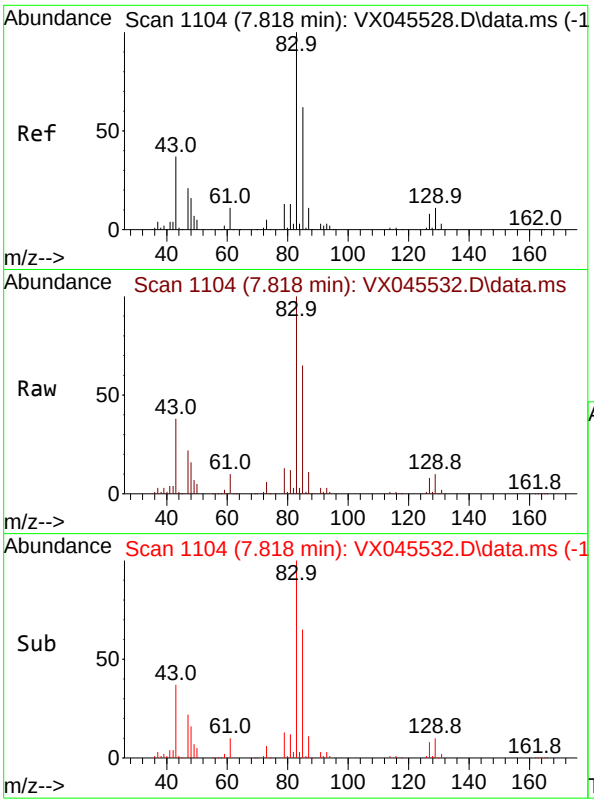


#46
Dibromomethane
Concen: 48.542 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion: 93 Resp: 47564

Ion	Ratio	Lower	Upper
93	100		
95	83.6	64.8	97.2
174	84.5	65.4	98.0

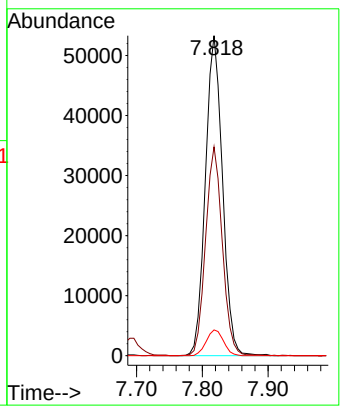




#47
Bromodichloromethane
Concen: 49.273 ug/l
RT: 7.818 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion: 83 Resp: 9641

Ion	Ratio	Lower	Upper
83	100		
85	65.2	49.7	74.5
127	8.1	6.1	9.1



Instrument :
MSVOA_X
ClientSampleId :
ICVVX040225

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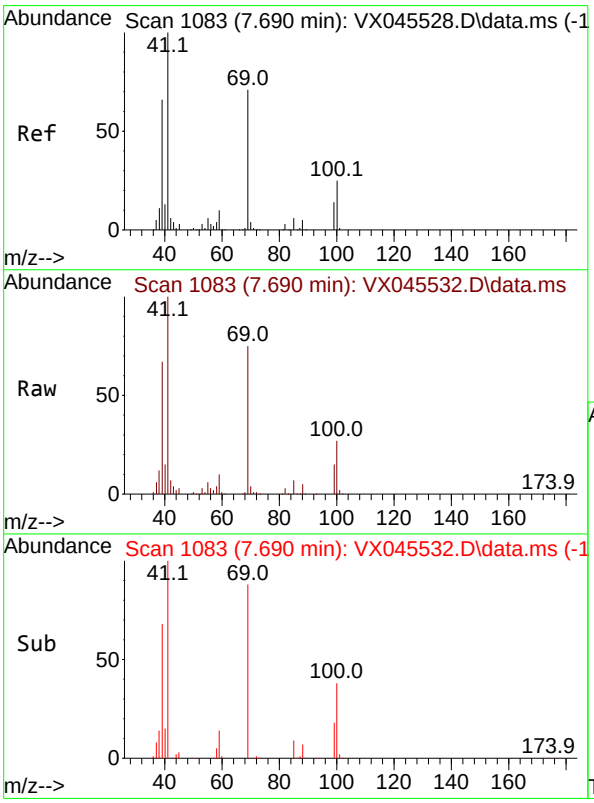
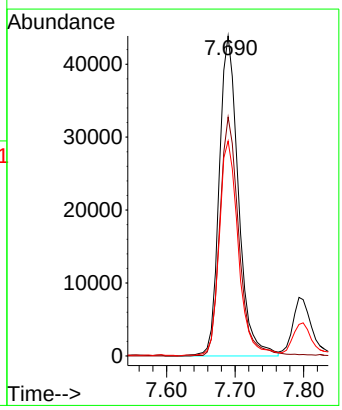
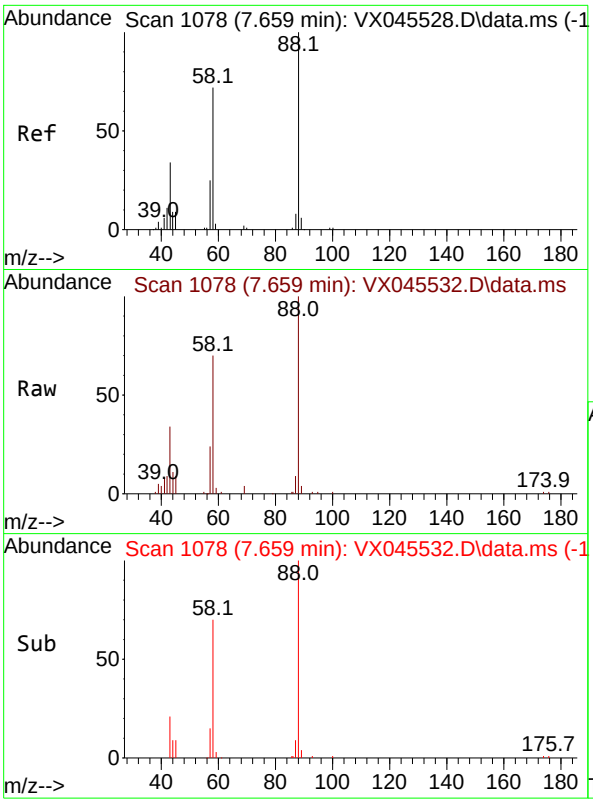


#48
Methyl methacrylate
Concen: 51.507 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion: 41 Resp: 85084

Ion	Ratio	Lower	Upper
41	100		
69	74.5	58.2	87.2
39	67.3	53.6	80.4





#49
1,4-Dioxane
Concen: 955.327 ug/l
RT: 7.659 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion: 88 Resp: 2855

Ion	Ratio	Lower	Upper
88	100		
43	40.3	32.2	48.4
58	72.2	58.6	88.0

Instrument :
MSVOA_X
ClientSampleId :
ICVVX040225

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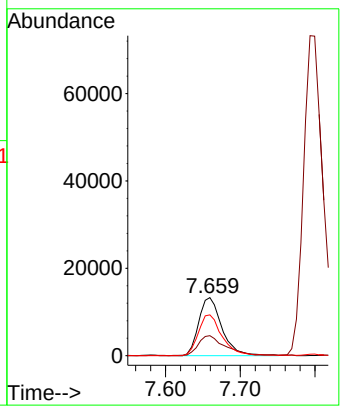
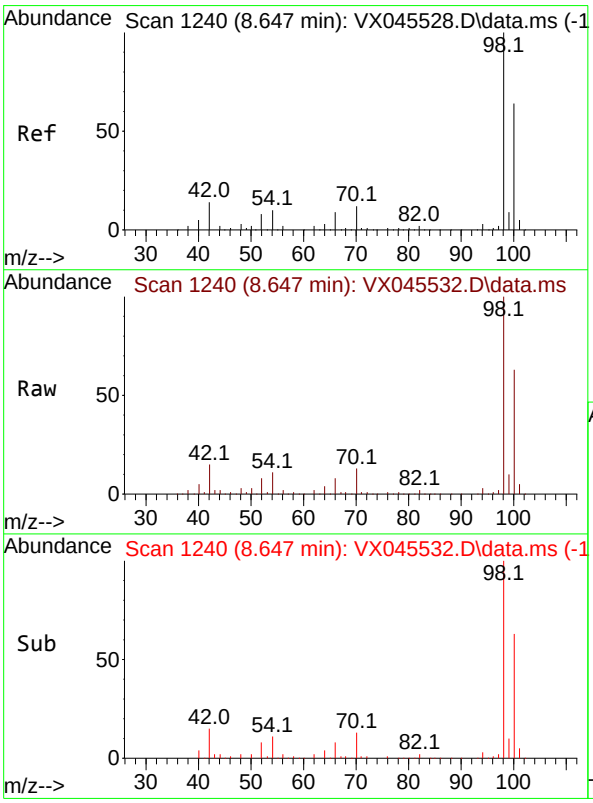
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

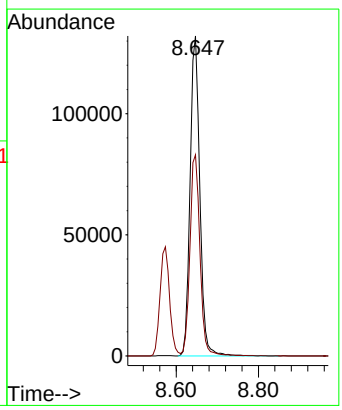


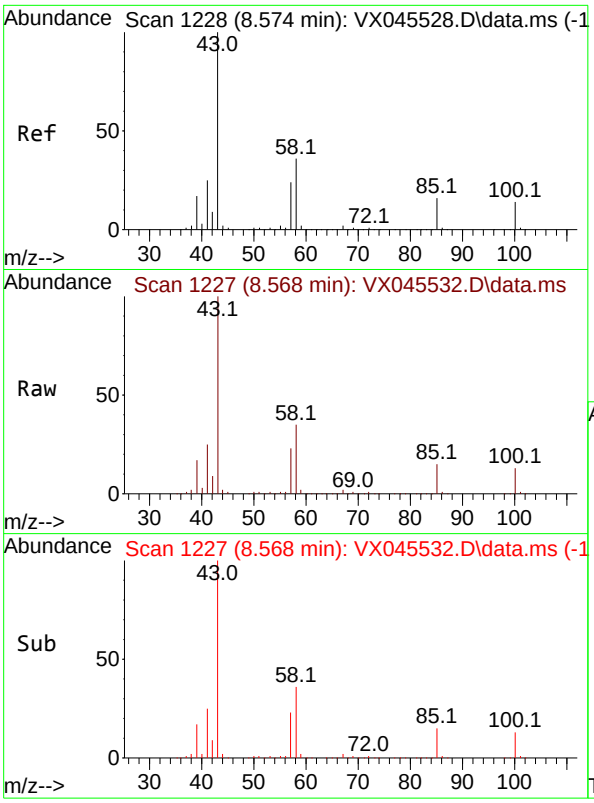


#50
Toluene-d8
Concen: 50.160 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion: 98 Resp: 217200

Ion	Ratio	Lower	Upper
98	100		
100	64.9	52.2	78.4

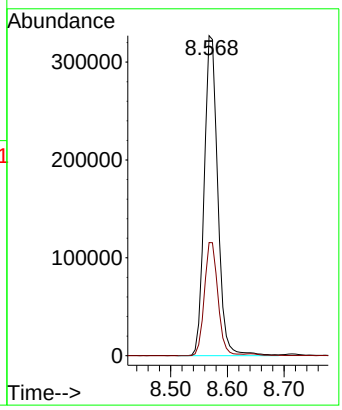




#51
4-Methyl-2-Pentanone
Concen: 254.994 ug/l
RT: 8.568 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion: 43 Resp: 54082

Ion	Ratio	Lower	Upper
43	100		
58	35.5	28.5	42.7



Instrument :
MSVOA_X
ClientSampleId :
ICVVX040225

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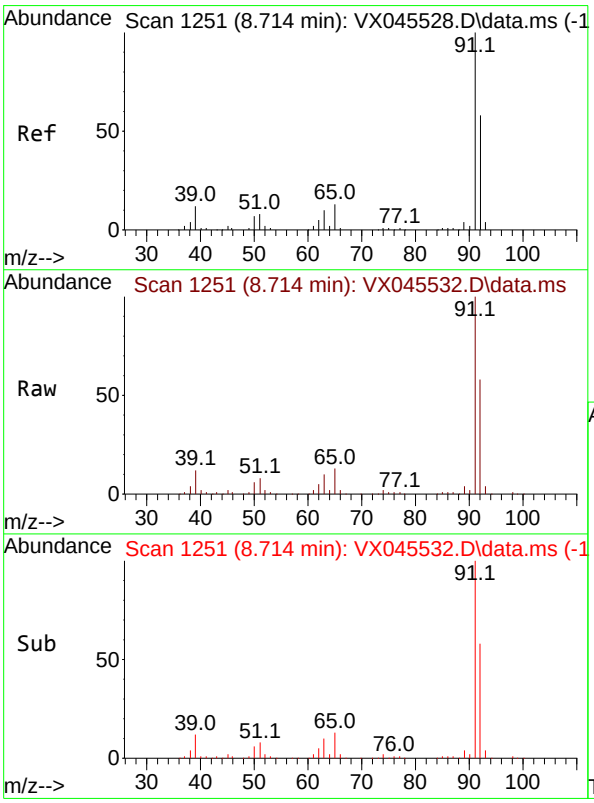
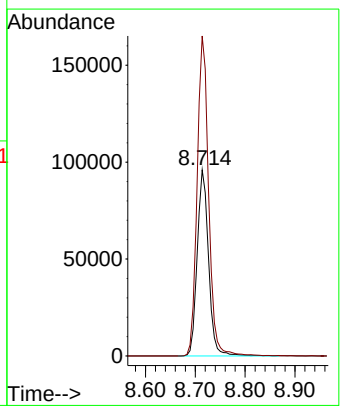
Supervised By :Mahesh Dadoda 04/02/2025

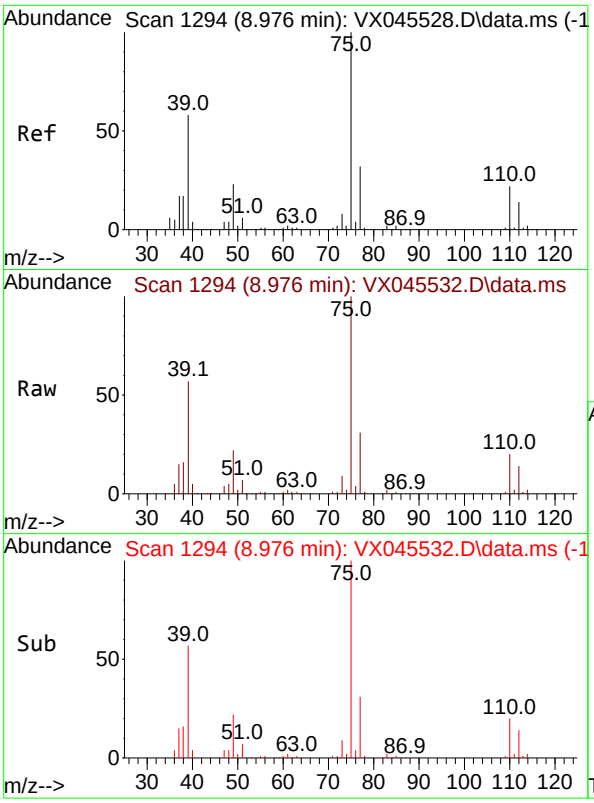


#52
Toluene
Concen: 48.994 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion: 92 Resp: 151664

Ion	Ratio	Lower	Upper
92	100		
91	174.0	138.7	208.1

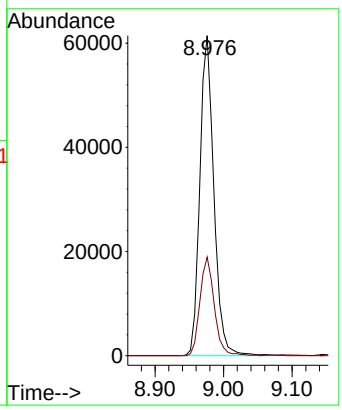




#53
t-1,3-Dichloropropene
Concen: 46.783 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion: 75 Resp: 8774

Ion	Ratio	Lower	Upper
75	100		
77	30.8	25.4	38.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX040225

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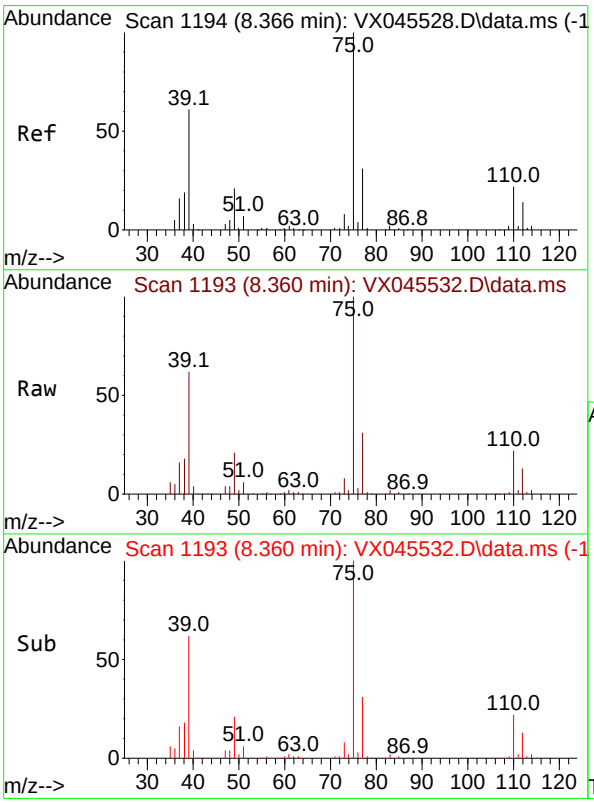
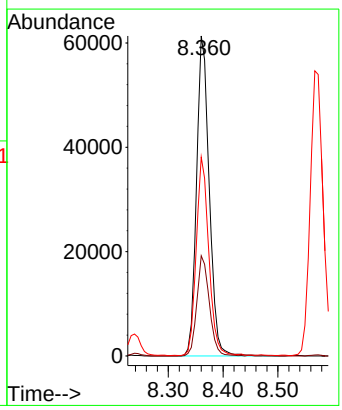
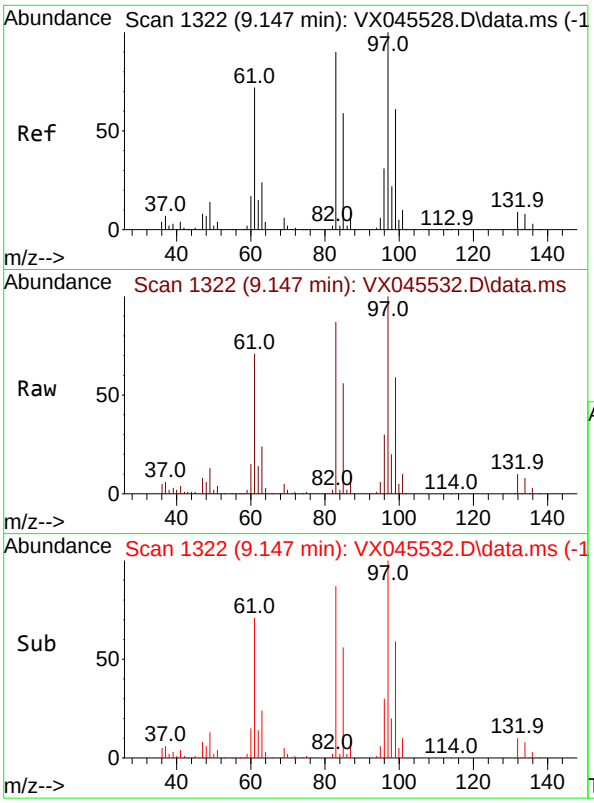


#54
cis-1,3-Dichloropropene
Concen: 53.878 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. -0.006 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion: 75 Resp: 99074

Ion	Ratio	Lower	Upper
75	100		
77	31.3	24.6	36.8
39	62.0	48.4	72.6

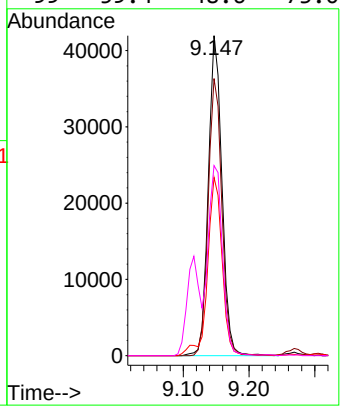




#55
1,1,2-Trichloroethane
Concen: 49.007 ug/l
RT: 9.147 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion: 97 Resp: 6045

Ion	Ratio	Lower	Upper
97	100		
83	86.6	71.8	107.8
85	55.7	47.0	70.6
99	59.4	48.6	73.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX040225

Manual Integrations
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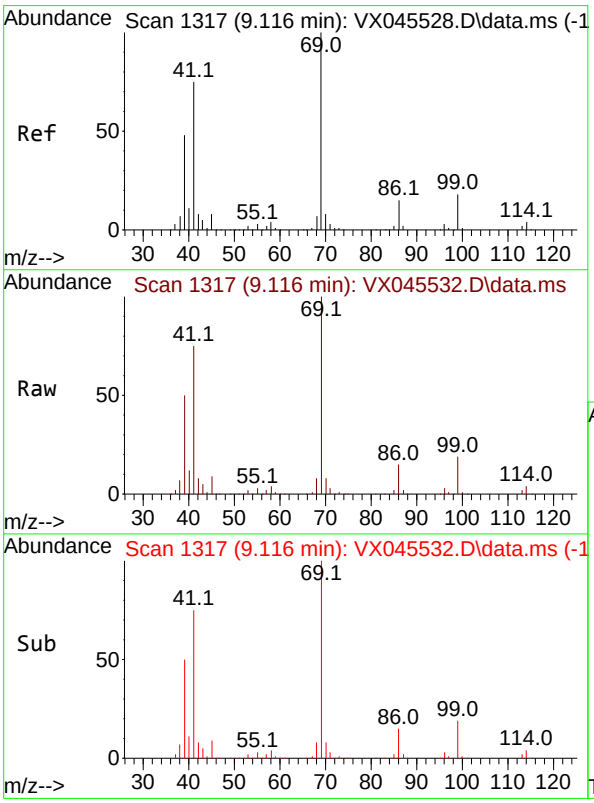
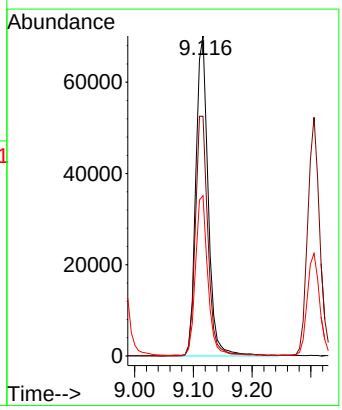
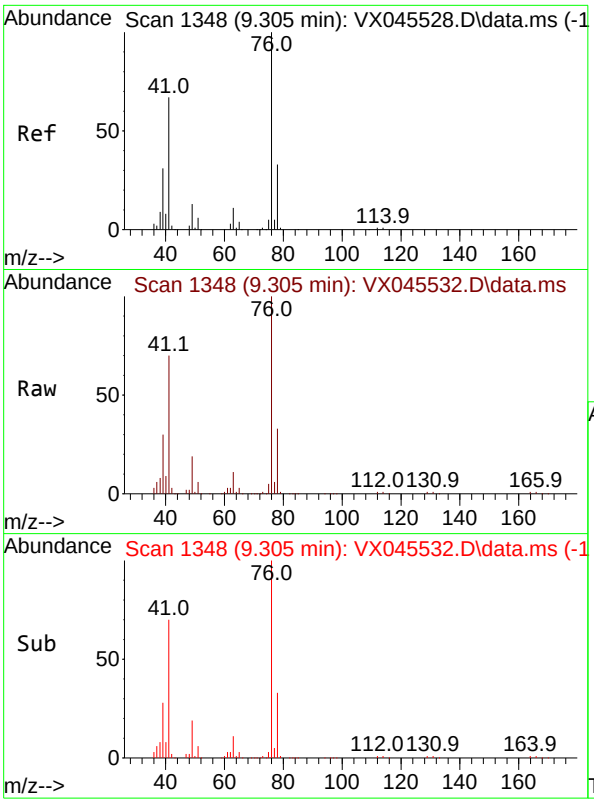


#56
Ethyl methacrylate
Concen: 53.705 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion: 69 Resp: 102525

Ion	Ratio	Lower	Upper
69	100		
41	76.7	61.3	91.9
39	50.7	40.2	60.2

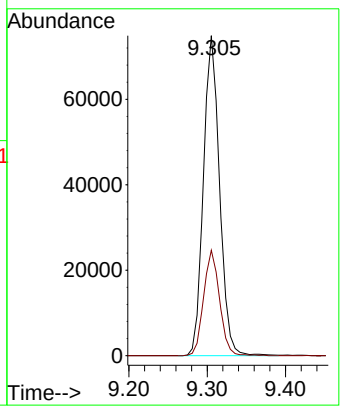




#57
1,3-Dichloropropane
Concen: 49.869 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion: 76 Resp: 10712

Ion	Ratio	Lower	Upper
76	100		
78	32.5	26.0	39.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX040225

Manual Integrations
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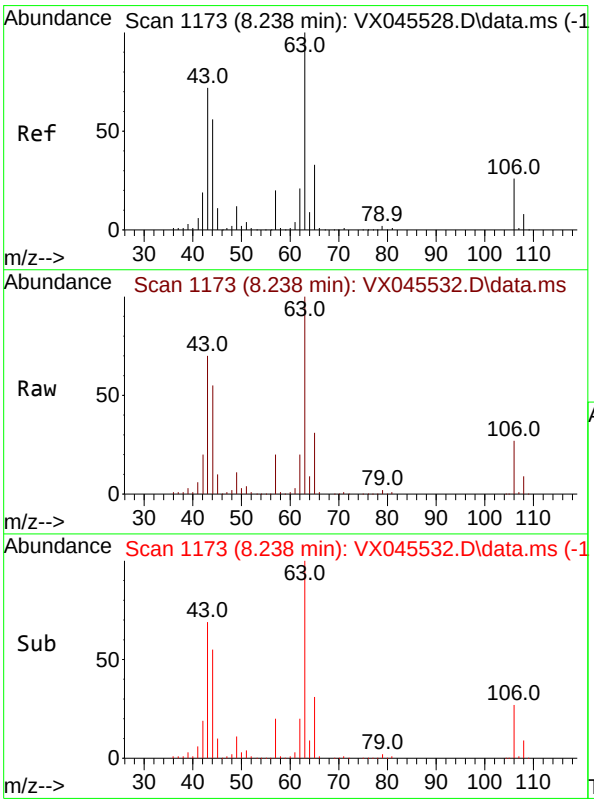
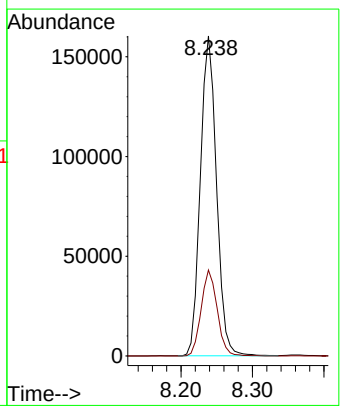
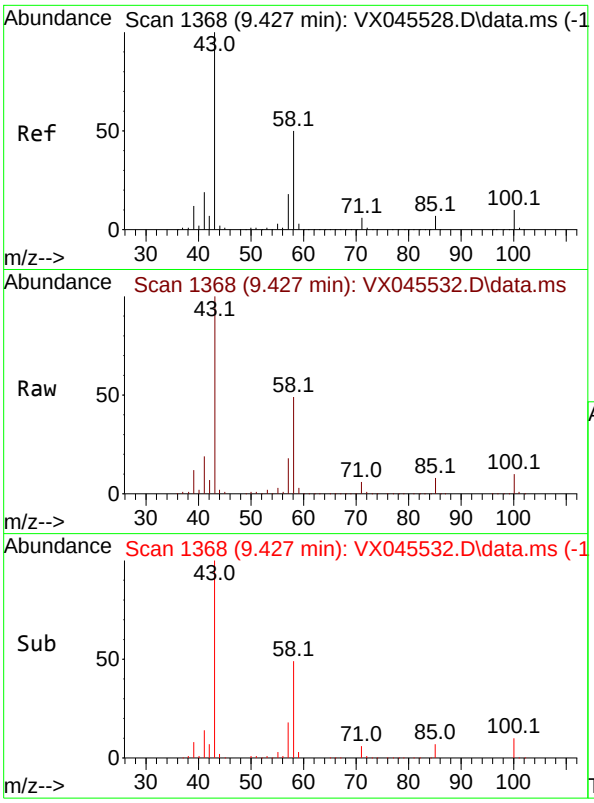


#58
2-Chloroethyl Vinyl ether
Concen: 260.201 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion: 63 Resp: 251285

Ion	Ratio	Lower	Upper
63	100		
106	26.6	21.0	31.6

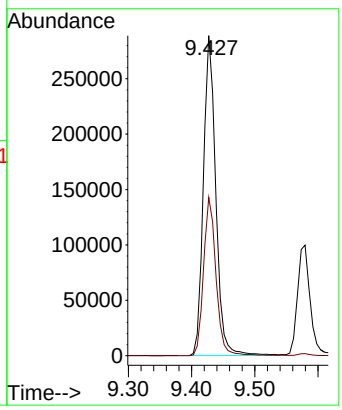




#59
2-Hexanone
Concen: 251.710 ug/l
RT: 9.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion: 43 Resp: 39533

Ion	Ratio	Lower	Upper
43	100		
58	49.8	24.9	74.6



Instrument :
MSVOA_X
ClientSampleId :
ICVVX040225

Manual Integrations
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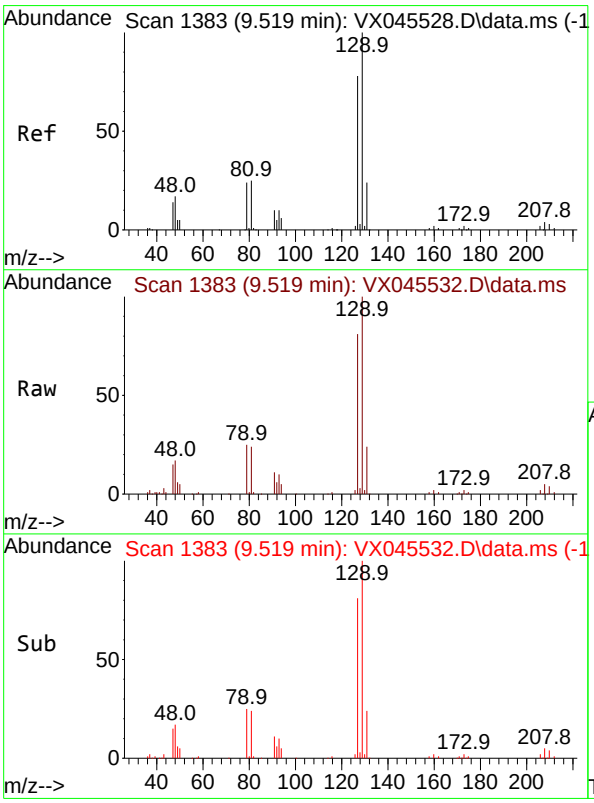
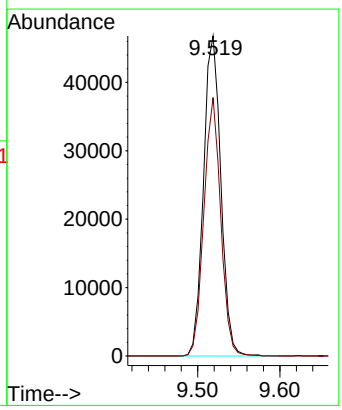
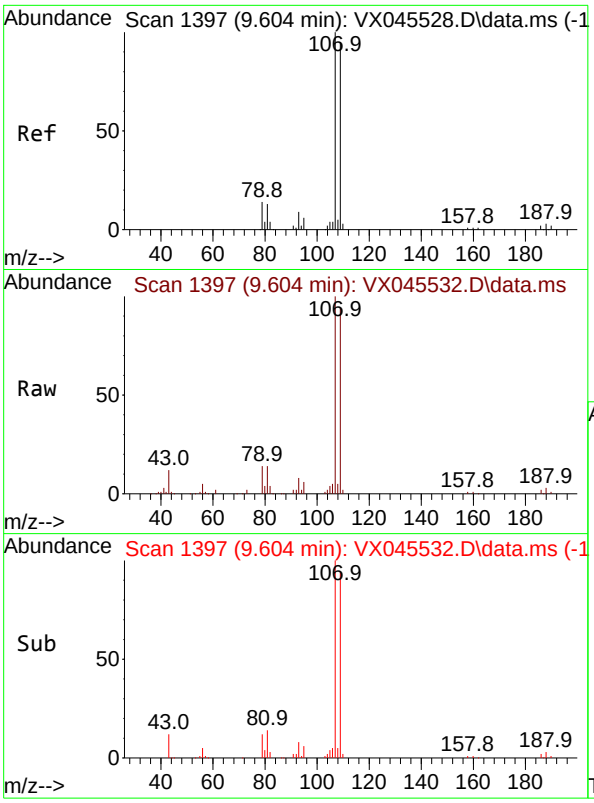


#60
Dibromochloromethane
Concen: 50.983 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion:129 Resp: 68562

Ion	Ratio	Lower	Upper
129	100		
127	78.2	39.4	118.2

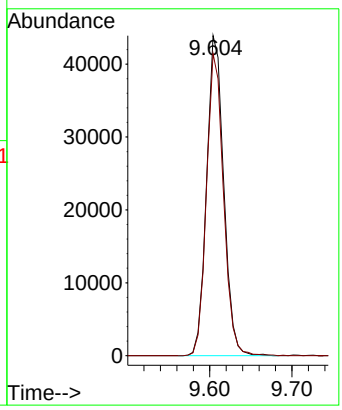




#61
1,2-Dibromoethane
Concen: 50.693 ug/l
RT: 9.604 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion:107 Resp: 6330

Ion	Ratio	Lower	Upper
107	100		
109	94.2	75.7	113.5



Instrument :
MSVOA_X
ClientSampleId :
ICVVX040225

Manual Integrations
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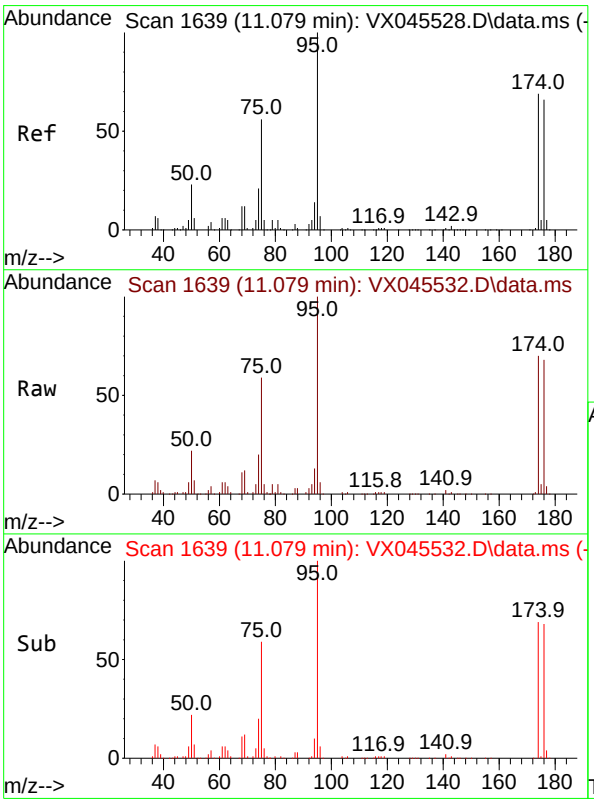
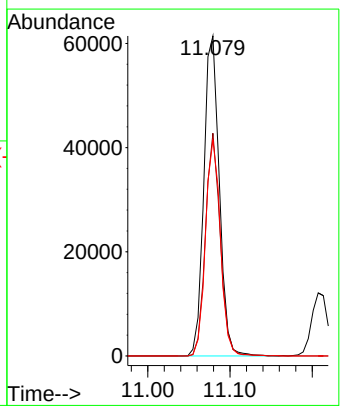
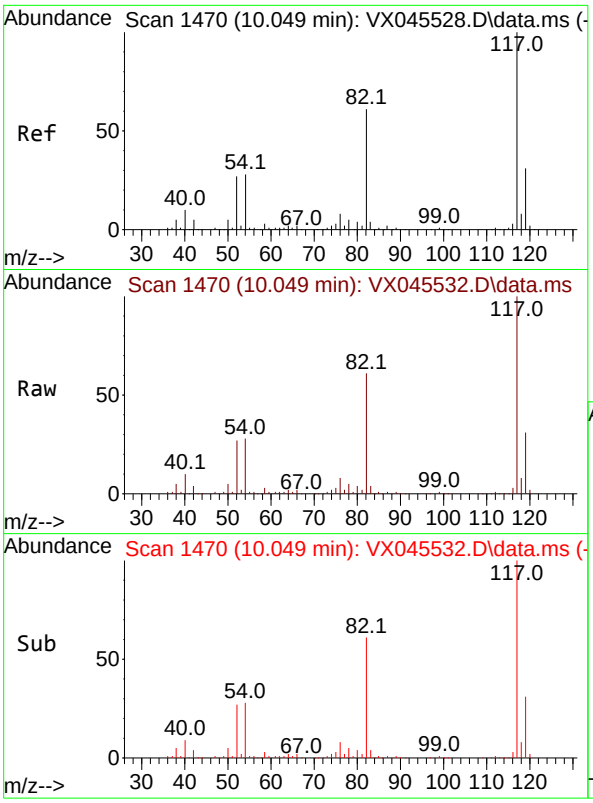


#62
4-Bromofluorobenzene
Concen: 50.959 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion: 95 Resp: 80376

Ion	Ratio	Lower	Upper
95	100		
174	66.4	0.0	135.8
176	65.2	0.0	131.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion:117 Resp: 15241

Ion	Ratio	Lower	Upper
117	100		
82	61.4	49.2	73.8
119	31.5	25.1	37.7

Instrument :
MSVOA_X
ClientSampleId :
ICVVX040225

Manual Integrations
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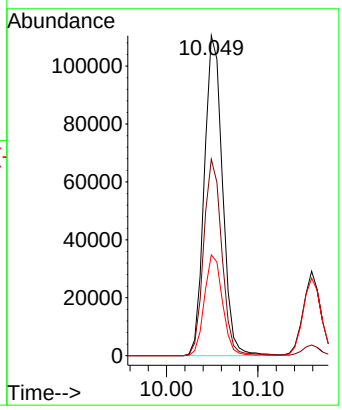
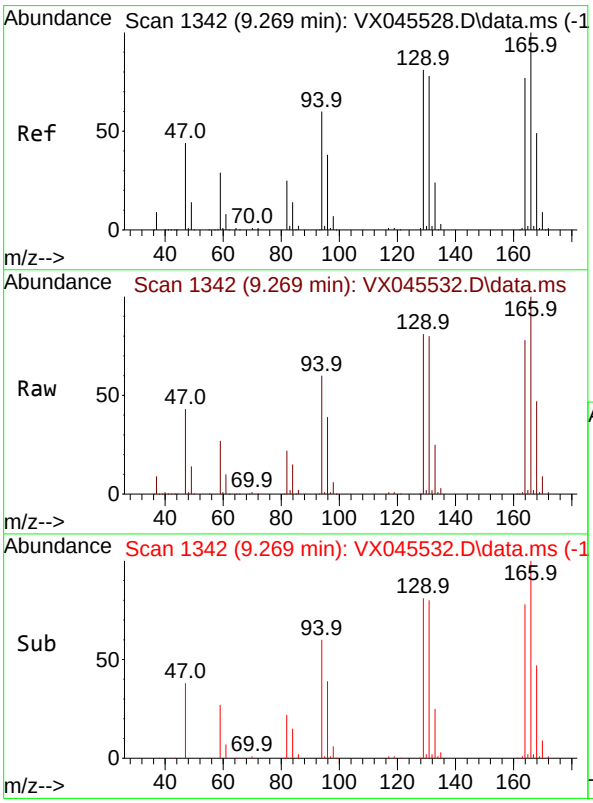
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

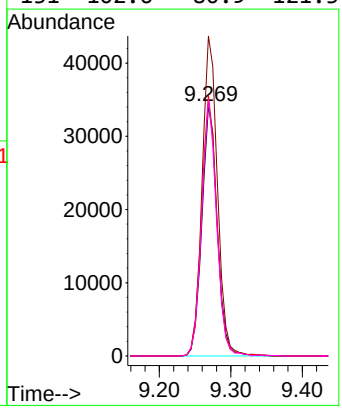


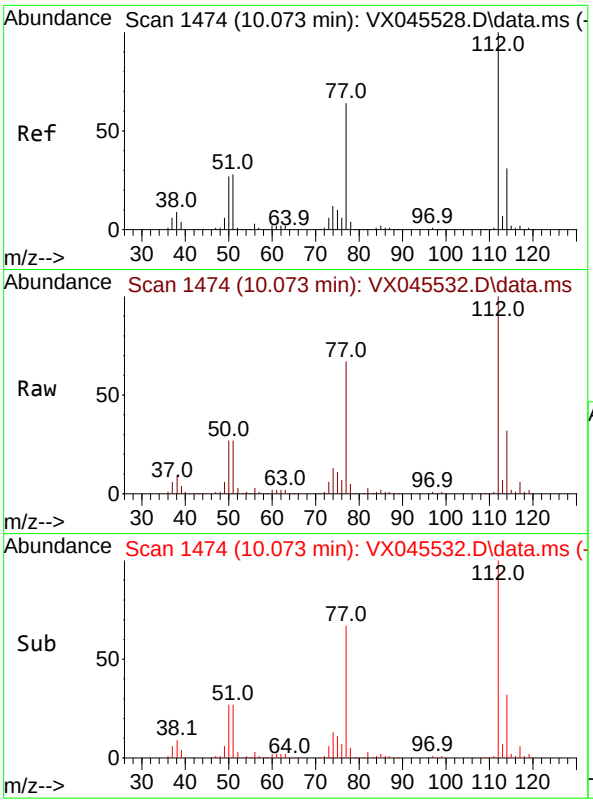


#64
Tetrachloroethene
Concen: 47.239 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion:164 Resp: 50834

Ion	Ratio	Lower	Upper
164	100		
166	128.0	103.8	155.8
129	104.3	84.3	126.5
131	102.6	80.9	121.3

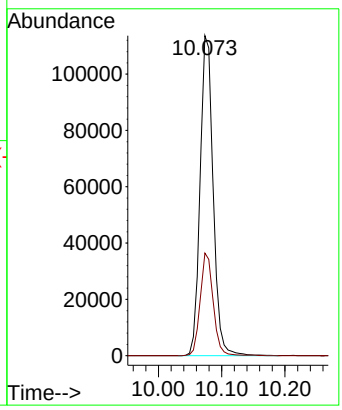




#65
Chlorobenzene
Concen: 50.207 ug/l
RT: 10.073 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion:112 Resp: 16351

Ion	Ratio	Lower	Upper
112	100		
114	32.0	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
ICVVX040225

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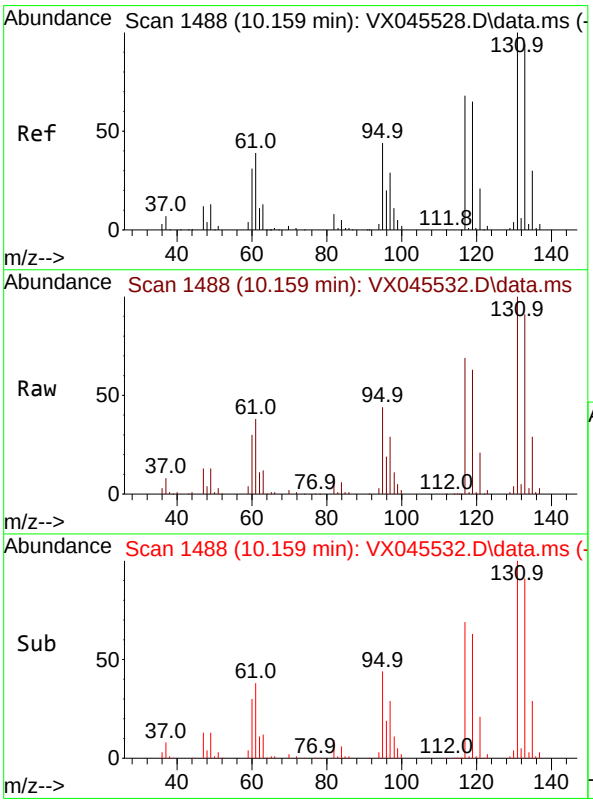
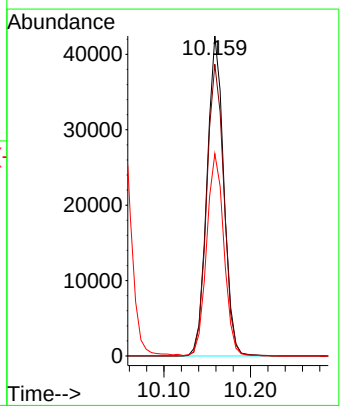
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

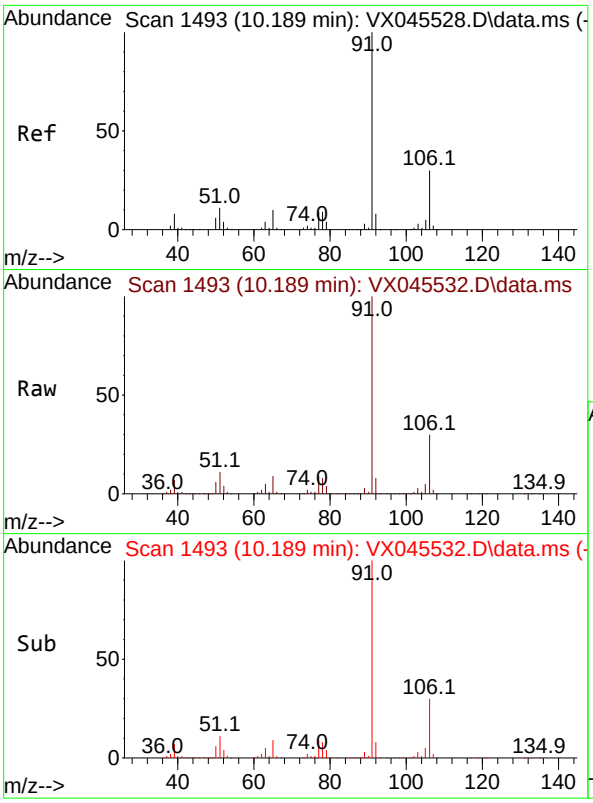


#66
1,1,1,2-Tetrachloroethane
Concen: 50.495 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion:131 Resp: 57096

Ion	Ratio	Lower	Upper
131	100		
133	93.6	47.5	142.5
119	65.0	32.9	98.6

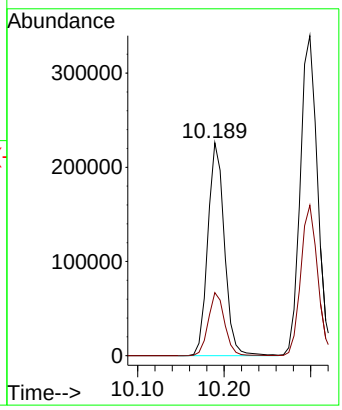




#67
Ethyl Benzene
Concen: 51.558 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion: 91 Resp: 30074

Ion	Ratio	Lower	Upper
91	100		
106	29.6	23.7	35.5



Instrument :
MSVOA_X
ClientSampleId :
ICVVX040225

Manual Integrations
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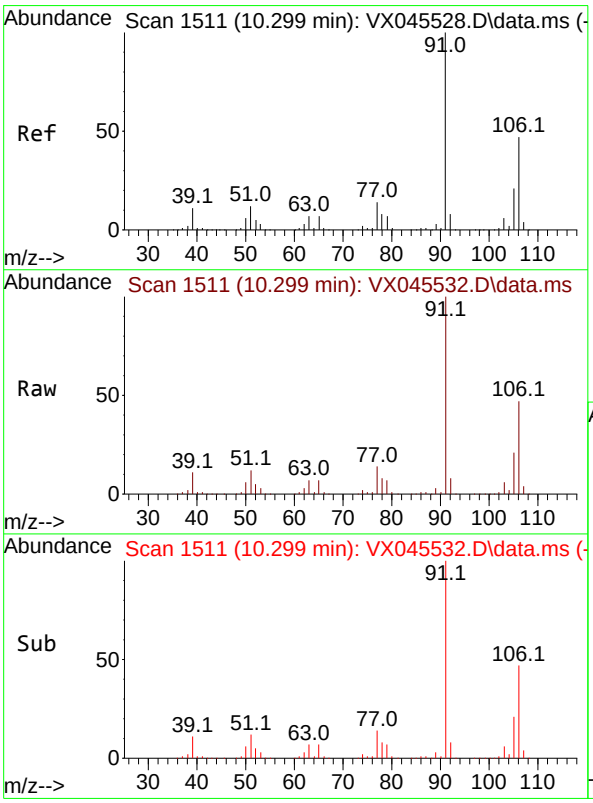
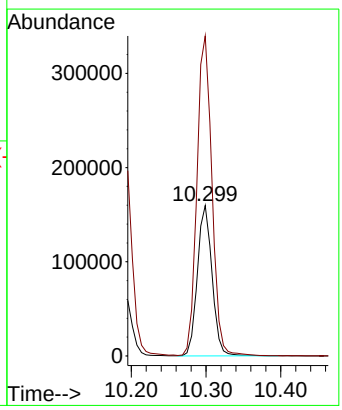
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

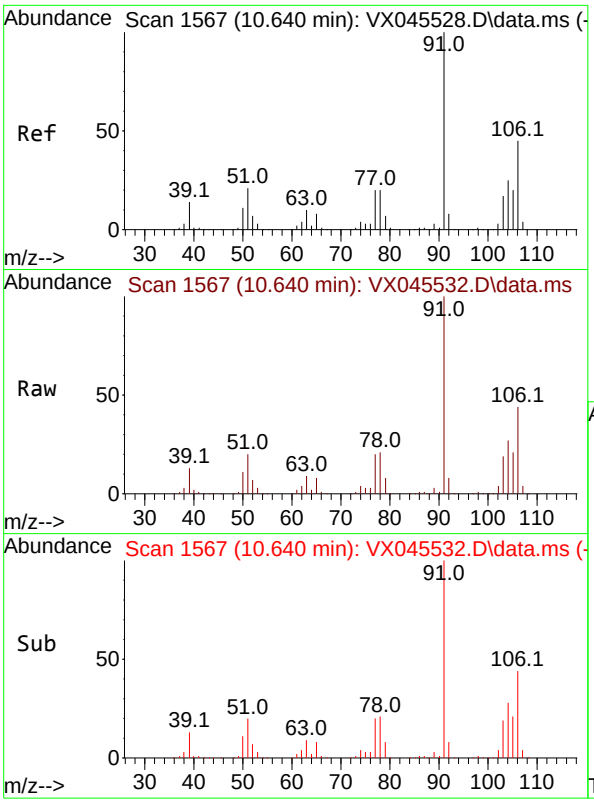


#68
m/p-Xylenes
Concen: 102.728 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion:106 Resp: 217943

Ion	Ratio	Lower	Upper
106	100		
91	217.6	172.6	258.8

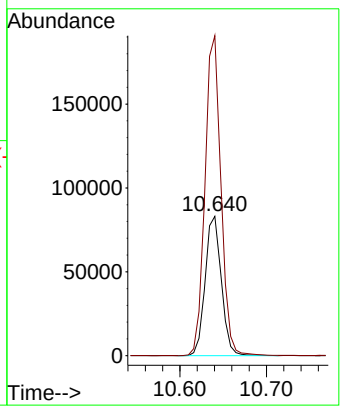




#69
o-Xylene
Concen: 51.650 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion:106 Resp: 10794

Ion	Ratio	Lower	Upper
106	100		
91	226.8	113.6	340.6



Instrument :
MSVOA_X
ClientSampleId :
ICVVX040225

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Reviewed By :Amit Patel 04/02/2025
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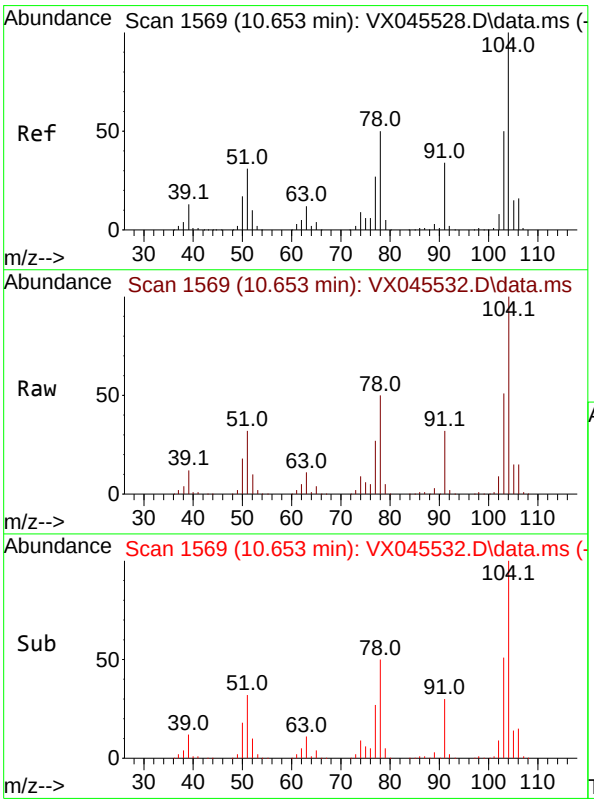
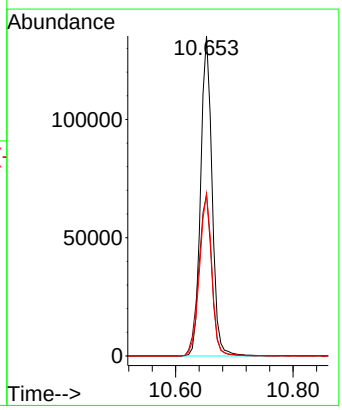
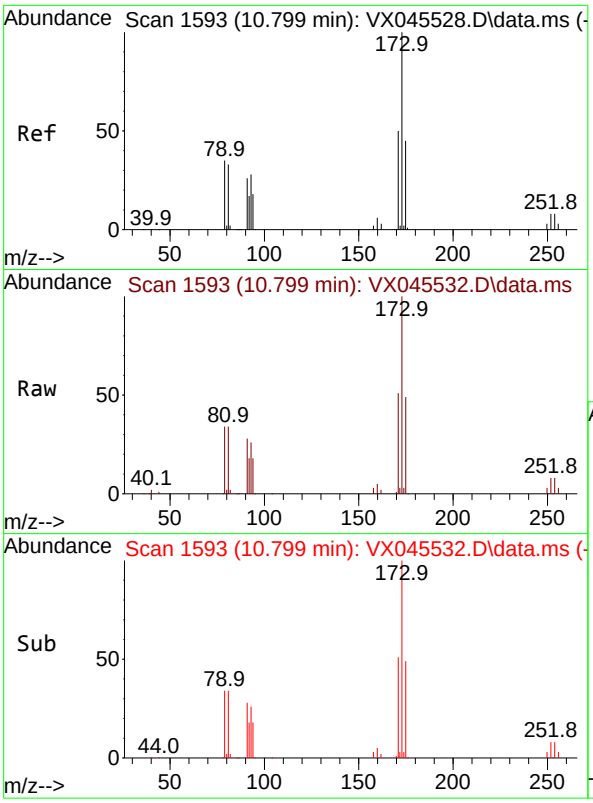


#70
Styrene
Concen: 52.624 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion:104 Resp: 181524

Ion	Ratio	Lower	Upper
104	100		
78	57.0	45.4	68.2
103	55.2	43.8	65.8

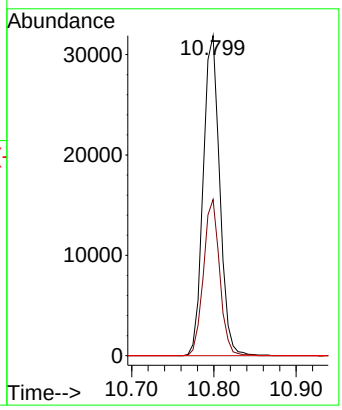




#71
Bromoform
Concen: 52.694 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion:173 Resp: 4448

Ion	Ratio	Lower	Upper
173	100		
175	47.8	23.4	70.2
254	0.0	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
ICVVX040225

Manual Integrations
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Reviewed By :Amit Patel 04/02/2025
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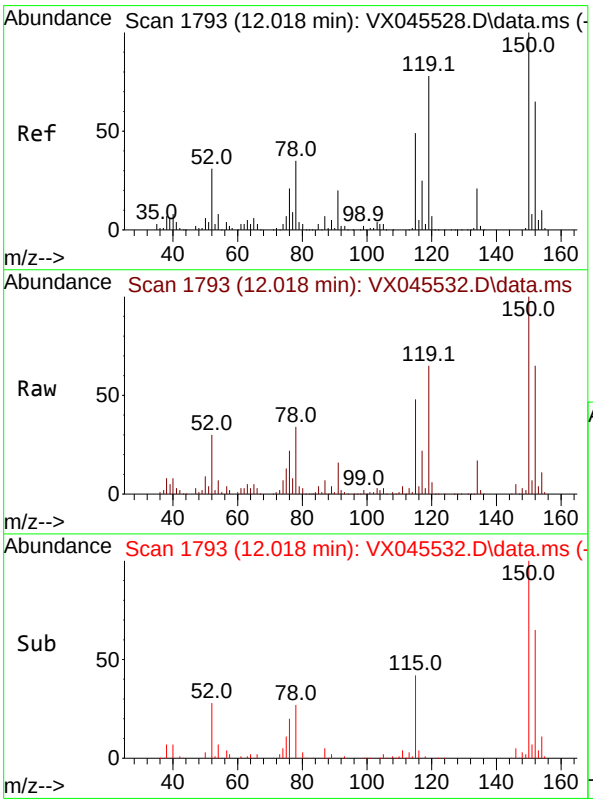
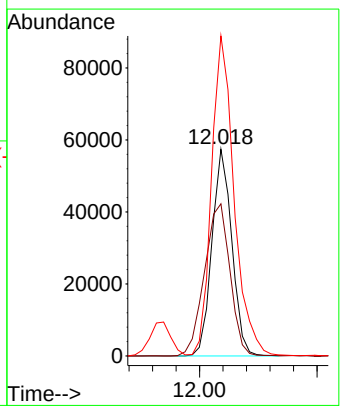
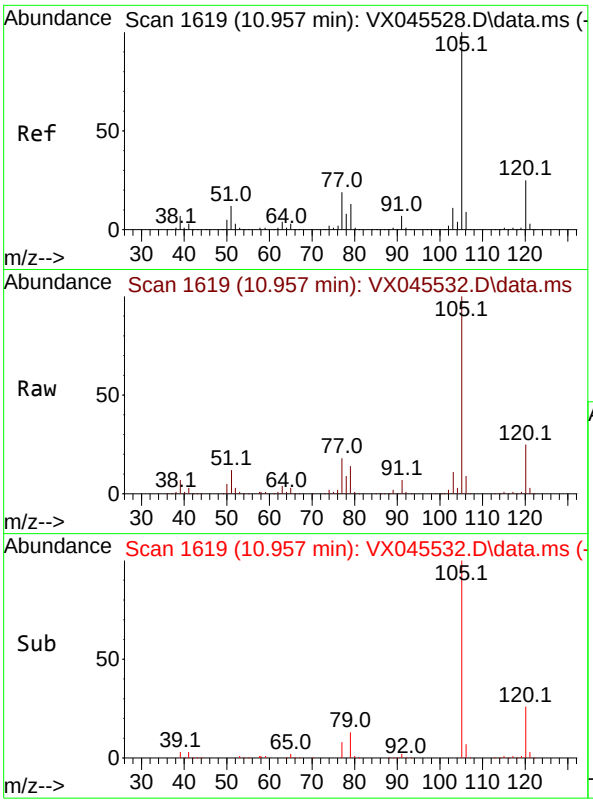


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion:152 Resp: 67633

Ion	Ratio	Lower	Upper
152	100		
115	94.2	46.9	140.7
150	175.4	0.0	349.4





#73
Isopropylbenzene
Concen: 52.794 ug/l
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion:105 Resp: 28601

Ion	Ratio	Lower	Upper
105	100		
120	25.5	12.7	38.0

Instrument :
MSVOA_X
ClientSampleId :
ICVVX040225

Manual Integrations
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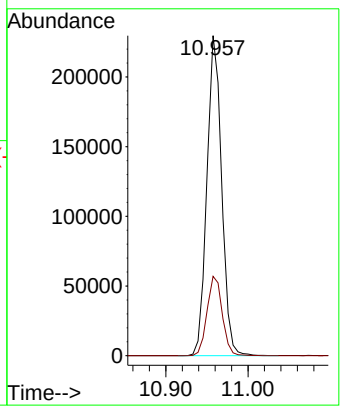
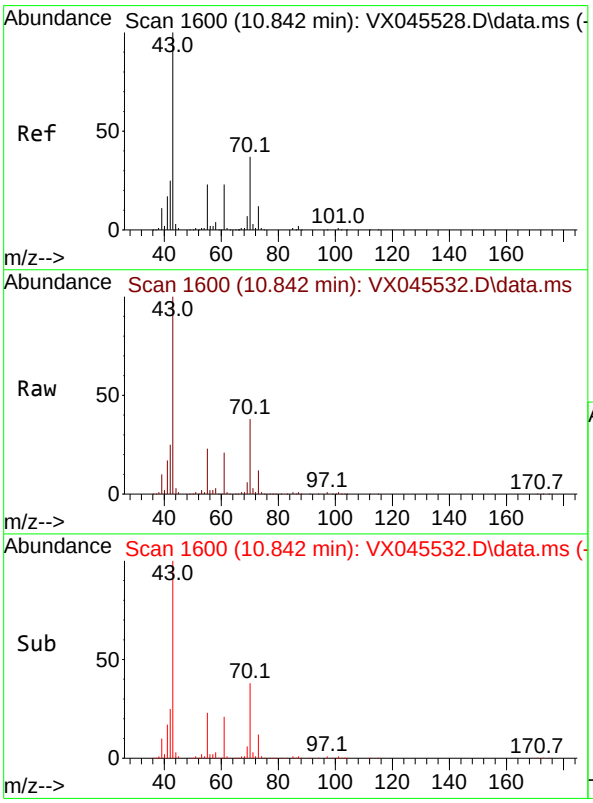
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

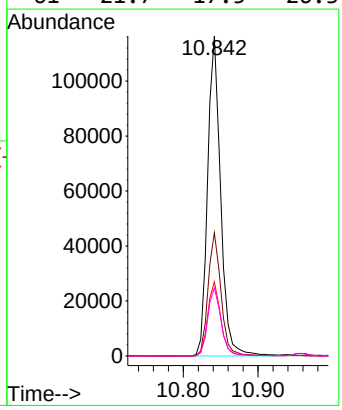


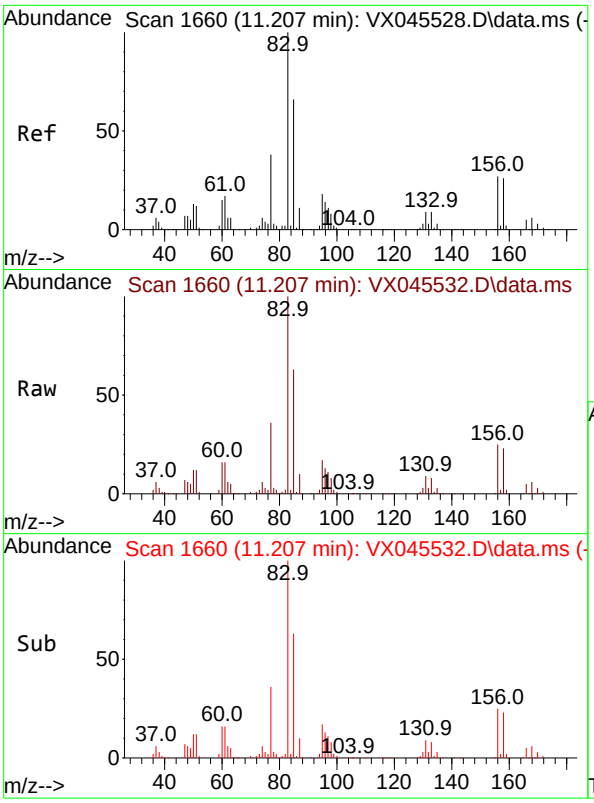


#74
N-amyl acetate
Concen: 54.387 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion: 43 Resp: 140941

Ion	Ratio	Lower	Upper
43	100		
70	38.2	30.1	45.1
55	23.3	18.3	27.5
61	21.7	17.5	26.3

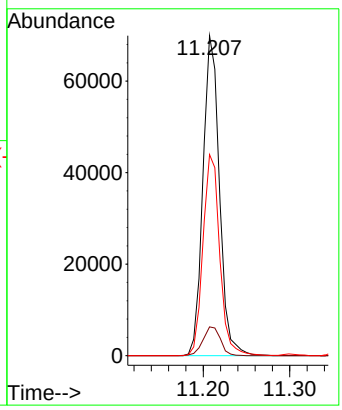




#75
1,1,2,2-Tetrachloroethane
Concen: 48.608 ug/l
RT: 11.207 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion: 83 Resp: 9250

Ion	Ratio	Lower	Upper
83	100		
131	9.5	4.7	14.1
85	63.9	32.4	97.2



Instrument :
MSVOA_X
ClientSampleId :
ICVVX040225

Manual Integrations
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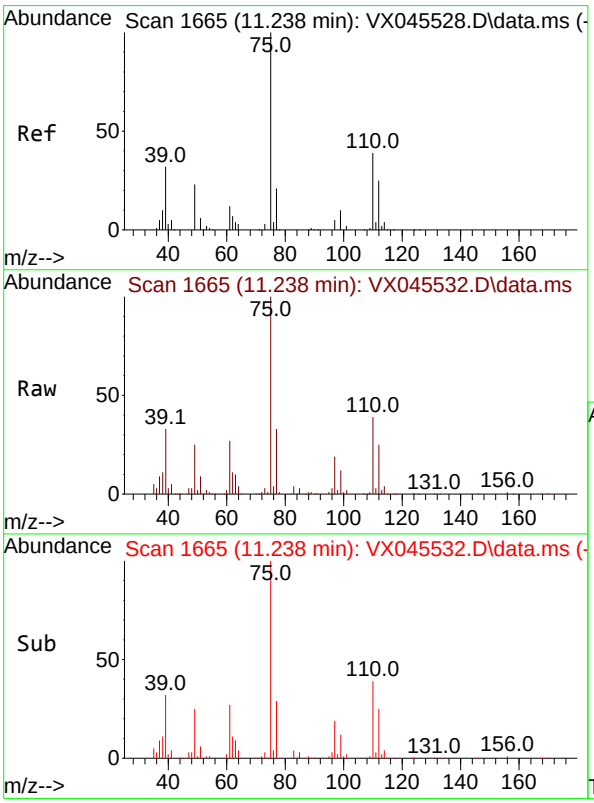
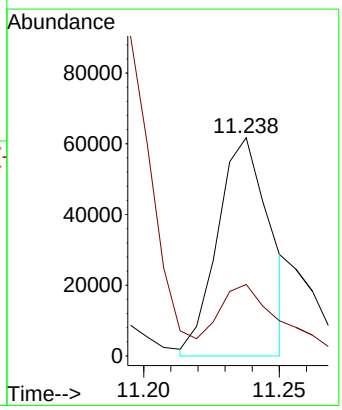
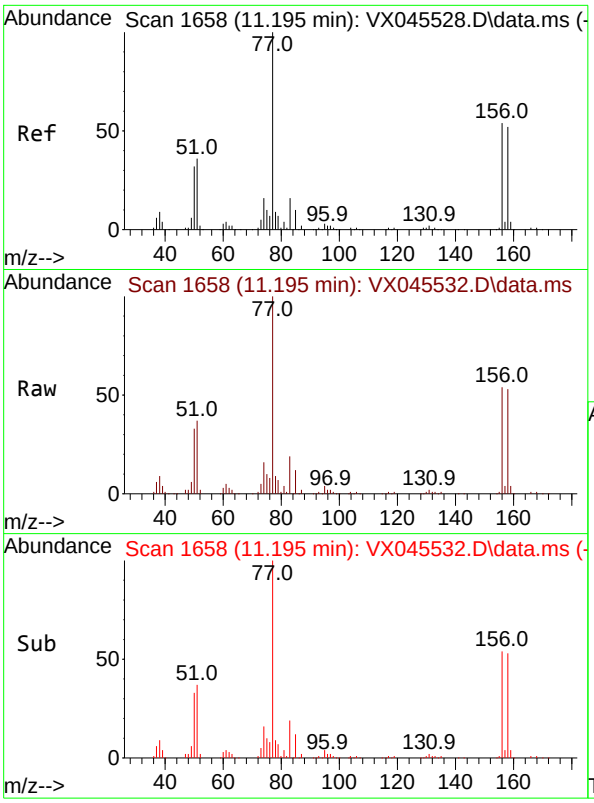


#76
1,2,3-Trichloropropane
Concen: 49.741 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion: 75 Resp: 82060

Ion	Ratio	Lower	Upper
75	100		
77	40.0	20.0	59.9

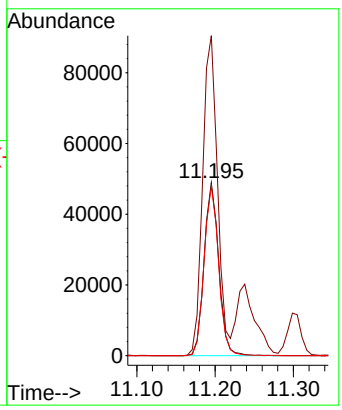




#77
Bromobenzene
Concen: 50.525 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion:156 Resp: 6324

Ion	Ratio	Lower	Upper
156	100		
77	188.0	92.6	277.8
158	97.5	48.1	144.4



Instrument :
MSVOA_X
ClientSampleId :
ICVVX040225

Manual Integrations
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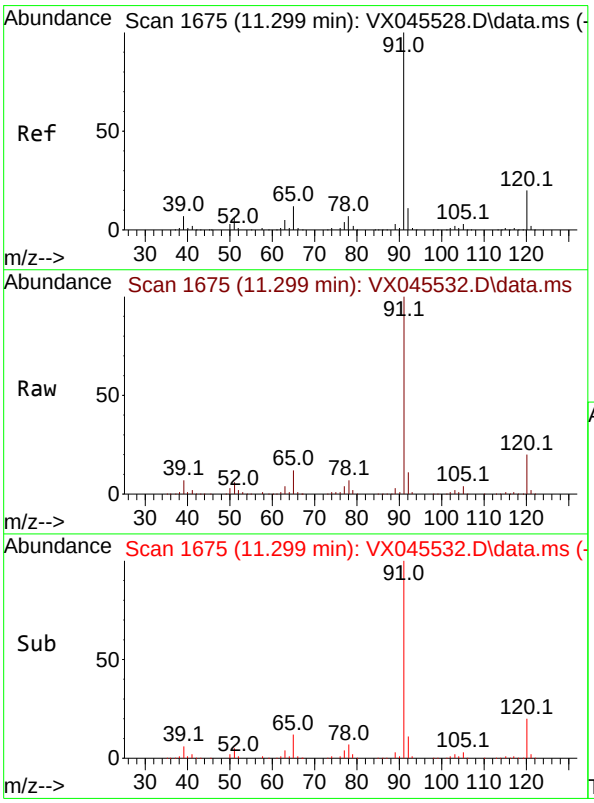
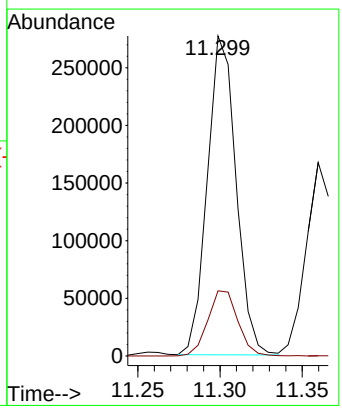
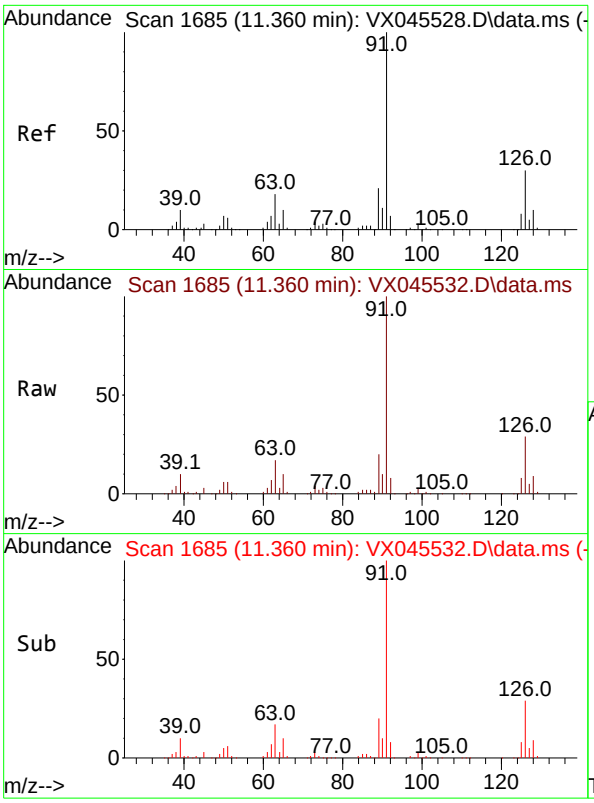


#78
n-propylbenzene
Concen: 53.967 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion: 91 Resp: 336753

Ion	Ratio	Lower	Upper
91	100		
120	21.4	10.8	32.3

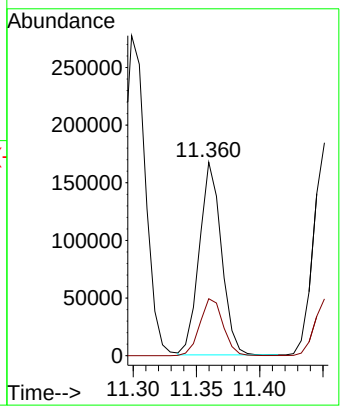




#79
2-Chlorotoluene
Concen: 51.057 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion: 91 Resp: 20367

Ion	Ratio	Lower	Upper
91	100		
126	31.2	15.8	47.4



Instrument :
MSVOA_X
ClientSampleId :
ICVVX040225

Manual Integrations
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Reviewed By :Amit Patel 04/02/2025
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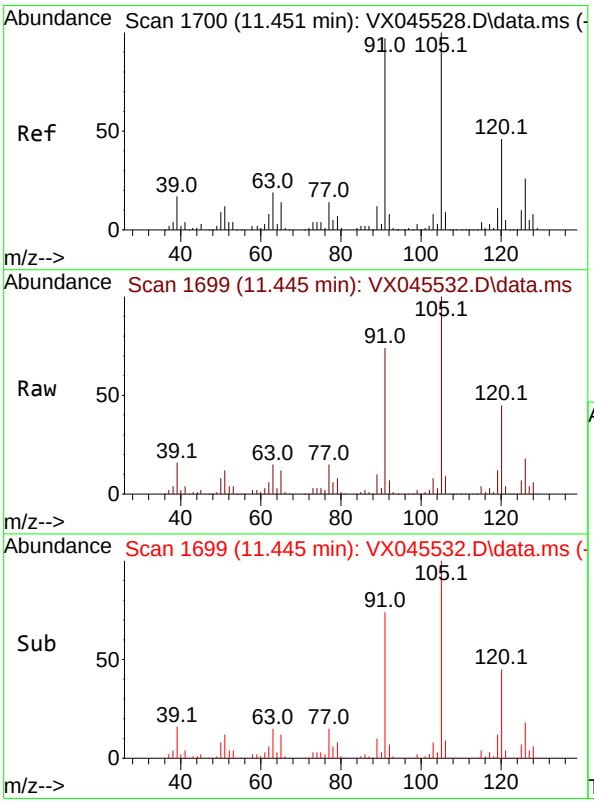
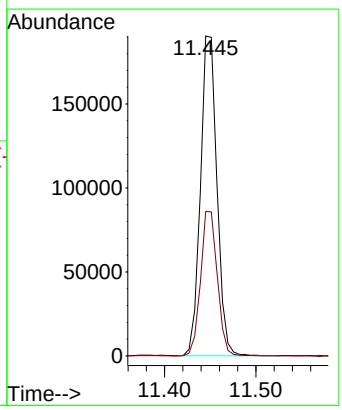
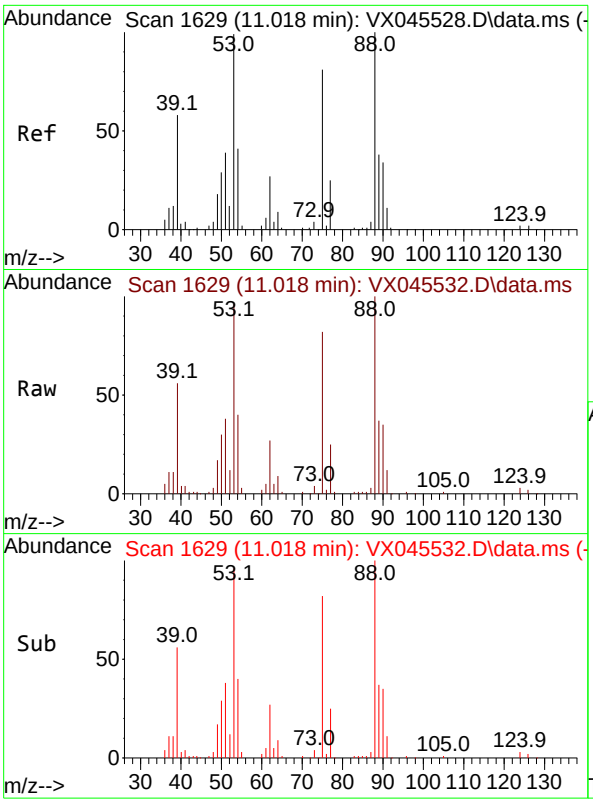


#80
1,3,5-Trimethylbenzene
Concen: 53.534 ug/l
RT: 11.445 min Scan# 1699
Delta R.T. -0.006 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion:105 Resp: 239822

Ion	Ratio	Lower	Upper
105	100		
120	45.8	23.0	69.0

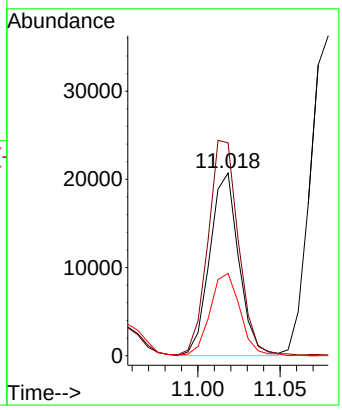




#81
trans-1,4-Dichloro-2-butene
Concen: 52.482 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion: 75 Resp: 2551

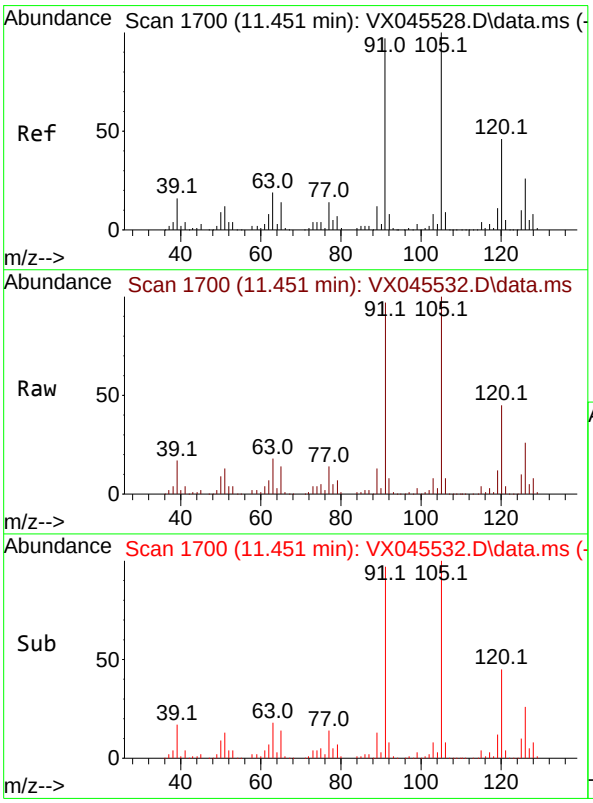
Ion	Ratio	Lower	Upper
75	100		
53	124.4	101.8	152.6
89	46.4	37.2	55.8



Instrument :
MSVOA_X
ClientSampleId :
ICVVX040225

Manual Integrations
APPROVED

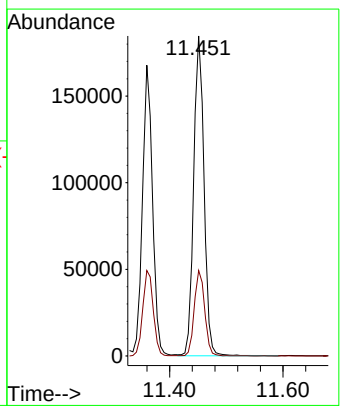
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

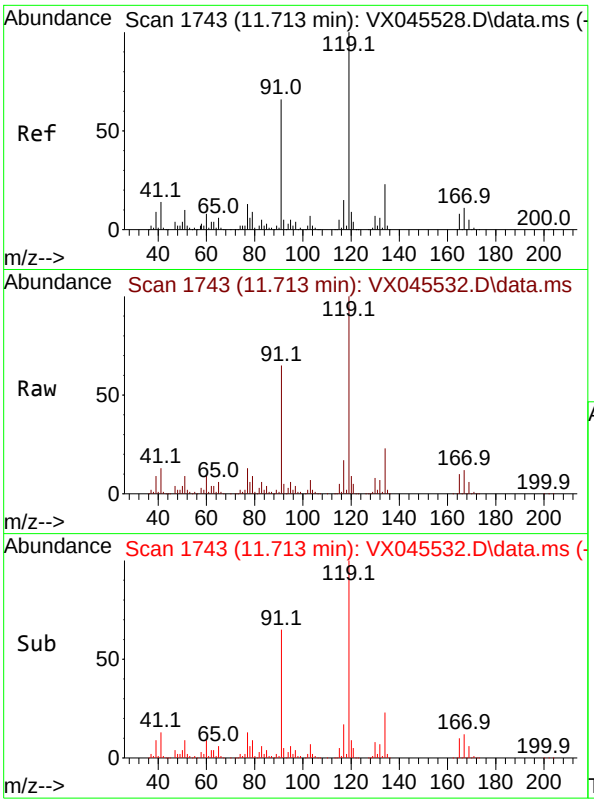


#82
4-Chlorotoluene
Concen: 52.422 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion: 91 Resp: 233159

Ion	Ratio	Lower	Upper
91	100		
126	26.8	13.3	39.9

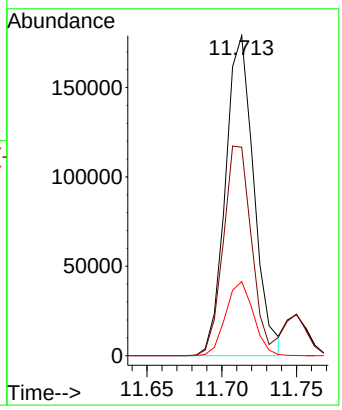




#83
tert-Butylbenzene
Concen: 53.274 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion:119 Resp: 23627

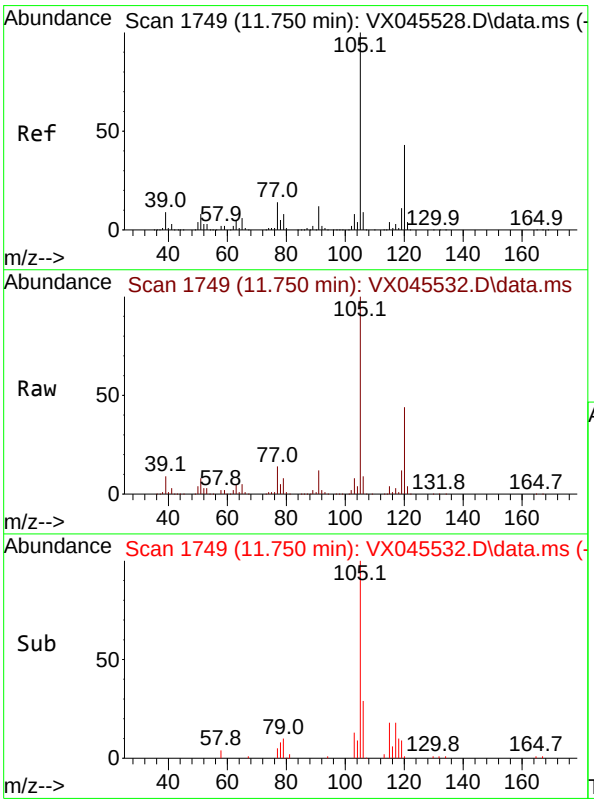
Ion	Ratio	Lower	Upper
119	100		
91	64.8	32.4	97.2
134	22.6	11.5	34.5



Instrument :
MSVOA_X
ClientSampleId :
ICVVX040225

Manual Integrations
APPROVED

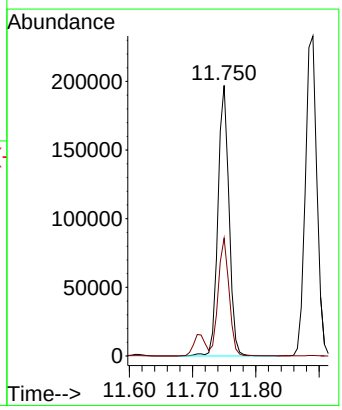
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

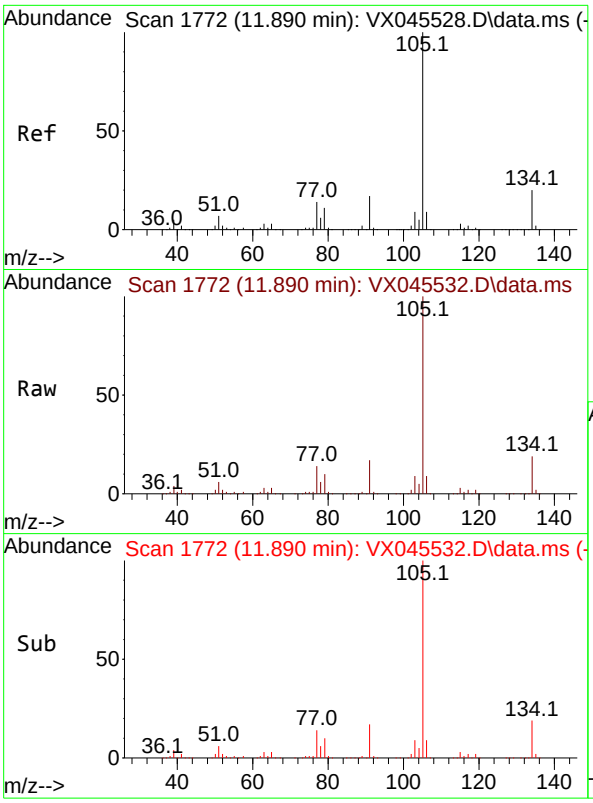


#84
1,2,4-Trimethylbenzene
Concen: 52.990 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion:105 Resp: 238257

Ion	Ratio	Lower	Upper
105	100		
120	42.8	21.4	64.3

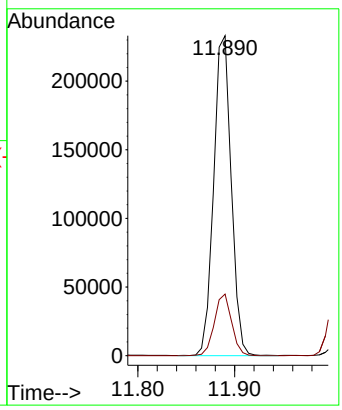




#85
sec-Butylbenzene
Concen: 53.903 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion:105 Resp: 29363

Ion	Ratio	Lower	Upper
105	100		
134	18.9	9.6	28.6



Instrument :
MSVOA_X
ClientSampleId :
ICVVX040225

Manual Integrations
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Reviewed By :Amit Patel 04/02/2025
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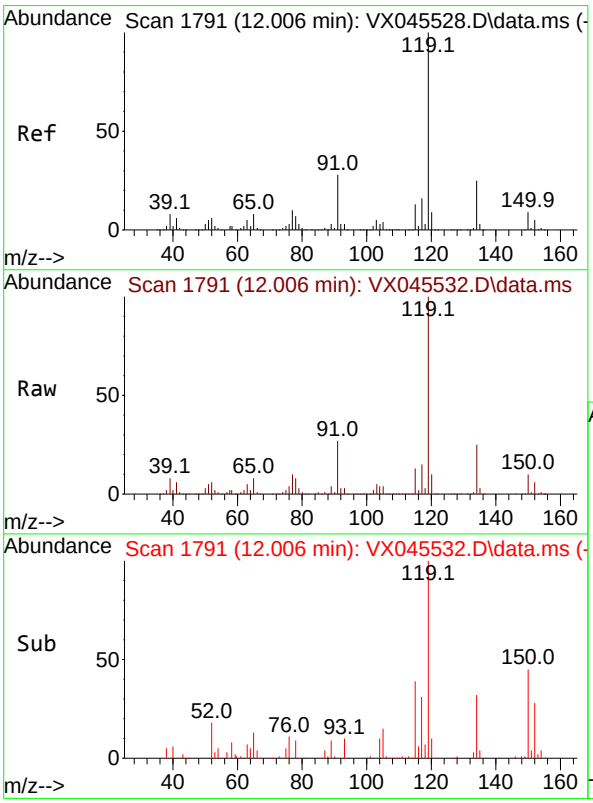
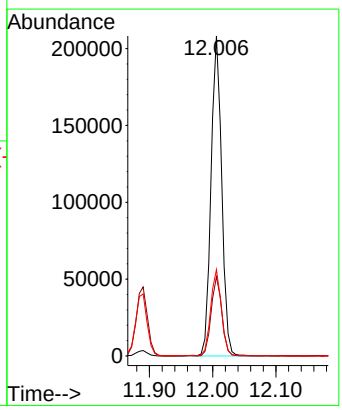
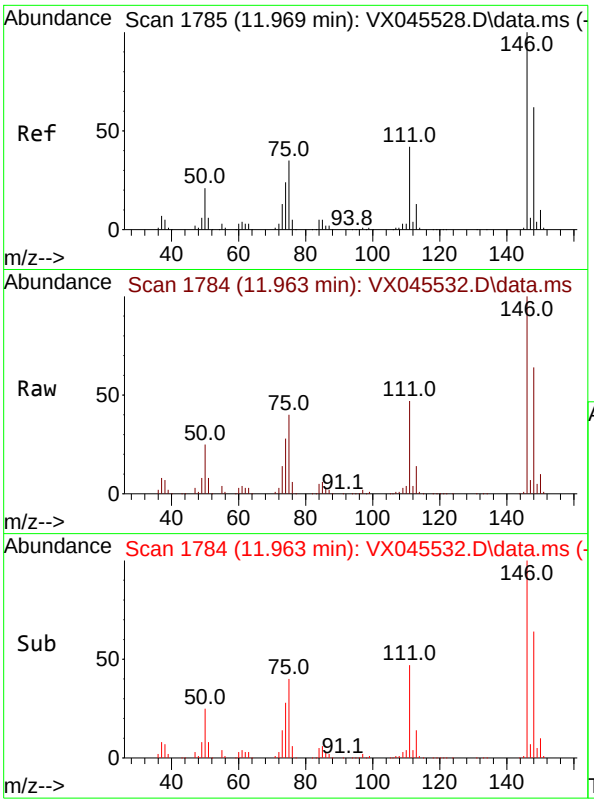


#86
p-Isopropyltoluene
Concen: 54.337 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion:119 Resp: 244031

Ion	Ratio	Lower	Upper
119	100		
134	24.8	12.6	37.8
91	27.0	13.7	41.1

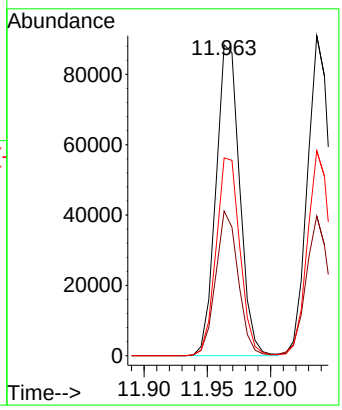




#87
1,3-Dichlorobenzene
Concen: 50.521 ug/l
RT: 11.963 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion:146 Resp: 11511

Ion	Ratio	Lower	Upper
146	100		
111	44.3	22.2	66.6
148	63.9	31.9	95.7



Instrument :
MSVOA_X
ClientSampleId :
ICVVX040225

Manual Integrations
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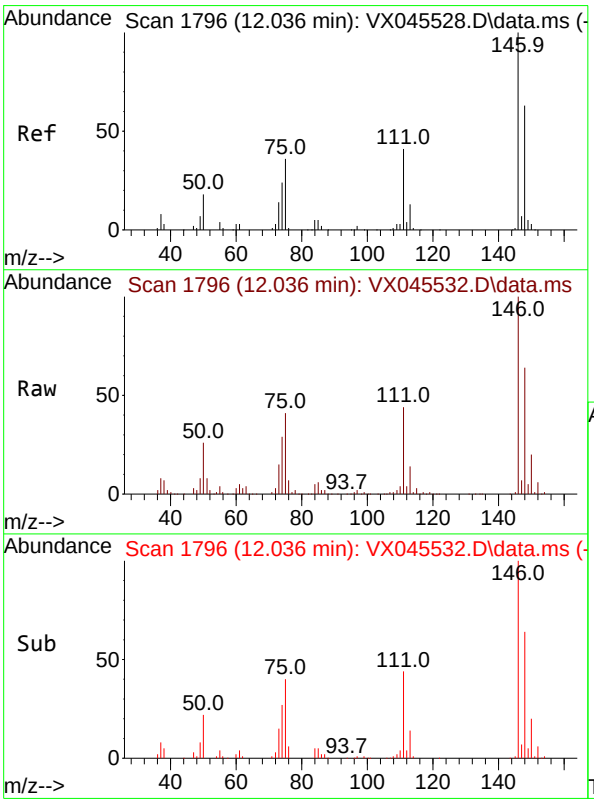
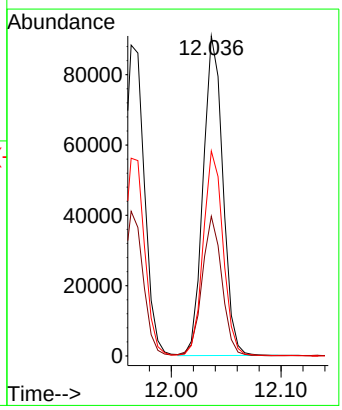
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

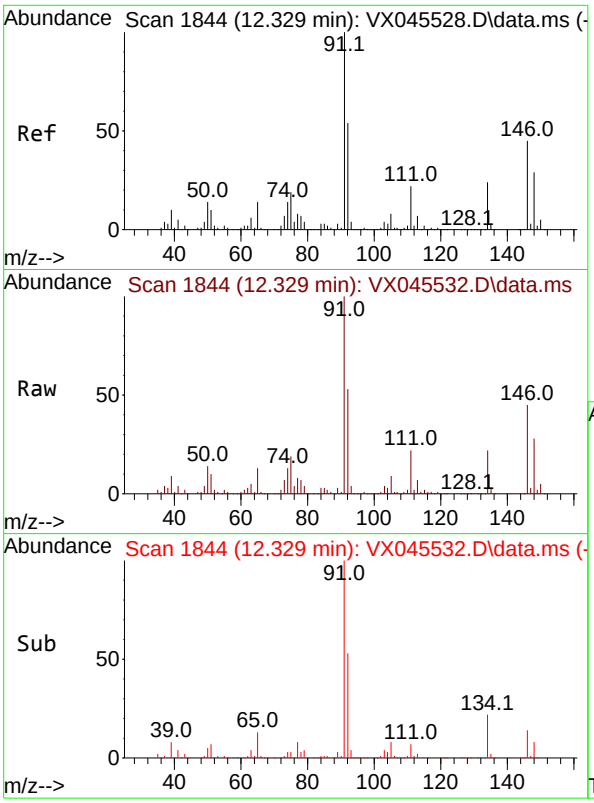


#88
1,4-Dichlorobenzene
Concen: 49.117 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion:146 Resp: 113458

Ion	Ratio	Lower	Upper
146	100		
111	44.1	20.9	62.8
148	64.5	31.5	94.5

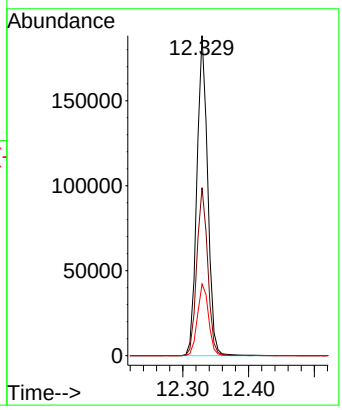




#89
n-Butylbenzene
Concen: 55.189 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion: 91 Resp: 21493

Ion	Ratio	Lower	Upper
91	100		
92	53.1	26.9	80.6
134	23.0	11.9	35.7



Instrument :
MSVOA_X
ClientSampleId :
ICVVX040225

Manual Integrations
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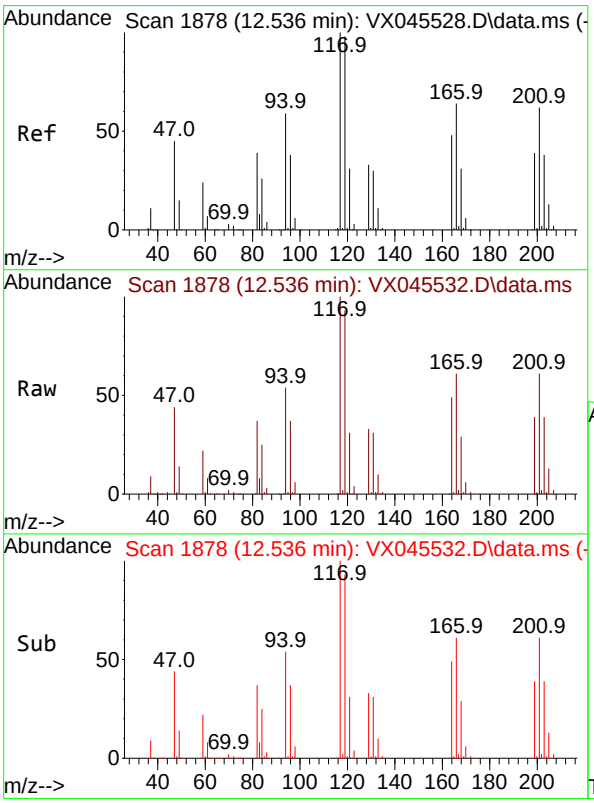
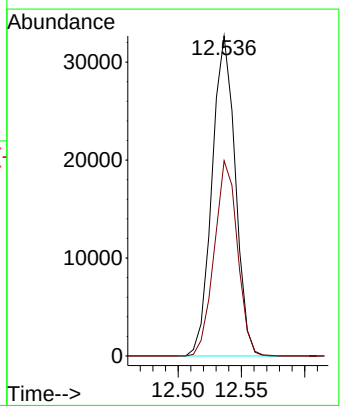
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

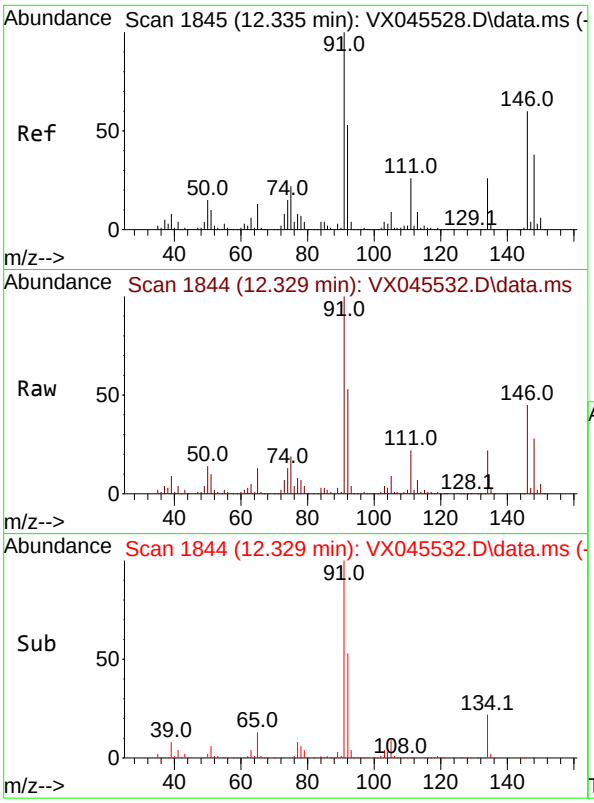


#90
Hexachloroethane
Concen: 54.066 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion:117 Resp: 41729

Ion	Ratio	Lower	Upper
117	100		
201	61.0	31.2	93.6

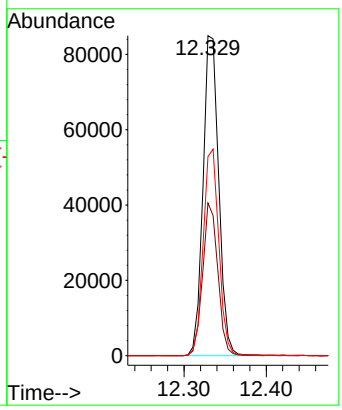




#91
1,2-Dichlorobenzene
Concen: 49.938 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion:146 Resp: 11312

Ion	Ratio	Lower	Upper
146	100		
111	45.9	22.9	68.8
148	64.1	31.9	95.5



Instrument :
MSVOA_X
ClientSampleId :
ICVVX040225

Manual Integrations
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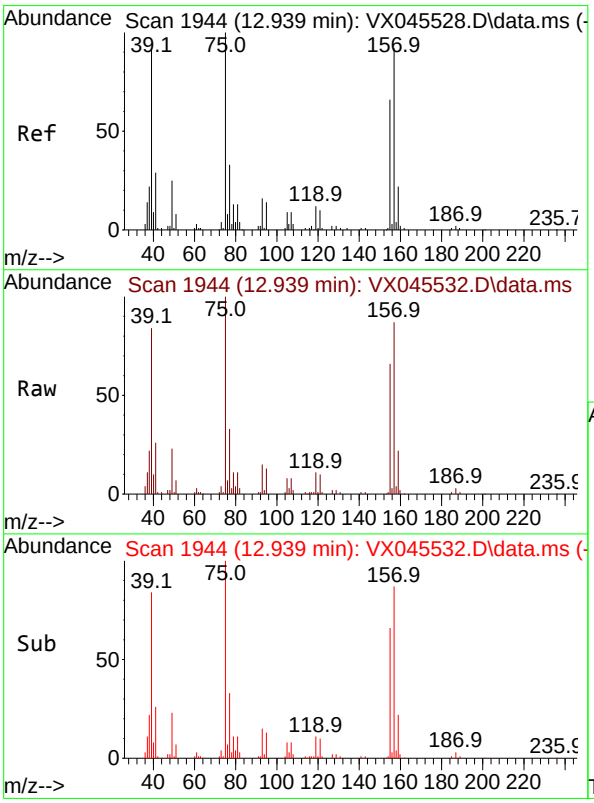
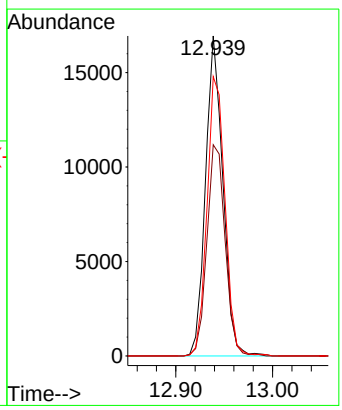
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

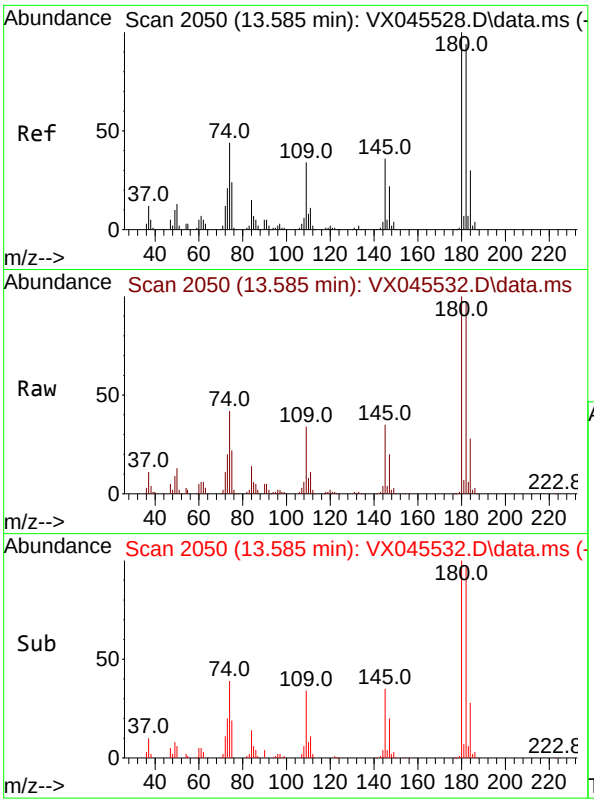


#92
1,2-Dibromo-3-Chloropropane
Concen: 53.226 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion: 75 Resp: 21184

Ion	Ratio	Lower	Upper
75	100		
155	69.4	34.9	104.7
157	90.2	44.9	134.7

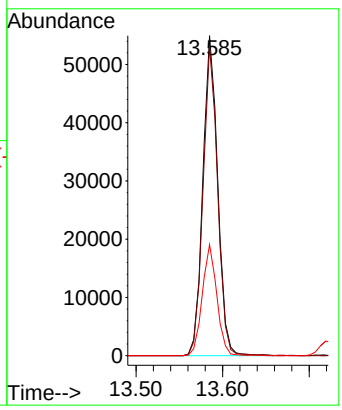




#93
1,2,4-Trichlorobenzene
Concen: 51.935 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion:180 Resp: 6548

Ion	Ratio	Lower	Upper
180	100		
182	94.5	47.9	143.6
145	34.1	17.9	53.8



Instrument :
MSVOA_X
ClientSampleId :
ICVVX040225

Manual Integrations
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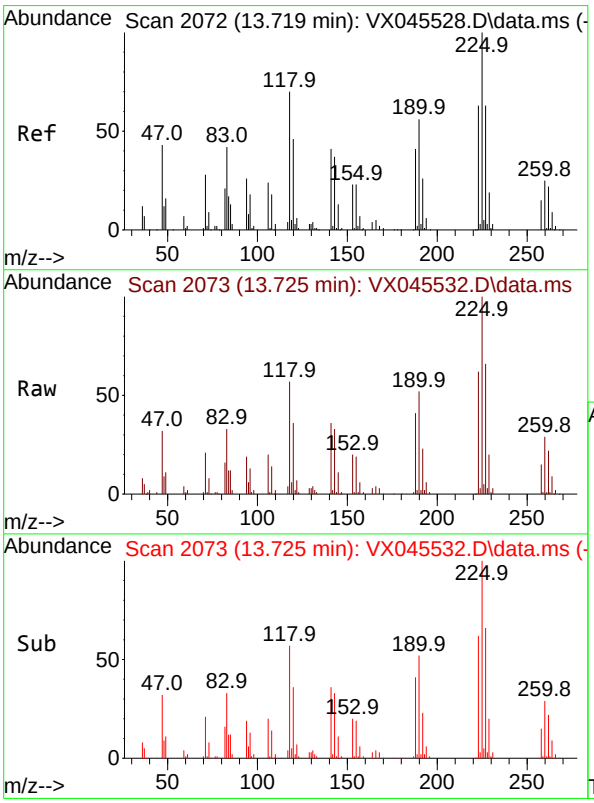
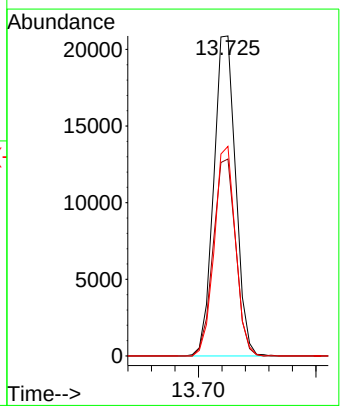
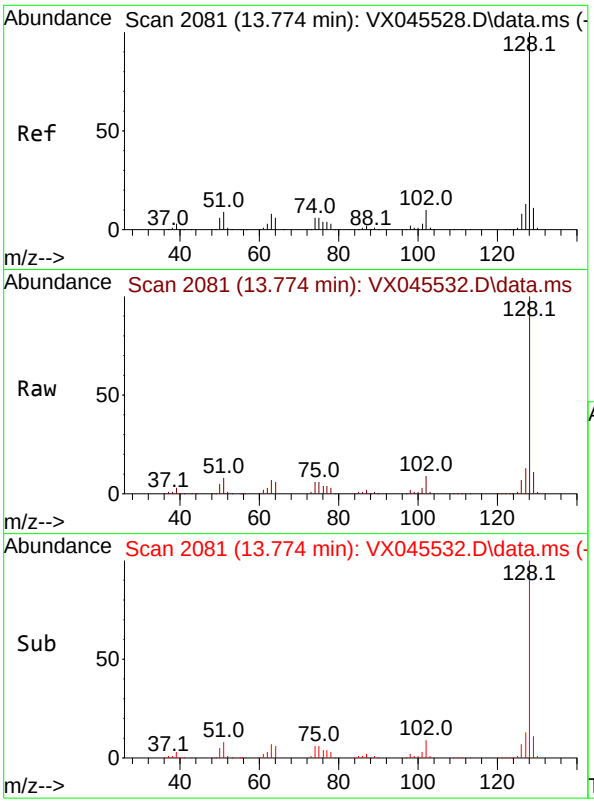


#94
Hexachlorobutadiene
Concen: 49.961 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.006 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion:225 Resp: 27147

Ion	Ratio	Lower	Upper
225	100		
223	62.9	31.1	93.3
227	63.0	32.2	96.6

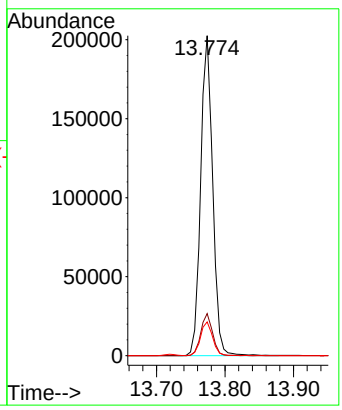




#95
Naphthalene
Concen: 52.765 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion:128 Resp: 24760

Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.3	15.5
129	10.7	8.6	12.8



Instrument :
MSVOA_X
ClientSampleId :
ICVVX040225

Manual Integrations
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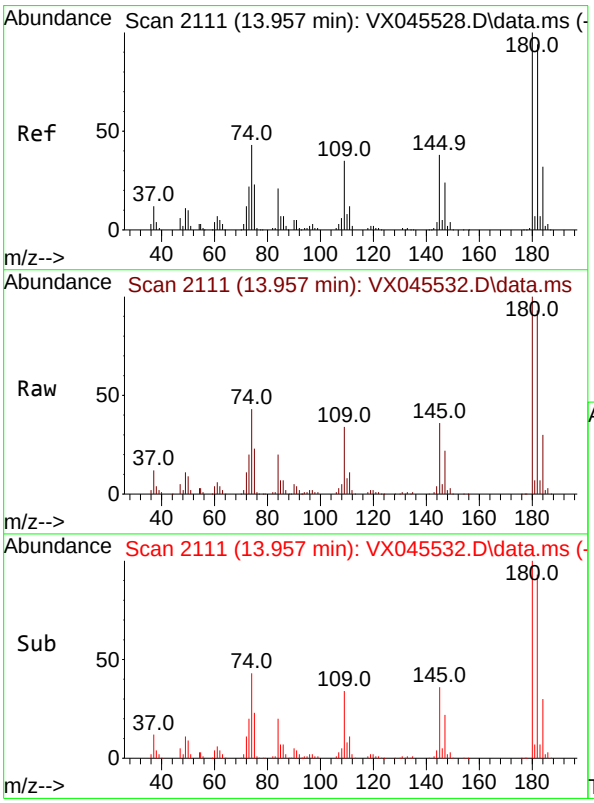
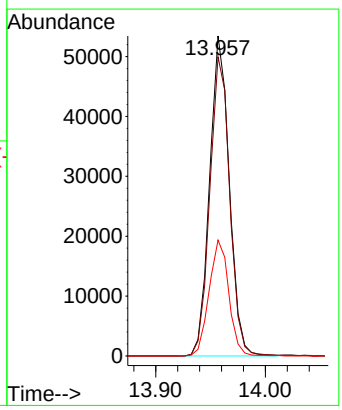


#96
1,2,3-Trichlorobenzene
Concen: 50.396 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion:180 Resp: 66542

Ion	Ratio	Lower	Upper
180	100		
182	94.8	47.3	141.8
145	36.4	18.2	54.6



Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045532.D
Acq On : 01 Apr 2025 19:48
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX040225

Quant Time: Apr 02 03:14:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	101	0.00
2	T	Dichlorodifluoromethane	0.748	0.784	-4.8	97	0.00
3	P	Chloromethane	0.768	0.743	3.3	96	0.00
4	C	Vinyl Chloride	0.703	0.686	2.4#	97	0.00
5	T	Bromomethane	0.333	0.313	6.0	96	0.00
6	T	Chloroethane	0.373	0.385	-3.2	98	0.00
7	T	Trichlorofluoromethane	1.048	1.056	-0.8	99	0.00
8	T	Diethyl Ether	0.352	0.347	1.4	99	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.614	0.608	1.0	99	0.00
10	T	Methyl Iodide	0.766	0.745	2.7	95	0.00
11	T	Tert butyl alcohol	0.123	0.121	1.6	97	0.00
12	CM	1,1-Dichloroethene	0.600	0.597	0.5#	100	0.00
13	T	Acrolein	0.169	0.161	4.7	98	0.00
14	T	Allyl chloride	1.139	1.151	-1.1	100	0.00
15	T	Acrylonitrile	0.388	0.385	0.8	96	0.00
16	T	Acetone	0.375	0.363	3.2	98	0.00
17	T	Carbon Disulfide	1.483	1.544	-4.1	101	0.00
18	T	Methyl Acetate	0.864	0.843	2.4	100	0.00
19	T	Methyl tert-butyl Ether	2.100	2.140	-1.9	102	0.00
20	T	Methylene Chloride	0.703	0.690	1.8	99	0.00
21	T	trans-1,2-Dichloroethene	0.613	0.611	0.3	99	0.00
22	T	Diisopropyl ether	2.243	2.284	-1.8	101	0.00
23	T	Vinyl Acetate	1.938	2.074	-7.0	101	0.00
24	P	1,1-Dichloroethane	1.269	1.261	0.6	101	0.00
25	T	2-Butanone	0.550	0.560	-1.8	97	0.00
26	T	2,2-Dichloropropane	0.820	0.853	-4.0	102	0.00
27	T	cis-1,2-Dichloroethene	0.747	0.733	1.9	99	0.00
28	T	Bromochloromethane	0.613	0.594	3.1	101	0.00
29	T	Tetrahydrofuran	0.356	0.356	0.0	97	0.00
30	C	Chloroform	1.306	1.295	0.8#	100	0.00
31	T	Cyclohexane	1.122	1.112	0.9	100	0.00
32	T	1,1,1-Trichloroethane	1.105	1.112	-0.6	102	0.00
33	S	1,2-Dichloroethane-d4	0.914	0.920	-0.7	107	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	104	0.00
35	S	Dibromofluoromethane	0.355	0.349	1.7	105	0.00
36	T	1,1-Dichloropropene	0.479	0.480	-0.2	103	0.00
37	T	Ethyl Acetate	0.604	0.601	0.5	100	0.00
38	T	Carbon Tetrachloride	0.518	0.525	-1.4	102	0.00
39	T	Methylcyclohexane	0.587	0.589	-0.3	98	0.00
40	TM	Benzene	1.463	1.440	1.6	101	0.00
41	T	Methacrylonitrile	0.318	0.338	-6.3	100	0.00
42	TM	1,2-Dichloroethane	0.604	0.591	2.2	99	0.00
43	T	Isopropyl Acetate	0.915	0.943	-3.1	100	0.00
44	TM	Trichloroethene	0.348	0.331	4.9	98	0.00
45	C	1,2-Dichloropropane	0.365	0.361	1.1#	100	0.00
46	T	Dibromomethane	0.280	0.272	2.9	97	0.00
47	T	Bromodichloromethane	0.560	0.551	1.6	100	0.00
48	T	Methyl methacrylate	0.472	0.487	-3.2	100	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045532.D
Acq On : 01 Apr 2025 19:48
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX040225

Quant Time: Apr 02 03:14:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 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	92	0.00
50	S	Toluene-d8	1.238	1.242	-0.3	106	0.00
51	T	4-Methyl-2-Pentanone	0.606	0.619	-2.1	97	0.00
52	CM	Toluene	0.885	0.867	2.0#	99	0.00
53	T	t-1,3-Dichloropropene	0.467	0.502	-7.5	103	0.00
54	T	cis-1,3-Dichloropropene	0.526	0.567	-7.8	104	0.00
55	T	1,1,2-Trichloroethane	0.353	0.346	2.0	100	0.00
56	T	Ethyl methacrylate	0.546	0.586	-7.3	102	0.00
57	T	1,3-Dichloropropane	0.614	0.613	0.2	101	0.00
58	T	2-Chloroethyl Vinyl ether	0.276	0.287	-4.0	100	0.00
59	T	2-Hexanone	0.449	0.452	-0.7	96	0.00
60	T	Dibromochloromethane	0.385	0.392	-1.8	99	0.00
61	T	1,2-Dibromoethane	0.357	0.362	-1.4	101	0.00
62	S	4-Bromofluorobenzene	0.451	0.460	-2.0	105	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	101	0.00
64	T	Tetrachloroethene	0.353	0.334	5.4	97	0.00
65	PM	Chlorobenzene	1.068	1.073	-0.5	100	0.00
66	T	1,1,1,2-Tetrachloroethane	0.371	0.375	-1.1	102	0.00
67	C	Ethyl Benzene	1.914	1.973	-3.1#	100	0.00
68	T	m/p-Xylenes	0.696	0.715	-2.7	100	0.00
69	T	o-Xylene	0.686	0.708	-3.2	100	0.00
70	T	Styrene	1.132	1.191	-5.2	99	0.00
71	P	Bromoform	0.277	0.292	-5.4	100	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	98	0.00
73	T	Isopropylbenzene	4.005	4.229	-5.6	99	0.00
74	T	N-amyl acetate	1.916	2.084	-8.8	100	0.00
75	P	1,1,2,2-Tetrachloroethane	1.407	1.368	2.8	97	0.00
76	T	1,2,3-Trichloropropane	1.220	1.213	0.6	97	0.00
77	T	Bromobenzene	0.925	0.935	-1.1	98	0.00
78	T	n-propylbenzene	4.613	4.979	-7.9	100	0.00
79	T	2-Chlorotoluene	2.949	3.012	-2.1	100	0.00
80	T	1,3,5-Trimethylbenzene	3.312	3.546	-7.1	99	0.00
81	T	trans-1,4-Dichloro-2-butene	0.359	0.377	-5.0	100	0.00
82	T	4-Chlorotoluene	3.288	3.447	-4.8	98	0.00
83	T	tert-Butylbenzene	3.279	3.494	-6.6	100	0.00
84	T	1,2,4-Trimethylbenzene	3.324	3.523	-6.0	98	0.00
85	T	sec-Butylbenzene	4.027	4.342	-7.8	99	0.00
86	T	p-Isopropyltoluene	3.320	3.608	-8.7	101	0.00
87	T	1,3-Dichlorobenzene	1.684	1.702	-1.1	98	0.00
88	T	1,4-Dichlorobenzene	1.708	1.678	1.8	97	0.00
89	T	n-Butylbenzene	2.879	3.178	-10.4	99	0.00
90	T	Hexachloroethane	0.571	0.617	-8.1	102	0.00
91	T	1,2-Dichlorobenzene	1.675	1.673	0.1	98	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.294	0.313	-6.5	98	0.00
93	T	1,2,4-Trichlorobenzene	0.932	0.968	-3.9	101	0.00
94	T	Hexachlorobutadiene	0.402	0.401	0.2	98	0.00
95	T	Naphthalene	3.469	3.661	-5.5	97	0.00

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045532.D
Acq On : 01 Apr 2025 19:48
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX040225

Quant Time: Apr 02 03:14:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 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	0.976	0.984	-0.8	97	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045532.D
Acq On : 01 Apr 2025 19:48
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX040225

Quant Time: Apr 02 03:14:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	50.000	50.000	0.0	101	0.00
2	T	Dichlorodifluoromethane	50.000	52.454	-4.9	97	0.00
3	P	Chloromethane	50.000	48.349	3.3	96	0.00
4	C	Vinyl Chloride	50.000	48.816	2.4#	97	0.00
5	T	Bromomethane	50.000	46.991	6.0	96	0.00
6	T	Chloroethane	50.000	51.586	-3.2	98	0.00
7	T	Trichlorofluoromethane	50.000	50.354	-0.7	99	0.00
8	T	Diethyl Ether	50.000	49.228	1.5	99	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	49.528	0.9	99	0.00
10	T	Methyl Iodide	50.000	48.626	2.7	95	0.00
11	T	Tert butyl alcohol	250.000	246.612	1.4	97	0.00
12	CM	1,1-Dichloroethene	50.000	49.726	0.5#	100	0.00
13	T	Acrolein	250.000	238.141	4.7	98	0.00
14	T	Allyl chloride	50.000	50.541	-1.1	100	0.00
15	T	Acrylonitrile	250.000	248.351	0.7	96	0.00
16	T	Acetone	250.000	241.904	3.2	98	0.00
17	T	Carbon Disulfide	50.000	52.057	-4.1	101	0.00
18	T	Methyl Acetate	50.000	48.742	2.5	100	0.00
19	T	Methyl tert-butyl Ether	50.000	50.950	-1.9	102	0.00
20	T	Methylene Chloride	50.000	49.055	1.9	99	0.00
21	T	trans-1,2-Dichloroethene	50.000	49.800	0.4	99	0.00
22	T	Diisopropyl ether	50.000	50.895	-1.8	101	0.00
23	T	Vinyl Acetate	250.000	267.449	-7.0	101	0.00
24	P	1,1-Dichloroethane	50.000	49.677	0.6	101	0.00
25	T	2-Butanone	250.000	254.882	-2.0	97	0.00
26	T	2,2-Dichloropropane	50.000	52.020	-4.0	102	0.00
27	T	cis-1,2-Dichloroethene	50.000	49.049	1.9	99	0.00
28	T	Bromochloromethane	50.000	48.403	3.2	101	0.00
29	T	Tetrahydrofuran	250.000	249.473	0.2	97	0.00
30	C	Chloroform	50.000	49.614	0.8#	100	0.00
31	T	Cyclohexane	50.000	49.583	0.8	100	0.00
32	T	1,1,1-Trichloroethane	50.000	50.330	-0.7	102	0.00
33	S	1,2-Dichloroethane-d4	50.000	50.329	-0.7	107	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	104	0.00
35	S	Dibromofluoromethane	50.000	49.256	1.5	105	0.00
36	T	1,1-Dichloropropene	50.000	50.088	-0.2	103	0.00
37	T	Ethyl Acetate	50.000	49.787	0.4	100	0.00
38	T	Carbon Tetrachloride	50.000	50.667	-1.3	102	0.00
39	T	Methylcyclohexane	50.000	50.124	-0.2	98	0.00
40	TM	Benzene	50.000	49.212	1.6	101	0.00
41	T	Methacrylonitrile	50.000	53.098	-6.2	100	0.00
42	TM	1,2-Dichloroethane	50.000	48.875	2.3	99	0.00
43	T	Isopropyl Acetate	50.000	51.539	-3.1	100	0.00
44	TM	Trichloroethene	50.000	47.643	4.7	98	0.00
45	C	1,2-Dichloropropane	50.000	49.521	1.0#	100	0.00
46	T	Dibromomethane	50.000	48.542	2.9	97	0.00
47	T	Bromodichloromethane	50.000	49.273	1.5	100	0.00
48	T	Methyl methacrylate	50.000	51.507	-3.0	100	0.00

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045532.D
Acq On : 01 Apr 2025 19:48
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX040225

Quant Time: Apr 02 03:14:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 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	955.327	4.5	92	0.00
50	S	Toluene-d8	50.000	50.160	-0.3	106	0.00
51	T	4-Methyl-2-Pentanone	250.000	254.994	-2.0	97	0.00
52	CM	Toluene	50.000	48.994	2.0#	99	0.00
53	T	t-1,3-Dichloropropene	50.000	46.783	6.4	103	0.00
54	T	cis-1,3-Dichloropropene	50.000	53.878	-7.8	104	0.00
55	T	1,1,2-Trichloroethane	50.000	49.007	2.0	100	0.00
56	T	Ethyl methacrylate	50.000	53.705	-7.4	102	0.00
57	T	1,3-Dichloropropane	50.000	49.869	0.3	101	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	260.201	-4.1	100	0.00
59	T	2-Hexanone	250.000	251.710	-0.7	96	0.00
60	T	Dibromochloromethane	50.000	50.983	-2.0	99	0.00
61	T	1,2-Dibromoethane	50.000	50.693	-1.4	101	0.00
62	S	4-Bromofluorobenzene	50.000	50.959	-1.9	105	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	101	0.00
64	T	Tetrachloroethene	50.000	47.239	5.5	97	0.00
65	PM	Chlorobenzene	50.000	50.207	-0.4	100	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	50.495	-1.0	102	0.00
67	C	Ethyl Benzene	50.000	51.558	-3.1#	100	0.00
68	T	m/p-Xylenes	100.000	102.728	-2.7	100	0.00
69	T	o-Xylene	50.000	51.650	-3.3	100	0.00
70	T	Styrene	50.000	52.624	-5.2	99	0.00
71	P	Bromoform	50.000	52.694	-5.4	100	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	98	0.00
73	T	Isopropylbenzene	50.000	52.794	-5.6	99	0.00
74	T	N-amyl acetate	50.000	54.387	-8.8	100	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	48.608	2.8	97	0.00
76	T	1,2,3-Trichloropropane	50.000	49.741	0.5	97	0.00
77	T	Bromobenzene	50.000	50.525	-1.0	98	0.00
78	T	n-propylbenzene	50.000	53.967	-7.9	100	0.00
79	T	2-Chlorotoluene	50.000	51.057	-2.1	100	0.00
80	T	1,3,5-Trimethylbenzene	50.000	53.534	-7.1	99	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	52.482	-5.0	100	0.00
82	T	4-Chlorotoluene	50.000	52.422	-4.8	98	0.00
83	T	tert-Butylbenzene	50.000	53.274	-6.5	100	0.00
84	T	1,2,4-Trimethylbenzene	50.000	52.990	-6.0	98	0.00
85	T	sec-Butylbenzene	50.000	53.903	-7.8	99	0.00
86	T	p-Isopropyltoluene	50.000	54.337	-8.7	101	0.00
87	T	1,3-Dichlorobenzene	50.000	50.521	-1.0	98	0.00
88	T	1,4-Dichlorobenzene	50.000	49.117	1.8	97	0.00
89	T	n-Butylbenzene	50.000	55.189	-10.4	99	0.00
90	T	Hexachloroethane	50.000	54.066	-8.1	102	0.00
91	T	1,2-Dichlorobenzene	50.000	49.938	0.1	98	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	53.226	-6.5	98	0.00
93	T	1,2,4-Trichlorobenzene	50.000	51.935	-3.9	101	0.00
94	T	Hexachlorobutadiene	50.000	49.961	0.1	98	0.00
95	T	Naphthalene	50.000	52.765	-5.5	97	0.00

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045532.D
Acq On : 01 Apr 2025 19:48
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX040225

Quant Time: Apr 02 03:14:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 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	50.396	-0.8	97	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: JACO05

Lab Code: CHEM Case No.: Q1697 SAS No.: Q1697 SDG No.: Q1697

Instrument ID: MSVOA_X Calibration Date/Time: 04/02/2025 10:02

Lab File ID: VX045534.D Init. Calib. Date(s): 04/01/2025 04/01/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 17:06 19:02

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Vinyl Chloride	0.703	0.712		1.3	20
1,1-Dichloroethene	0.600	0.594		-1	20
1,1-Dichloroethane	1.269	1.222	0.1	-3.7	20
cis-1,2-Dichloroethene	0.747	0.720		-3.6	20
1,1,1-Trichloroethane	1.105	1.091		-1.3	20
Benzene	1.463	1.434		-1.9	20
1,2-Dichloroethane	0.604	0.595		-1.5	20
Trichloroethene	0.348	0.348		0.1	20
1,1,2-Trichloroethane	0.353	0.338		-4.2	20
Tetrachloroethene	0.353	0.345		-2.2	20
1,2-Dichloroethane-d4	0.914	0.833		-9	20
Dibromofluoromethane	0.355	0.339		-4.5	20
Toluene-d8	1.238	1.178		-4.9	20
4-Bromofluorobenzene	0.451	0.440		-2.4	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045534.D
Acq On : 02 Apr 2025 10:02
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 03 01:44:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED
Reviewed By :John Carlone 04/03/2025
Supervised By :Mahesh Dadoda 04/03/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.538	168	108331	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.751	114	186062	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	160517	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	75751	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	90188	45.524	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 91.040%			
35) Dibromofluoromethane	5.379	113	63055	47.765	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 95.520%			
50) Toluene-d8	8.641	98	219109	47.553	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 95.100%			
62) 4-Bromofluorobenzene	11.079	95	81886	48.789	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 97.580%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	91613	56.548	ug/l	100
3) Chloromethane	1.301	50	85609	51.436	ug/l	98
4) Vinyl Chloride	1.374	62	77123	50.633	ug/l	97
5) Bromomethane	1.593	94	34386	47.612	ug/l	99
6) Chloroethane	1.666	64	41334	51.148	ug/l	98
7) Trichlorofluoromethane	1.874	101	113427	49.938	ug/l	97
8) Diethyl Ether	2.130	74	36065	47.295	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.319	101	69166	51.967	ug/l	97
10) Methyl Iodide	2.441	142	79474	47.873	ug/l	99
11) Tert butyl alcohol	2.971	59	64349	241.693	ug/l	99
12) 1,1-Dichloroethene	2.307	96	64391	49.512	ug/l	99
13) Acrolein	2.233	56	86651	236.341	ug/l	98
14) Allyl chloride	2.654	41	124885	50.610	ug/l	99
15) Acrylonitrile	3.062	53	199897	237.850	ug/l	100
16) Acetone	2.380	43	219522	269.851	ug/l	99
17) Carbon Disulfide	2.502	76	170048	52.941	ug/l	99
18) Methyl Acetate	2.703	43	88934	47.483	ug/l	99
19) Methyl tert-butyl Ether	3.111	73	225103	49.480	ug/l	100
20) Methylene Chloride	2.782	84	72429	47.558	ug/l	98
21) trans-1,2-Dichloroethene	3.081	96	65593	49.368	ug/l	99
22) Diisopropyl ether	3.757	45	236947	48.747	ug/l	99
23) Vinyl Acetate	3.715	43	1073082	255.517	ug/l	99
24) 1,1-Dichloroethane	3.599	63	132355	48.148	ug/l	100
25) 2-Butanone	4.550	43	298310	250.515	ug/l	99
26) 2,2-Dichloropropane	4.465	77	102814	57.888	ug/l	99
27) cis-1,2-Dichloroethene	4.477	96	78009	48.192	ug/l	98
28) Bromochloromethane	4.885	49	60228	45.338	ug/l	97
29) Tetrahydrofuran	4.995	42	180703	234.063	ug/l	99
30) Chloroform	5.080	83	135555	47.923	ug/l	100
31) Cyclohexane	5.458	56	119435	49.146	ug/l	97
32) 1,1,1-Trichloroethane	5.373	97	118147	49.363	ug/l	99
36) 1,1-Dichloropropene	5.678	75	90022	50.506	ug/l	98
37) Ethyl Acetate	4.709	43	108238	48.187	ug/l	99
38) Carbon Tetrachloride	5.666	117	99640	51.725	ug/l	99
39) Methylcyclohexane	7.373	83	118606	54.285	ug/l	98
40) Benzene	6.031	78	266898	49.029	ug/l	99

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045534.D
Acq On : 02 Apr 2025 10:02
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 03 01:44:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 04/03/2025
Supervised By :Mahesh Dadoda 04/03/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.910	41	61962	52.281	ug/l		99
42) 1,2-Dichloroethane	6.080	62	110762	49.263	ug/l		100
43) Isopropyl Acetate	6.336	43	174259	51.186	ug/l		100
44) Trichloroethene	7.117	130	64754	50.047	ug/l		99
45) 1,2-Dichloropropane	7.421	63	67275	49.531	ug/l		99
46) Dibromomethane	7.574	93	52015	49.887	ug/l		99
47) Bromodichloromethane	7.812	83	104558	50.214	ug/l		97
48) Methyl methacrylate	7.690	41	89385	50.851	ug/l		99
49) 1,4-Dioxane	7.653	88	31982	1005.638	ug/l		99
51) 4-Methyl-2-Pentanone	8.568	43	568320	251.819	ug/l		100
52) Toluene	8.714	92	160666	48.776	ug/l		100
53) t-1,3-Dichloropropene	8.976	75	96566	48.307	ug/l		98
54) cis-1,3-Dichloropropene	8.360	75	106354	54.353	ug/l		96
55) 1,1,2-Trichloroethane	9.147	97	62853	47.884	ug/l		98
56) Ethyl methacrylate	9.110	69	106636	52.494	ug/l		98
57) 1,3-Dichloropropane	9.305	76	111980	48.991	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	260922	253.906	ug/l		100
59) 2-Hexanone	9.427	43	429585	257.042	ug/l		100
60) Dibromochloromethane	9.519	129	75579	52.816	ug/l		97
61) 1,2-Dibromoethane	9.604	107	66659	50.167	ug/l		98
64) Tetrachloroethene	9.269	164	55415	48.897	ug/l		98
65) Chlorobenzene	10.073	112	173859	50.688	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.159	131	60389	50.712	ug/l		99
67) Ethyl Benzene	10.189	91	316517	51.524	ug/l		99
68) m/p-Xylenes	10.299	106	231135	103.448	ug/l		100
69) o-Xylene	10.640	106	112957	51.320	ug/l		99
70) Styrene	10.653	104	190725	52.502	ug/l		100
71) Bromoform	10.799	173	48468	54.510	ug/l	#	98
73) Isopropylbenzene	10.957	105	301760	49.732	ug/l		100
74) N-amyl acetate	10.842	43	151028	52.034	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.207	83	99649	46.750	ug/l		100
76) 1,2,3-Trichloropropane	11.238	75	88297m	47.786	ug/l		
77) Bromobenzene	11.195	156	68200	48.646	ug/l		100
78) n-propylbenzene	11.299	91	359128	51.385	ug/l		100
79) 2-Chlorotoluene	11.360	91	216348	48.421	ug/l		100
80) 1,3,5-Trimethylbenzene	11.451	105	253739	50.571	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.012	75	28721	52.754	ug/l		97
82) 4-Chlorotoluene	11.451	91	247039	49.590	ug/l		99
83) tert-Butylbenzene	11.713	119	251225	50.574	ug/l		99
84) 1,2,4-Trimethylbenzene	11.750	105	254295	50.496	ug/l		100
85) sec-Butylbenzene	11.890	105	316086	51.807	ug/l		100
86) p-Isopropyltoluene	12.006	119	262553	52.197	ug/l		100
87) 1,3-Dichlorobenzene	11.969	146	126303	49.492	ug/l		99
88) 1,4-Dichlorobenzene	12.036	146	126559	48.917	ug/l		99
89) n-Butylbenzene	12.329	91	242867	55.679	ug/l		99
90) Hexachloroethane	12.536	117	46220	53.467	ug/l		98
91) 1,2-Dichlorobenzene	12.329	146	124379	49.021	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	23015	51.629	ug/l		100
93) 1,2,4-Trichlorobenzene	13.585	180	74511	52.758	ug/l		98
94) Hexachlorobutadiene	13.725	225	31694	52.078	ug/l		99
95) Naphthalene	13.774	128	267161	50.832	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	75942	51.352	ug/l		98

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045534.D
Acq On : 02 Apr 2025 10:02
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 03 01:44:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 04/03/2025
Supervised By :Mahesh Dadoda 04/03/2025

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

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

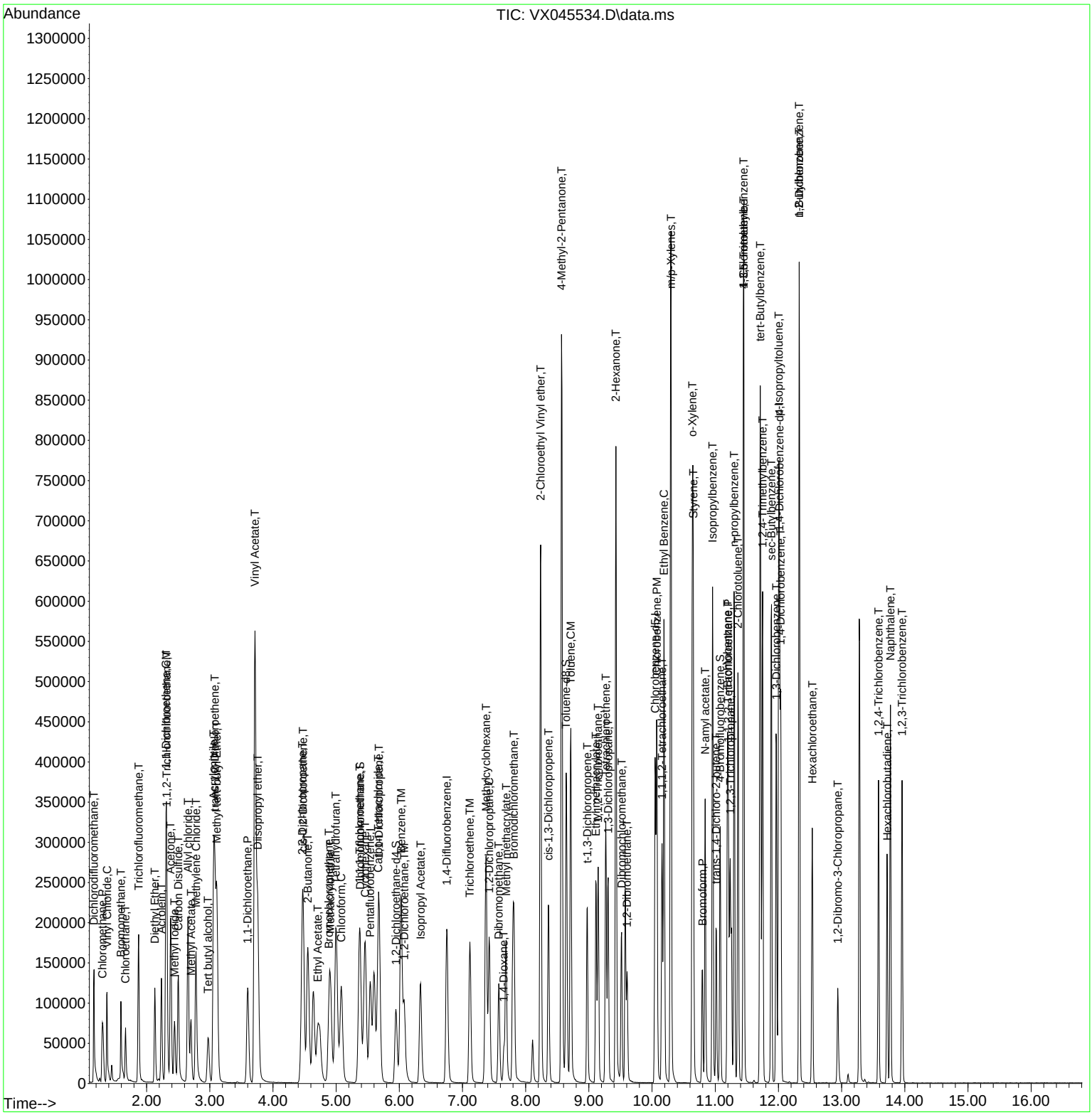
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045534.D
Acq On : 02 Apr 2025 10:02
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

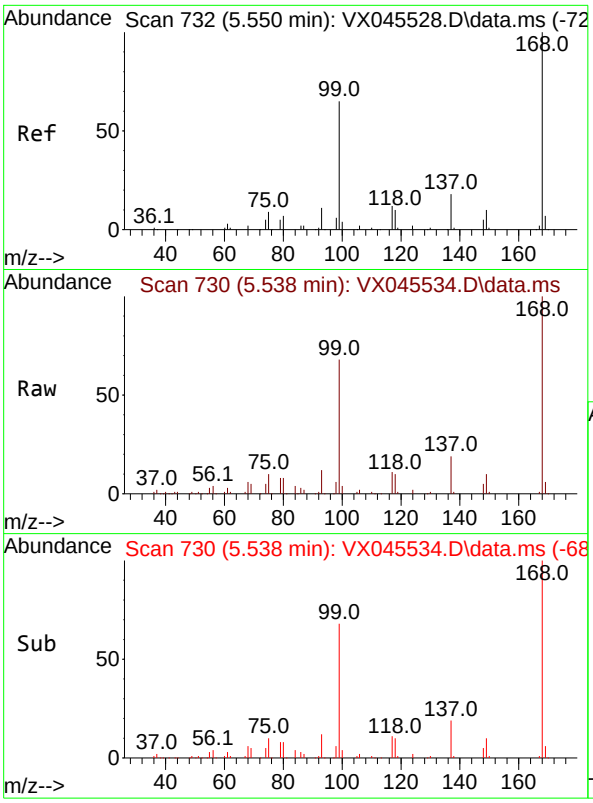
Quant Time: Apr 03 01:44:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 04/03/2025
Supervised By :Mahesh Dadoda 04/03/2025

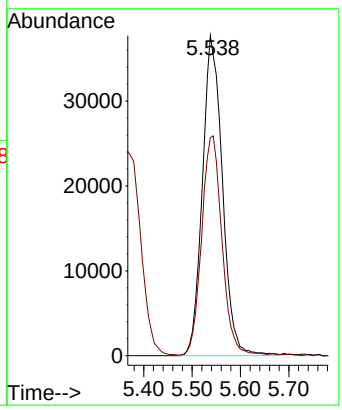




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 7
Delta R.T. -0.012 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion:168 Resp: 10833

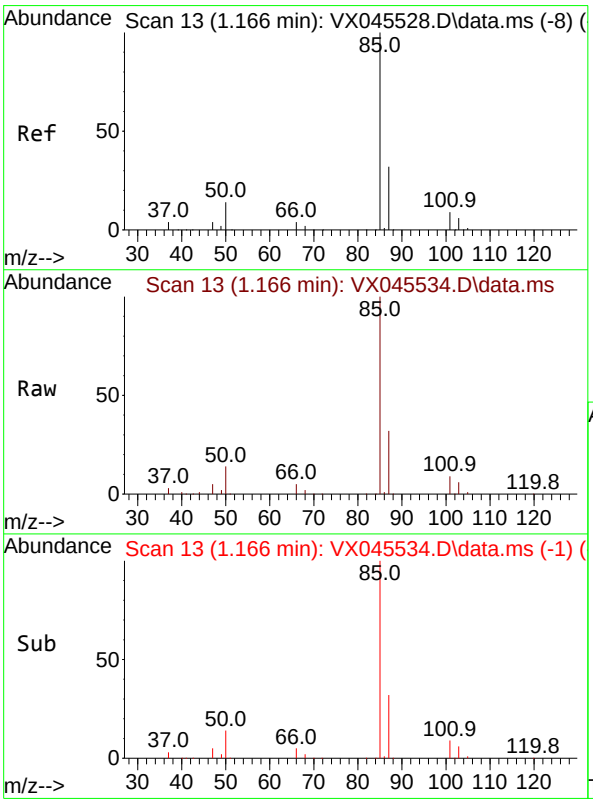
Ion	Ratio	Lower	Upper
168	100		
99	67.9	52.3	78.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

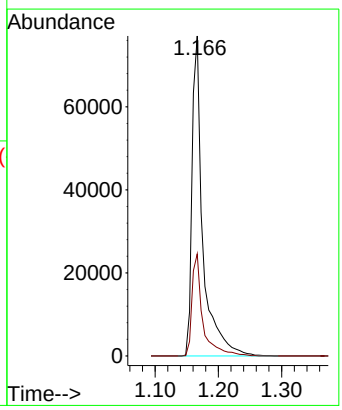
Reviewed By :John Carlone 04/03/2025
Supervised By :Mahesh Dadoda 04/03/2025

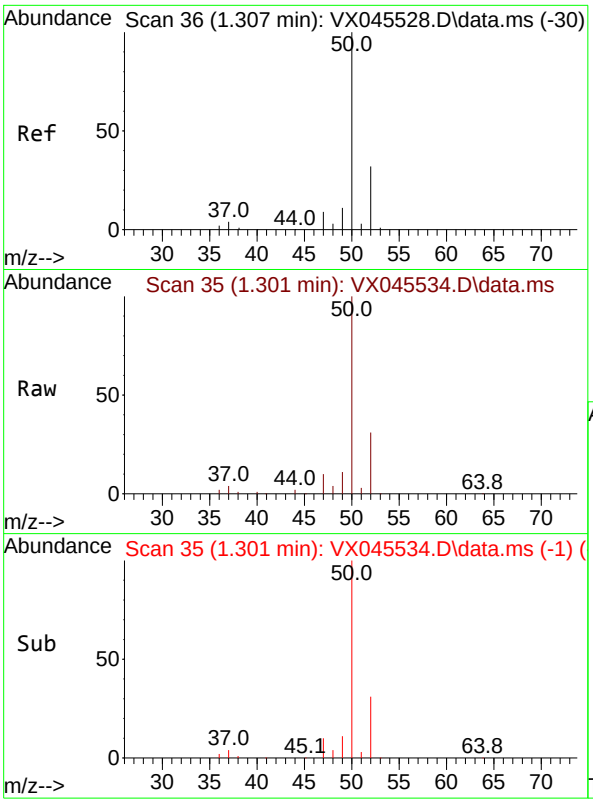


#2
Dichlorodifluoromethane
Concen: 56.548 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion: 85 Resp: 91613

Ion	Ratio	Lower	Upper
85	100		
87	31.9	16.1	48.2

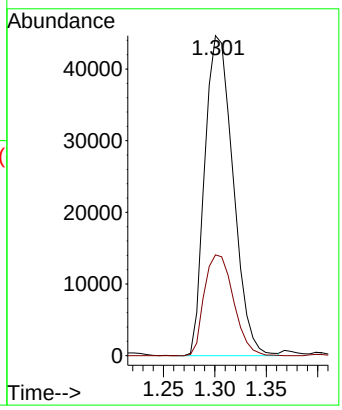




#3
Chloromethane
Concen: 51.436 ug/l
RT: 1.301 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion: 50 Resp: 8560

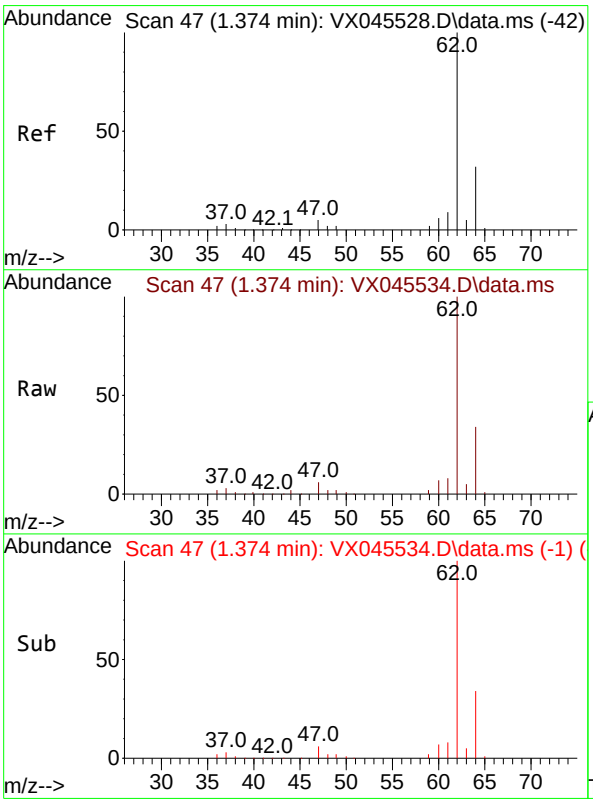
Ion	Ratio	Lower	Upper
50	100		
52	31.5	25.9	38.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

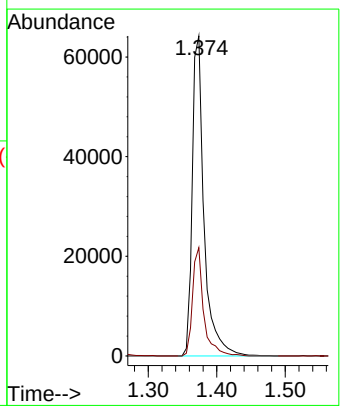
Reviewed By :John Carlone 04/03/2025
Supervised By :Mahesh Dadoda 04/03/2025

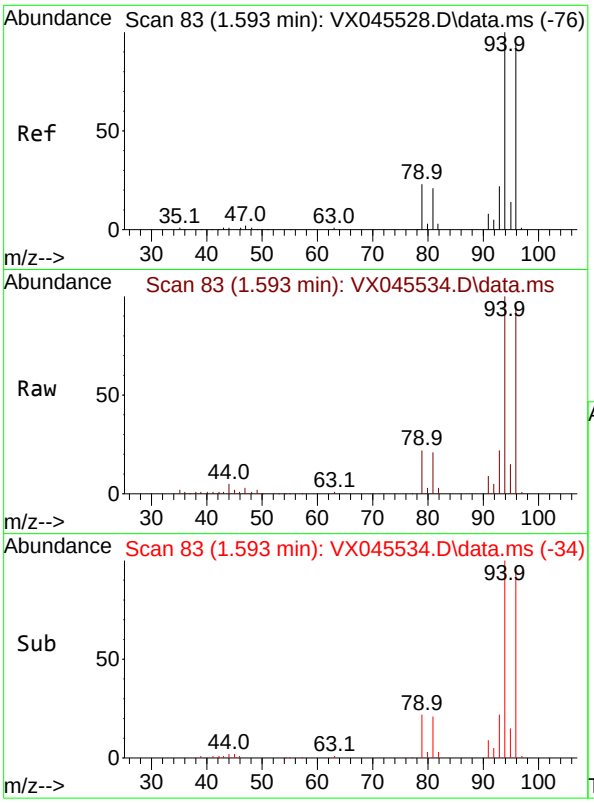


#4
Vinyl Chloride
Concen: 50.633 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion: 62 Resp: 77123

Ion	Ratio	Lower	Upper
62	100		
64	33.8	25.5	38.3

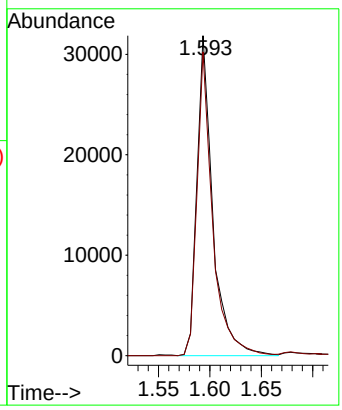




#5
Bromomethane
Concen: 47.612 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion: 94 Resp: 3438

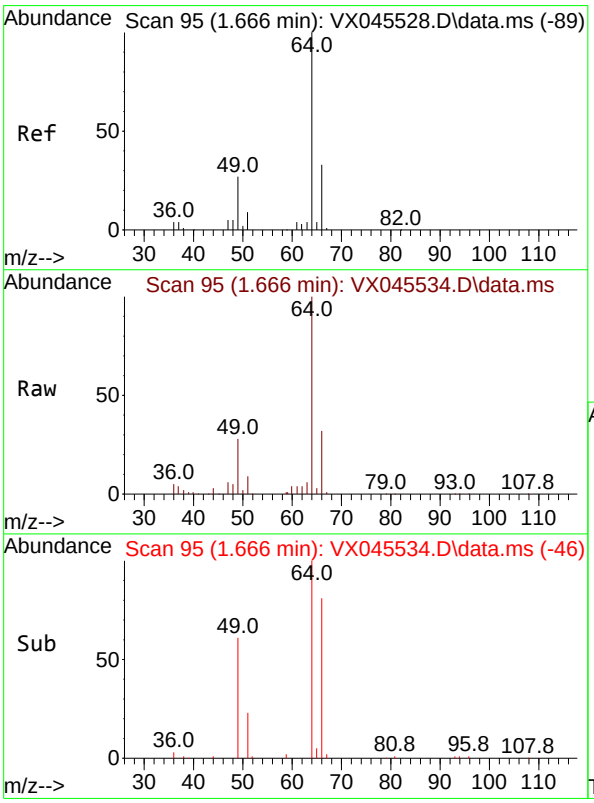
Ion	Ratio	Lower	Upper
94	100		
96	94.9	74.8	112.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

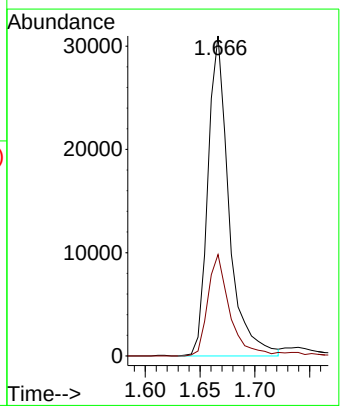
Reviewed By :John Carlone 04/03/2025
Supervised By :Mahesh Dadoda 04/03/2025

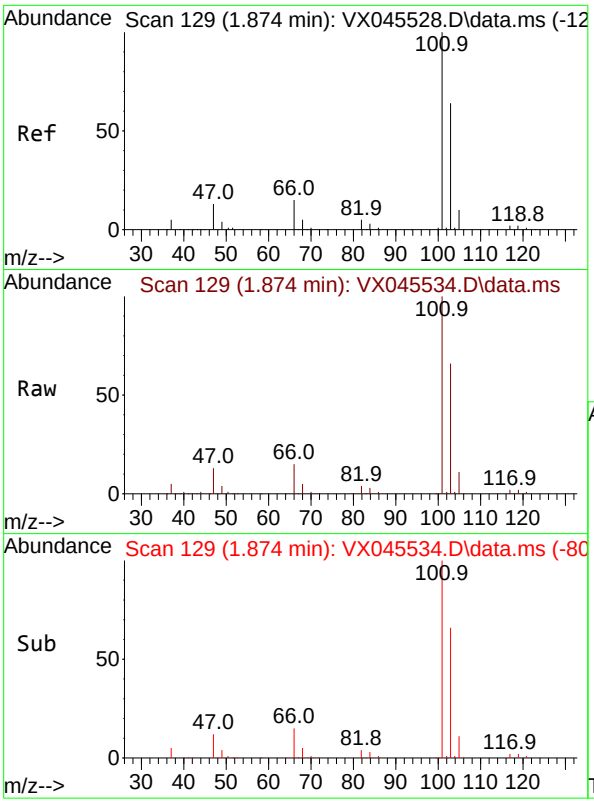


#6
Chloroethane
Concen: 51.148 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.000 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion: 64 Resp: 41334

Ion	Ratio	Lower	Upper
64	100		
66	31.7	26.3	39.5

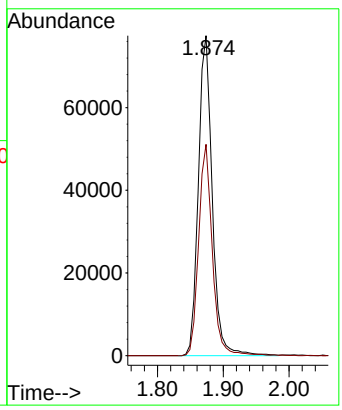




#7
Trichlorofluoromethane
Concen: 49.938 ug/l
RT: 1.874 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion:101 Resp: 11342

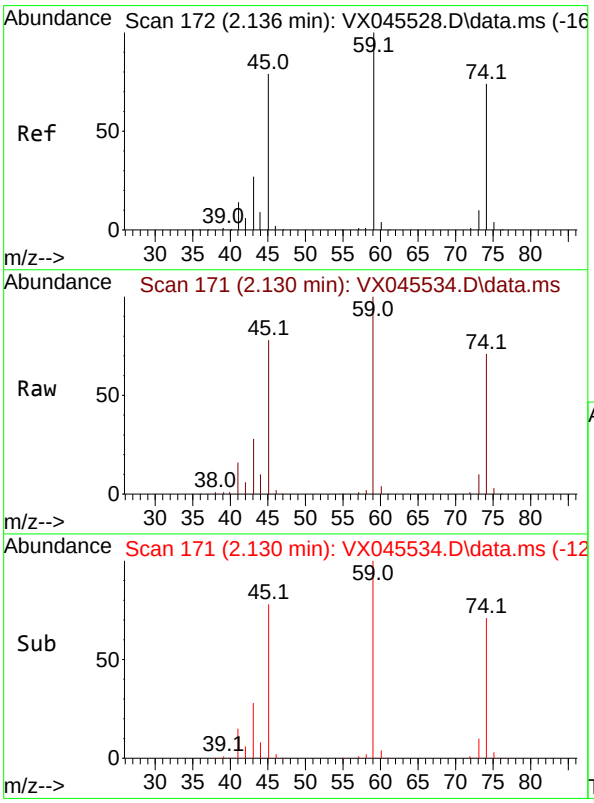
Ion	Ratio	Lower	Upper
101	100		
103	66.1	51.1	76.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

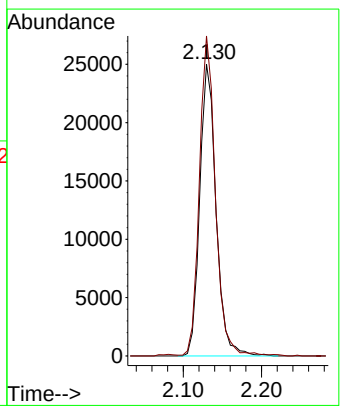
Reviewed By :John Carlone 04/03/2025
Supervised By :Mahesh Dadoda 04/03/2025

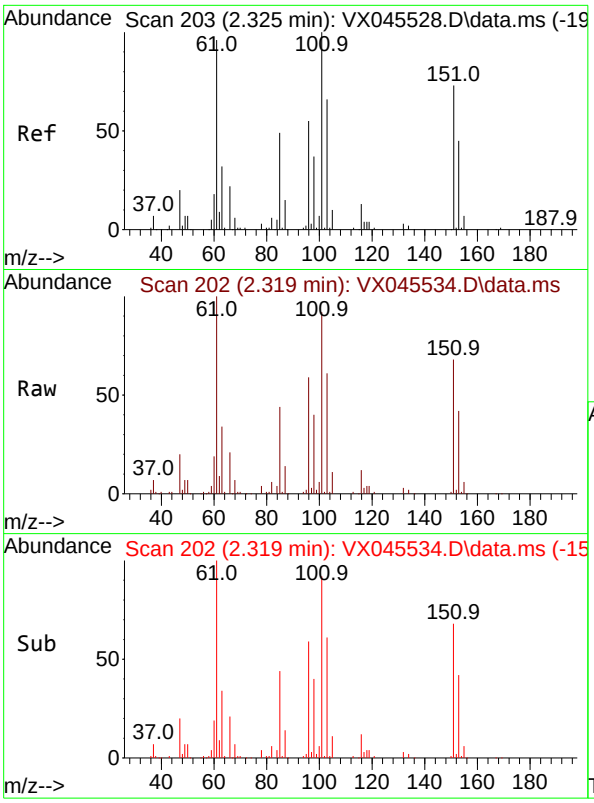


#8
Diethyl Ether
Concen: 47.295 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion: 74 Resp: 36065

Ion	Ratio	Lower	Upper
74	100		
45	107.0	53.0	159.1





#9
1,1,2-Trichlorotrifluoroethane
Concen: 51.967 ug/l
RT: 2.319 min Scan# 2(
Delta R.T. -0.006 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

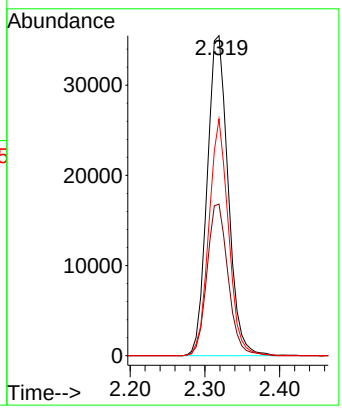
Tgt Ion:101 Resp: 6916(

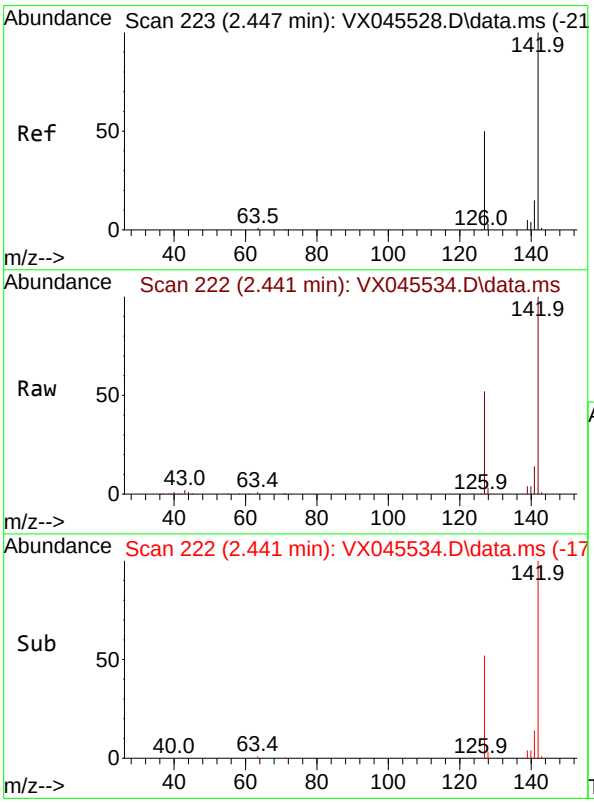
Ion	Ratio	Lower	Upper
101	100		
85	47.7	38.9	58.3
151	69.0	57.5	86.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/03/2025
Supervised By :Mahesh Dadoda 04/03/2025

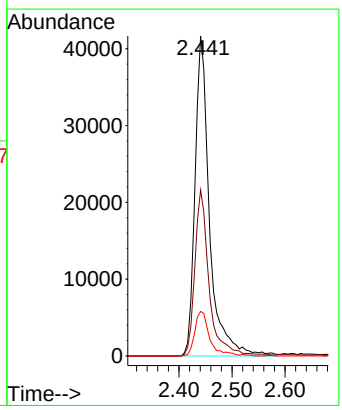


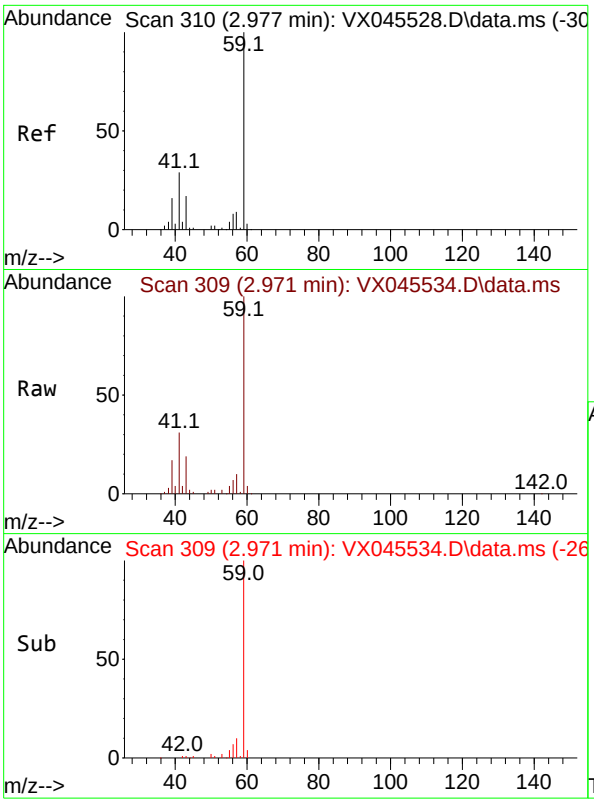


#10
Methyl Iodide
Concen: 47.873 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.006 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion:142 Resp: 79474

Ion	Ratio	Lower	Upper
142	100		
127	51.1	40.2	60.4
141	14.1	11.7	17.5





#11
Tert butyl alcohol
Concen: 241.693 ug/l
RT: 2.971 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

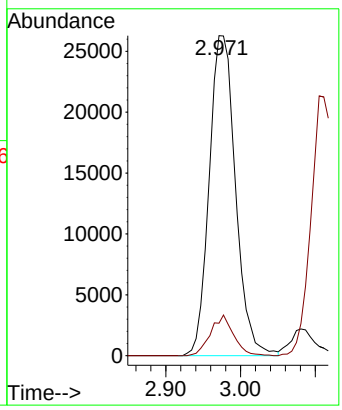
Tgt Ion: 59 Resp: 6434

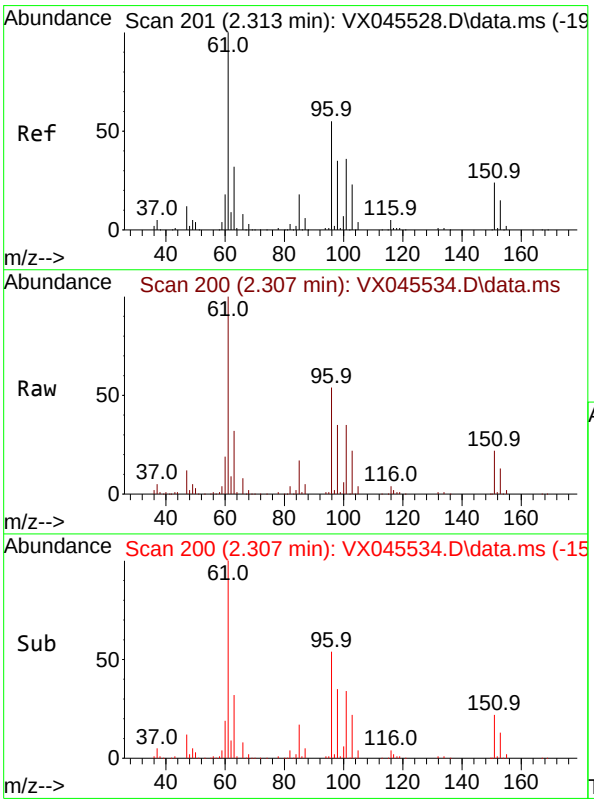
Ion	Ratio	Lower	Upper
59	100		
57	11.1	8.6	12.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/03/2025
Supervised By :Mahesh Dadoda 04/03/2025

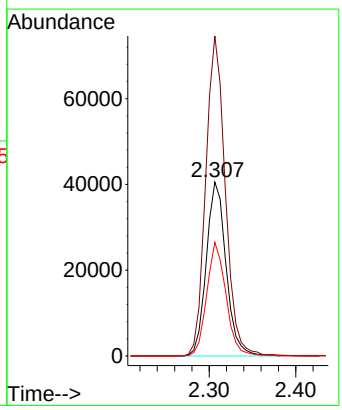


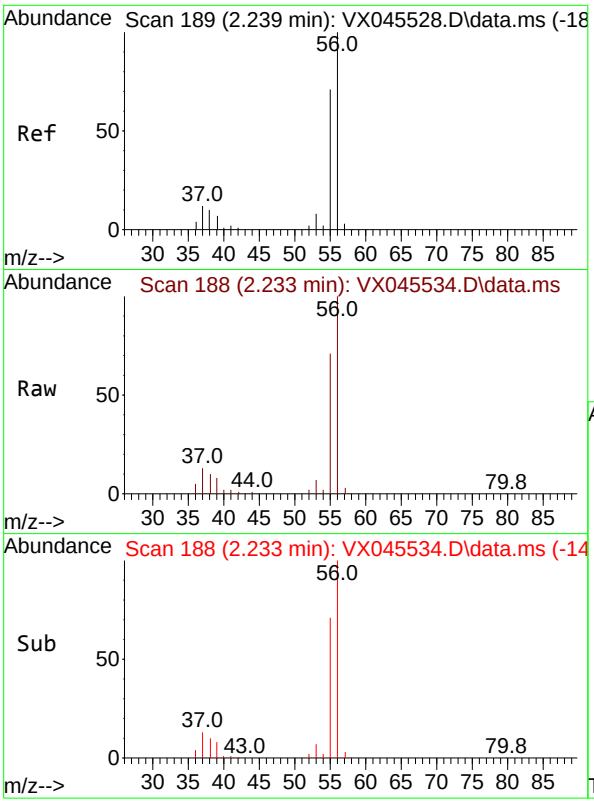


#12
1,1-Dichloroethene
Concen: 49.512 ug/l
RT: 2.307 min Scan# 200
Delta R.T. -0.006 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion: 96 Resp: 64391

Ion	Ratio	Lower	Upper
96	100		
61	183.9	145.7	218.5
98	65.3	51.6	77.4

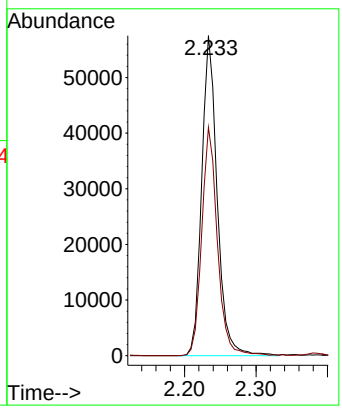




#13
Acrolein
Concen: 236.341 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion: 56 Resp: 8665

Ion	Ratio	Lower	Upper
56	100		
55	72.1	56.2	84.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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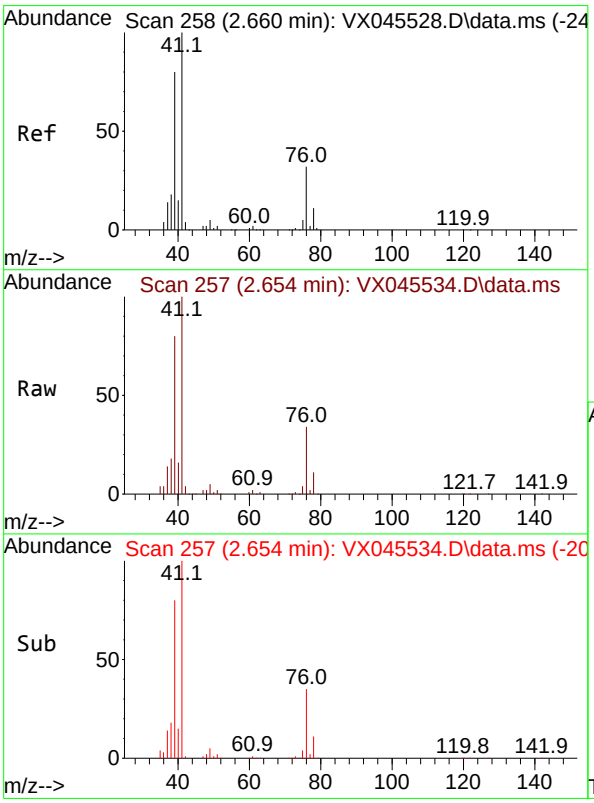
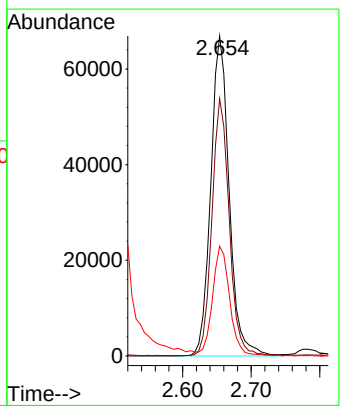
Supervised By :Mahesh Dadoda 04/03/2025

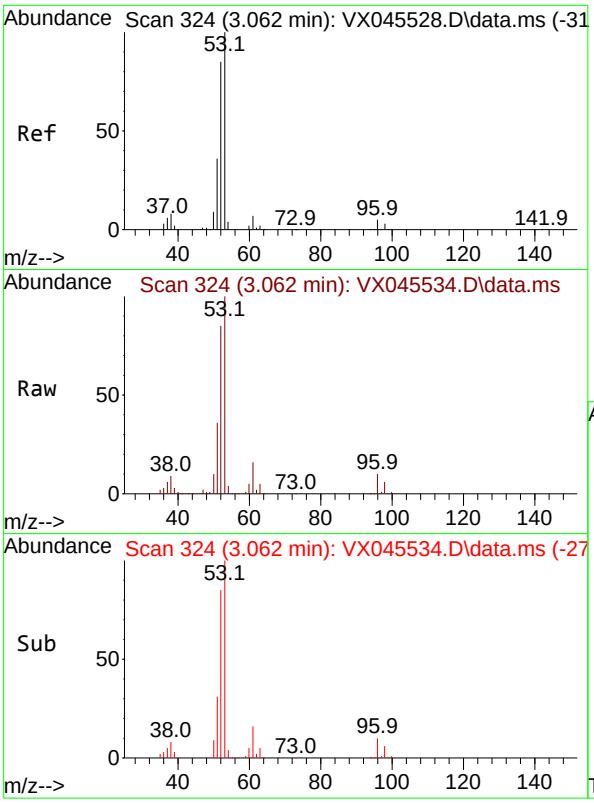


#14
Allyl chloride
Concen: 50.610 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.006 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion: 41 Resp: 124885

Ion	Ratio	Lower	Upper
41	100		
39	75.2	60.2	90.2
76	31.9	24.6	36.8





#15
Acrylonitrile
Concen: 237.850 ug/l
RT: 3.062 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion: 53 Resp: 19989

Ion	Ratio	Lower	Upper
53	100		
52	83.8	67.4	101.2
51	37.6	29.9	44.9

Instrument :
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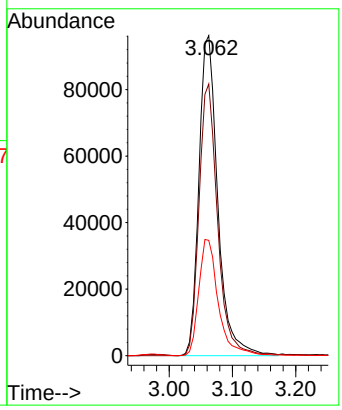
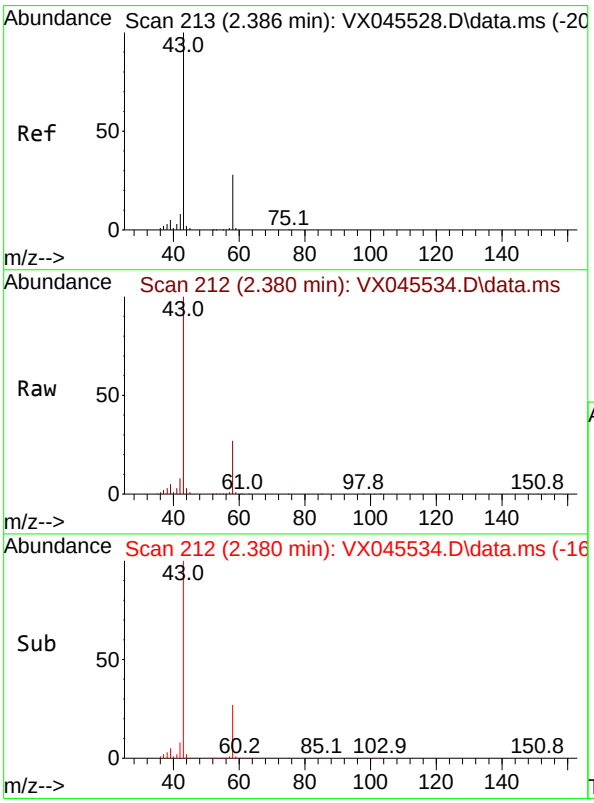
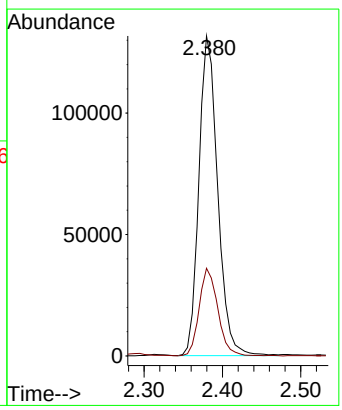


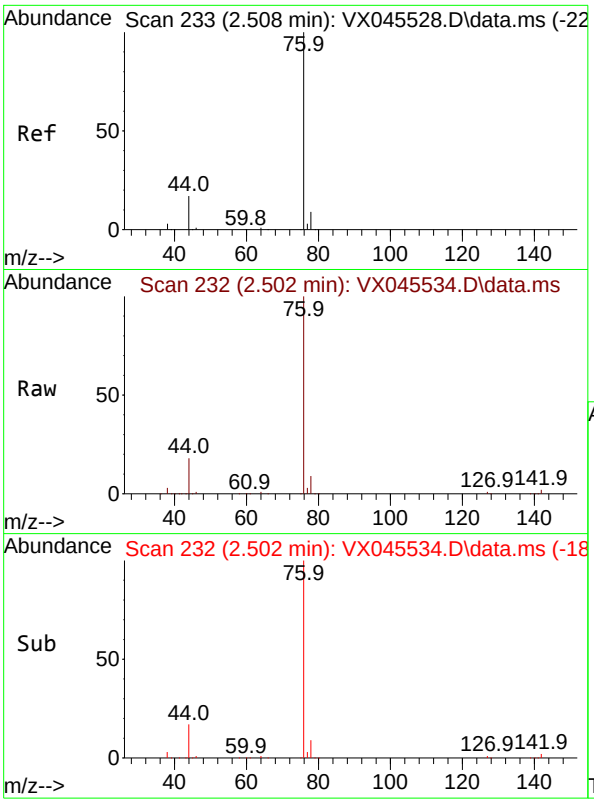


#16
Acetone
Concen: 269.851 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion: 43 Resp: 219522

Ion	Ratio	Lower	Upper
43	100		
58	27.4	22.3	33.5





#17
Carbon Disulfide
Concen: 52.941 ug/l
RT: 2.502 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion: 76 Resp: 17004

Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.0	10.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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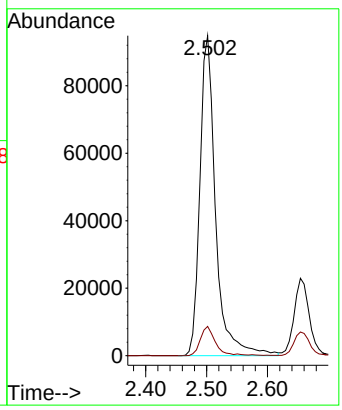
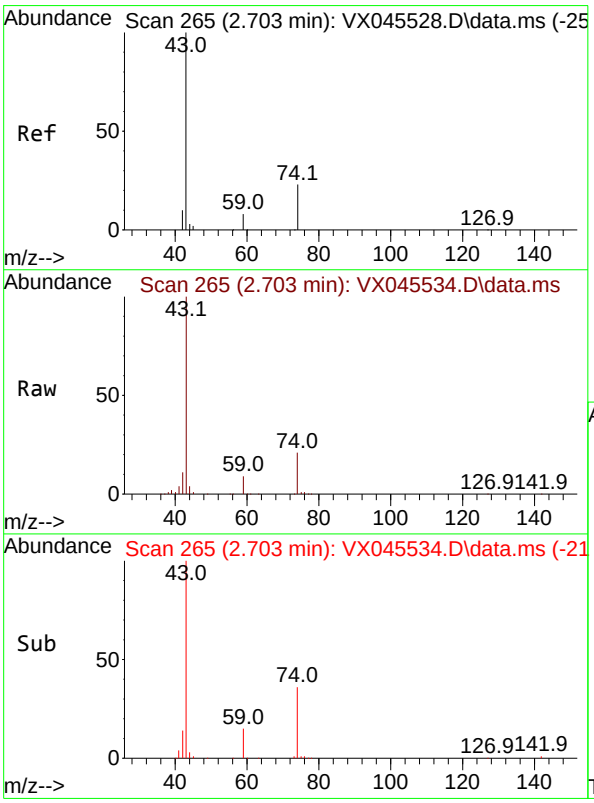
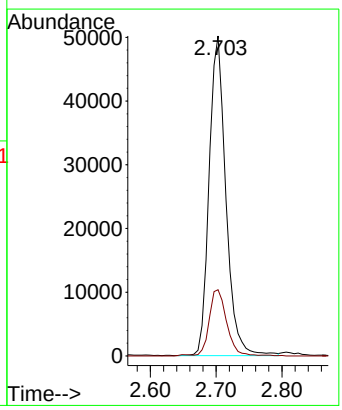


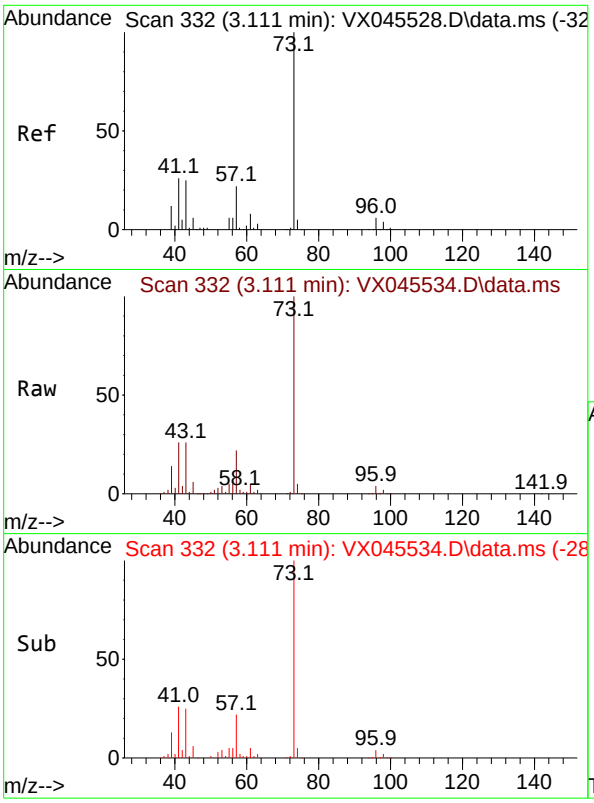


#18
Methyl Acetate
Concen: 47.483 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion: 43 Resp: 88934

Ion	Ratio	Lower	Upper
43	100		
74	21.6	17.5	26.3

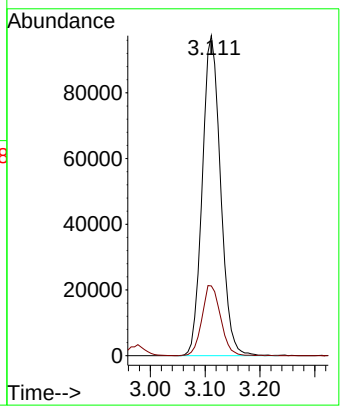




#19
Methyl tert-butyl Ether
Concen: 49.480 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion: 73 Resp: 22510

Ion	Ratio	Lower	Upper
73	100		
57	21.8	17.6	26.4



Instrument :
MSVOA_X
ClientSampleId :
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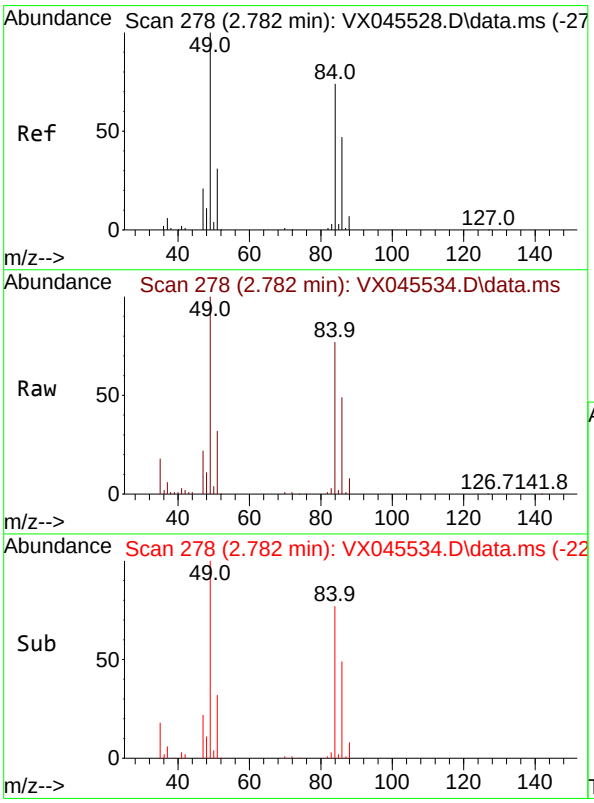
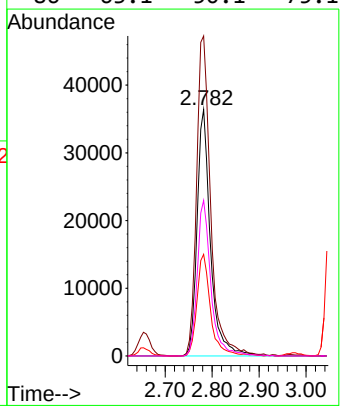
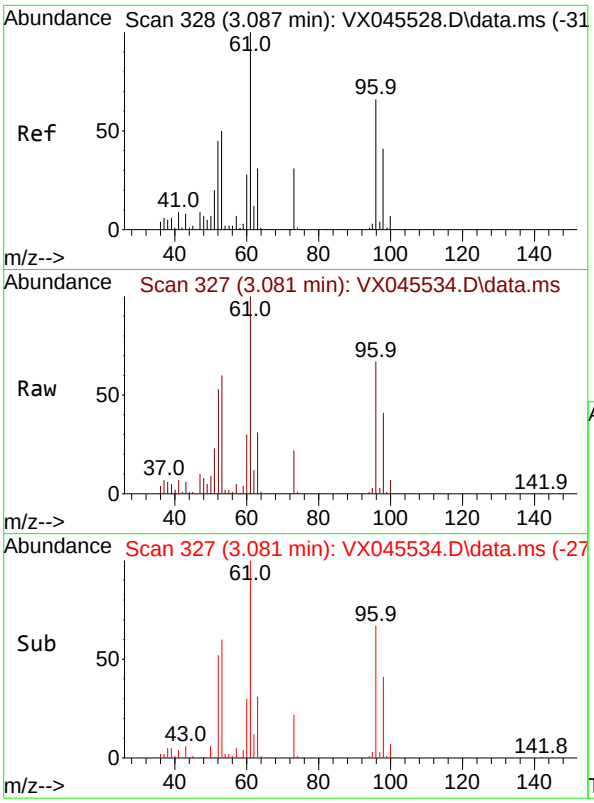


#20
Methylene Chloride
Concen: 47.558 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion: 84 Resp: 72429

Ion	Ratio	Lower	Upper
84	100		
49	129.9	107.5	161.3
51	41.3	33.0	49.6
86	63.1	50.1	75.1

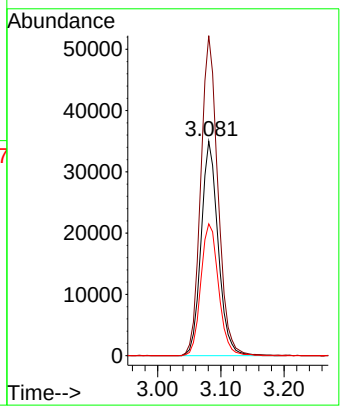




#21
trans-1,2-Dichloroethene
Concen: 49.368 ug/l
RT: 3.081 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion: 96 Resp: 6559

Ion	Ratio	Lower	Upper
96	100		
61	149.3	121.0	181.6
98	61.5	49.7	74.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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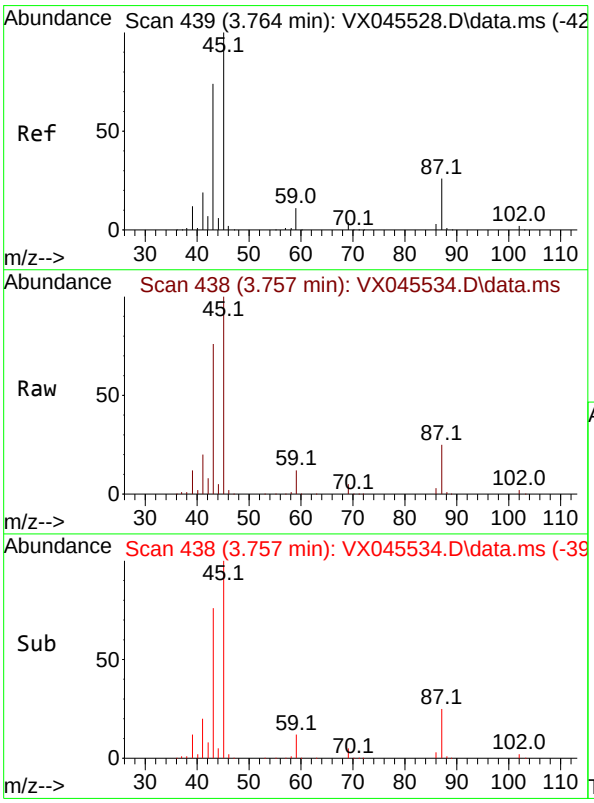
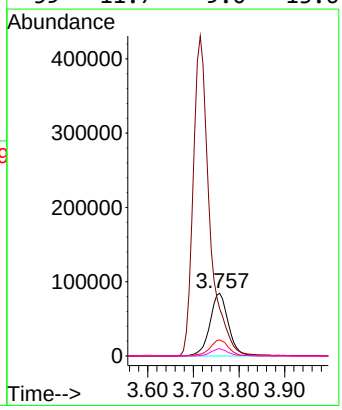
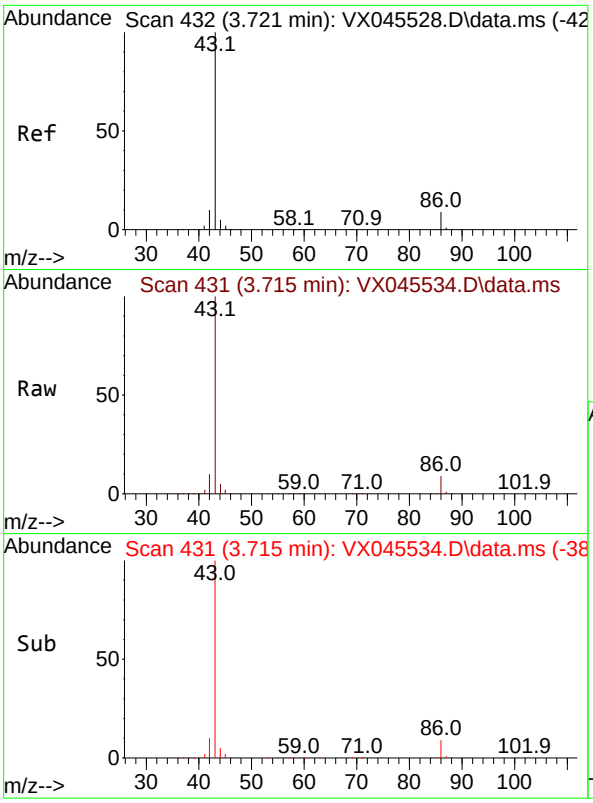


#22
Diisopropyl ether
Concen: 48.747 ug/l
RT: 3.757 min Scan# 438
Delta R.T. -0.006 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion: 45 Resp: 236947

Ion	Ratio	Lower	Upper
45	100		
43	75.3	59.3	88.9
87	25.5	20.4	30.6
59	11.7	9.0	13.6





#23
Vinyl Acetate
Concen: 255.517 ug/l
RT: 3.715 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion: 43 Resp: 107308

Ion	Ratio	Lower	Upper
43	100		
86	9.2	7.5	11.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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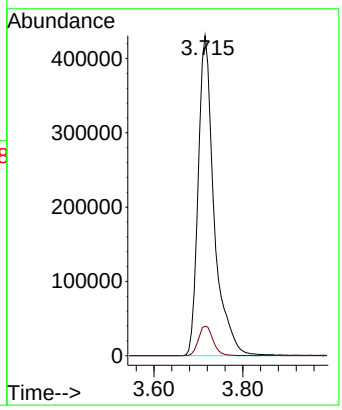
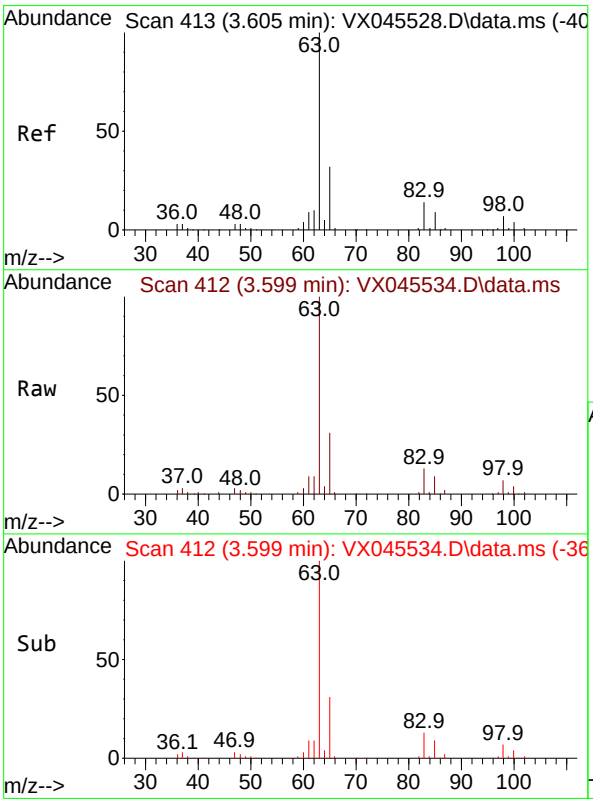
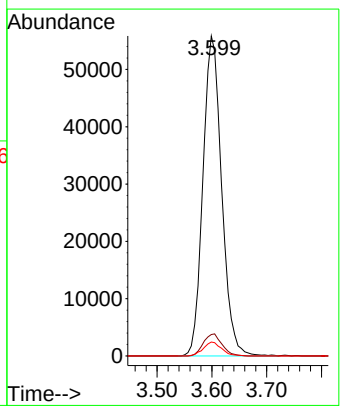


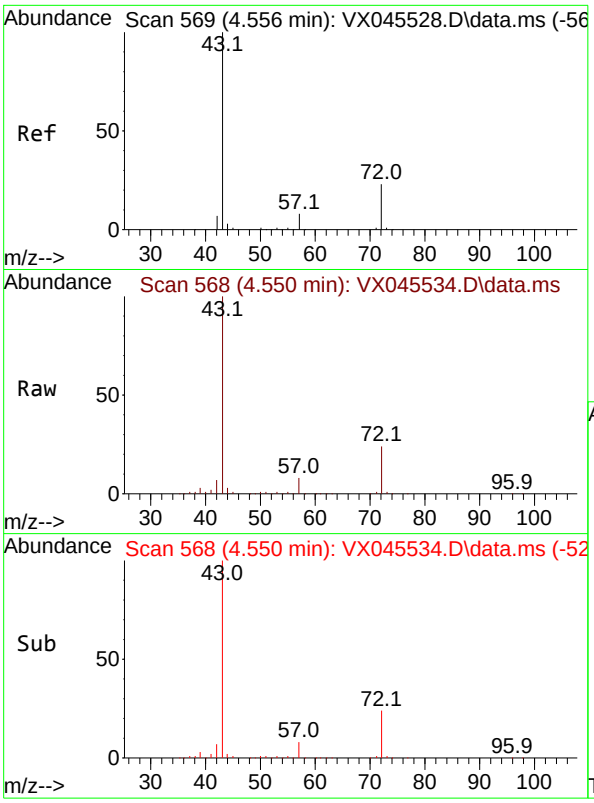


#24
1,1-Dichloroethane
Concen: 48.148 ug/l
RT: 3.599 min Scan# 412
Delta R.T. -0.006 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion: 63 Resp: 132355

Ion	Ratio	Lower	Upper
63	100		
98	6.7	3.4	10.1
100	4.3	2.2	6.6

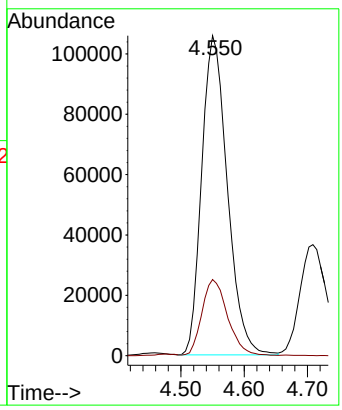




#25
2-Butanone
Concen: 250.515 ug/l
RT: 4.550 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion: 43 Resp: 29831

Ion	Ratio	Lower	Upper
43	100		
72	23.7	18.6	28.0



Instrument :
MSVOA_X
ClientSampleId :
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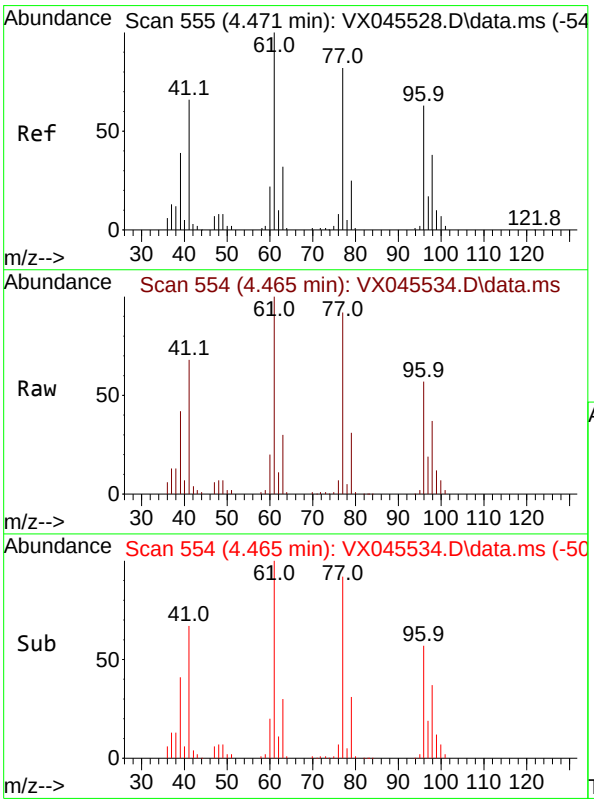
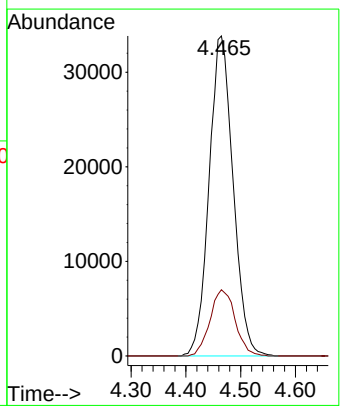
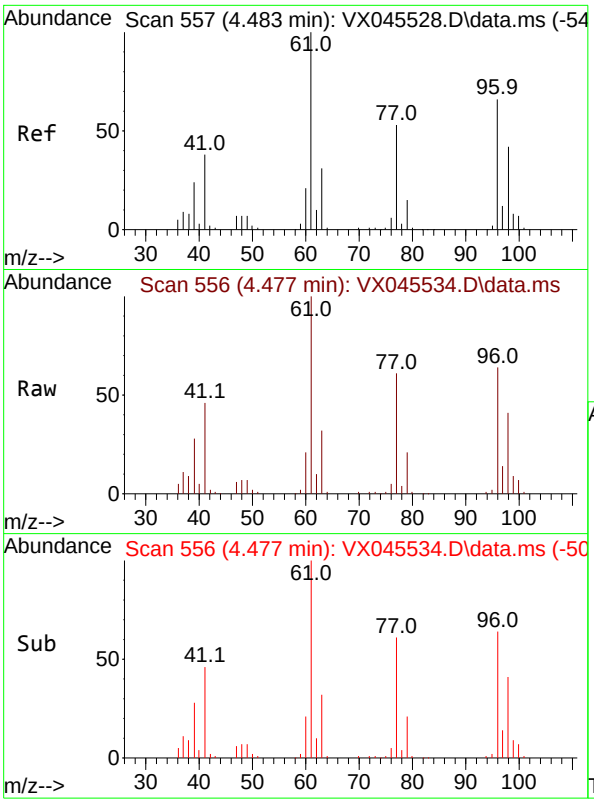


#26
2,2-Dichloropropane
Concen: 57.888 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.006 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion: 77 Resp: 102814

Ion	Ratio	Lower	Upper
77	100		
97	21.7	10.6	31.8

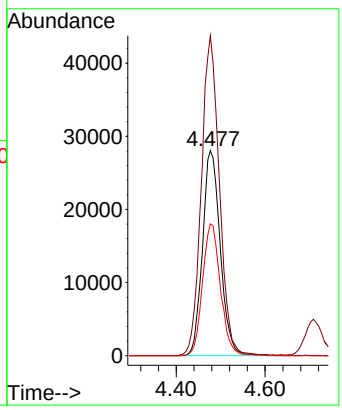




#27
cis-1,2-Dichloroethene
Concen: 48.192 ug/l
RT: 4.477 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion: 96 Resp: 7800

Ion	Ratio	Lower	Upper
96	100		
61	158.8	0.0	313.2
98	64.8	0.0	126.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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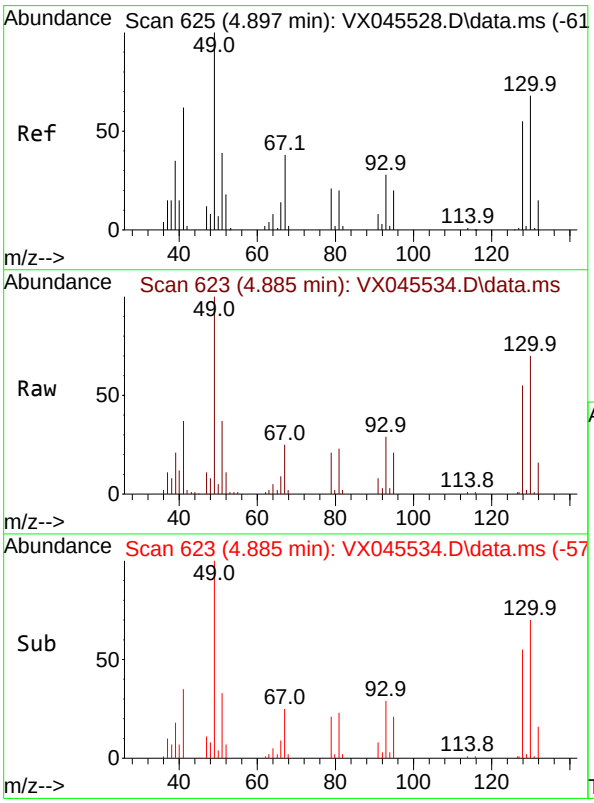
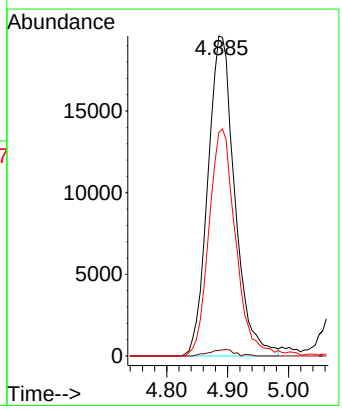
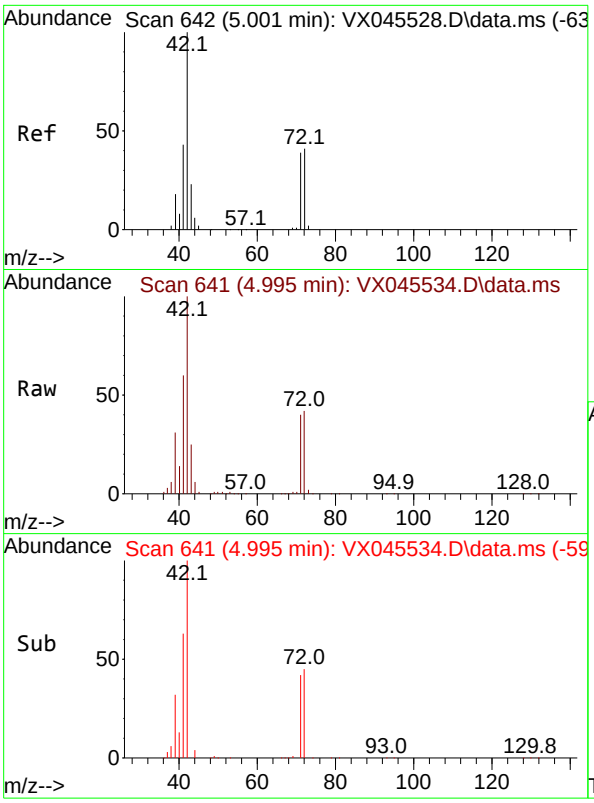


#28
Bromochloromethane
Concen: 45.338 ug/l
RT: 4.885 min Scan# 623
Delta R.T. -0.012 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion: 49 Resp: 60228

Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	3.8
130	70.3	54.6	81.8





#29
Tetrahydrofuran
Concen: 234.063 ug/l
RT: 4.995 min Scan# 64
Delta R.T. -0.006 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion: 42 Resp: 18070

Ion	Ratio	Lower	Upper
42	100		
72	42.7	33.4	50.0
71	39.2	31.4	47.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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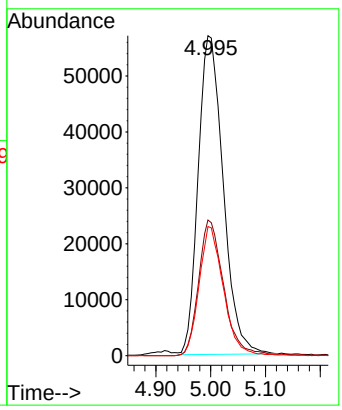
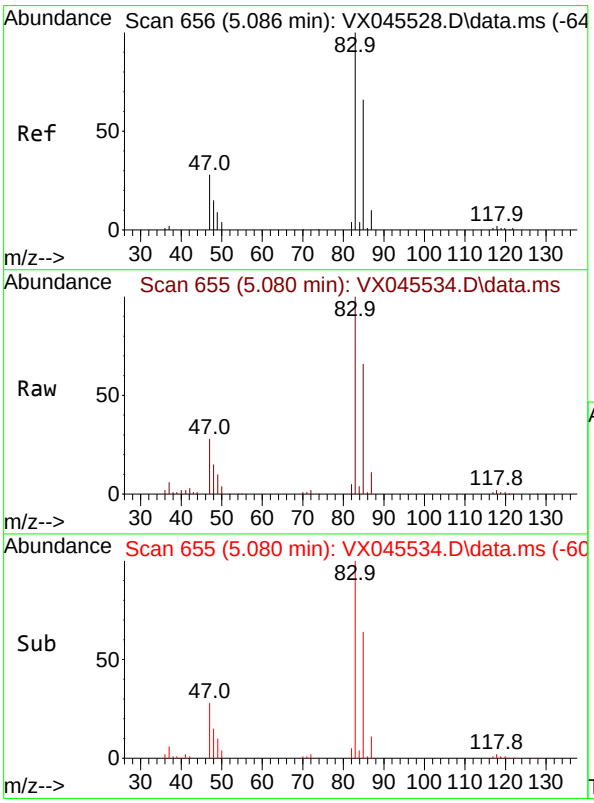
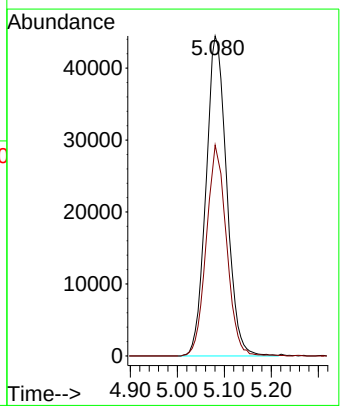


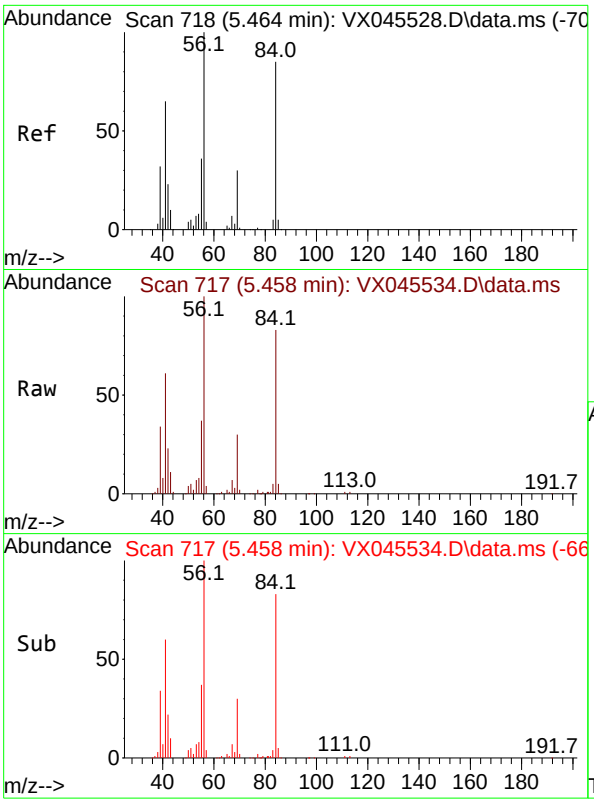


#30
Chloroform
Concen: 47.923 ug/l
RT: 5.080 min Scan# 655
Delta R.T. -0.006 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion: 83 Resp: 135555

Ion	Ratio	Lower	Upper
83	100		
85	65.9	52.8	79.2

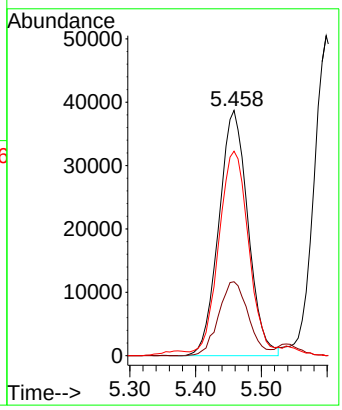




#31
Cyclohexane
Concen: 49.146 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion: 56 Resp: 11943

Ion	Ratio	Lower	Upper
56	100		
69	30.1	23.6	35.4
84	81.4	67.7	101.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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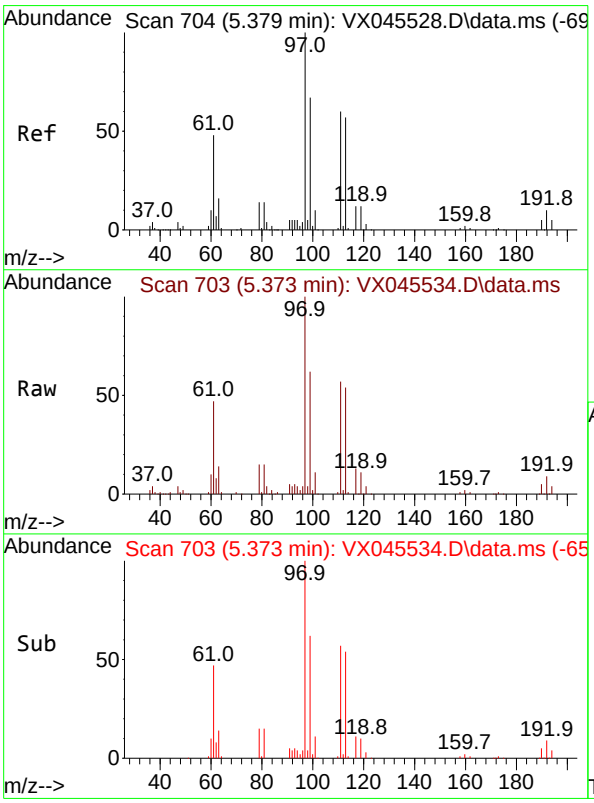
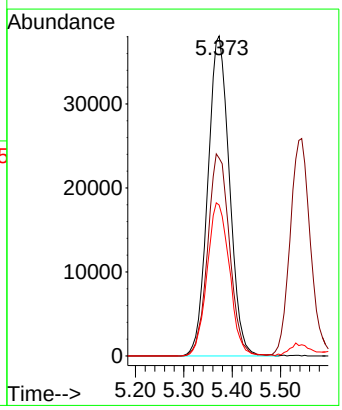
Reviewed By :John Carlone 04/03/2025
Supervised By :Mahesh Dadoda 04/03/2025

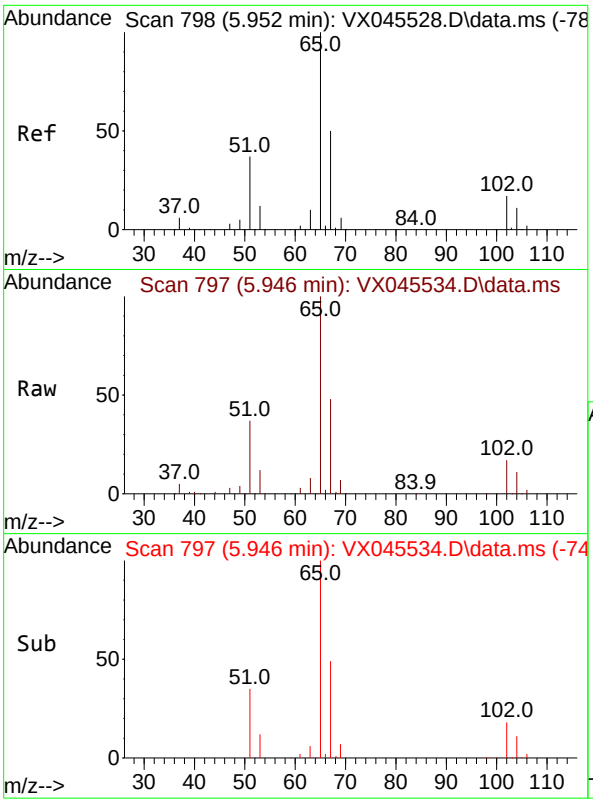


#32
1,1,1-Trichloroethane
Concen: 49.363 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.006 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion: 97 Resp: 118147

Ion	Ratio	Lower	Upper
97	100		
99	63.9	51.7	77.5
61	49.8	41.0	61.4

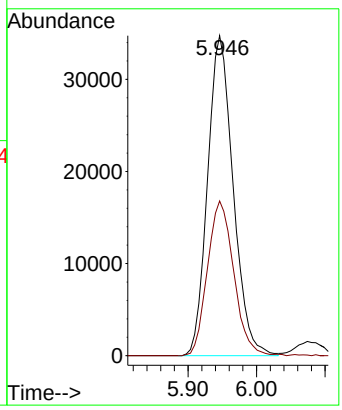




#33
1,2-Dichloroethane-d4
Concen: 45.524 ug/l
RT: 5.946 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion: 65 Resp: 9018

Ion	Ratio	Lower	Upper
65	100		
67	49.7	0.0	99.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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Reviewed By :John Carlone 04/03/2025
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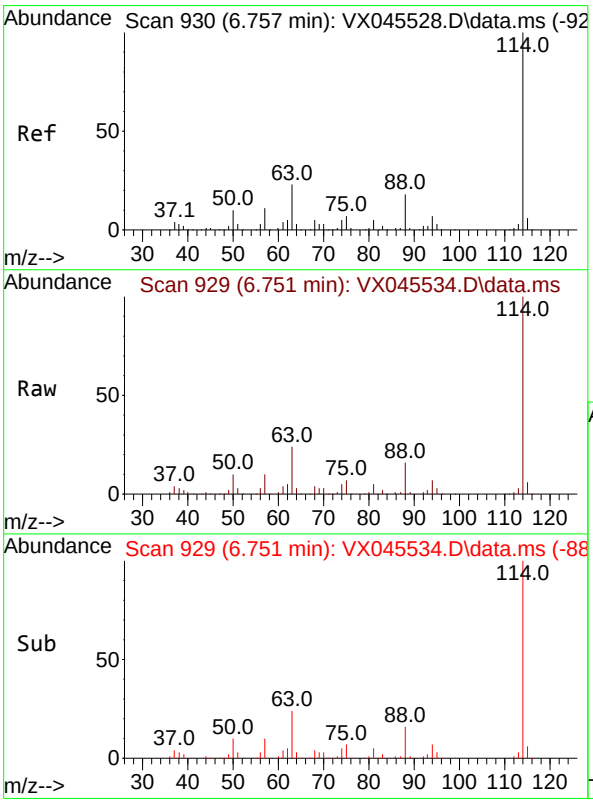
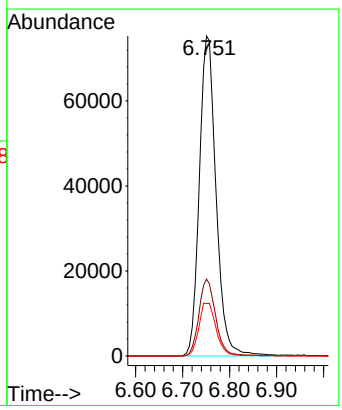
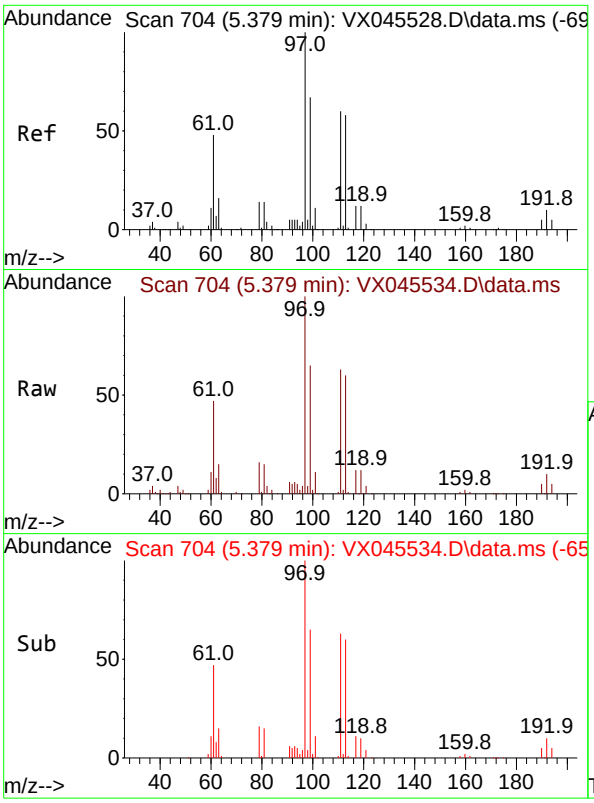


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. -0.006 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion:114 Resp: 186062

Ion	Ratio	Lower	Upper
114	100		
63	24.0	0.0	46.8
88	16.4	0.0	35.4

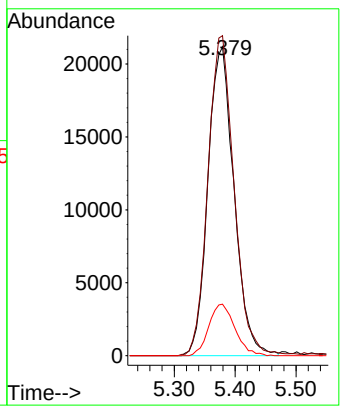




#35
Dibromofluoromethane
Concen: 47.765 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion:113 Resp: 6305

Ion	Ratio	Lower	Upper
113	100		
111	103.8	81.8	122.6
192	16.7	13.8	20.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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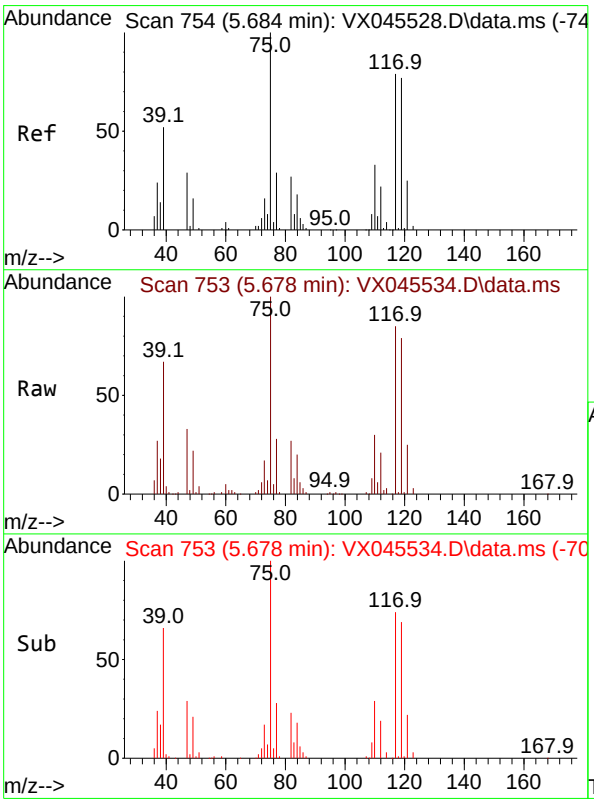
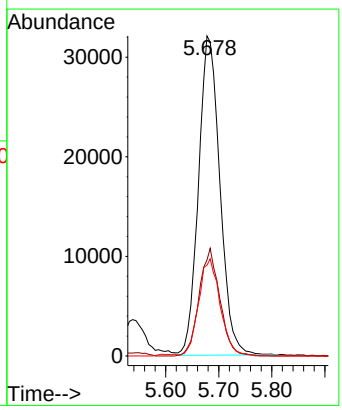
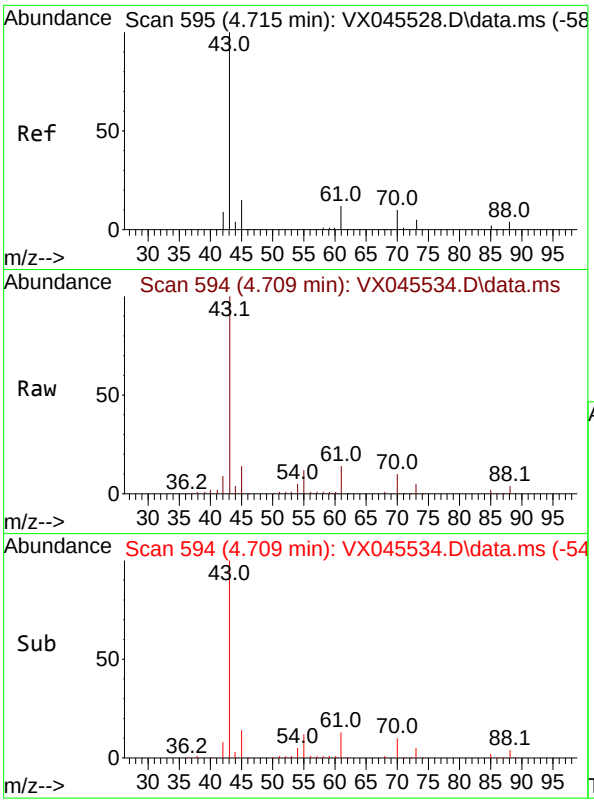


#36
1,1-Dichloropropene
Concen: 50.506 ug/l
RT: 5.678 min Scan# 753
Delta R.T. -0.006 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion: 75 Resp: 90022

Ion	Ratio	Lower	Upper
75	100		
110	32.5	16.9	50.6
77	30.6	25.0	37.4





#37
Ethyl Acetate
Concen: 48.187 ug/l
RT: 4.709 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion: 43 Resp: 10823

Ion	Ratio	Lower	Upper
43	100		
61	12.3	9.9	14.9
70	9.9	7.5	11.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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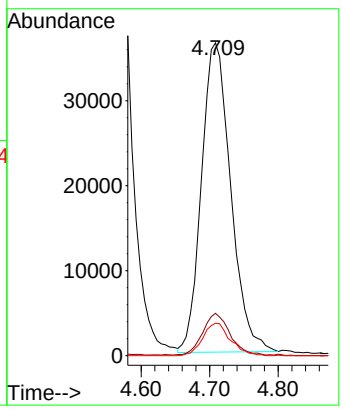
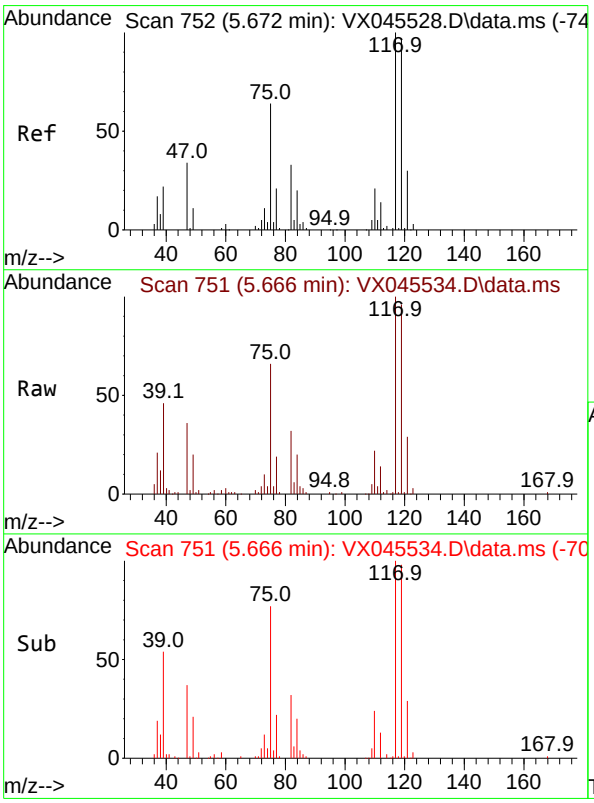
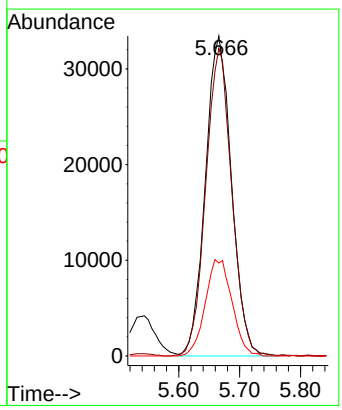


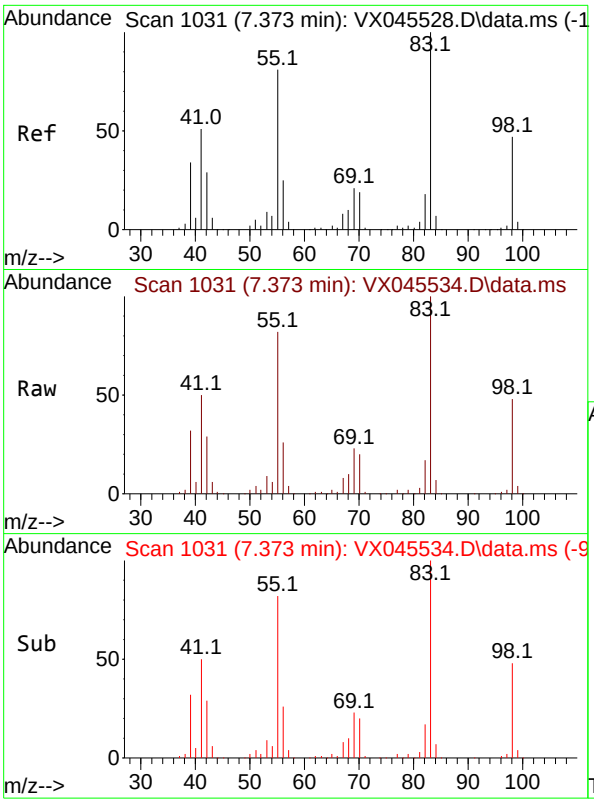


#38
Carbon Tetrachloride
Concen: 51.725 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion:117 Resp: 99640

Ion	Ratio	Lower	Upper
117	100		
119	96.0	76.9	115.3
121	29.1	24.2	36.2





#39
Methylcyclohexane
Concen: 54.285 ug/l
RT: 7.373 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion: 83 Resp: 11860

Ion	Ratio	Lower	Upper
83	100		
55	82.5	64.9	97.3
98	47.8	37.4	56.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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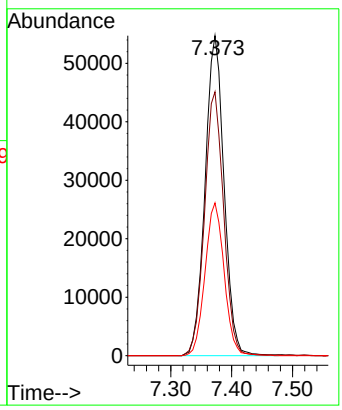
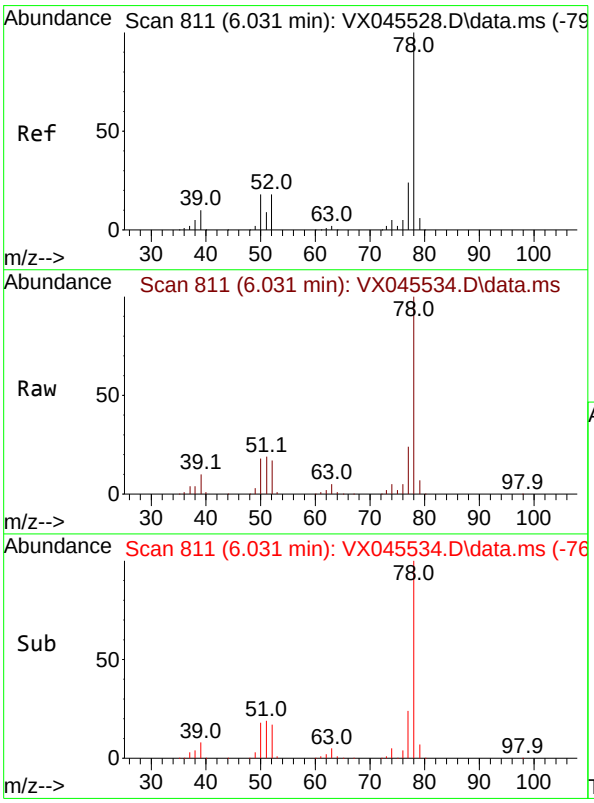
Reviewed By :John Carlone 04/03/2025
Supervised By :Mahesh Dadoda 04/03/2025

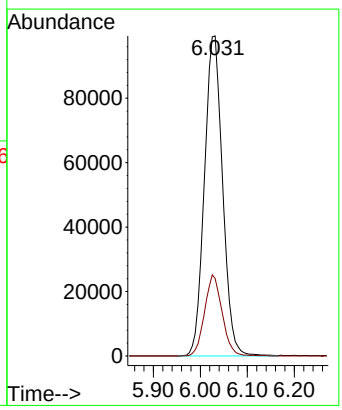


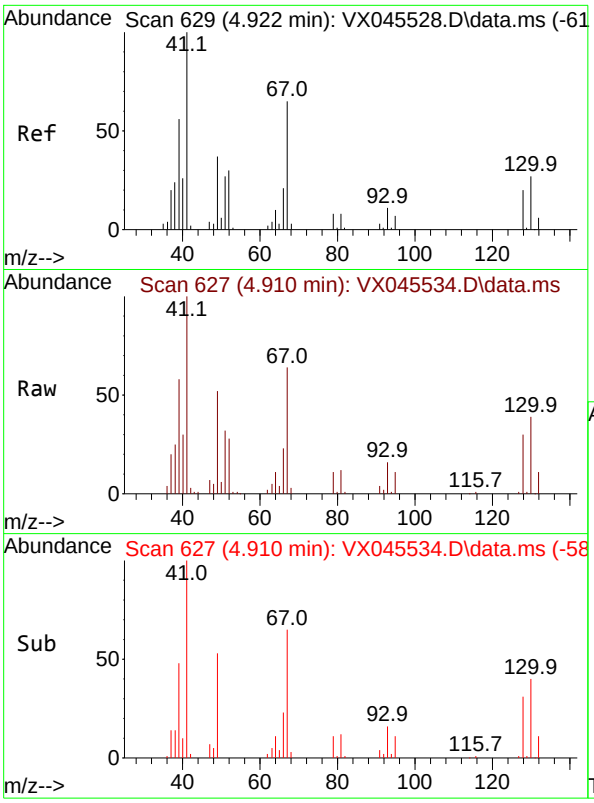


#40
Benzene
Concen: 49.029 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion: 78 Resp: 266898

Ion	Ratio	Lower	Upper
78	100		
77	24.2	19.0	28.6

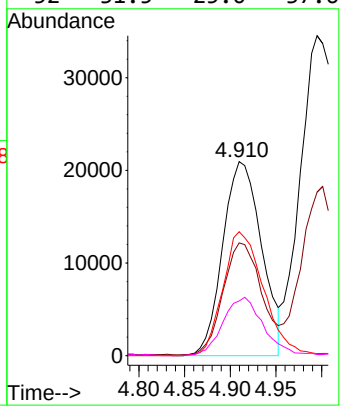




#41
Methacrylonitrile
Concen: 52.281 ug/l
RT: 4.910 min Scan# 6
Delta R.T. -0.012 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion: 41 Resp: 6196

Ion	Ratio	Lower	Upper
41	100		
39	57.3	47.0	70.6
67	67.3	53.2	79.8
52	31.5	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
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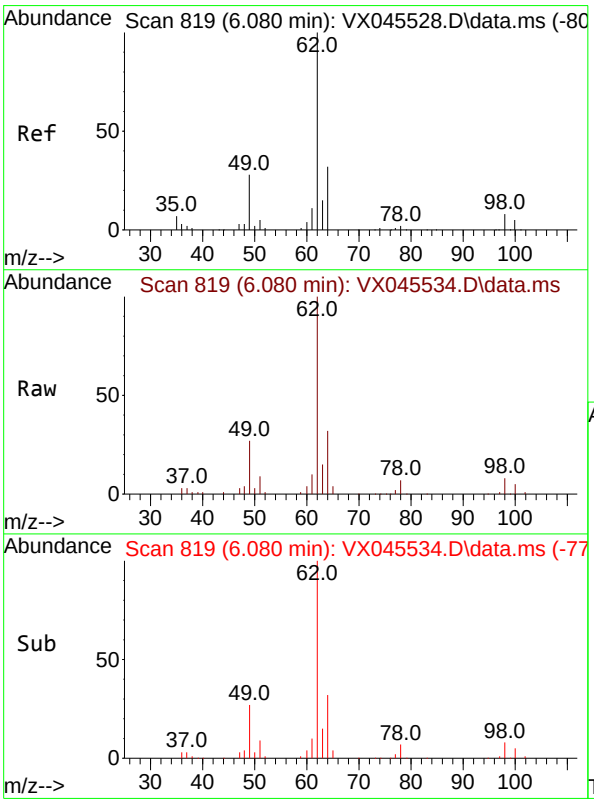
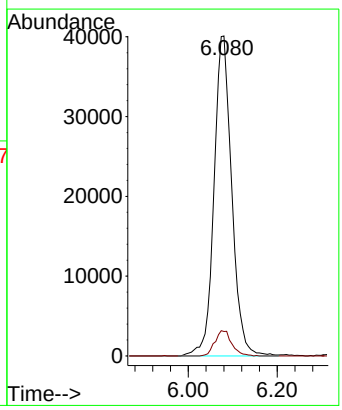
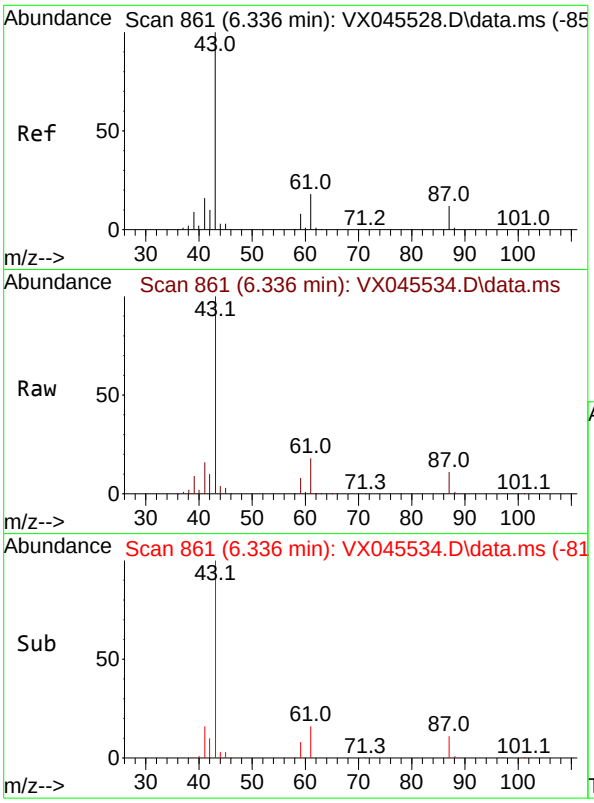


#42
1,2-Dichloroethane
Concen: 49.263 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.000 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion: 62 Resp: 110762

Ion	Ratio	Lower	Upper
62	100		
98	7.5	0.0	15.2





#43
Isopropyl Acetate
Concen: 51.186 ug/l
RT: 6.336 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion: 43 Resp: 17425

Ion	Ratio	Lower	Upper
43	100		
61	17.8	14.1	21.1
87	11.5	9.2	13.8

Instrument :
MSVOA_X
ClientSampleId :
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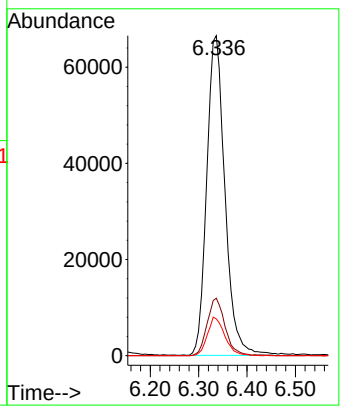
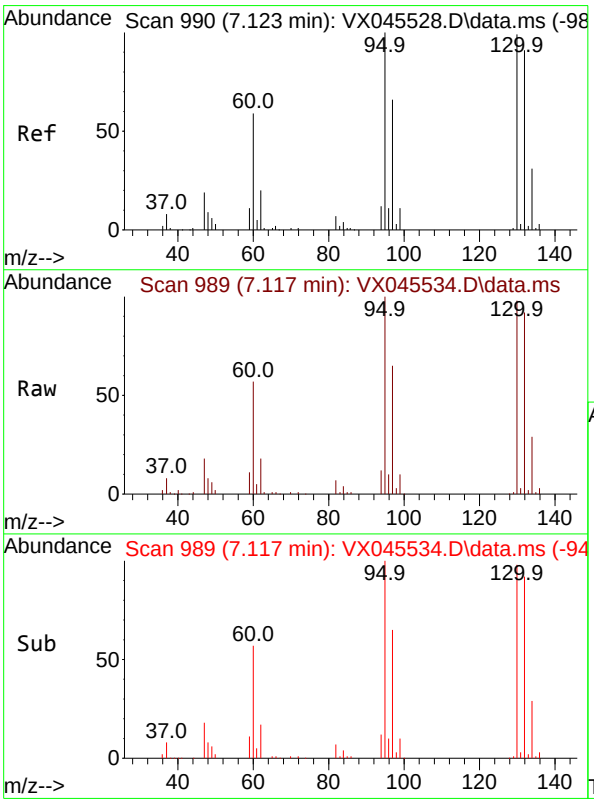
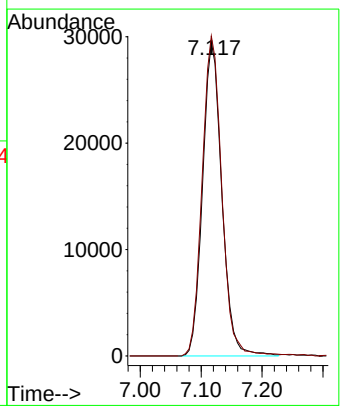


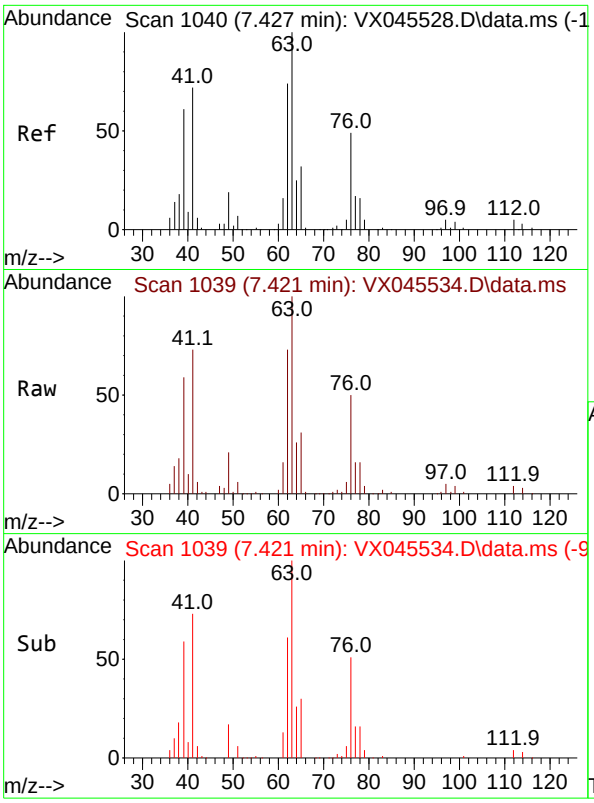


#44
Trichloroethene
Concen: 50.047 ug/l
RT: 7.117 min Scan# 989
Delta R.T. -0.006 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion:130 Resp: 64754

Ion	Ratio	Lower	Upper
130	100		
95	101.9	0.0	202.0

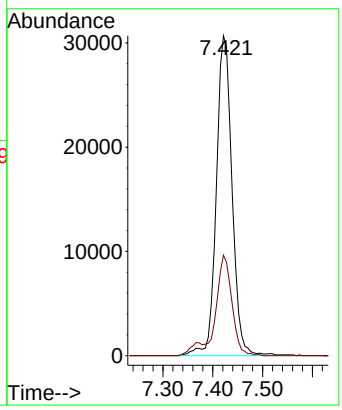




#45
1,2-Dichloropropane
Concen: 49.531 ug/l
RT: 7.421 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion: 63 Resp: 6727

Ion	Ratio	Lower	Upper
63	100		
65	31.4	25.8	38.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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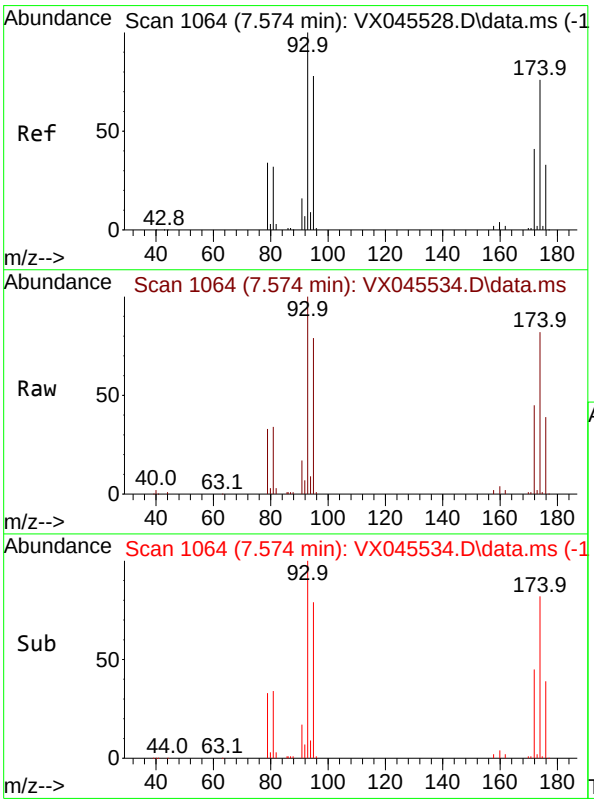
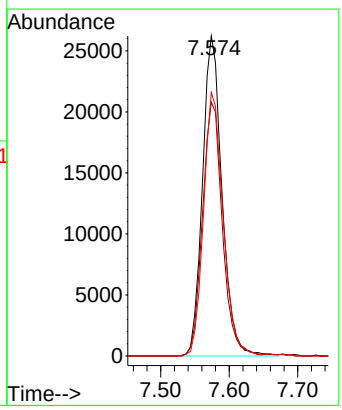
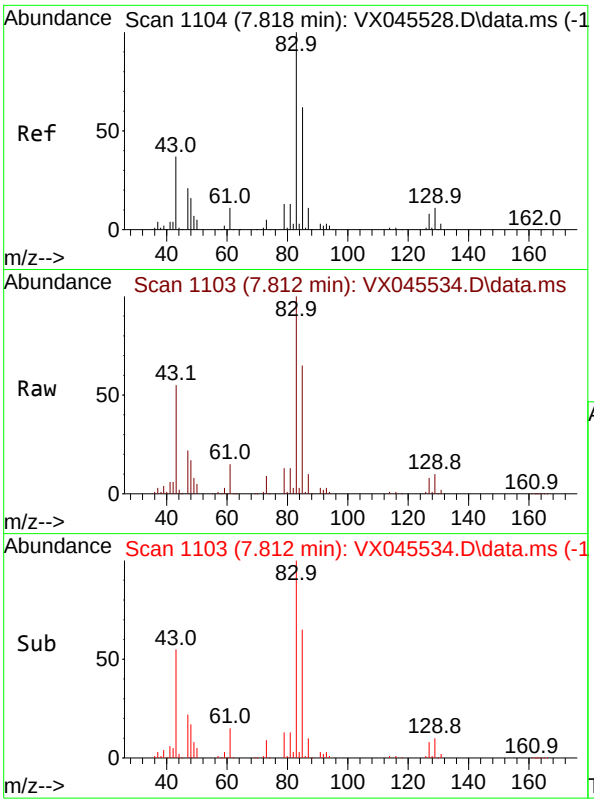


#46
Dibromomethane
Concen: 49.887 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. 0.000 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion: 93 Resp: 52015

Ion	Ratio	Lower	Upper
93	100		
95	80.8	64.8	97.2
174	83.1	65.4	98.0

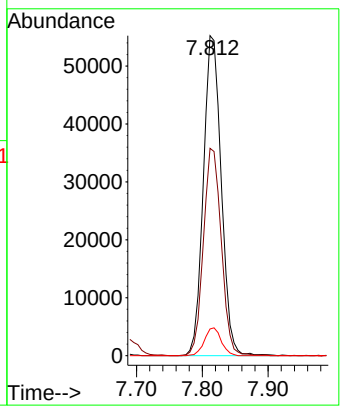




#47
Bromodichloromethane
Concen: 50.214 ug/l
RT: 7.812 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion: 83 Resp: 10455

Ion	Ratio	Lower	Upper
83	100		
85	64.8	49.7	74.5
127	8.4	6.1	9.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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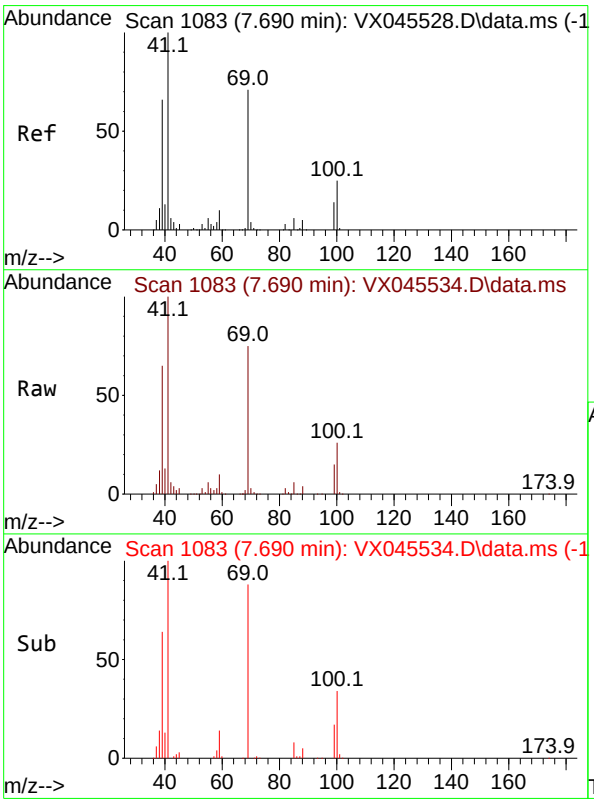
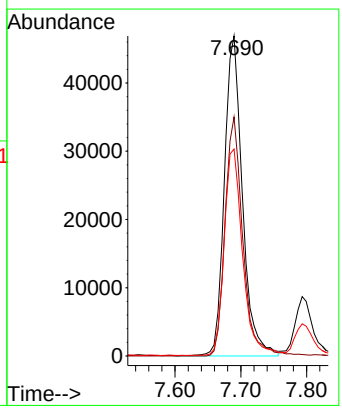
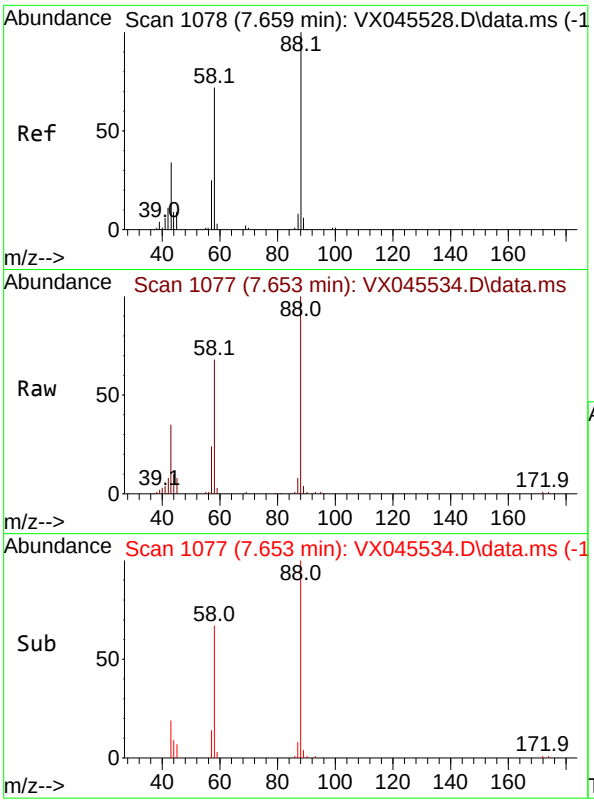


#48
Methyl methacrylate
Concen: 50.851 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. 0.000 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion: 41 Resp: 89385

Ion	Ratio	Lower	Upper
41	100		
69	73.8	58.2	87.2
39	66.2	53.6	80.4





#49
1,4-Dioxane
Concen: 1005.638 ug/l
RT: 7.653 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion: 88 Resp: 3198

Ion	Ratio	Lower	Upper
88	100		
43	40.1	32.2	48.4
58	72.6	58.6	88.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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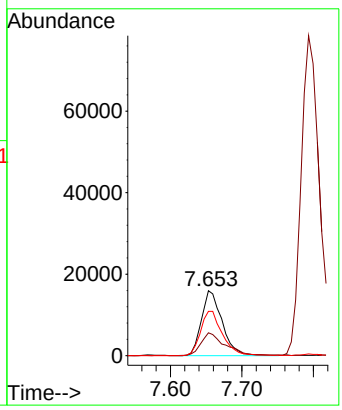
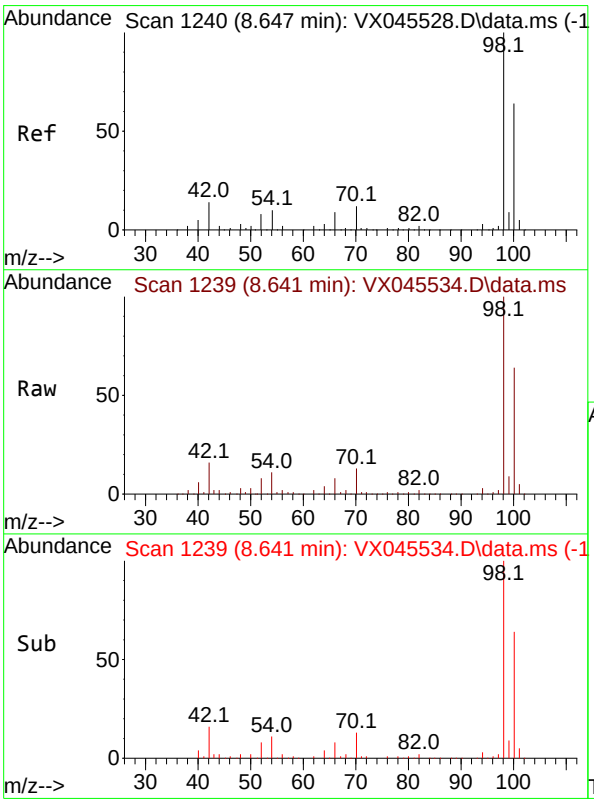
Reviewed By :John Carlone 04/03/2025
Supervised By :Mahesh Dadoda 04/03/2025

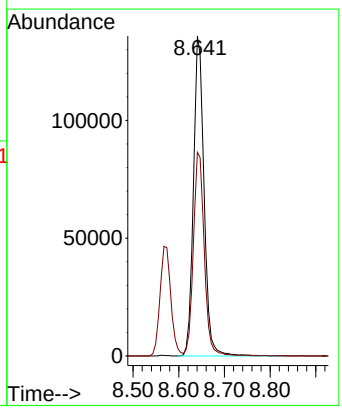


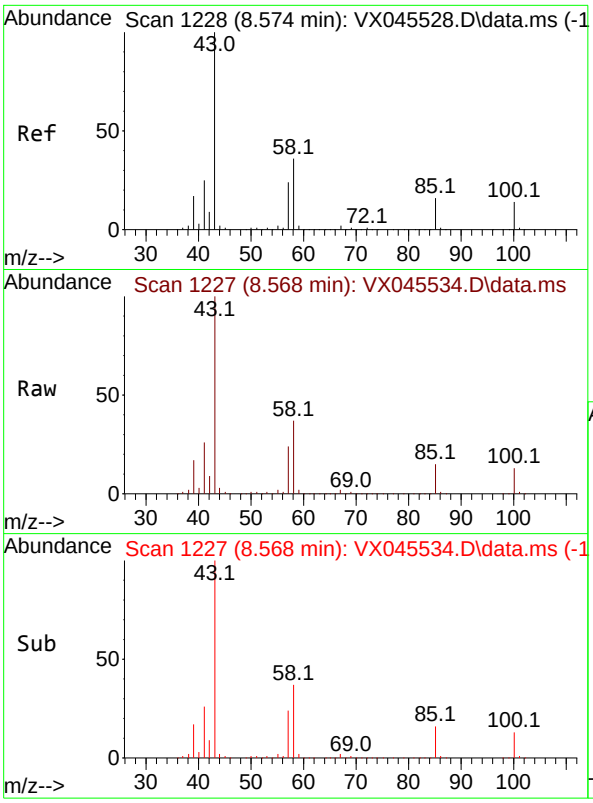


#50
Toluene-d8
Concen: 47.553 ug/l
RT: 8.641 min Scan# 1239
Delta R.T. -0.006 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion: 98 Resp: 219109

Ion	Ratio	Lower	Upper
98	100		
100	65.3	52.2	78.4

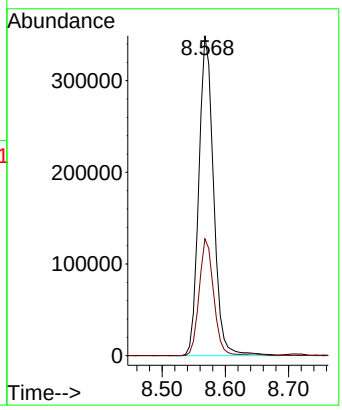




#51
4-Methyl-2-Pentanone
Concen: 251.819 ug/l
RT: 8.568 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion: 43 Resp: 56832

Ion	Ratio	Lower	Upper
43	100		
58	35.7	28.5	42.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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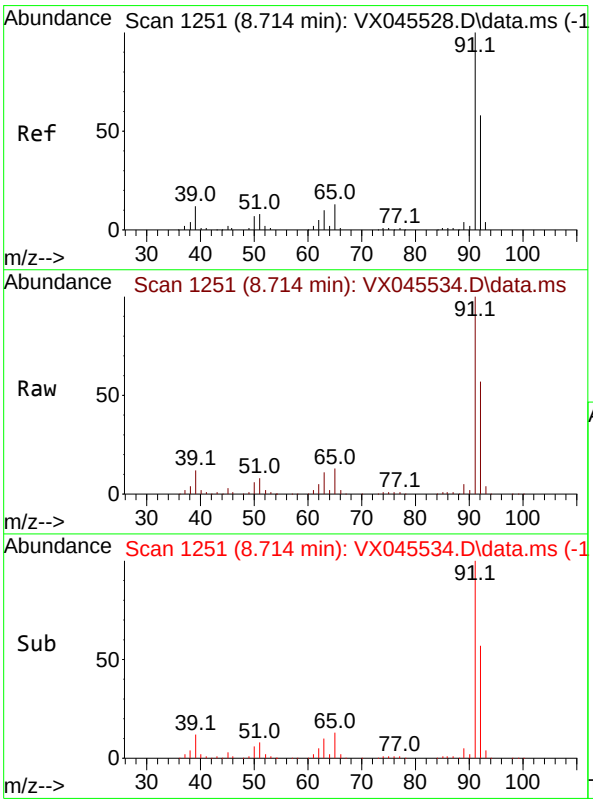
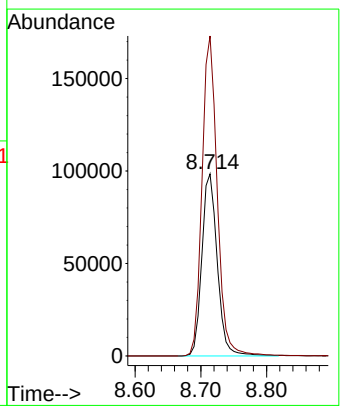
Reviewed By :John Carlone 04/03/2025
Supervised By :Mahesh Dadoda 04/03/2025

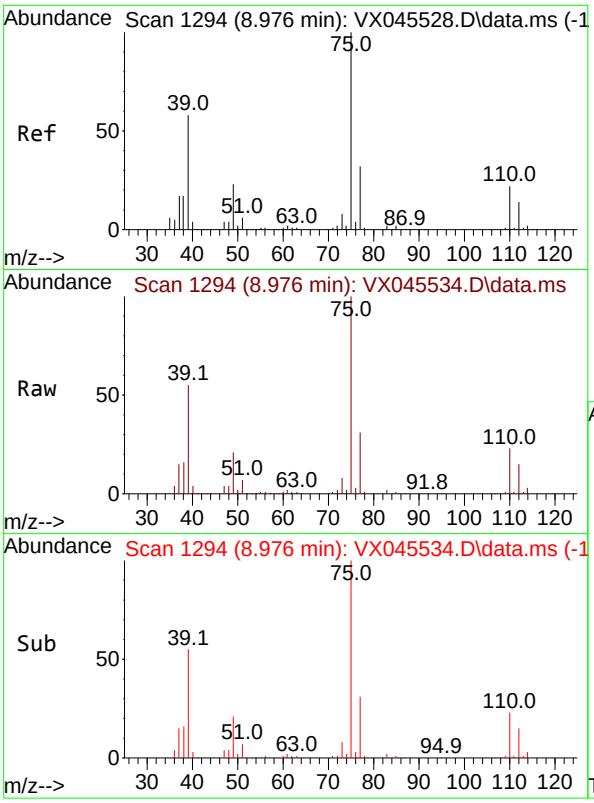


#52
Toluene
Concen: 48.776 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion: 92 Resp: 160666

Ion	Ratio	Lower	Upper
92	100		
91	173.8	138.7	208.1

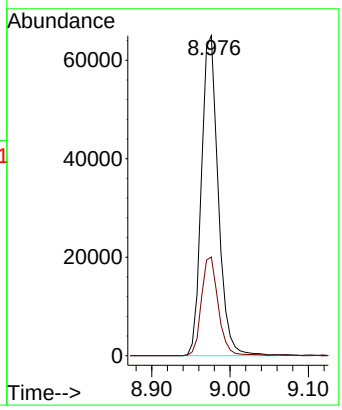




#53
t-1,3-Dichloropropene
Concen: 48.307 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion: 75 Resp: 9656

Ion	Ratio	Lower	Upper
75	100		
77	30.9	25.4	38.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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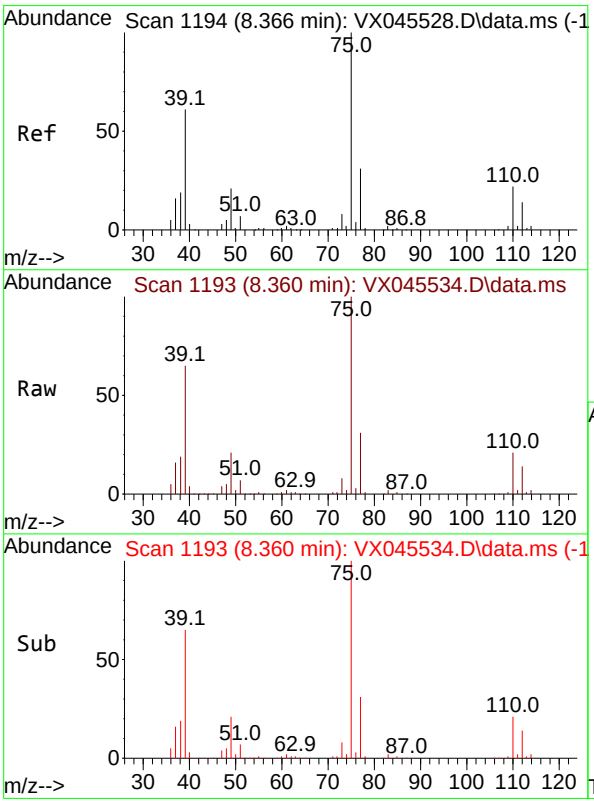
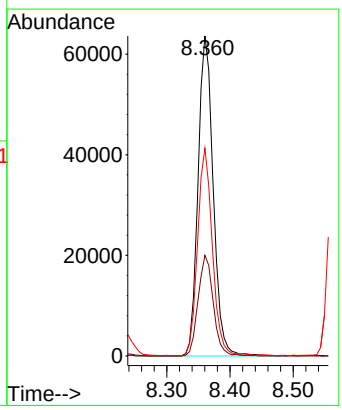
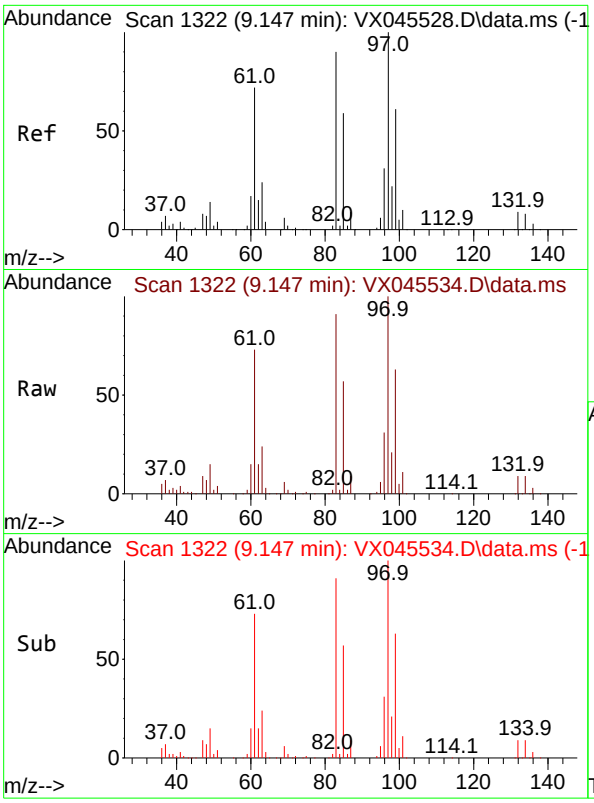


#54
cis-1,3-Dichloropropene
Concen: 54.353 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. -0.006 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion: 75 Resp: 106354

Ion	Ratio	Lower	Upper
75	100		
77	31.4	24.6	36.8
39	64.8	48.4	72.6

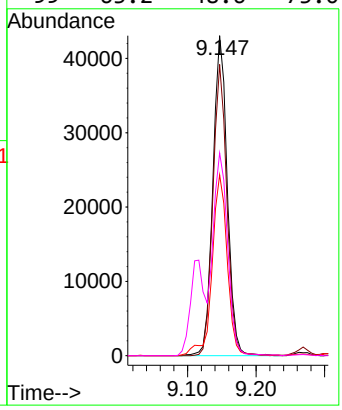




#55
1,1,2-Trichloroethane
Concen: 47.884 ug/l
RT: 9.147 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion: 97 Resp: 6285

Ion	Ratio	Lower	Upper
97	100		
83	91.0	71.8	107.8
85	56.5	47.0	70.6
99	63.2	48.6	73.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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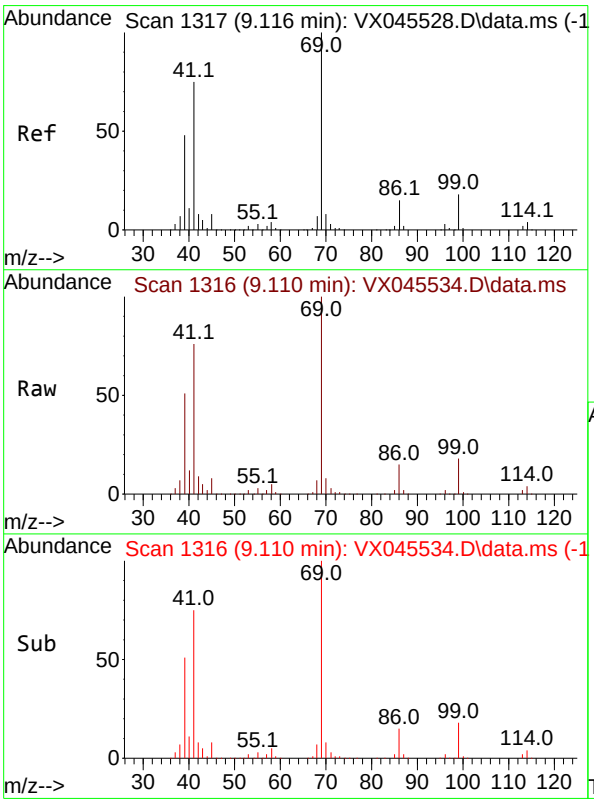
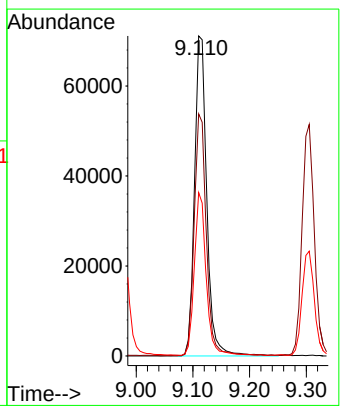
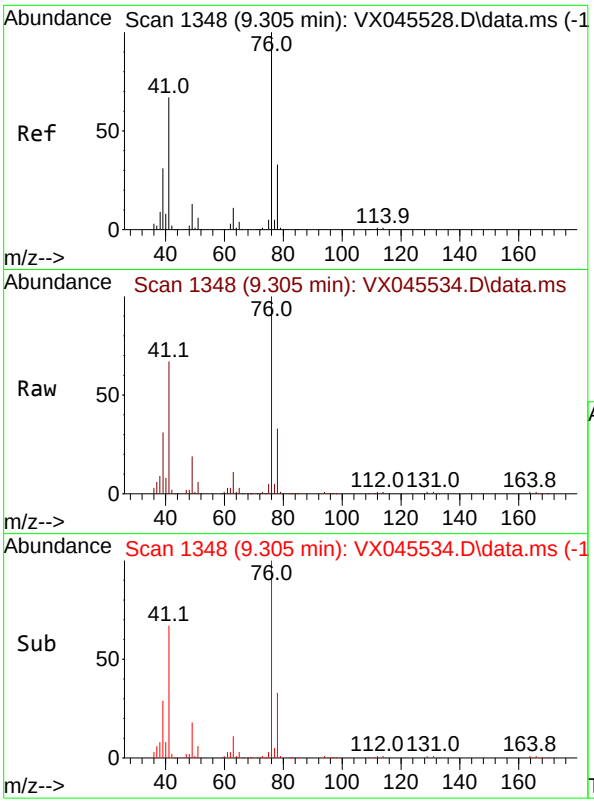


#56
Ethyl methacrylate
Concen: 52.494 ug/l
RT: 9.110 min Scan# 1316
Delta R.T. -0.006 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion: 69 Resp: 106636

Ion	Ratio	Lower	Upper
69	100		
41	74.9	61.3	91.9
39	49.2	40.2	60.2

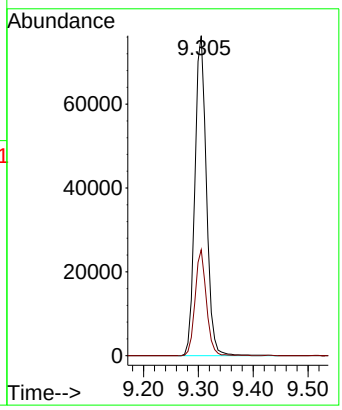




#57
1,3-Dichloropropane
Concen: 48.991 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion: 76 Resp: 11198

Ion	Ratio	Lower	Upper
76	100		
78	32.4	26.0	39.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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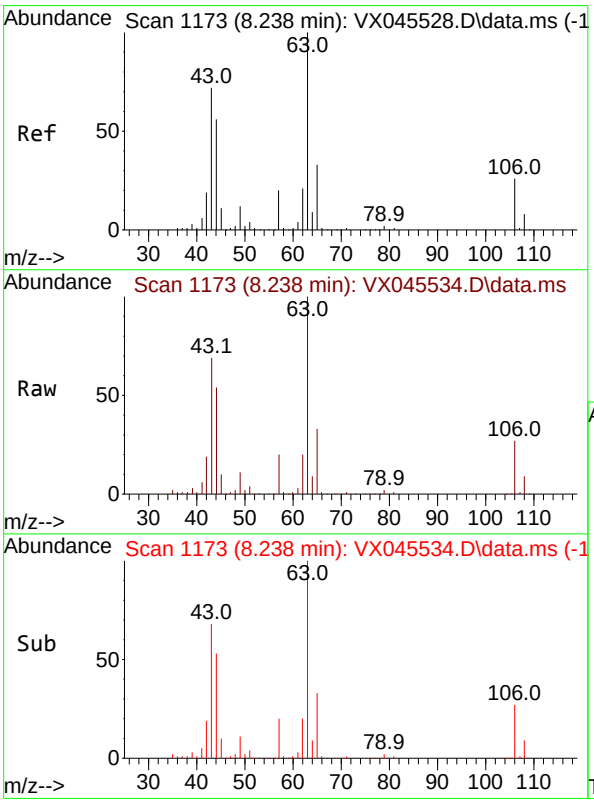
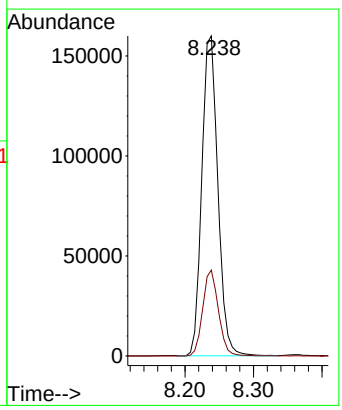
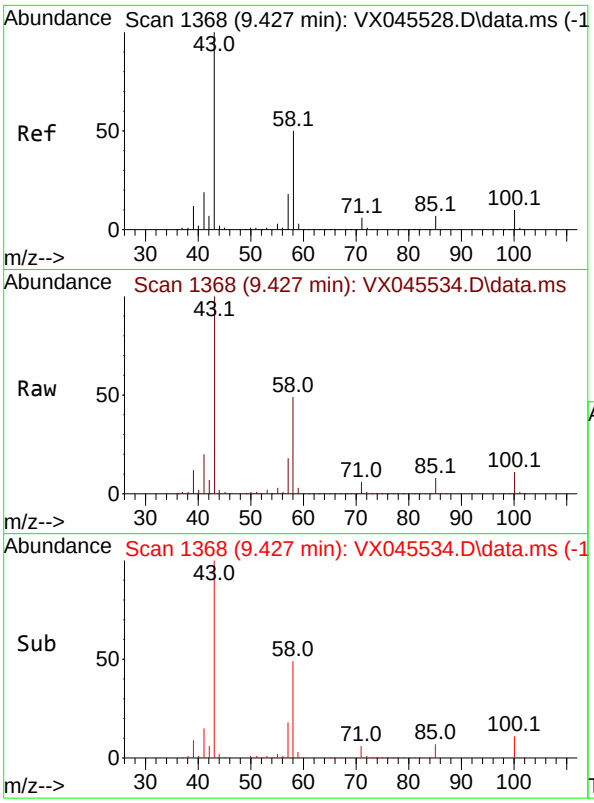


#58
2-Chloroethyl Vinyl ether
Concen: 253.906 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion: 63 Resp: 260922

Ion	Ratio	Lower	Upper
63	100		
106	26.3	21.0	31.6

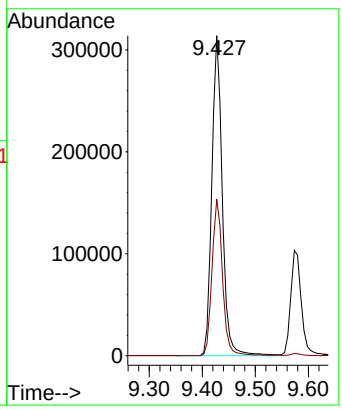




#59
2-Hexanone
Concen: 257.042 ug/l
RT: 9.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion: 43 Resp: 42958

Ion	Ratio	Lower	Upper
43	100		
58	49.5	24.9	74.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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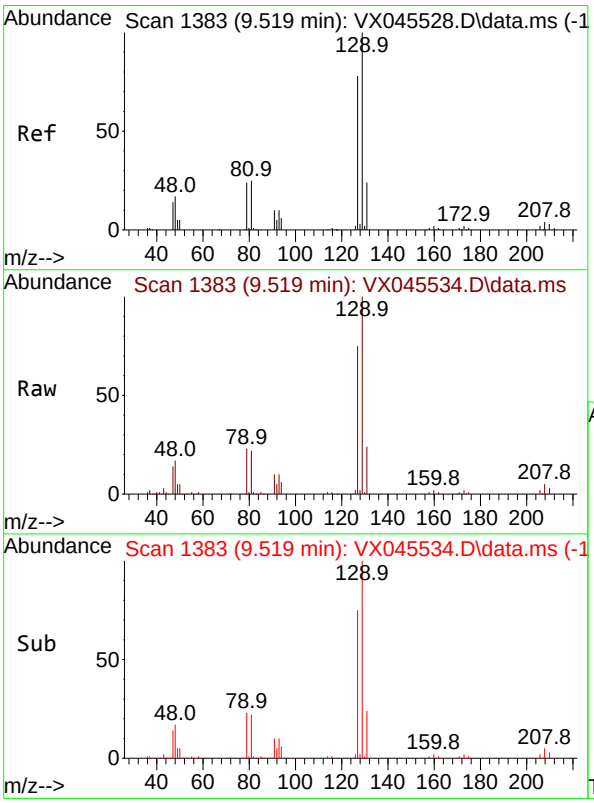
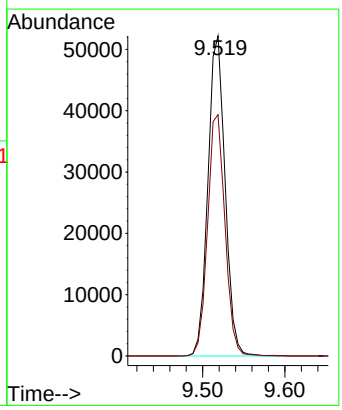
Reviewed By :John Carlone 04/03/2025
Supervised By :Mahesh Dadoda 04/03/2025

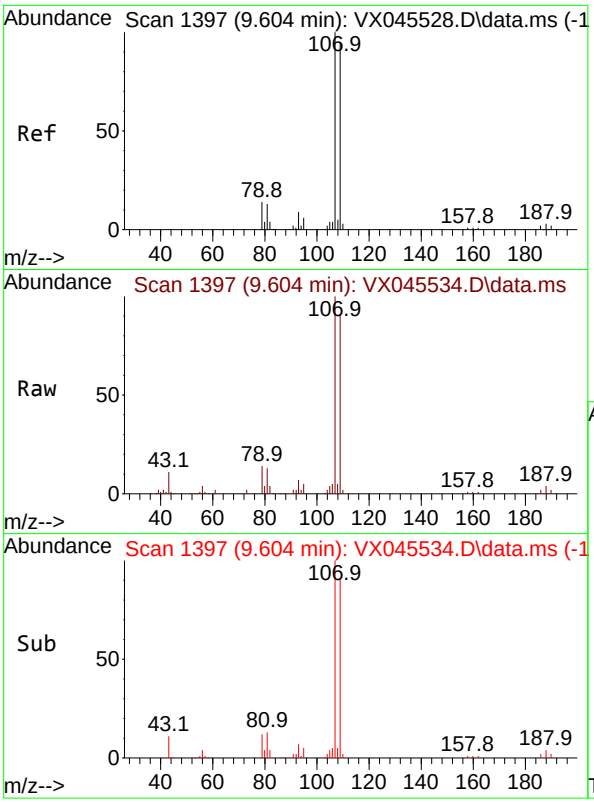


#60
Dibromochloromethane
Concen: 52.816 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion:129 Resp: 75579

Ion	Ratio	Lower	Upper
129	100		
127	76.6	39.4	118.2

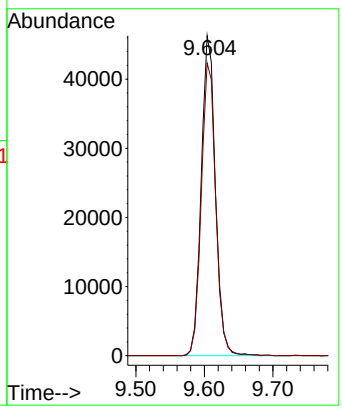




#61
1,2-Dibromoethane
Concen: 50.167 ug/l
RT: 9.604 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion:107 Resp: 6665

Ion	Ratio	Lower	Upper
107	100		
109	93.0	75.7	113.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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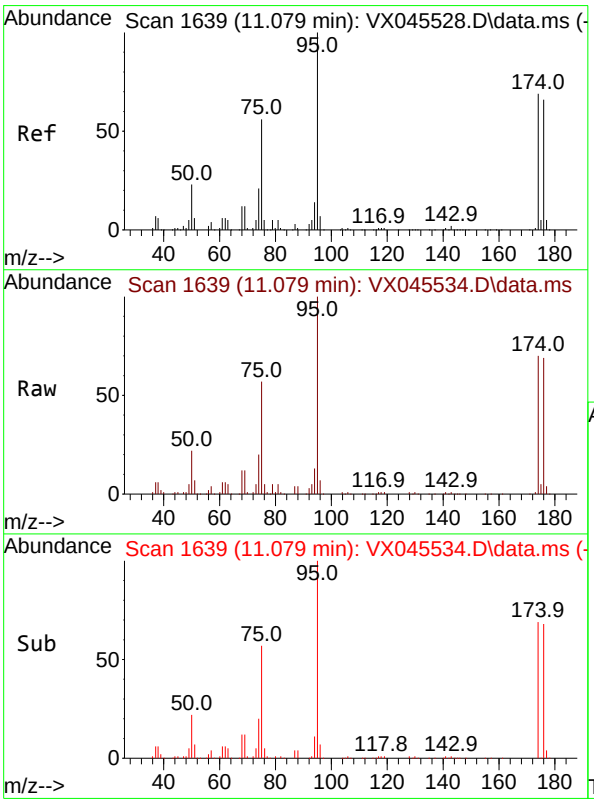
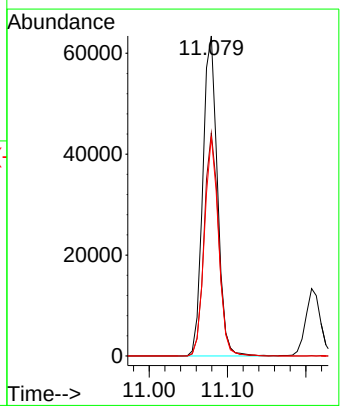
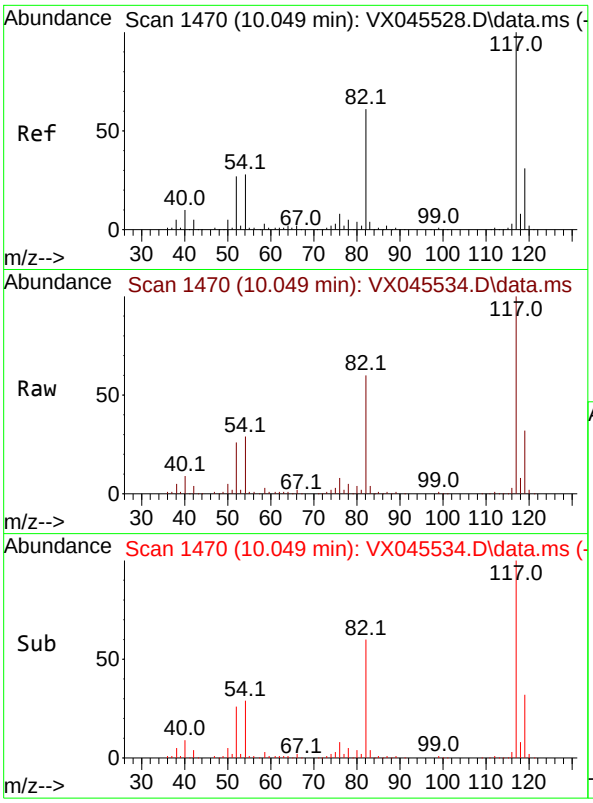


#62
4-Bromofluorobenzene
Concen: 48.789 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion: 95 Resp: 81886

Ion	Ratio	Lower	Upper
95	100		
174	69.0	0.0	135.8
176	66.3	0.0	131.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion:117 Resp: 16051

Ion	Ratio	Lower	Upper
117	100		
82	60.1	49.2	73.8
119	32.3	25.1	37.7

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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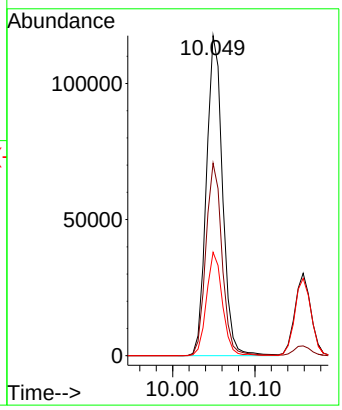
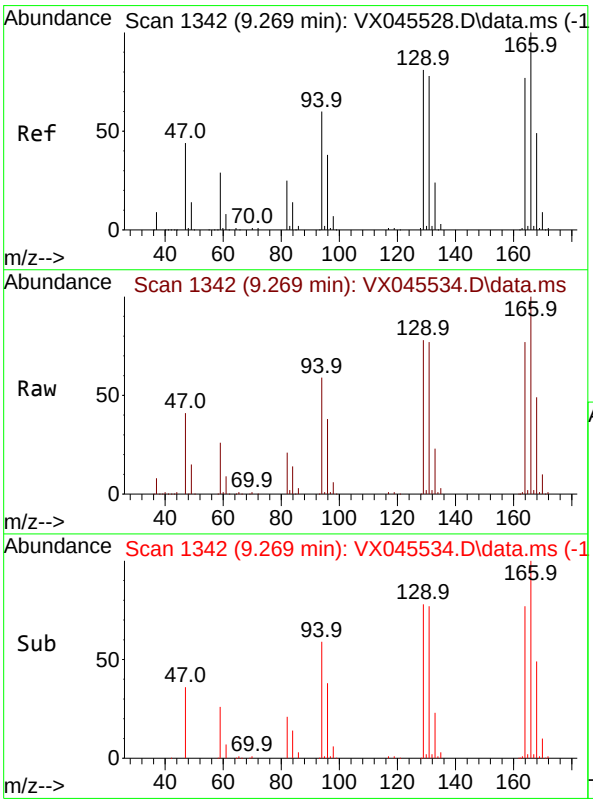
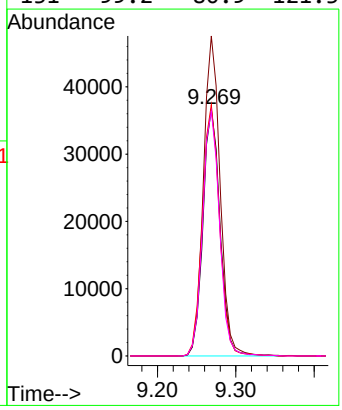


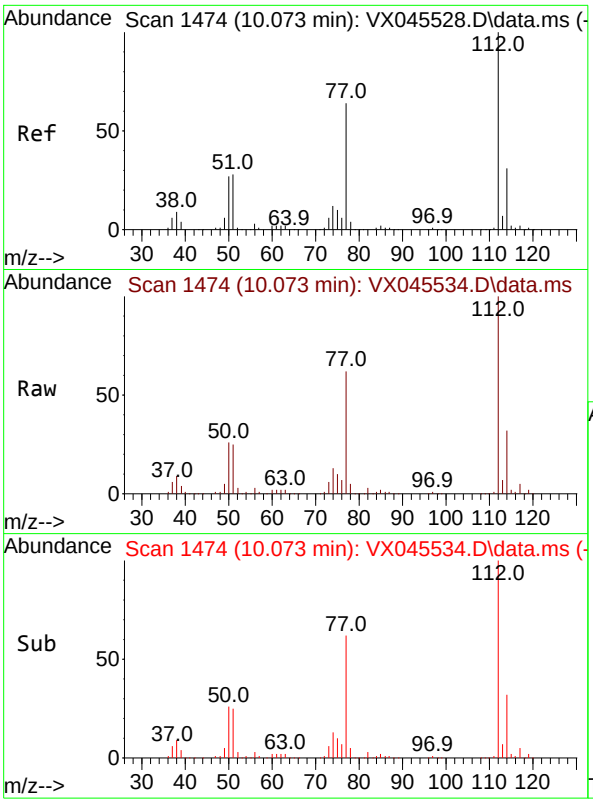


#64
Tetrachloroethene
Concen: 48.897 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion:164 Resp: 55415

Ion	Ratio	Lower	Upper
164	100		
166	129.6	103.8	155.8
129	101.7	84.3	126.5
131	99.2	80.9	121.3

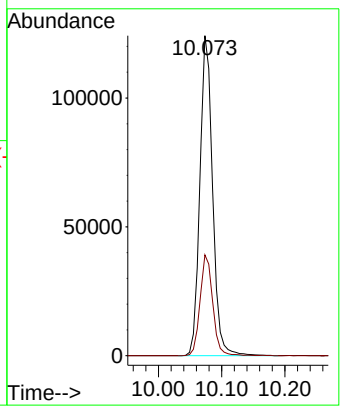




#65
Chlorobenzene
Concen: 50.688 ug/l
RT: 10.073 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion:112 Resp: 173859

Ion	Ratio	Lower	Upper
112	100		
114	31.5	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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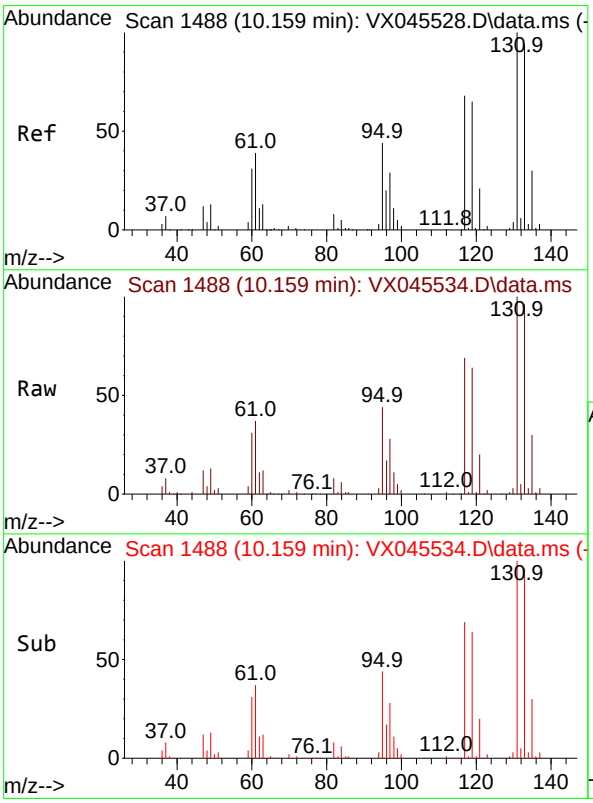
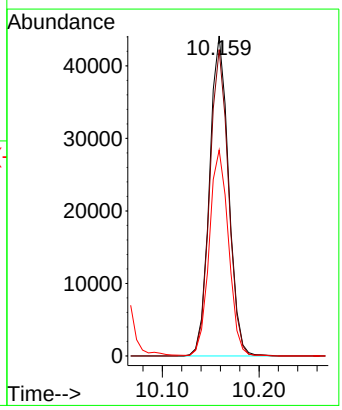
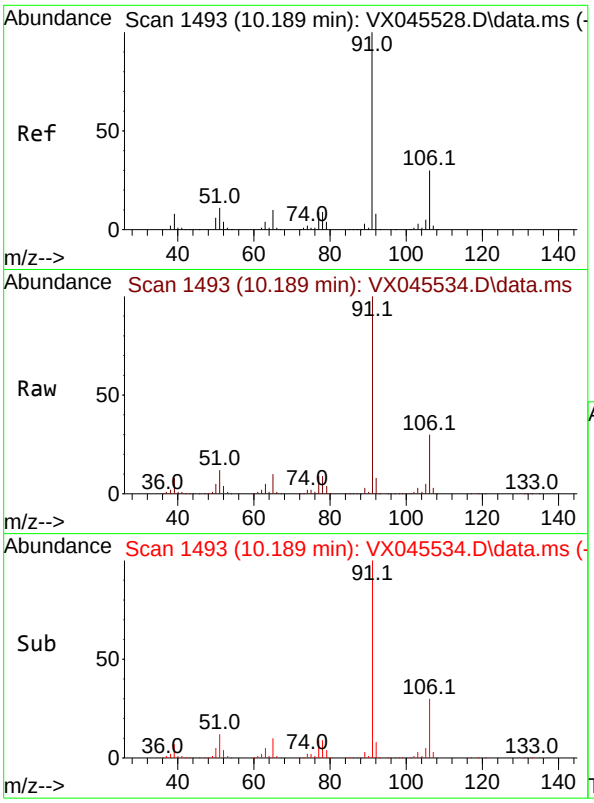


#66
1,1,1,2-Tetrachloroethane
Concen: 50.712 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion:131 Resp: 60389

Ion	Ratio	Lower	Upper
131	100		
133	94.5	47.5	142.5
119	65.0	32.9	98.6

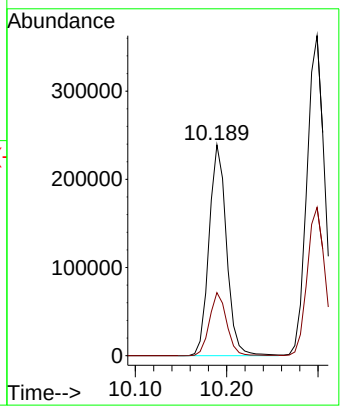




#67
Ethyl Benzene
Concen: 51.524 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion: 91 Resp: 31651

Ion	Ratio	Lower	Upper
91	100		
106	29.9	23.7	35.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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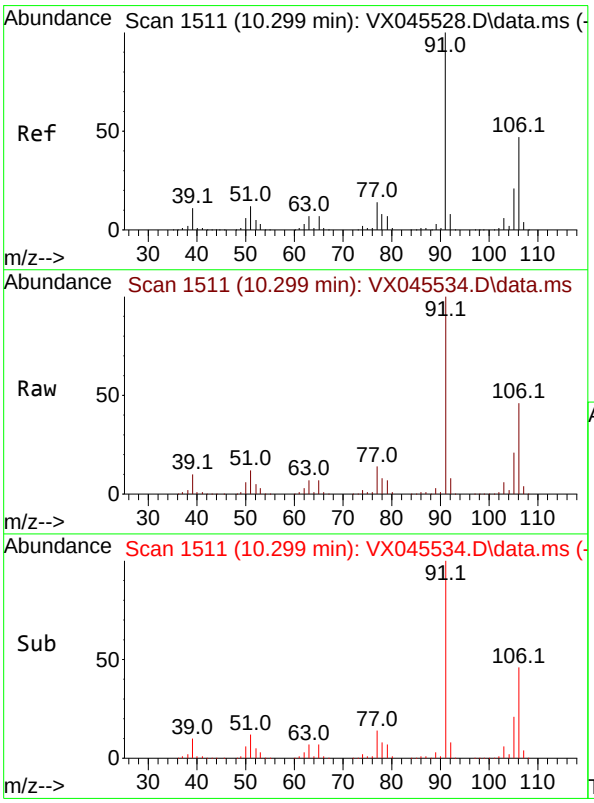
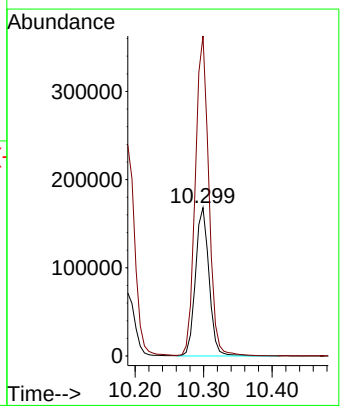
Reviewed By :John Carlone 04/03/2025
Supervised By :Mahesh Dadoda 04/03/2025

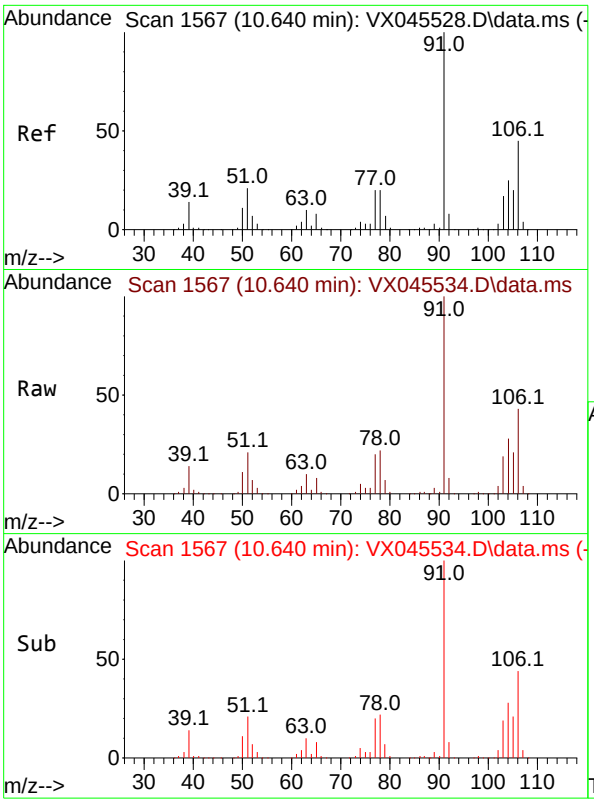


#68
m/p-Xylenes
Concen: 103.448 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion:106 Resp: 231135

Ion	Ratio	Lower	Upper
106	100		
91	216.0	172.6	258.8

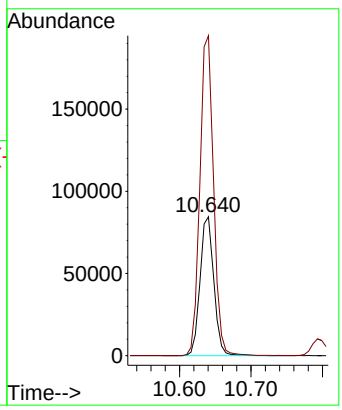




#69
o-Xylene
Concen: 51.320 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion:106 Resp: 11295

Ion	Ratio	Lower	Upper
106	100		
91	229.2	113.6	340.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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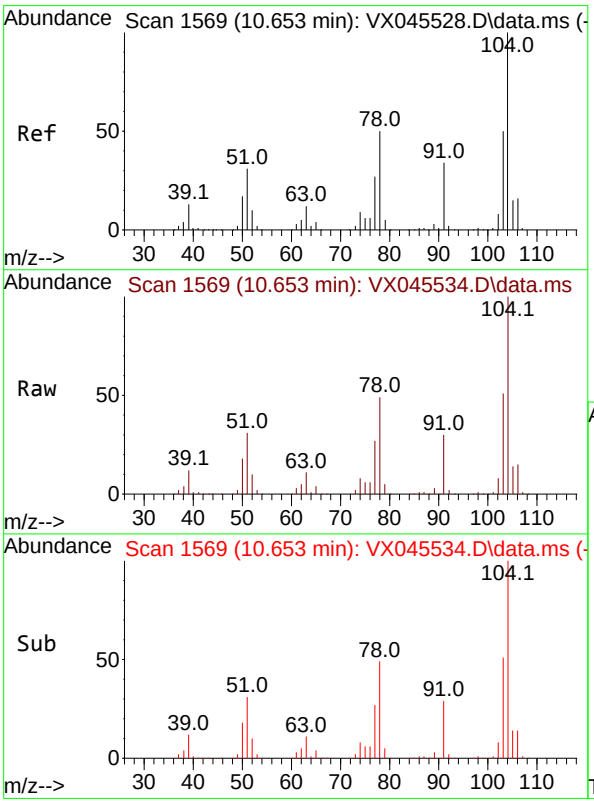
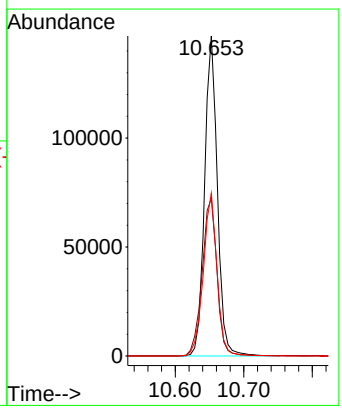
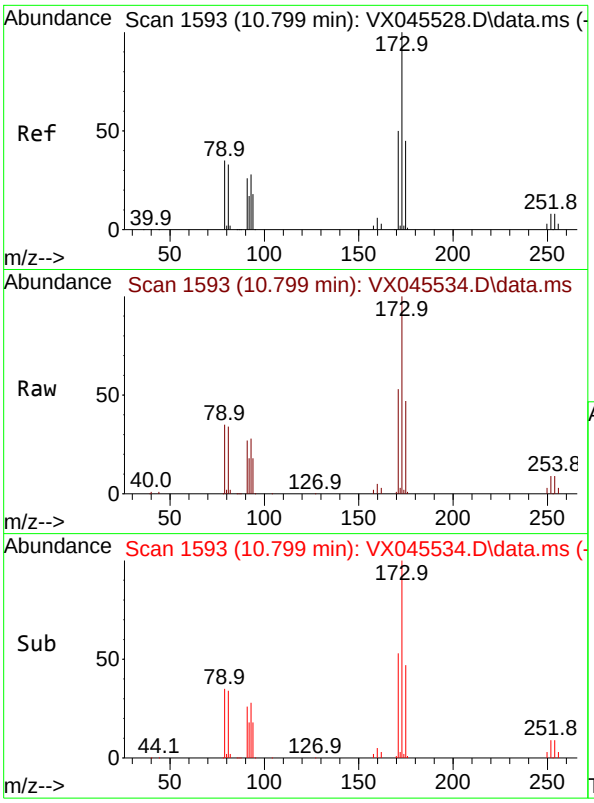


#70
Styrene
Concen: 52.502 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion:104 Resp: 190725

Ion	Ratio	Lower	Upper
104	100		
78	57.2	45.4	68.2
103	55.0	43.8	65.8

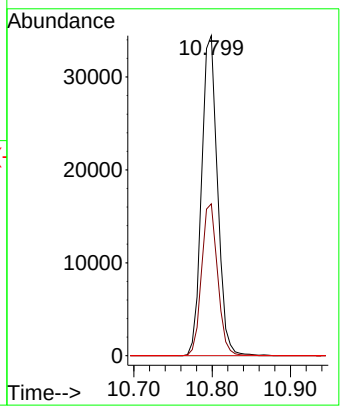




#71
Bromoform
Concen: 54.510 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion:173 Resp: 4846

Ion	Ratio	Lower	Upper
173	100		
175	47.8	23.4	70.2
254	0.0	0.0	0.0



Instrument :
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ClientSampleId :
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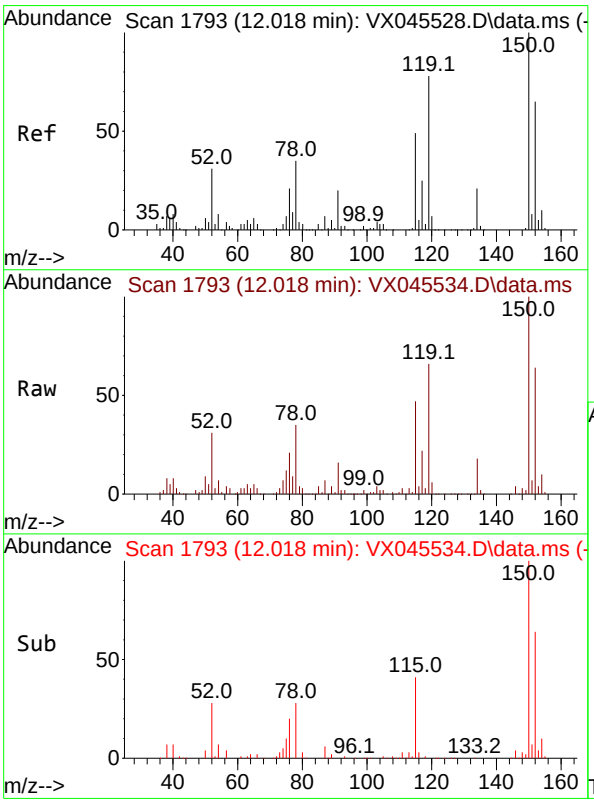
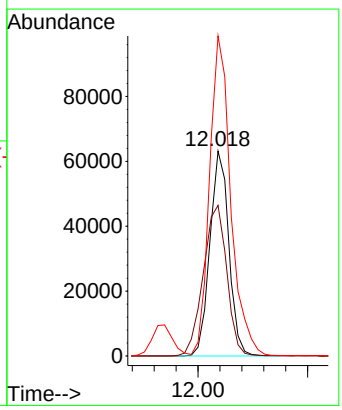
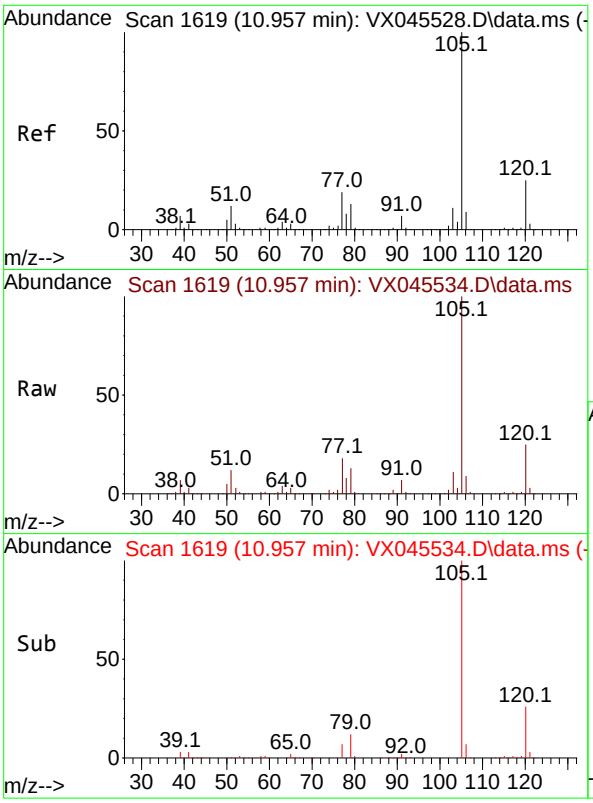


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion:152 Resp: 75751

Ion	Ratio	Lower	Upper
152	100		
115	91.5	46.9	140.7
150	174.1	0.0	349.4





#73
Isopropylbenzene
Concen: 49.732 ug/l
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion:105 Resp: 30176

Ion	Ratio	Lower	Upper
105	100		
120	25.2	12.7	38.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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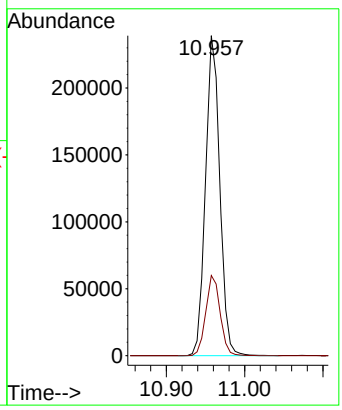
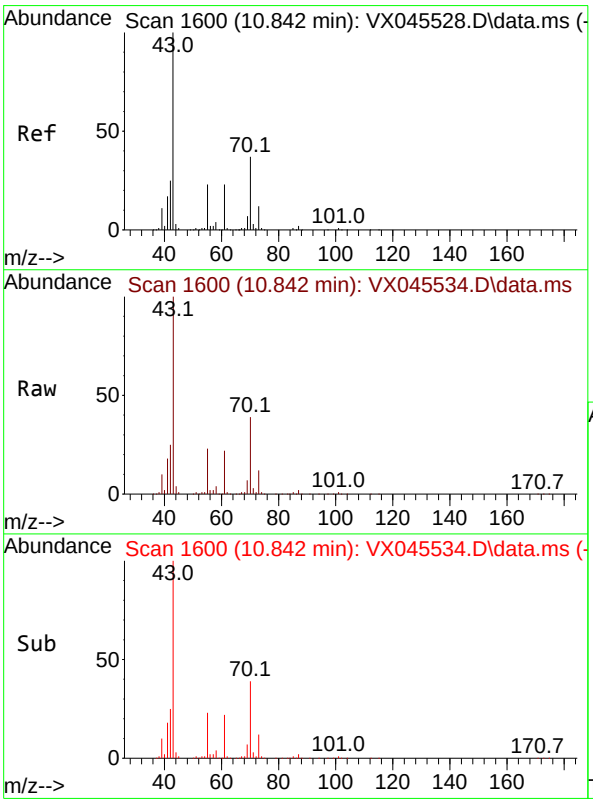
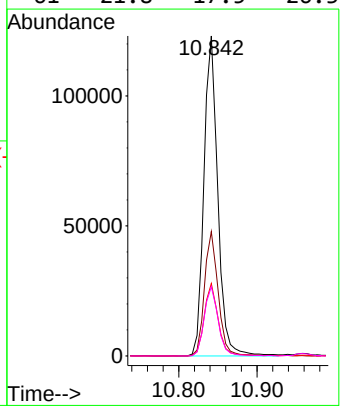


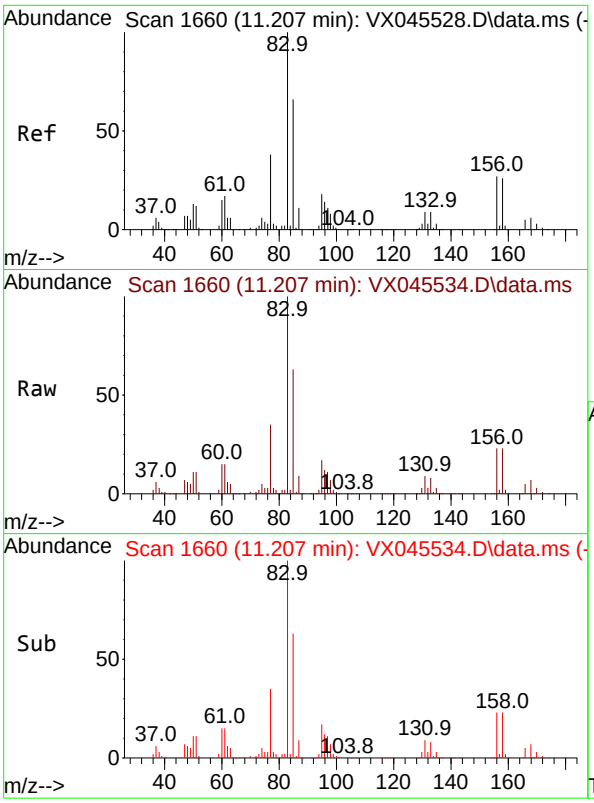


#74
N-amyl acetate
Concen: 52.034 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion: 43 Resp: 151028

Ion	Ratio	Lower	Upper
43	100		
70	38.6	30.1	45.1
55	22.8	18.3	27.5
61	21.8	17.5	26.3

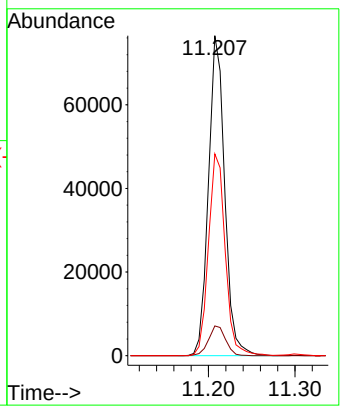




#75
1,1,2,2-Tetrachloroethane
Concen: 46.750 ug/l
RT: 11.207 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion: 83 Resp: 9964

Ion	Ratio	Lower	Upper
83	100		
131	9.8	4.7	14.1
85	65.0	32.4	97.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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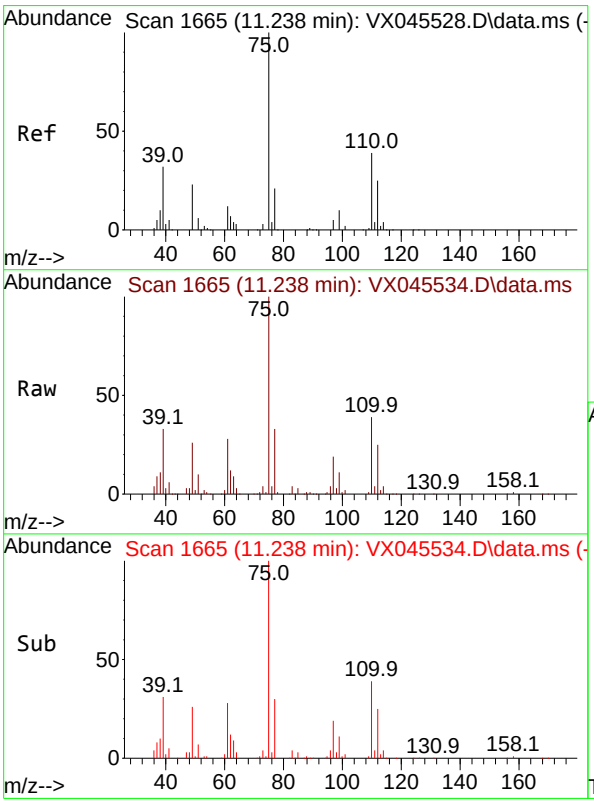
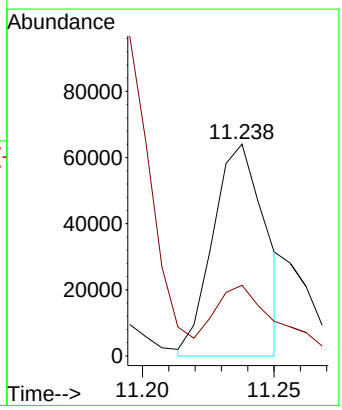
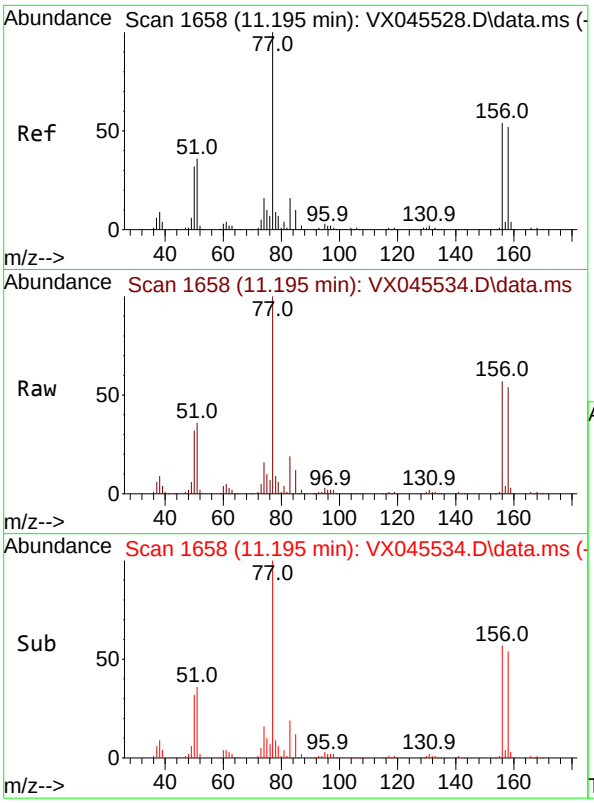


#76
1,2,3-Trichloropropane
Concen: 47.786 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion: 75 Resp: 88297

Ion	Ratio	Lower	Upper
75	100		
77	40.6	20.0	59.9

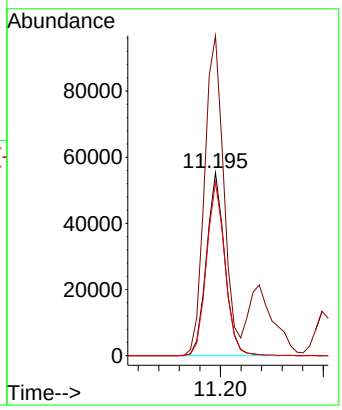




#77
Bromobenzene
Concen: 48.646 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion:156 Resp: 6820

Ion	Ratio	Lower	Upper
156	100		
77	184.8	92.6	277.8
158	96.1	48.1	144.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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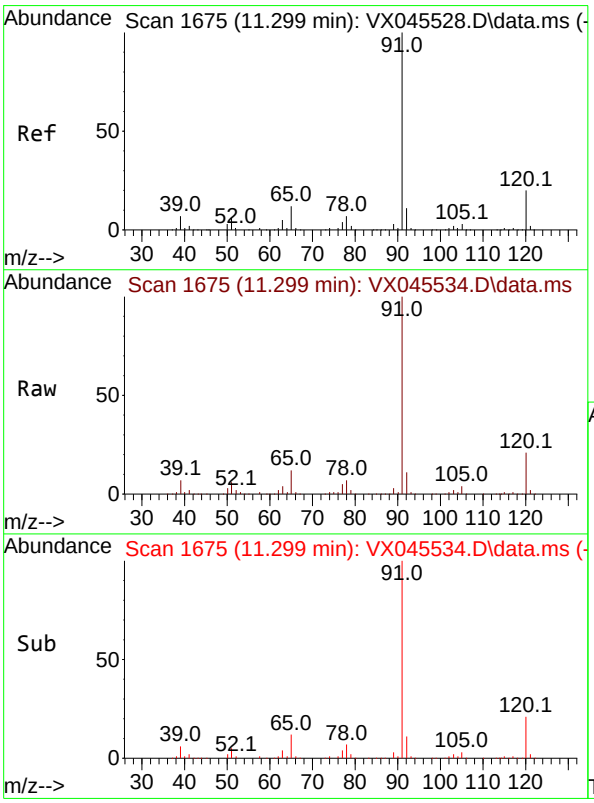
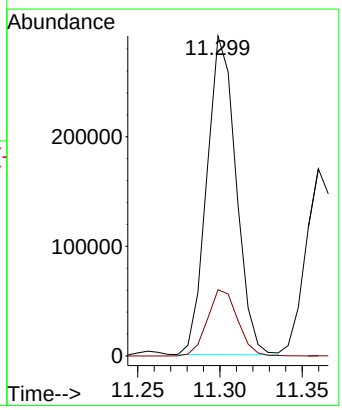
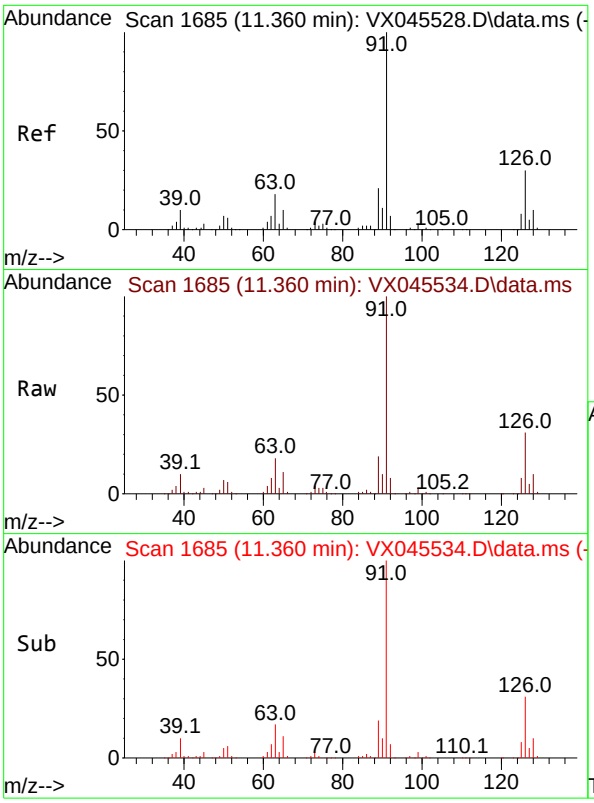


#78
n-propylbenzene
Concen: 51.385 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion: 91 Resp: 359128

Ion	Ratio	Lower	Upper
91	100		
120	21.6	10.8	32.3

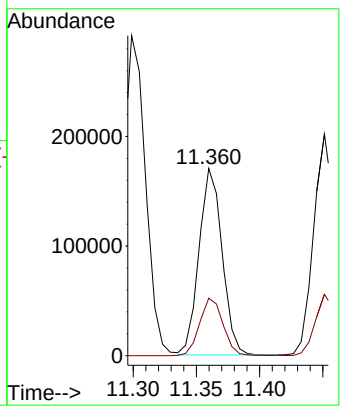




#79
2-Chlorotoluene
Concen: 48.421 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion: 91 Resp: 21634

Ion	Ratio	Lower	Upper
91	100		
126	31.3	15.8	47.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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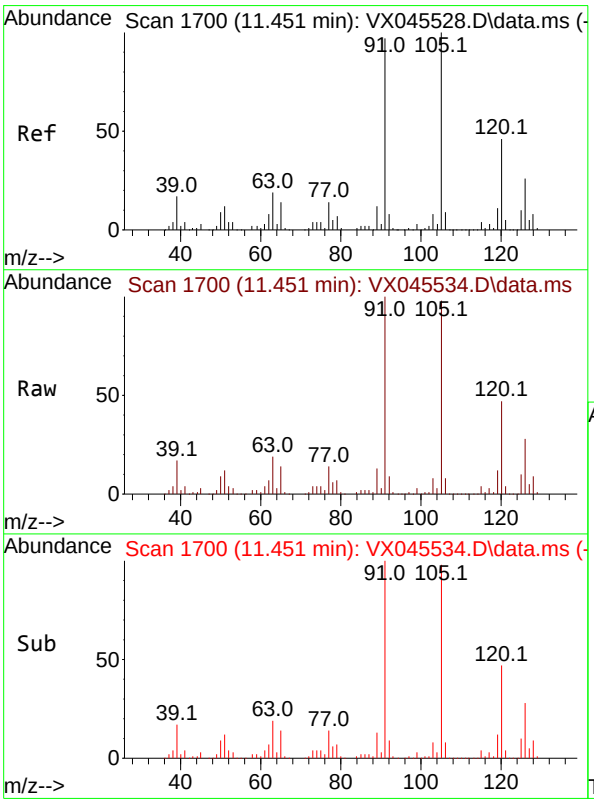
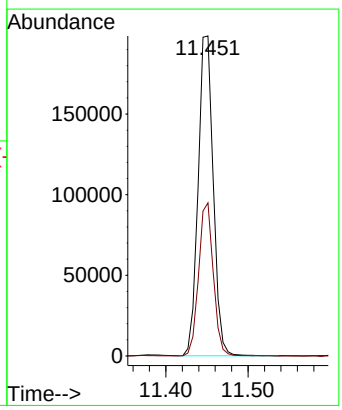
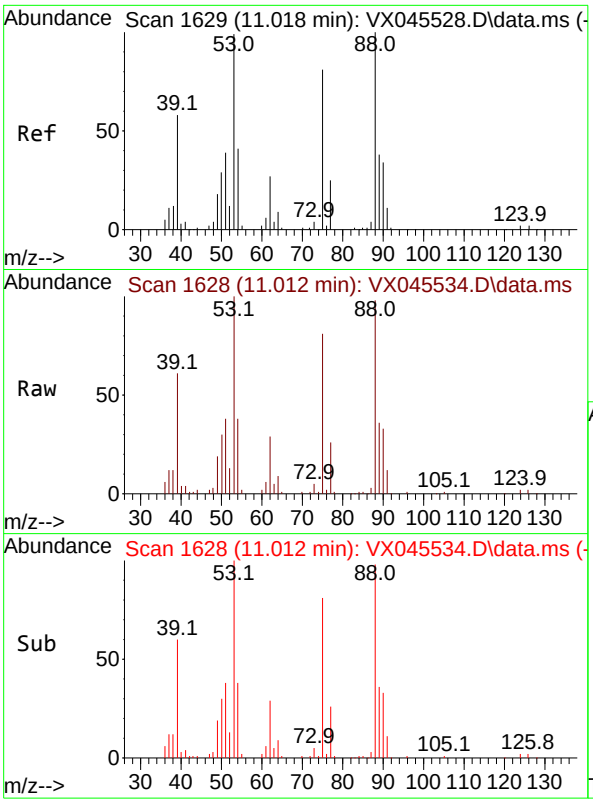


#80
1,3,5-Trimethylbenzene
Concen: 50.571 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion:105 Resp: 253739

Ion	Ratio	Lower	Upper
105	100		
120	46.5	23.0	69.0

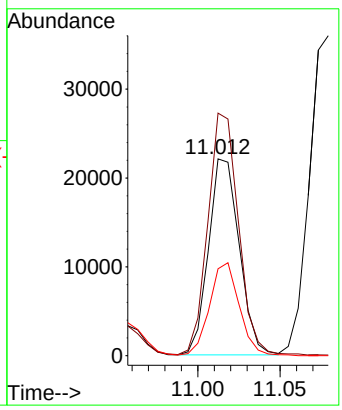




#81
trans-1,4-Dichloro-2-butene
Concen: 52.754 ug/l
RT: 11.012 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion: 75 Resp: 2872

Ion	Ratio	Lower	Upper
75	100		
53	122.9	101.8	152.6
89	45.9	37.2	55.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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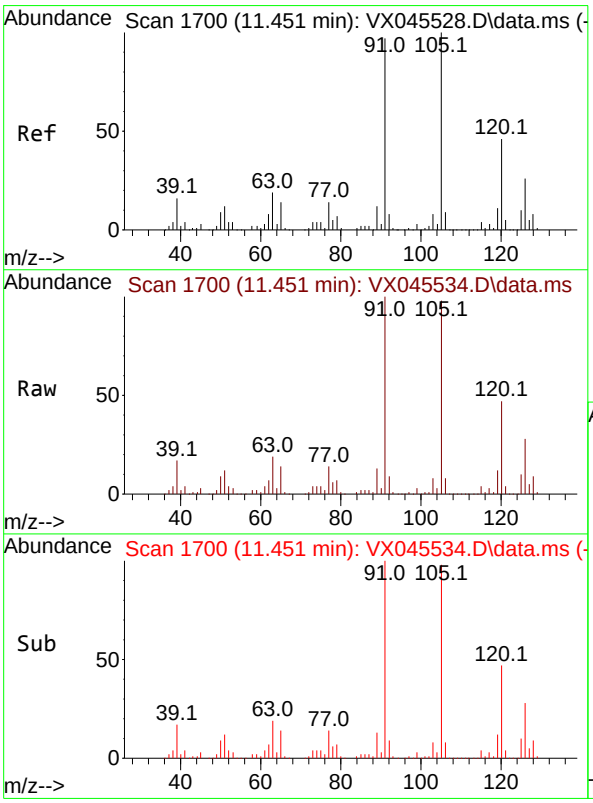
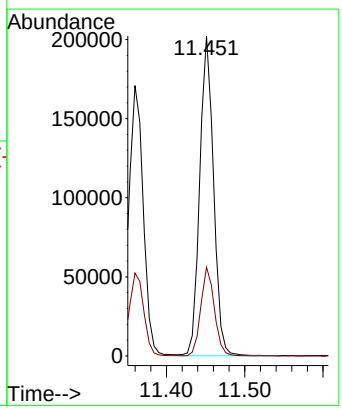
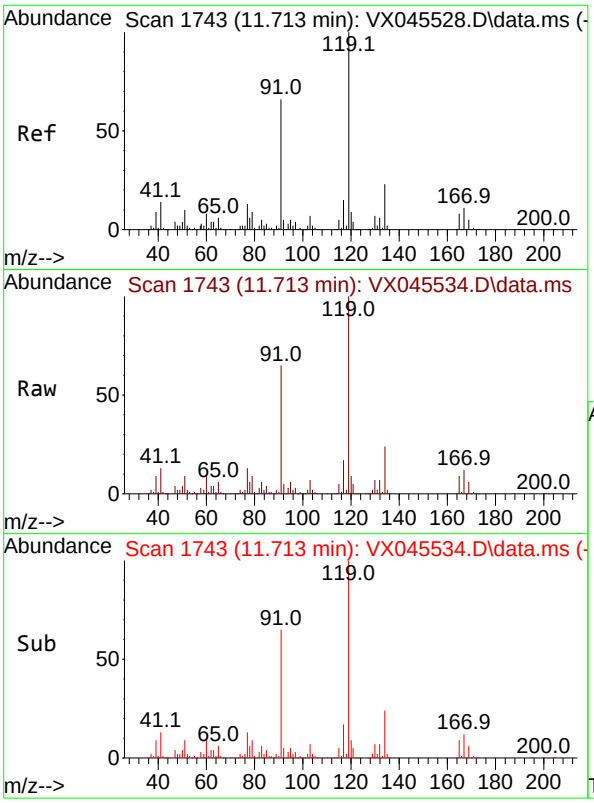


#82
4-Chlorotoluene
Concen: 49.590 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion: 91 Resp: 247039

Ion	Ratio	Lower	Upper
91	100		
126	27.2	13.3	39.9

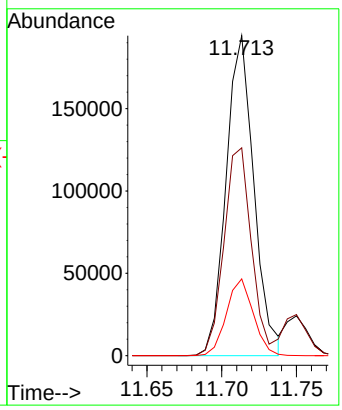




#83
tert-Butylbenzene
Concen: 50.574 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion:119 Resp: 25122

Ion	Ratio	Lower	Upper
119	100		
91	63.9	32.4	97.2
134	23.2	11.5	34.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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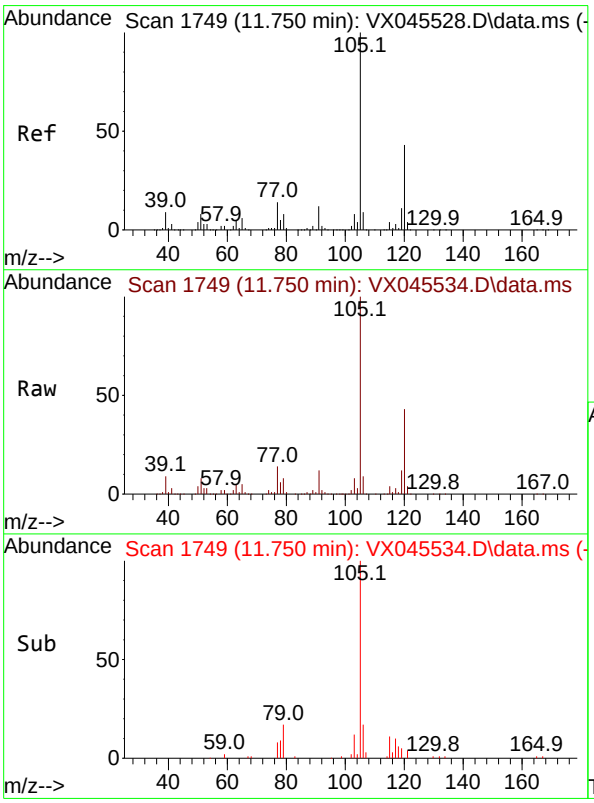
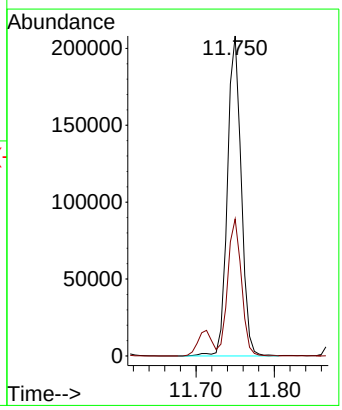
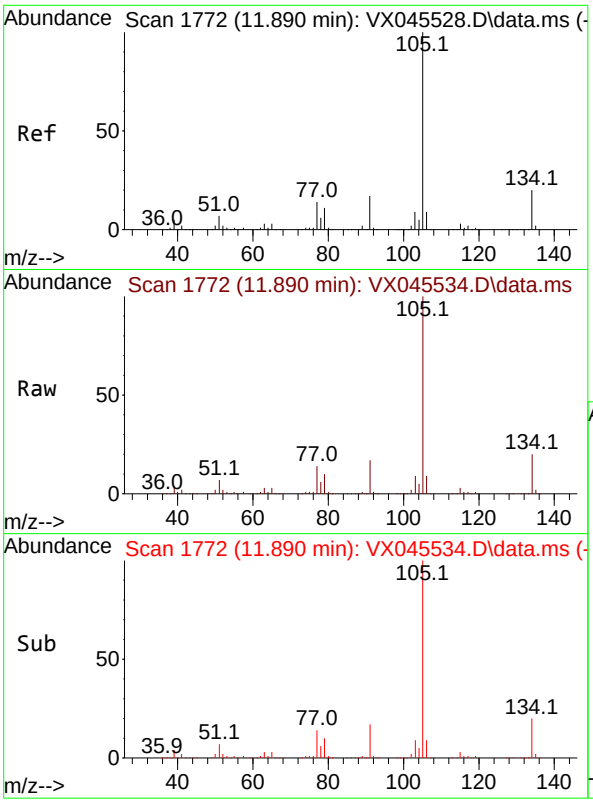


#84
1,2,4-Trimethylbenzene
Concen: 50.496 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion:105 Resp: 254295

Ion	Ratio	Lower	Upper
105	100		
120	42.7	21.4	64.3

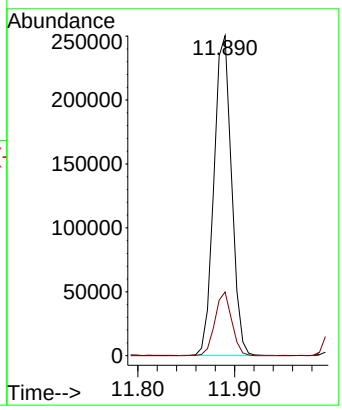




#85
sec-Butylbenzene
Concen: 51.807 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion:105 Resp: 31608

Ion	Ratio	Lower	Upper
105	100		
134	19.1	9.6	28.6



Instrument :
MSVOA_X
ClientSampleId :
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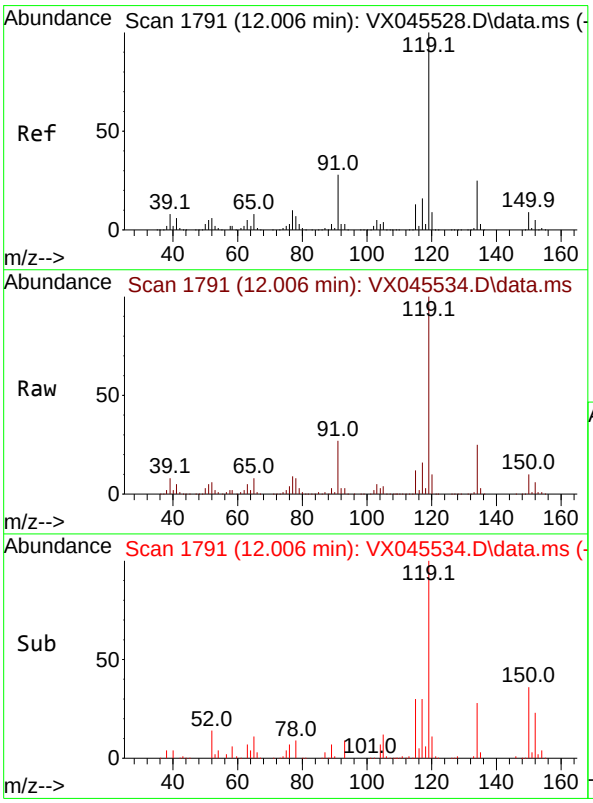
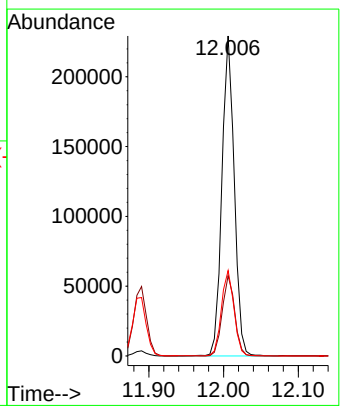
Reviewed By :John Carlone 04/03/2025
Supervised By :Mahesh Dadoda 04/03/2025

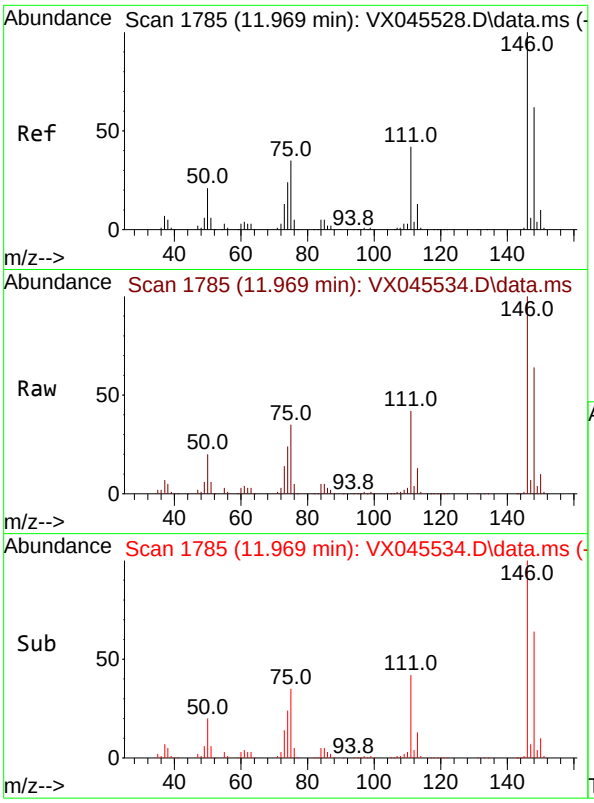


#86
p-Isopropyltoluene
Concen: 52.197 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion:119 Resp: 262553

Ion	Ratio	Lower	Upper
119	100		
134	25.4	12.6	37.8
91	27.2	13.7	41.1

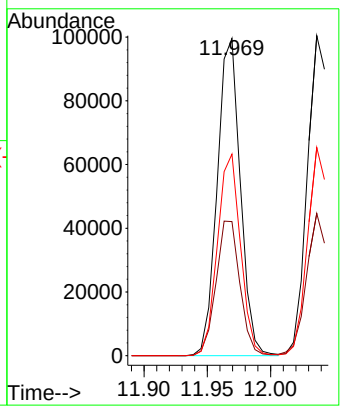




#87
1,3-Dichlorobenzene
Concen: 49.492 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion:146 Resp: 12630

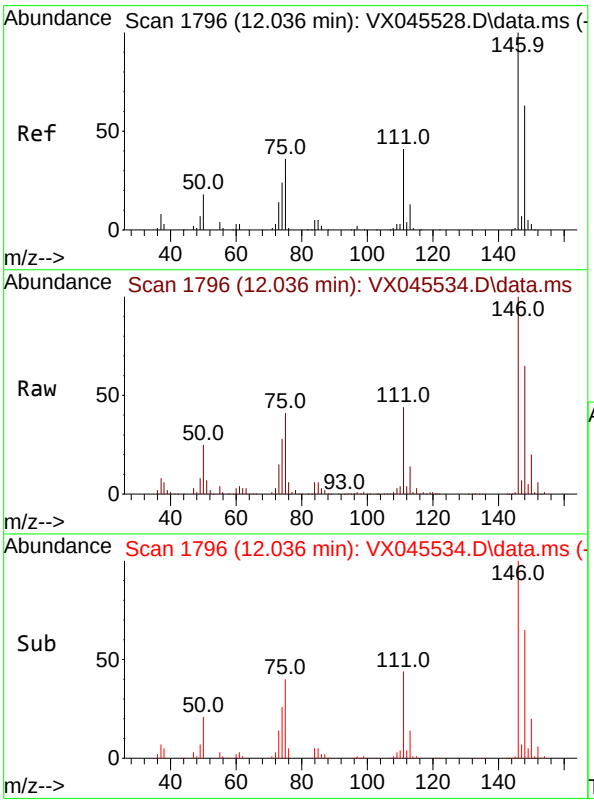
Ion	Ratio	Lower	Upper
146	100		
111	43.9	22.2	66.6
148	63.5	31.9	95.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

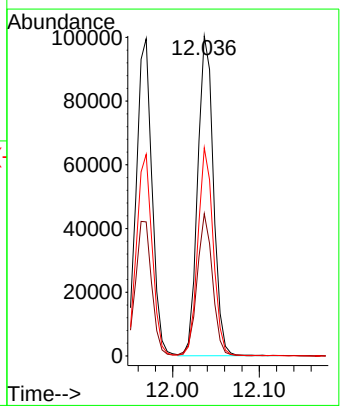
Reviewed By :John Carlone 04/03/2025
Supervised By :Mahesh Dadoda 04/03/2025

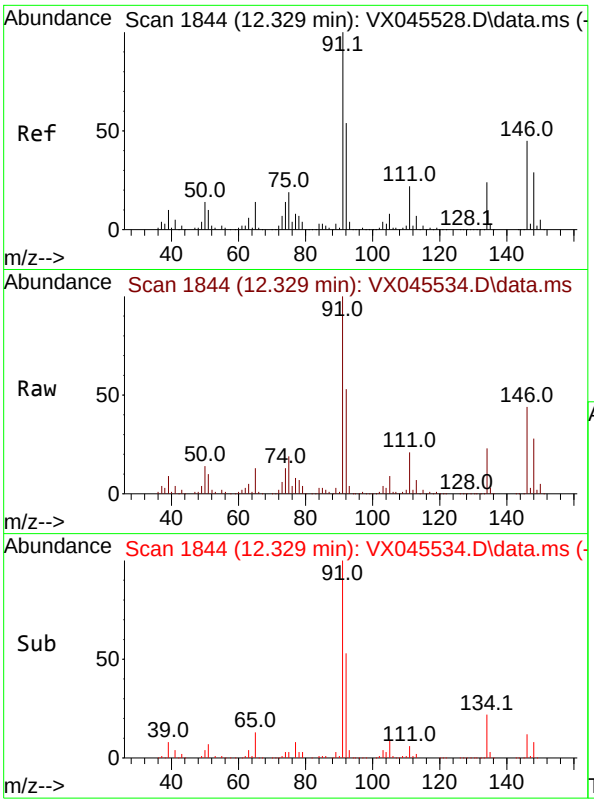


#88
1,4-Dichlorobenzene
Concen: 48.917 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion:146 Resp: 126559

Ion	Ratio	Lower	Upper
146	100		
111	43.6	20.9	62.8
148	63.2	31.5	94.5

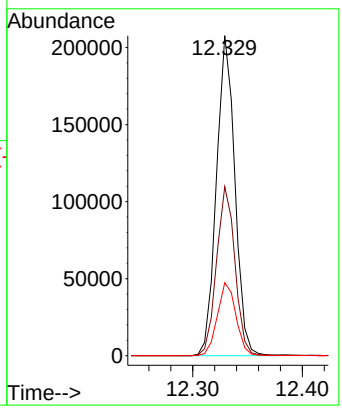




#89
n-Butylbenzene
Concen: 55.679 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion: 91 Resp: 24286

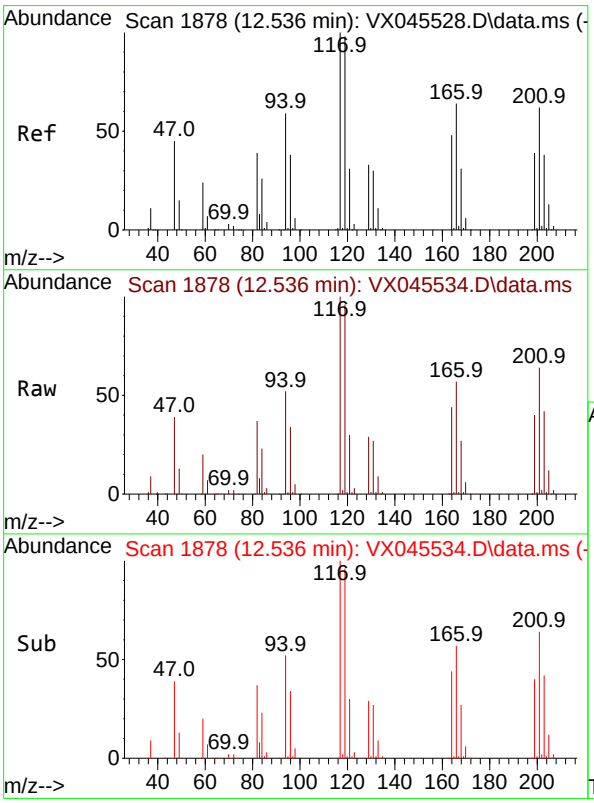
Ion	Ratio	Lower	Upper
91	100		
92	53.1	26.9	80.6
134	23.1	11.9	35.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

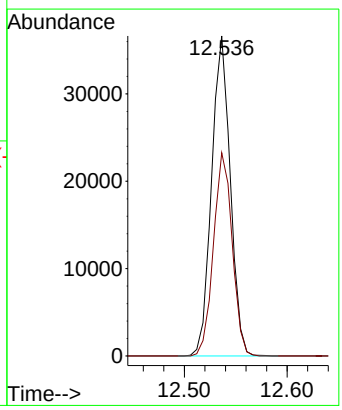
Reviewed By :John Carlone 04/03/2025
Supervised By :Mahesh Dadoda 04/03/2025

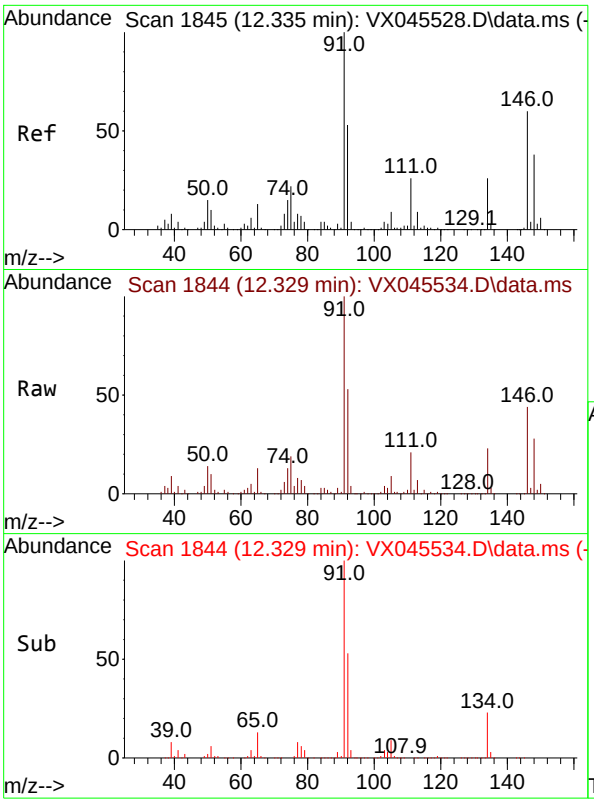


#90
Hexachloroethane
Concen: 53.467 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion:117 Resp: 46220

Ion	Ratio	Lower	Upper
117	100		
201	63.7	31.2	93.6

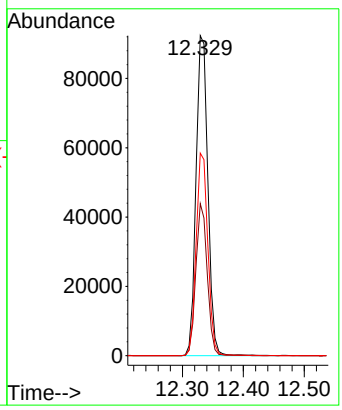




#91
1,2-Dichlorobenzene
Concen: 49.021 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion:146 Resp: 12437

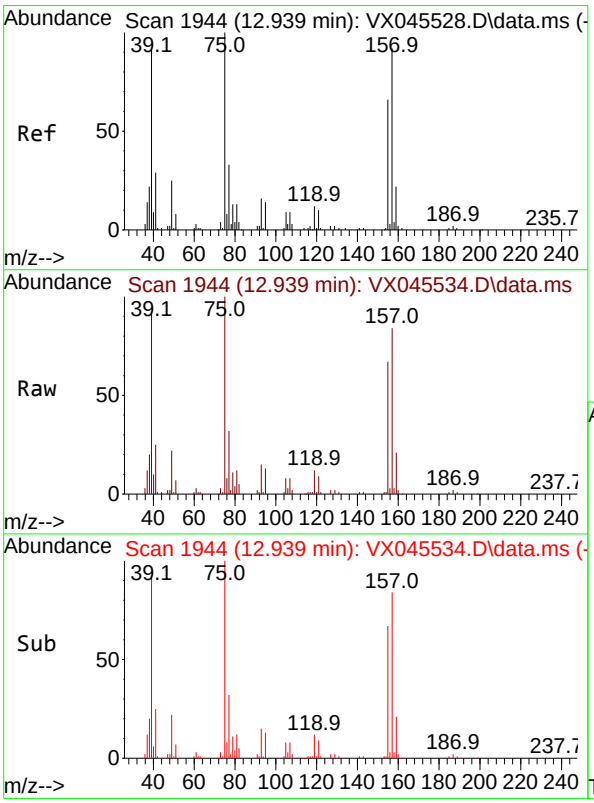
Ion	Ratio	Lower	Upper
146	100		
111	45.6	22.9	68.8
148	62.8	31.9	95.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

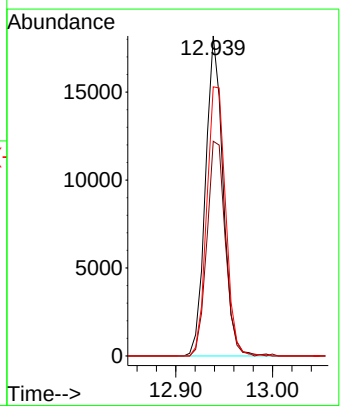
Reviewed By :John Carlone 04/03/2025
Supervised By :Mahesh Dadoda 04/03/2025

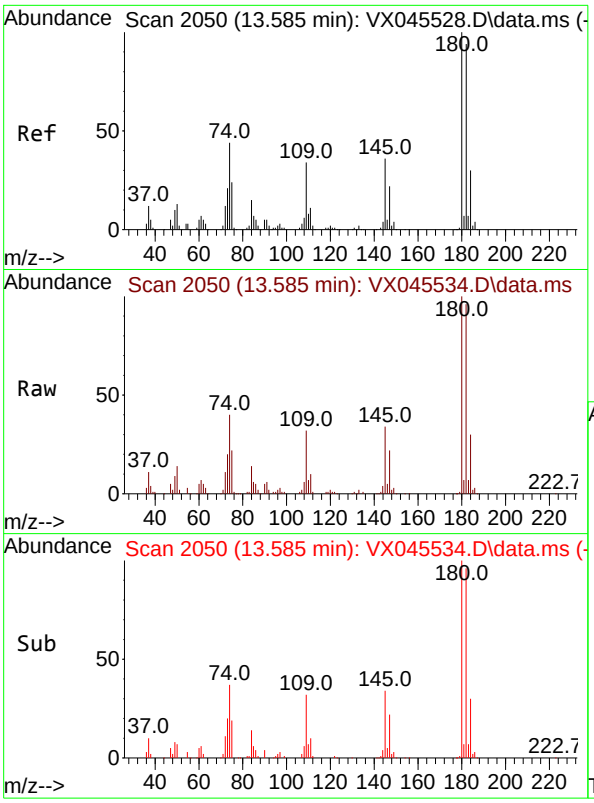


#92
1,2-Dibromo-3-Chloropropane
Concen: 51.629 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion: 75 Resp: 23015

Ion	Ratio	Lower	Upper
75	100		
155	70.3	34.9	104.7
157	90.1	44.9	134.7

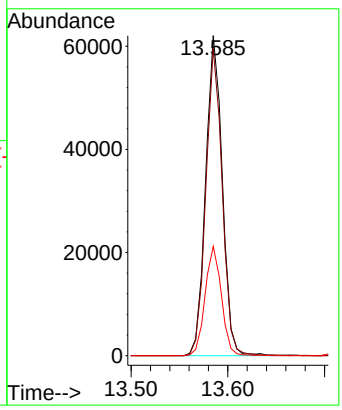




#93
1,2,4-Trichlorobenzene
Concen: 52.758 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion:180 Resp: 7451

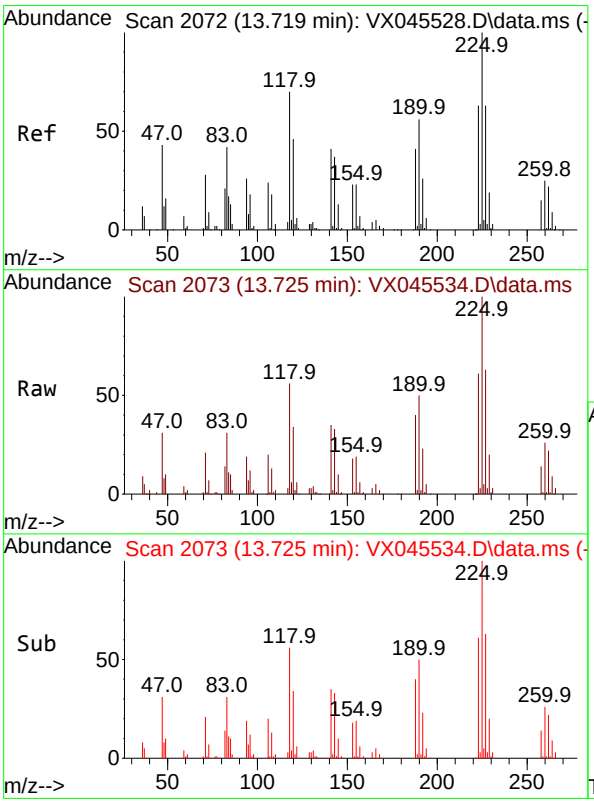
Ion	Ratio	Lower	Upper
180	100		
182	94.0	47.9	143.6
145	33.4	17.9	53.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

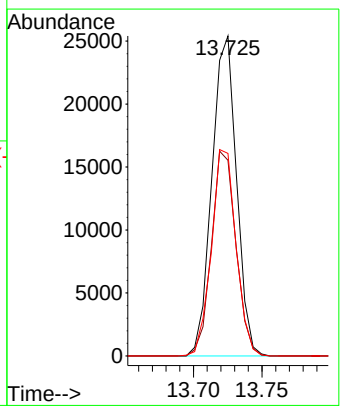
Reviewed By :John Carlone 04/03/2025
Supervised By :Mahesh Dadoda 04/03/2025

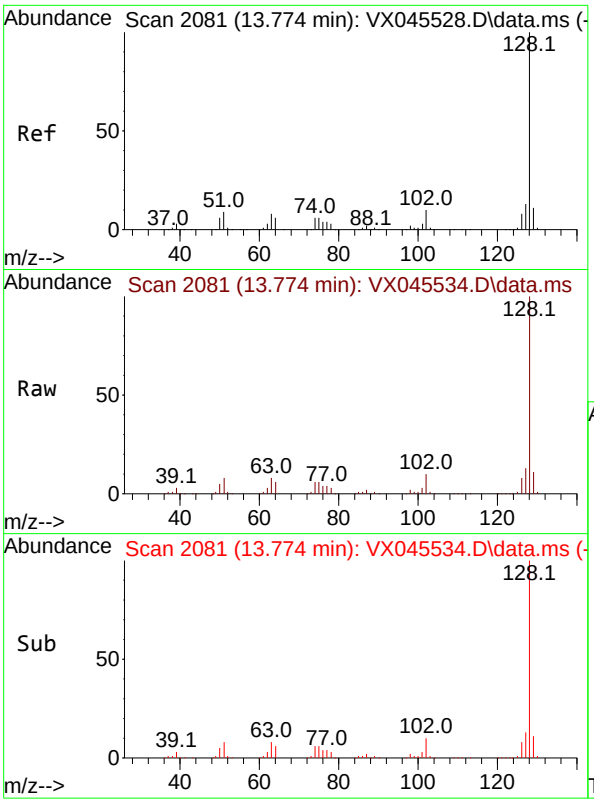


#94
Hexachlorobutadiene
Concen: 52.078 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.006 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion:225 Resp: 31694

Ion	Ratio	Lower	Upper
225	100		
223	63.6	31.1	93.3
227	64.6	32.2	96.6

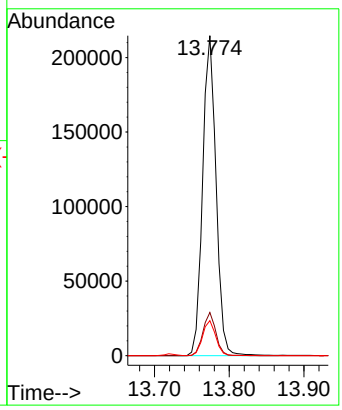




#95
Naphthalene
Concen: 50.832 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion:128 Resp: 26716

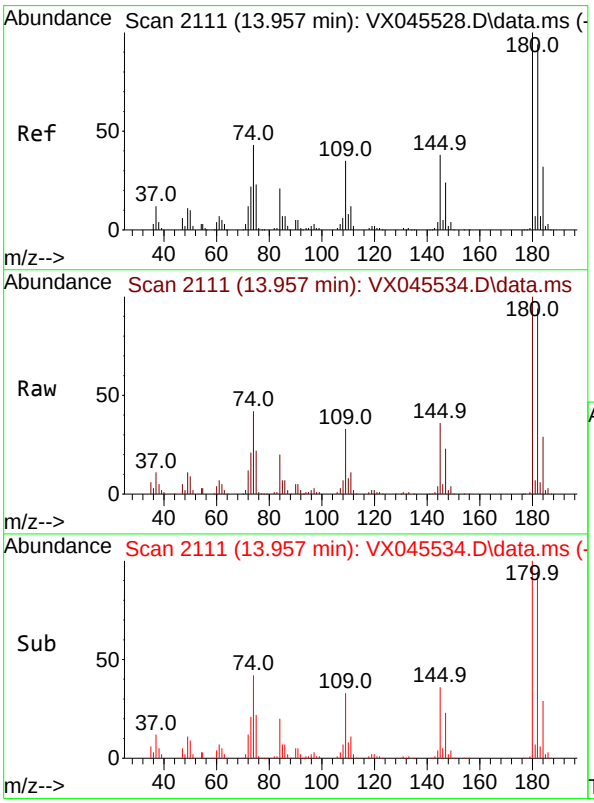
Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.3	15.5
129	10.8	8.6	12.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

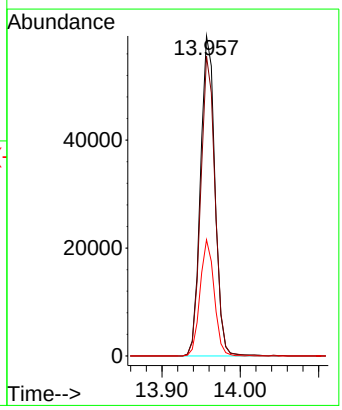
Reviewed By :John Carlone 04/03/2025
Supervised By :Mahesh Dadoda 04/03/2025



#96
1,2,3-Trichlorobenzene
Concen: 51.352 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX045534.D
Acq: 02 Apr 2025 10:02

Tgt Ion:180 Resp: 75942

Ion	Ratio	Lower	Upper
180	100		
182	93.0	47.3	141.8
145	35.5	18.2	54.6



Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045534.D
Acq On : 02 Apr 2025 10:02
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Apr 03 01:44:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 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	113	-0.01
2	T	Dichlorodifluoromethane	0.748	0.846	-13.1	117	0.00
3	P	Chloromethane	0.768	0.790	-2.9	114	0.00
4	C	Vinyl Chloride	0.703	0.712	-1.3#	113	0.00
5	T	Bromomethane	0.333	0.317	4.8	109	0.00
6	T	Chloroethane	0.373	0.382	-2.4	108	0.00
7	T	Trichlorofluoromethane	1.048	1.047	0.1	109	0.00
8	T	Diethyl Ether	0.352	0.333	5.4	106	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.614	0.638	-3.9	116	0.00
10	T	Methyl Iodide	0.766	0.734	4.2	104	0.00
11	T	Tert butyl alcohol	0.123	0.119	3.3	106	0.00
12	CM	1,1-Dichloroethene	0.600	0.594	1.0#	112	0.00
13	T	Acrolein	0.169	0.160	5.3	108	0.00
14	T	Allyl chloride	1.139	1.153	-1.2	111	0.00
15	T	Acrylonitrile	0.388	0.369	4.9	103	0.00
16	T	Acetone	0.375	0.405	-8.0	122	0.00
17	T	Carbon Disulfide	1.483	1.570	-5.9	114	0.00
18	T	Methyl Acetate	0.864	0.821	5.0	108	0.00
19	T	Methyl tert-butyl Ether	2.100	2.078	1.0	111	0.00
20	T	Methylene Chloride	0.703	0.669	4.8	107	0.00
21	T	trans-1,2-Dichloroethene	0.613	0.605	1.3	110	0.00
22	T	Diisopropyl ether	2.243	2.187	2.5	108	0.00
23	T	Vinyl Acetate	1.938	1.981	-2.2	108	0.00
24	P	1,1-Dichloroethane	1.269	1.222	3.7	109	0.00
25	T	2-Butanone	0.550	0.551	-0.2	107	0.00
26	T	2,2-Dichloropropane	0.820	0.949	-15.7	127	0.00
27	T	cis-1,2-Dichloroethene	0.747	0.720	3.6	109	0.00
28	T	Bromochloromethane	0.613	0.556	9.3	106	-0.01
29	T	Tetrahydrofuran	0.356	0.334	6.2	102	0.00
30	C	Chloroform	1.306	1.251	4.2#	108	0.00
31	T	Cyclohexane	1.122	1.103	1.7	111	0.00
32	T	1,1,1-Trichloroethane	1.105	1.091	1.3	111	0.00
33	S	1,2-Dichloroethane-d4	0.914	0.833	8.9	109	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	111	0.00
35	S	Dibromofluoromethane	0.355	0.339	4.5	109	0.00
36	T	1,1-Dichloropropene	0.479	0.484	-1.0	110	0.00
37	T	Ethyl Acetate	0.604	0.582	3.6	103	0.00
38	T	Carbon Tetrachloride	0.518	0.536	-3.5	110	0.00
39	T	Methylcyclohexane	0.587	0.637	-8.5	113	0.00
40	TM	Benzene	1.463	1.434	2.0	107	0.00
41	T	Methacrylonitrile	0.318	0.333	-4.7	105	-0.01
42	TM	1,2-Dichloroethane	0.604	0.595	1.5	106	0.00
43	T	Isopropyl Acetate	0.915	0.937	-2.4	106	0.00
44	TM	Trichloroethene	0.348	0.348	0.0	110	0.00
45	C	1,2-Dichloropropane	0.365	0.362	0.8#	106	0.00
46	T	Dibromomethane	0.280	0.280	0.0	106	0.00
47	T	Bromodichloromethane	0.560	0.562	-0.4	109	0.00
48	T	Methyl methacrylate	0.472	0.480	-1.7	105	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045534.D
Acq On : 02 Apr 2025 10:02
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Apr 03 01:44:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 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	103	0.00
50	S	Toluene-d8	1.238	1.178	4.8	107	0.00
51	T	4-Methyl-2-Pentanone	0.606	0.611	-0.8	102	0.00
52	CM	Toluene	0.885	0.864	2.4#	105	0.00
53	T	t-1,3-Dichloropropene	0.467	0.519	-11.1	113	0.00
54	T	cis-1,3-Dichloropropene	0.526	0.572	-8.7	111	0.00
55	T	1,1,2-Trichloroethane	0.353	0.338	4.2	104	0.00
56	T	Ethyl methacrylate	0.546	0.573	-4.9	106	0.00
57	T	1,3-Dichloropropane	0.614	0.602	2.0	105	0.00
58	T	2-Chloroethyl Vinyl ether	0.276	0.280	-1.4	104	0.00
59	T	2-Hexanone	0.449	0.462	-2.9	104	0.00
60	T	Dibromochloromethane	0.385	0.406	-5.5	109	0.00
61	T	1,2-Dibromoethane	0.357	0.358	-0.3	106	0.00
62	S	4-Bromofluorobenzene	0.451	0.440	2.4	107	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	107	0.00
64	T	Tetrachloroethene	0.353	0.345	2.3	106	0.00
65	PM	Chlorobenzene	1.068	1.083	-1.4	107	0.00
66	T	1,1,1,2-Tetrachloroethane	0.371	0.376	-1.3	108	0.00
67	C	Ethyl Benzene	1.914	1.972	-3.0#	105	0.00
68	T	m/p-Xylenes	0.696	0.720	-3.4	106	0.00
69	T	o-Xylene	0.686	0.704	-2.6	105	0.00
70	T	Styrene	1.132	1.188	-4.9	104	0.00
71	P	Bromoform	0.277	0.302	-9.0	109	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	110	0.00
73	T	Isopropylbenzene	4.005	3.984	0.5	105	0.00
74	T	N-amyl acetate	1.916	1.994	-4.1	107	0.00
75	P	1,1,2,2-Tetrachloroethane	1.407	1.315	6.5	105	0.00
76	T	1,2,3-Trichloropropane	1.220	1.166	4.4	105	0.00
77	T	Bromobenzene	0.925	0.900	2.7	106	0.00
78	T	n-propylbenzene	4.613	4.741	-2.8	107	0.00
79	T	2-Chlorotoluene	2.949	2.856	3.2	106	0.00
80	T	1,3,5-Trimethylbenzene	3.312	3.350	-1.1	105	0.00
81	T	trans-1,4-Dichloro-2-butene	0.359	0.379	-5.6	113	0.00
82	T	4-Chlorotoluene	3.288	3.261	0.8	104	0.00
83	T	tert-Butylbenzene	3.279	3.316	-1.1	107	0.00
84	T	1,2,4-Trimethylbenzene	3.324	3.357	-1.0	105	0.00
85	T	sec-Butylbenzene	4.027	4.173	-3.6	107	0.00
86	T	p-Isopropyltoluene	3.320	3.466	-4.4	108	0.00
87	T	1,3-Dichlorobenzene	1.684	1.667	1.0	108	0.00
88	T	1,4-Dichlorobenzene	1.708	1.671	2.2	108	0.00
89	T	n-Butylbenzene	2.879	3.206	-11.4	112	0.00
90	T	Hexachloroethane	0.571	0.610	-6.8	112	0.00
91	T	1,2-Dichlorobenzene	1.675	1.642	2.0	108	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.294	0.304	-3.4	106	0.00
93	T	1,2,4-Trichlorobenzene	0.932	0.984	-5.6	114	0.00
94	T	Hexachlorobutadiene	0.402	0.418	-4.0	114	0.00
95	T	Naphthalene	3.469	3.527	-1.7	104	0.00

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045534.D
Acq On : 02 Apr 2025 10:02
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Apr 03 01:44:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 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	0.976	1.003	-2.8	110	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045534.D
Acq On : 02 Apr 2025 10:02
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Apr 03 01:44:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 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	113	-0.01
2	T	Dichlorodifluoromethane	50.000	56.548	-13.1	117	0.00
3	P	Chloromethane	50.000	51.436	-2.9	114	0.00
4	C	Vinyl Chloride	50.000	50.633	-1.3#	113	0.00
5	T	Bromomethane	50.000	47.612	4.8	109	0.00
6	T	Chloroethane	50.000	51.148	-2.3	108	0.00
7	T	Trichlorofluoromethane	50.000	49.938	0.1	109	0.00
8	T	Diethyl Ether	50.000	47.295	5.4	106	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	51.967	-3.9	116	0.00
10	T	Methyl Iodide	50.000	47.873	4.3	104	0.00
11	T	Tert butyl alcohol	250.000	241.693	3.3	106	0.00
12	CM	1,1-Dichloroethene	50.000	49.512	1.0#	112	0.00
13	T	Acrolein	250.000	236.341	5.5	108	0.00
14	T	Allyl chloride	50.000	50.610	-1.2	111	0.00
15	T	Acrylonitrile	250.000	237.850	4.9	103	0.00
16	T	Acetone	250.000	269.851	-7.9	122	0.00
17	T	Carbon Disulfide	50.000	52.941	-5.9	114	0.00
18	T	Methyl Acetate	50.000	47.483	5.0	108	0.00
19	T	Methyl tert-butyl Ether	50.000	49.480	1.0	111	0.00
20	T	Methylene Chloride	50.000	47.558	4.9	107	0.00
21	T	trans-1,2-Dichloroethene	50.000	49.368	1.3	110	0.00
22	T	Diisopropyl ether	50.000	48.747	2.5	108	0.00
23	T	Vinyl Acetate	250.000	255.517	-2.2	108	0.00
24	P	1,1-Dichloroethane	50.000	48.148	3.7	109	0.00
25	T	2-Butanone	250.000	250.515	-0.2	107	0.00
26	T	2,2-Dichloropropane	50.000	57.888	-15.8	127	0.00
27	T	cis-1,2-Dichloroethene	50.000	48.192	3.6	109	0.00
28	T	Bromochloromethane	50.000	45.338	9.3	106	-0.01
29	T	Tetrahydrofuran	250.000	234.063	6.4	102	0.00
30	C	Chloroform	50.000	47.923	4.2#	108	0.00
31	T	Cyclohexane	50.000	49.146	1.7	111	0.00
32	T	1,1,1-Trichloroethane	50.000	49.363	1.3	111	0.00
33	S	1,2-Dichloroethane-d4	50.000	45.524	9.0	109	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	111	0.00
35	S	Dibromofluoromethane	50.000	47.765	4.5	109	0.00
36	T	1,1-Dichloropropene	50.000	50.506	-1.0	110	0.00
37	T	Ethyl Acetate	50.000	48.187	3.6	103	0.00
38	T	Carbon Tetrachloride	50.000	51.725	-3.5	110	0.00
39	T	Methylcyclohexane	50.000	54.285	-8.6	113	0.00
40	TM	Benzene	50.000	49.029	1.9	107	0.00
41	T	Methacrylonitrile	50.000	52.281	-4.6	105	-0.01
42	TM	1,2-Dichloroethane	50.000	49.263	1.5	106	0.00
43	T	Isopropyl Acetate	50.000	51.186	-2.4	106	0.00
44	TM	Trichloroethene	50.000	50.047	-0.1	110	0.00
45	C	1,2-Dichloropropane	50.000	49.531	0.9#	106	0.00
46	T	Dibromomethane	50.000	49.887	0.2	106	0.00
47	T	Bromodichloromethane	50.000	50.214	-0.4	109	0.00
48	T	Methyl methacrylate	50.000	50.851	-1.7	105	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045534.D
Acq On : 02 Apr 2025 10:02
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Apr 03 01:44:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 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	1005.638	-0.6	103	0.00
50	S	Toluene-d8	50.000	47.553	4.9	107	0.00
51	T	4-Methyl-2-Pentanone	250.000	251.819	-0.7	102	0.00
52	CM	Toluene	50.000	48.776	2.4#	105	0.00
53	T	t-1,3-Dichloropropene	50.000	48.307	3.4	113	0.00
54	T	cis-1,3-Dichloropropene	50.000	54.353	-8.7	111	0.00
55	T	1,1,2-Trichloroethane	50.000	47.884	4.2	104	0.00
56	T	Ethyl methacrylate	50.000	52.494	-5.0	106	0.00
57	T	1,3-Dichloropropane	50.000	48.991	2.0	105	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	253.906	-1.6	104	0.00
59	T	2-Hexanone	250.000	257.042	-2.8	104	0.00
60	T	Dibromochloromethane	50.000	52.816	-5.6	109	0.00
61	T	1,2-Dibromoethane	50.000	50.167	-0.3	106	0.00
62	S	4-Bromofluorobenzene	50.000	48.789	2.4	107	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	107	0.00
64	T	Tetrachloroethene	50.000	48.897	2.2	106	0.00
65	PM	Chlorobenzene	50.000	50.688	-1.4	107	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	50.712	-1.4	108	0.00
67	C	Ethyl Benzene	50.000	51.524	-3.0#	105	0.00
68	T	m/p-Xylenes	100.000	103.448	-3.4	106	0.00
69	T	o-Xylene	50.000	51.320	-2.6	105	0.00
70	T	Styrene	50.000	52.502	-5.0	104	0.00
71	P	Bromoform	50.000	54.510	-9.0	109	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	110	0.00
73	T	Isopropylbenzene	50.000	49.732	0.5	105	0.00
74	T	N-amyl acetate	50.000	52.034	-4.1	107	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	46.750	6.5	105	0.00
76	T	1,2,3-Trichloropropane	50.000	47.786	4.4	105	0.00
77	T	Bromobenzene	50.000	48.646	2.7	106	0.00
78	T	n-propylbenzene	50.000	51.385	-2.8	107	0.00
79	T	2-Chlorotoluene	50.000	48.421	3.2	106	0.00
80	T	1,3,5-Trimethylbenzene	50.000	50.571	-1.1	105	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	52.754	-5.5	113	0.00
82	T	4-Chlorotoluene	50.000	49.590	0.8	104	0.00
83	T	tert-Butylbenzene	50.000	50.574	-1.1	107	0.00
84	T	1,2,4-Trimethylbenzene	50.000	50.496	-1.0	105	0.00
85	T	sec-Butylbenzene	50.000	51.807	-3.6	107	0.00
86	T	p-Isopropyltoluene	50.000	52.197	-4.4	108	0.00
87	T	1,3-Dichlorobenzene	50.000	49.492	1.0	108	0.00
88	T	1,4-Dichlorobenzene	50.000	48.917	2.2	108	0.00
89	T	n-Butylbenzene	50.000	55.679	-11.4	112	0.00
90	T	Hexachloroethane	50.000	53.467	-6.9	112	0.00
91	T	1,2-Dichlorobenzene	50.000	49.021	2.0	108	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	51.629	-3.3	106	0.00
93	T	1,2,4-Trichlorobenzene	50.000	52.758	-5.5	114	0.00
94	T	Hexachlorobutadiene	50.000	52.078	-4.2	114	0.00
95	T	Naphthalene	50.000	50.832	-1.7	104	0.00

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045534.D
Acq On : 02 Apr 2025 10:02
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Apr 03 01:44:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 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	51.352	-2.7	110	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: JACO05

Lab Code: CHEM Case No.: Q1697 SAS No.: Q1697 SDG No.: Q1697

Instrument ID: MSVOA_X Calibration Date/Time: 04/03/2025 10:30

Lab File ID: VX045559.D Init. Calib. Date(s): 04/01/2025 04/01/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 17:06 19:02

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Vinyl Chloride	0.703	0.734		4.4	20
1,1-Dichloroethene	0.600	0.611		1.8	20
1,1-Dichloroethane	1.269	1.249	0.1	-1.5	20
cis-1,2-Dichloroethene	0.747	0.736		-1.6	20
1,1,1-Trichloroethane	1.105	1.105		0	20
Benzene	1.463	1.502		2.7	20
1,2-Dichloroethane	0.604	0.634		4.9	20
Trichloroethene	0.348	0.350		0.8	20
1,1,2-Trichloroethane	0.353	0.367		4	20
Tetrachloroethene	0.353	0.354		0.4	20
1,2-Dichloroethane-d4	0.914	0.886		-3.1	20
Dibromofluoromethane	0.355	0.358		0.8	20
Toluene-d8	1.238	1.248		0.8	20
4-Bromofluorobenzene	0.451	0.460		2.1	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040325\
Data File : VX045559.D
Acq On : 03 Apr 2025 10:30
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 04 01:17:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/04/2025
Supervised By :Mahesh Dadoda 04/04/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	95221	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	162684	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	143783	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	66270	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	84371	48.452	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 96.900%			
35) Dibromofluoromethane	5.379	113	58174	50.400	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.800%			
50) Toluene-d8	8.647	98	203099	50.412	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.820%			
62) 4-Bromofluorobenzene	11.079	95	74900	51.040	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 102.080%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.167	85	82166	57.700	ug/l	100
3) Chloromethane	1.307	50	74478	50.909	ug/l	98
4) Vinyl Chloride	1.374	62	69881	52.195	ug/l	99
5) Bromomethane	1.593	94	30702	48.364	ug/l	97
6) Chloroethane	1.666	64	38584	54.319	ug/l	99
7) Trichlorofluoromethane	1.874	101	105263	52.725	ug/l	98
8) Diethyl Ether	2.130	74	33034	49.284	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.319	101	62683	53.581	ug/l	98
10) Methyl Iodide	2.441	142	74575	51.106	ug/l	99
11) Tert butyl alcohol	2.977	59	57958	247.660	ug/l	99
12) 1,1-Dichloroethene	2.307	96	58158	50.876	ug/l	98
13) Acrolein	2.233	56	93576	290.369	ug/l	99
14) Allyl chloride	2.654	41	110918	51.139	ug/l	98
15) Acrylonitrile	3.063	53	185693	251.370	ug/l	98
16) Acetone	2.380	43	175069	244.836	ug/l	97
17) Carbon Disulfide	2.502	76	146189	51.779	ug/l	99
18) Methyl Acetate	2.703	43	81783	49.677	ug/l	100
19) Methyl tert-butyl Ether	3.111	73	197731	49.447	ug/l	100
20) Methylene Chloride	2.782	84	65985	49.292	ug/l	98
21) trans-1,2-Dichloroethene	3.081	96	58555	50.139	ug/l	99
22) Diisopropyl ether	3.757	45	216234	50.611	ug/l	96
23) Vinyl Acetate	3.715	43	963835	261.101	ug/l	100
24) 1,1-Dichloroethane	3.605	63	118946	49.227	ug/l	100
25) 2-Butanone	4.550	43	269054	257.055	ug/l	100
26) 2,2-Dichloropropane	4.465	77	86074	55.135	ug/l	99
27) cis-1,2-Dichloroethene	4.477	96	70036	49.223	ug/l	99
28) Bromochloromethane	4.891	49	56952	48.775	ug/l	99
29) Tetrahydrofuran	5.001	42	169709	250.088	ug/l	99
30) Chloroform	5.087	83	122855	49.413	ug/l	97
31) Cyclohexane	5.458	56	108125	50.618	ug/l	98
32) 1,1,1-Trichloroethane	5.373	97	105194	50.002	ug/l	99
36) 1,1-Dichloropropene	5.684	75	80867	51.889	ug/l	100
37) Ethyl Acetate	4.709	43	100010	50.922	ug/l	99
38) Carbon Tetrachloride	5.666	117	91247	54.175	ug/l	98
39) Methylcyclohexane	7.373	83	106620	55.811	ug/l	98
40) Benzene	6.025	78	244336	51.334	ug/l	98

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040325\
Data File : VX045559.D
Acq On : 03 Apr 2025 10:30
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 04 01:17:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/04/2025
Supervised By :Mahesh Dadoda 04/04/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.910	41	55849	53.895	ug/l		98
42) 1,2-Dichloroethane	6.080	62	103151	52.471	ug/l		99
43) Isopropyl Acetate	6.336	43	158368	53.203	ug/l		100
44) Trichloroethene	7.117	130	57018	50.400	ug/l		91
45) 1,2-Dichloropropane	7.421	63	61965	52.177	ug/l		99
46) Dibromomethane	7.574	93	47799	52.432	ug/l		99
47) Bromodichloromethane	7.818	83	97004	53.281	ug/l		98
48) Methyl methacrylate	7.690	41	82864	53.916	ug/l		99
49) 1,4-Dioxane	7.653	88	29748	1069.810	ug/l		98
51) 4-Methyl-2-Pentanone	8.568	43	535504	271.376	ug/l		99
52) Toluene	8.714	92	146995	51.038	ug/l		98
53) t-1,3-Dichloropropene	8.976	75	84356	48.265	ug/l		99
54) cis-1,3-Dichloropropene	8.360	75	95044	55.553	ug/l		96
55) 1,1,2-Trichloroethane	9.147	97	59666	51.988	ug/l		98
56) Ethyl methacrylate	9.116	69	97540	54.916	ug/l		100
57) 1,3-Dichloropropane	9.305	76	102855	51.465	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	250203	278.463	ug/l		100
59) 2-Hexanone	9.427	43	388703	266.003	ug/l		100
60) Dibromochloromethane	9.519	129	68554	54.791	ug/l		98
61) 1,2-Dibromoethane	9.604	107	61554	52.982	ug/l		99
64) Tetrachloroethene	9.269	164	50963	50.202	ug/l		97
65) Chlorobenzene	10.073	112	161334	52.511	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.159	131	55208	51.757	ug/l		99
67) Ethyl Benzene	10.189	91	292313	53.122	ug/l		100
68) m/p-Xylenes	10.299	106	213521	106.687	ug/l		98
69) o-Xylene	10.640	106	104675	53.092	ug/l		99
70) Styrene	10.653	104	178474	54.847	ug/l		100
71) Bromoform	10.799	173	43615	54.761	ug/l	#	97
73) Isopropylbenzene	10.957	105	280025	52.752	ug/l		99
74) N-amyl acetate	10.842	43	131921	51.953	ug/l		100
75) 1,1,2,2-Tetrachloroethane	11.207	83	90162	48.351	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	80395m	49.735	ug/l		
77) Bromobenzene	11.195	156	62977	51.347	ug/l		99
78) n-propylbenzene	11.299	91	330313	54.023	ug/l		100
79) 2-Chlorotoluene	11.360	91	201387	51.521	ug/l		100
80) 1,3,5-Trimethylbenzene	11.451	105	237889	54.195	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	25059	52.613	ug/l		99
82) 4-Chlorotoluene	11.451	91	231669	53.158	ug/l		99
83) tert-Butylbenzene	11.713	119	232038	53.394	ug/l		100
84) 1,2,4-Trimethylbenzene	11.750	105	238183	54.063	ug/l		100
85) sec-Butylbenzene	11.890	105	292834	54.862	ug/l		100
86) p-Isopropyltoluene	12.006	119	241650	54.914	ug/l		100
87) 1,3-Dichlorobenzene	11.969	146	114280	51.187	ug/l		100
88) 1,4-Dichlorobenzene	12.037	146	113108	49.973	ug/l		99
89) n-Butylbenzene	12.329	91	218225	57.188	ug/l		99
90) Hexachloroethane	12.536	117	42042	55.591	ug/l		100
91) 1,2-Dichlorobenzene	12.335	146	111954	50.437	ug/l		100
92) 1,2-Dibromo-3-Chloropr...	12.939	75	21298	54.613	ug/l		97
93) 1,2,4-Trichlorobenzene	13.585	180	66008	53.424	ug/l		97
94) Hexachlorobutadiene	13.725	225	28337	53.224	ug/l		98
95) Naphthalene	13.774	128	236621	51.463	ug/l		99
96) 1,2,3-Trichlorobenzene	13.957	180	66605	51.481	ug/l		99

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040325\
Data File : VX045559.D
Acq On : 03 Apr 2025 10:30
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 04 01:17:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/04/2025
Supervised By :Mahesh Dadoda 04/04/2025

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\VX040325\
Data File : VX045559.D
Acq On : 03 Apr 2025 10:30
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 04 01:17:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
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Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/04/2025
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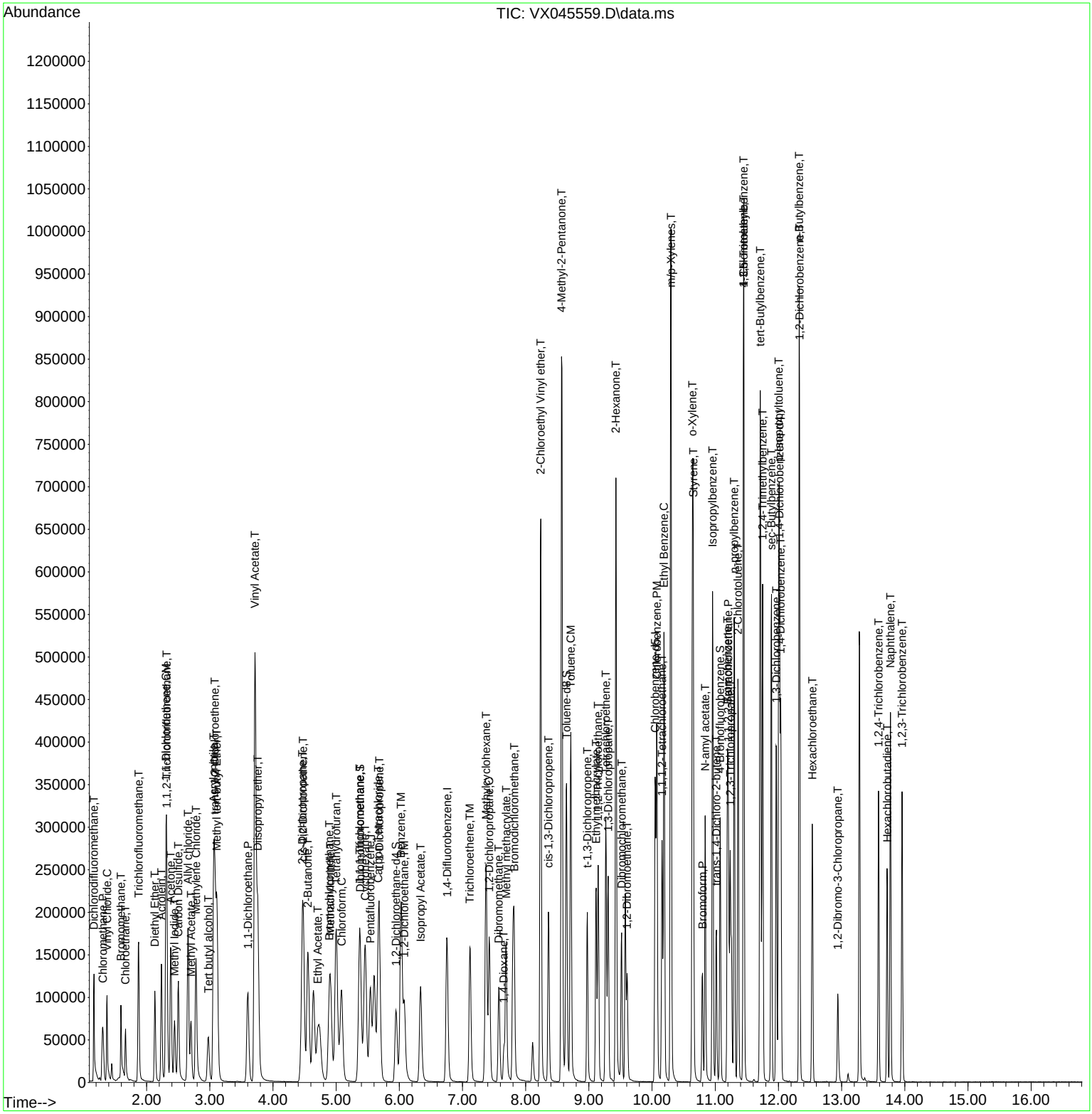
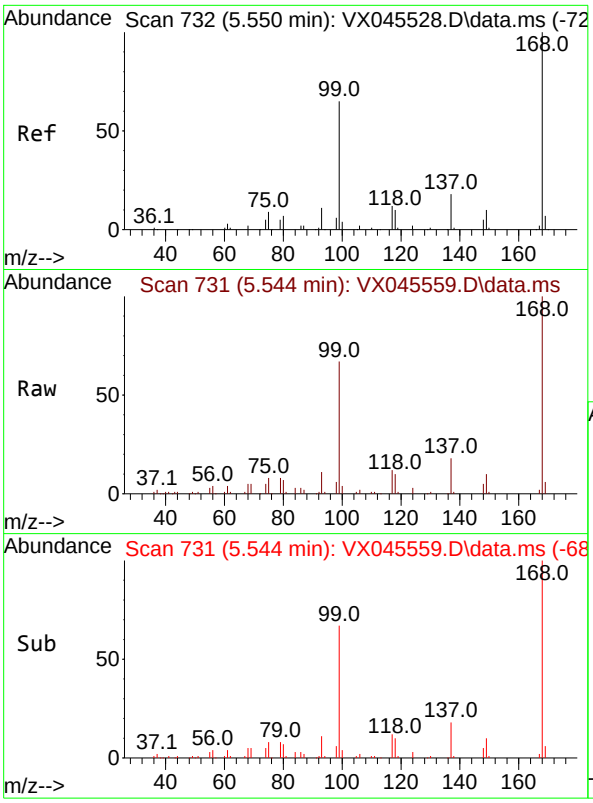
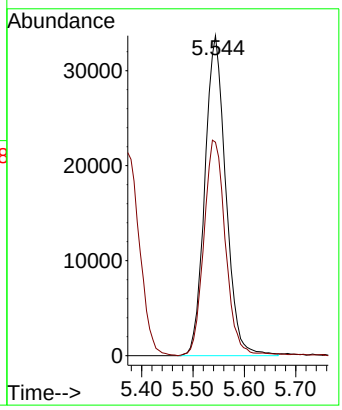




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion:168 Resp: 9522

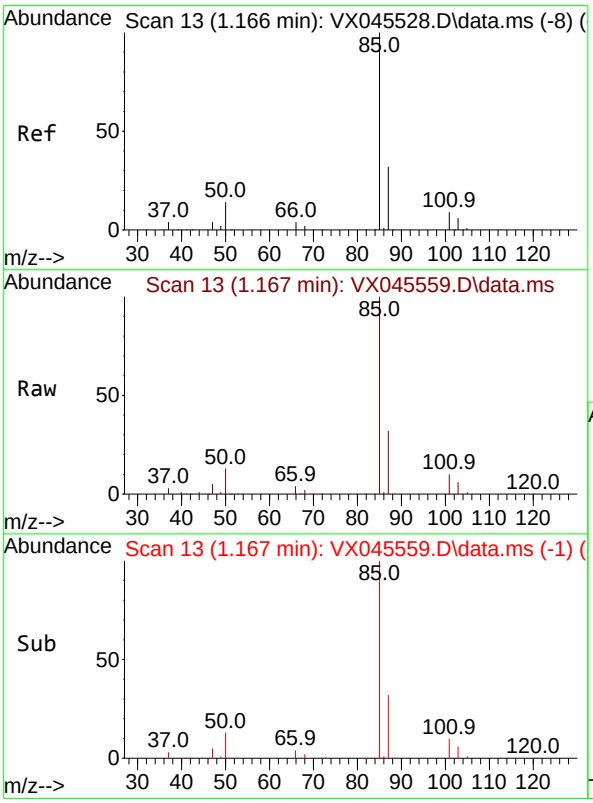
Ion	Ratio	Lower	Upper
168	100		
99	66.7	52.3	78.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

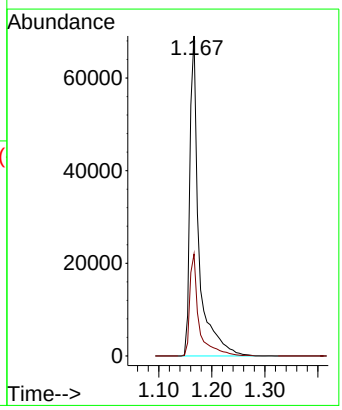
Reviewed By :Semsettin Yesilyurt 04/04/2025
Supervised By :Mahesh Dadoda 04/04/2025

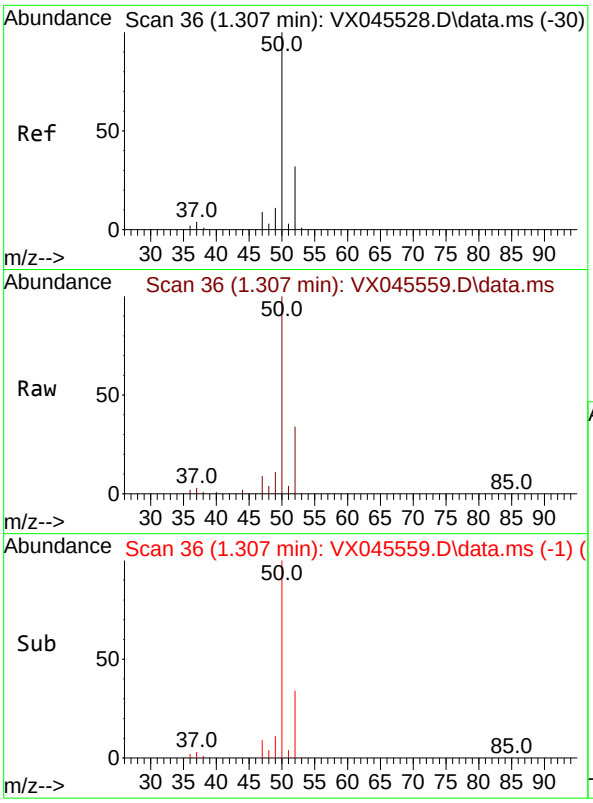


#2
Dichlorodifluoromethane
Concen: 57.700 ug/l
RT: 1.167 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion: 85 Resp: 82166

Ion	Ratio	Lower	Upper
85	100		
87	31.9	16.1	48.2

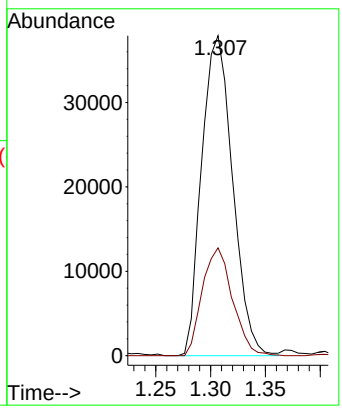




#3
Chloromethane
Concen: 50.909 ug/l
RT: 1.307 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion: 50 Resp: 7447

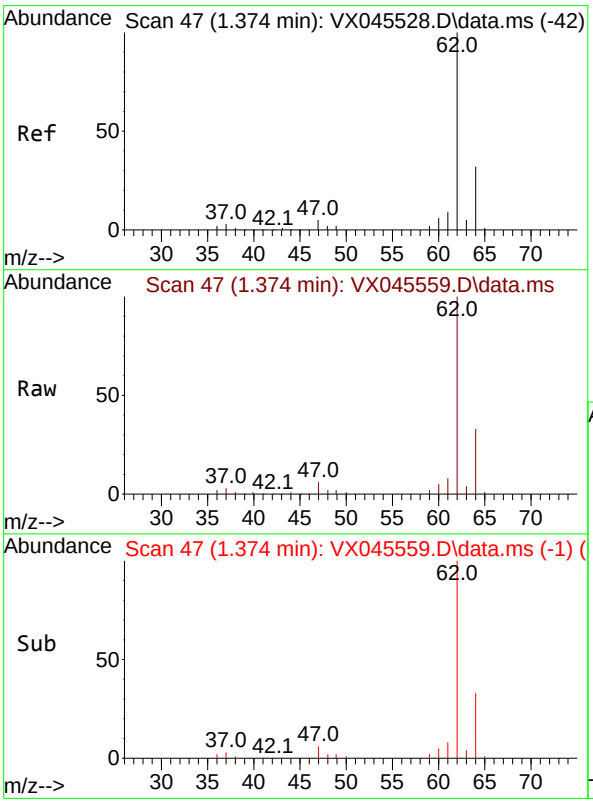
Ion	Ratio	Lower	Upper
50	100		
52	33.7	25.9	38.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

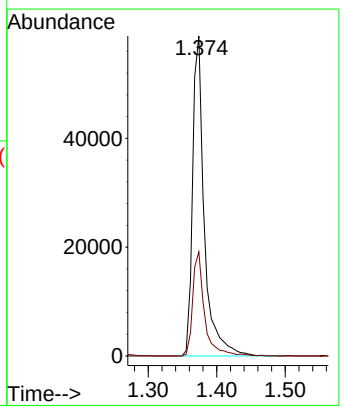
Reviewed By :Semsettin Yesilyurt 04/04/2025
Supervised By :Mahesh Dadoda 04/04/2025

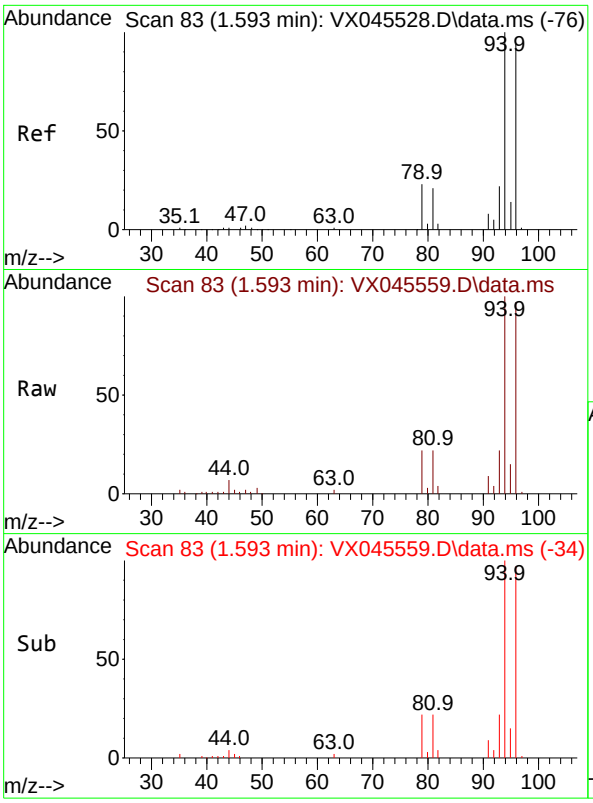


#4
Vinyl Chloride
Concen: 52.195 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion: 62 Resp: 69881

Ion	Ratio	Lower	Upper
62	100		
64	32.5	25.5	38.3

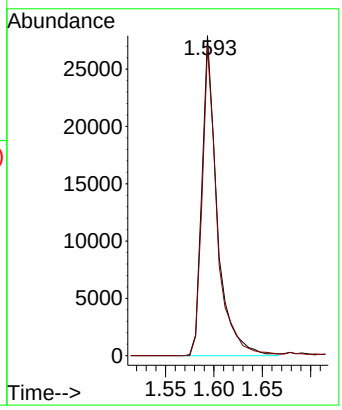




#5
Bromomethane
Concen: 48.364 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion: 94 Resp: 3070

Ion	Ratio	Lower	Upper
94	100		
96	96.6	74.8	112.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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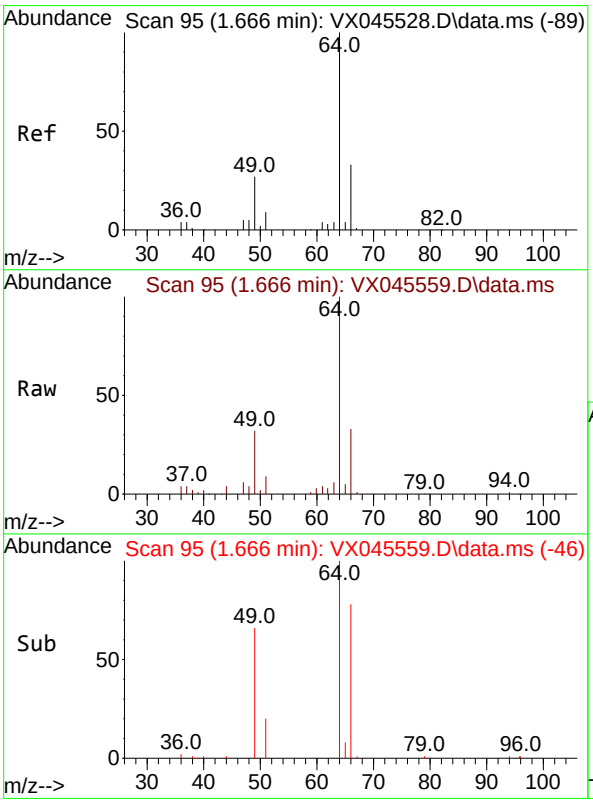
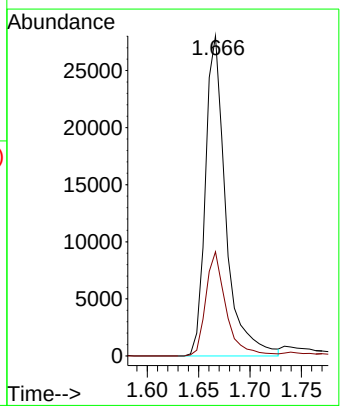
Reviewed By :Semsettin Yesilyurt 04/04/2025
Supervised By :Mahesh Dadoda 04/04/2025

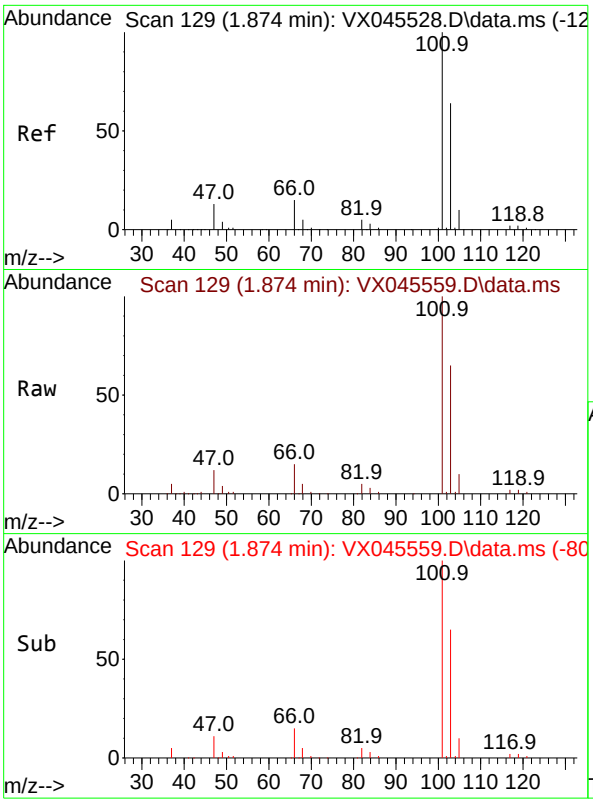


#6
Chloroethane
Concen: 54.319 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.000 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion: 64 Resp: 38584

Ion	Ratio	Lower	Upper
64	100		
66	32.6	26.3	39.5

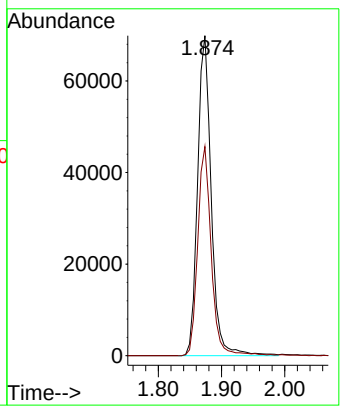




#7
Trichlorofluoromethane
Concen: 52.725 ug/l
RT: 1.874 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion:101 Resp: 10526

Ion	Ratio	Lower	Upper
101	100		
103	65.4	51.1	76.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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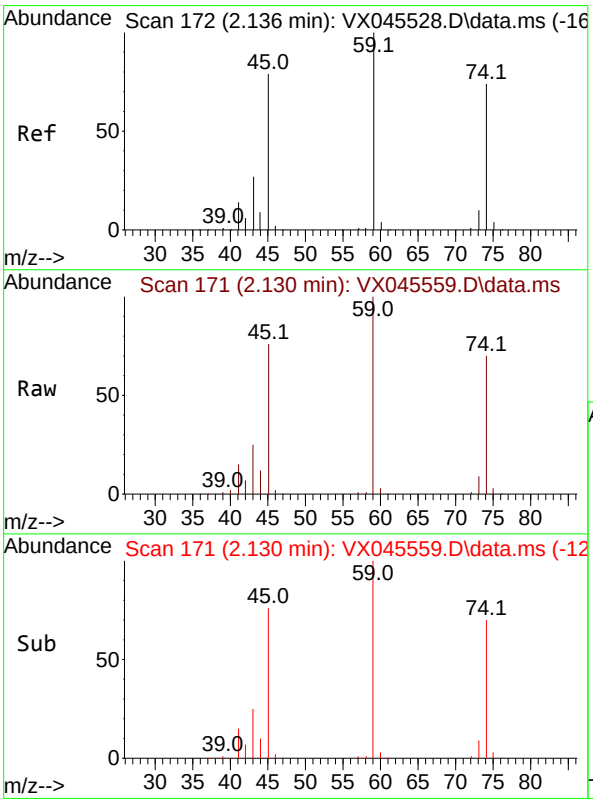
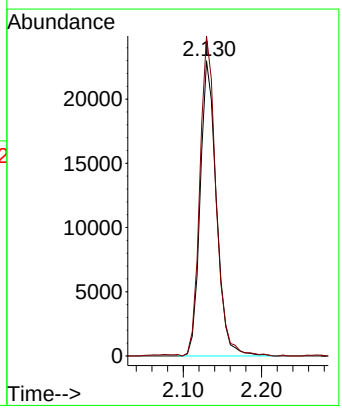
Reviewed By :Semsettin Yesilyurt 04/04/2025
Supervised By :Mahesh Dadoda 04/04/2025

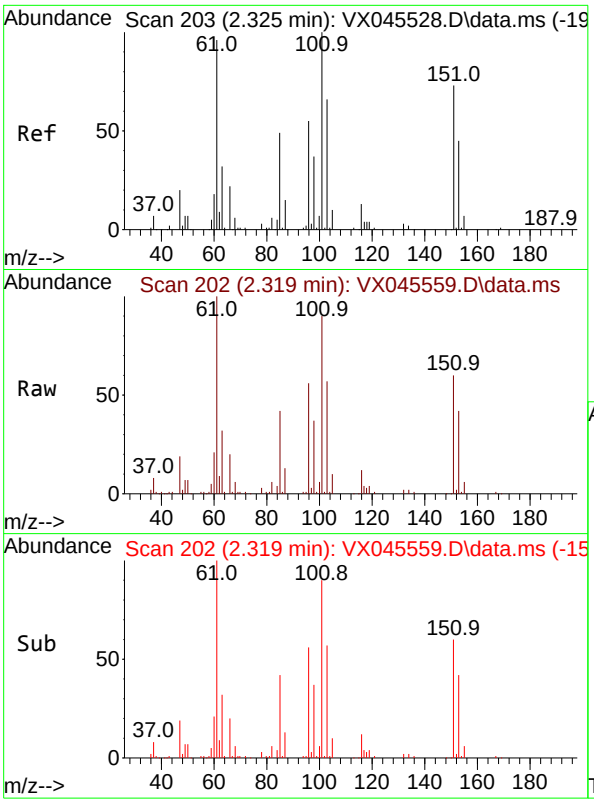


#8
Diethyl Ether
Concen: 49.284 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion: 74 Resp: 33034

Ion	Ratio	Lower	Upper
74	100		
45	108.1	53.0	159.1

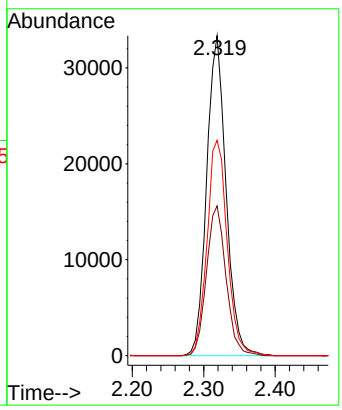




#9
1,1,2-Trichlorotrifluoroethane
Concen: 53.581 ug/l
RT: 2.319 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion:101 Resp: 6268

Ion	Ratio	Lower	Upper
101	100		
85	47.3	38.9	58.3
151	70.2	57.5	86.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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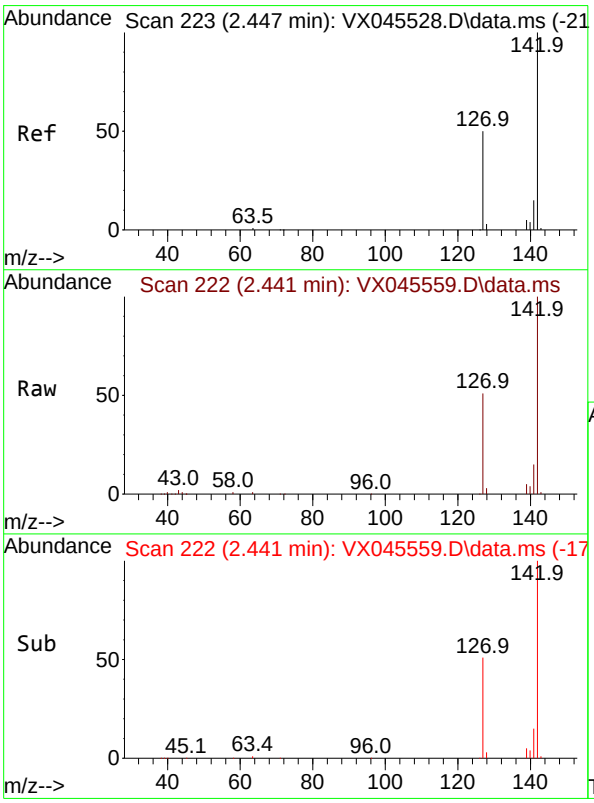
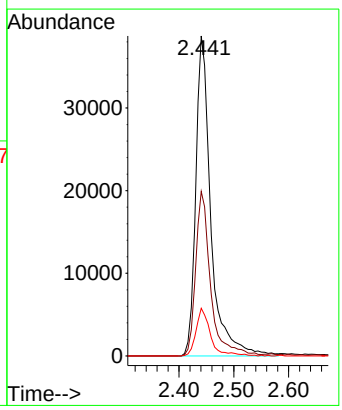
Reviewed By :Semsettin Yesilyurt 04/04/2025
Supervised By :Mahesh Dadoda 04/04/2025

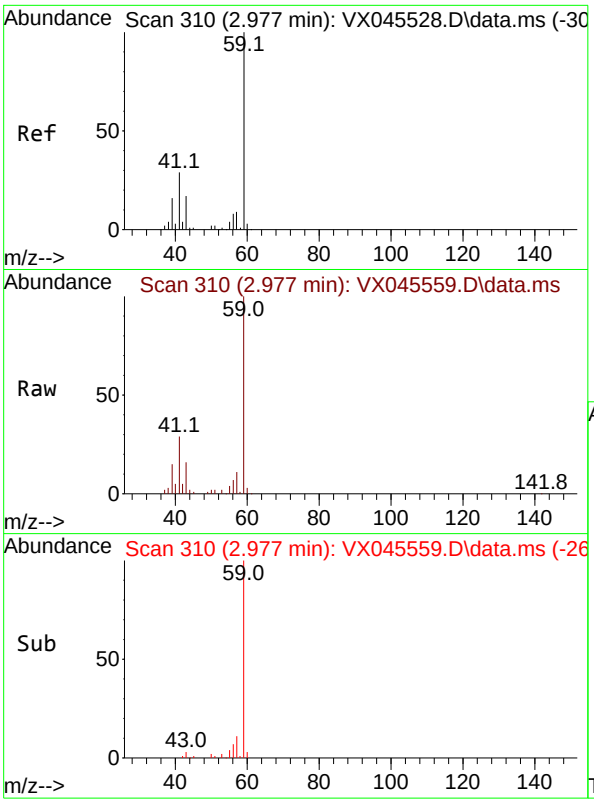


#10
Methyl Iodide
Concen: 51.106 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.006 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion:142 Resp: 74575

Ion	Ratio	Lower	Upper
142	100		
127	50.7	40.2	60.4
141	14.2	11.7	17.5

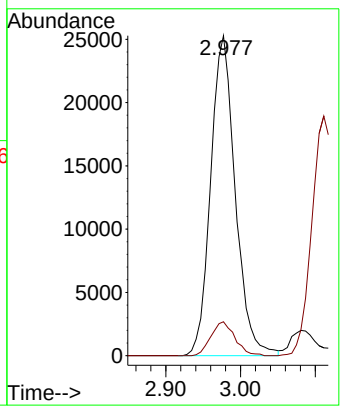




#11
Tert butyl alcohol
Concen: 247.660 ug/l
RT: 2.977 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion: 59 Resp: 5795

Ion	Ratio	Lower	Upper
59	100		
57	10.3	8.6	12.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 04/04/2025
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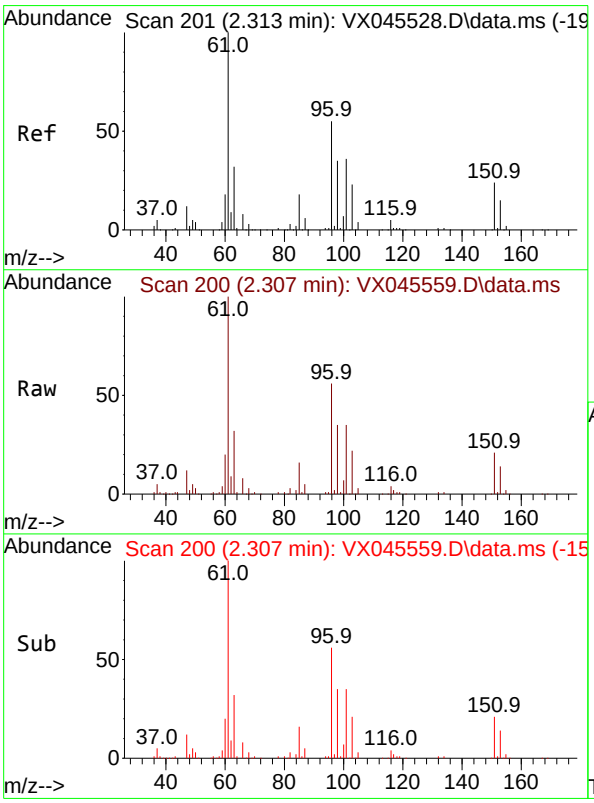
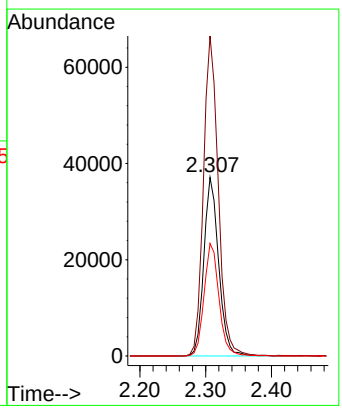
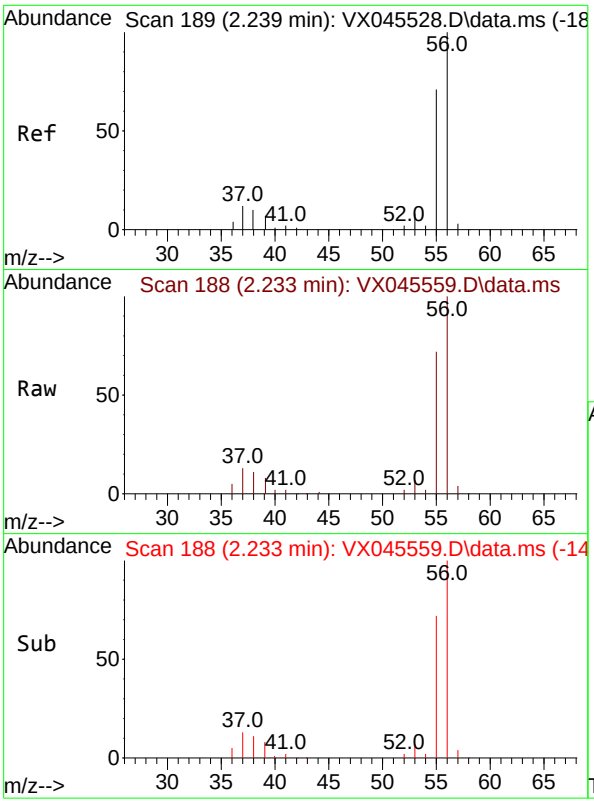


#12
1,1-Dichloroethene
Concen: 50.876 ug/l
RT: 2.307 min Scan# 200
Delta R.T. -0.006 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion: 96 Resp: 58158

Ion	Ratio	Lower	Upper
96	100		
61	179.1	145.7	218.5
98	63.0	51.6	77.4

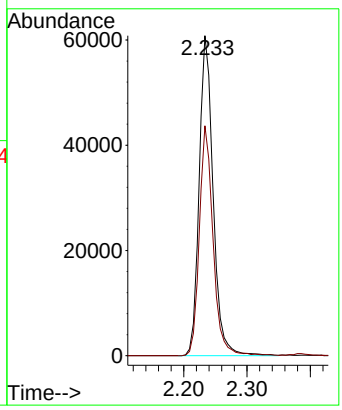




#13
Acrolein
Concen: 290.369 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion: 56 Resp: 9357

Ion	Ratio	Lower	Upper
56	100		
55	70.8	56.2	84.2



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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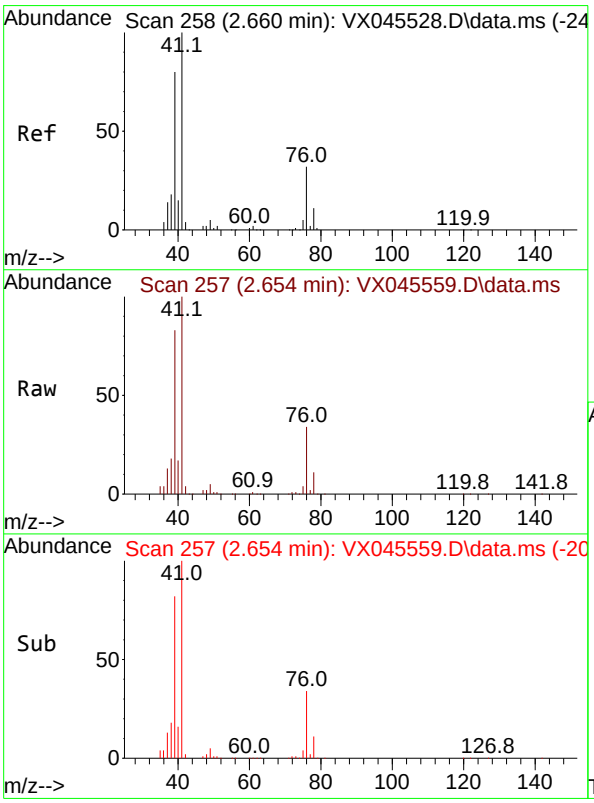
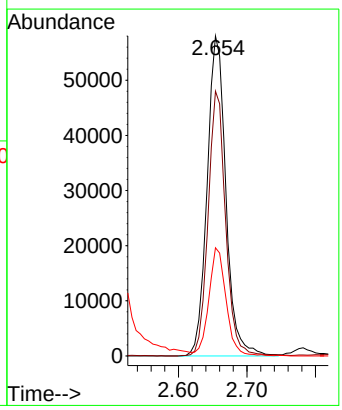
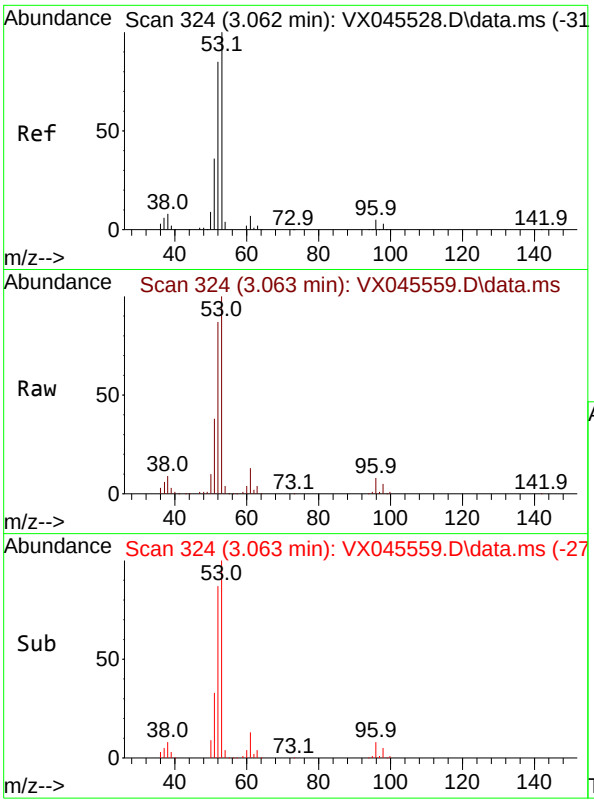


#14
Allyl chloride
Concen: 51.139 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.006 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion: 41 Resp: 110918

Ion	Ratio	Lower	Upper
41	100		
39	77.2	60.2	90.2
76	30.8	24.6	36.8

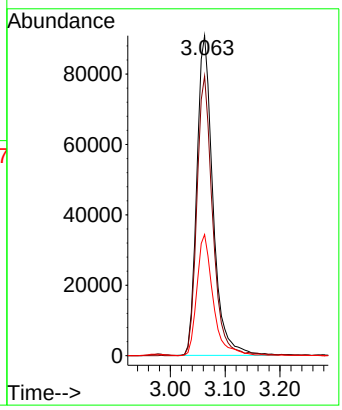




#15
Acrylonitrile
Concen: 251.370 ug/l
RT: 3.063 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion: 53 Resp: 18569

Ion	Ratio	Lower	Upper
53	100		
52	85.8	67.4	101.2
51	38.5	29.9	44.9



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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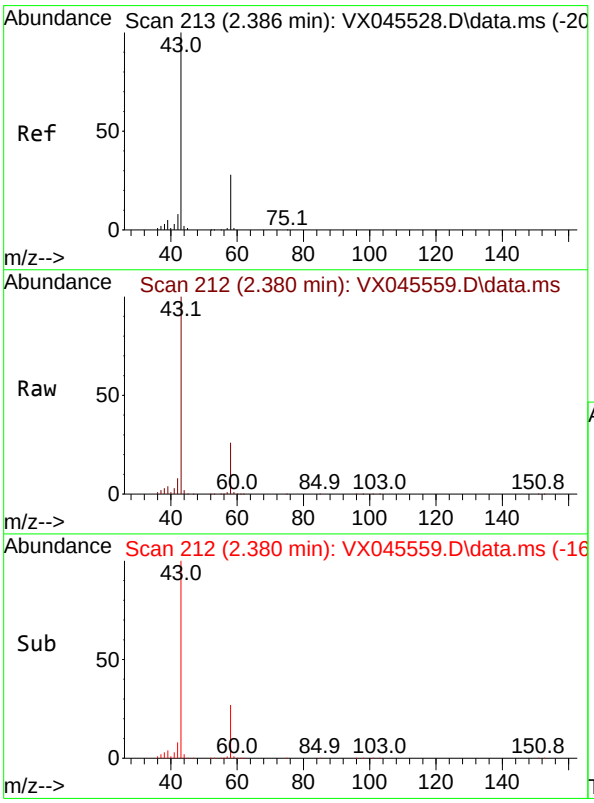
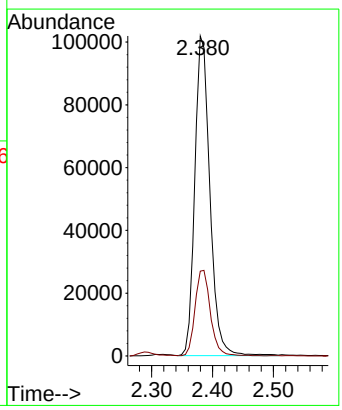
Supervised By :Mahesh Dadoda 04/04/2025

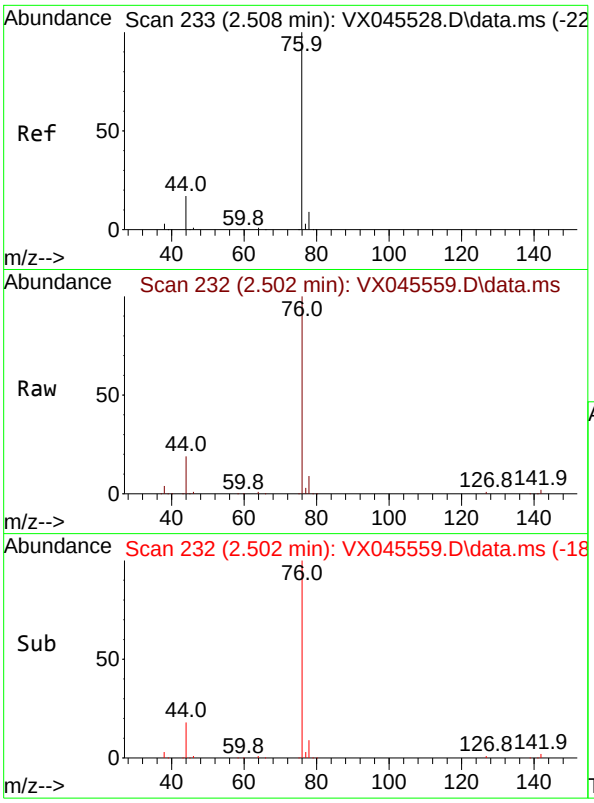


#16
Acetone
Concen: 244.836 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion: 43 Resp: 175069

Ion	Ratio	Lower	Upper
43	100		
58	26.4	22.3	33.5

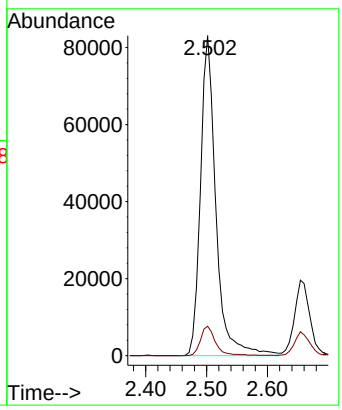




#17
Carbon Disulfide
Concen: 51.779 ug/l
RT: 2.502 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion: 76 Resp: 14618

Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.0	10.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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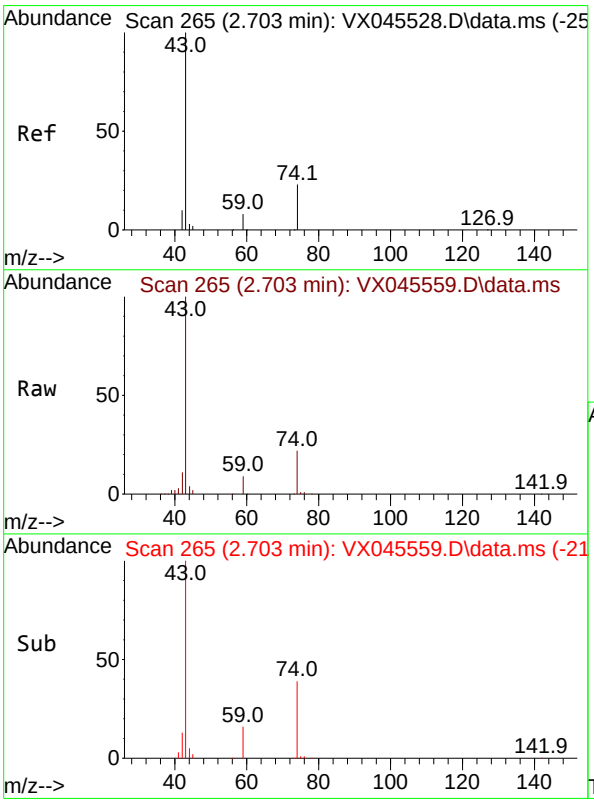
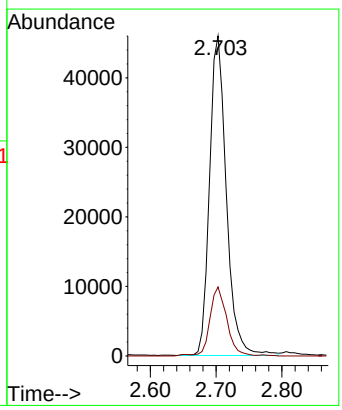
Reviewed By :Semsettin Yesilyurt 04/04/2025
Supervised By :Mahesh Dadoda 04/04/2025

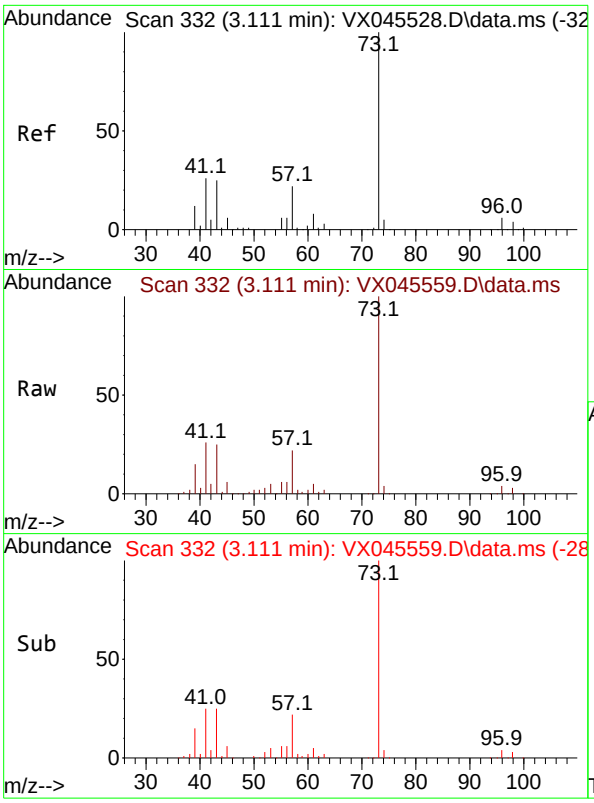


#18
Methyl Acetate
Concen: 49.677 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion: 43 Resp: 81783

Ion	Ratio	Lower	Upper
43	100		
74	21.7	17.5	26.3

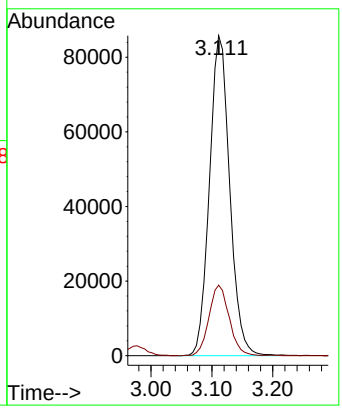




#19
Methyl tert-butyl Ether
Concen: 49.447 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion: 73 Resp: 19773

Ion	Ratio	Lower	Upper
73	100		
57	22.1	17.6	26.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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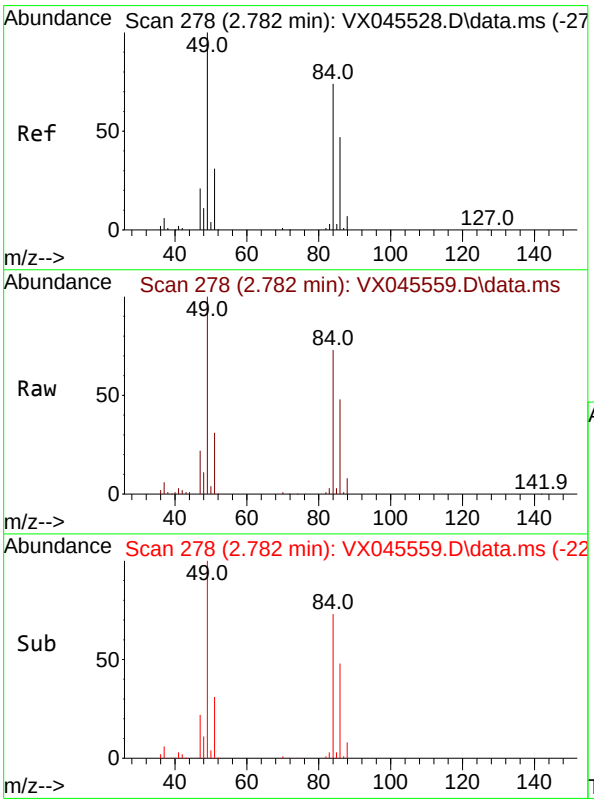
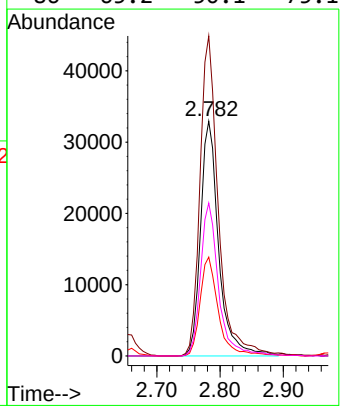
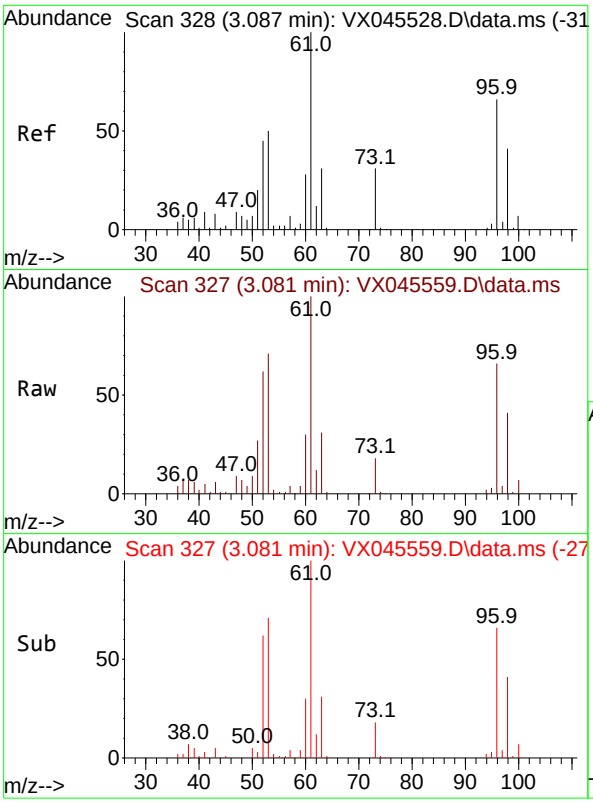


#20
Methylene Chloride
Concen: 49.292 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion: 84 Resp: 65985

Ion	Ratio	Lower	Upper
84	100		
49	136.3	107.5	161.3
51	42.2	33.0	49.6
86	65.2	50.1	75.1

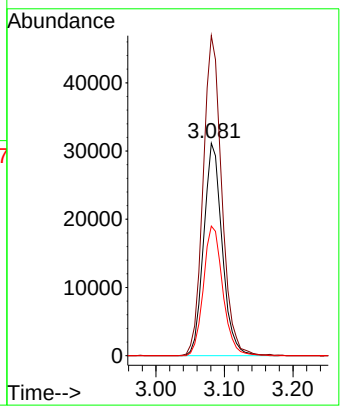




#21
trans-1,2-Dichloroethene
Concen: 50.139 ug/l
RT: 3.081 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion: 96 Resp: 5855

Ion	Ratio	Lower	Upper
96	100		
61	150.6	121.0	181.6
98	61.0	49.7	74.5



Instrument :
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ClientSampleId :
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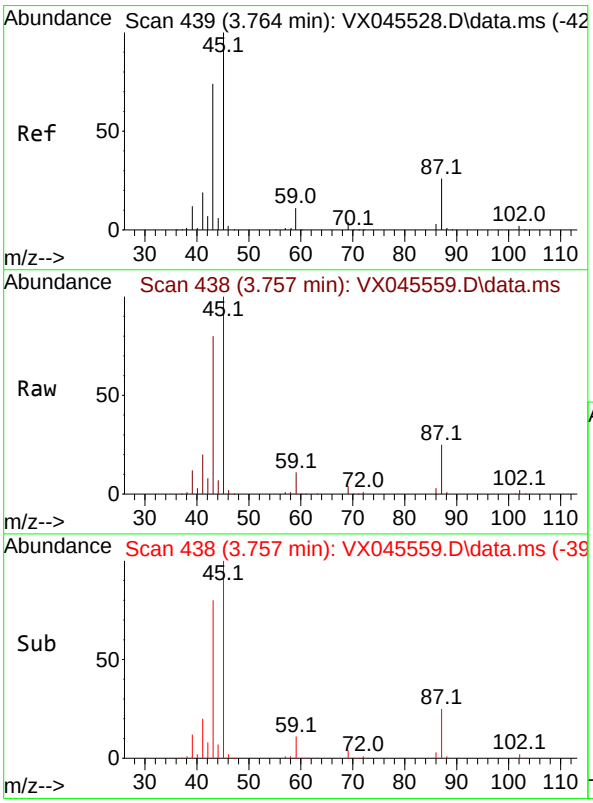
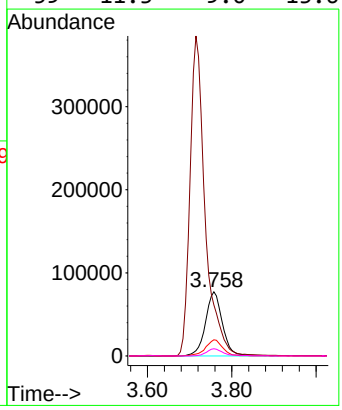
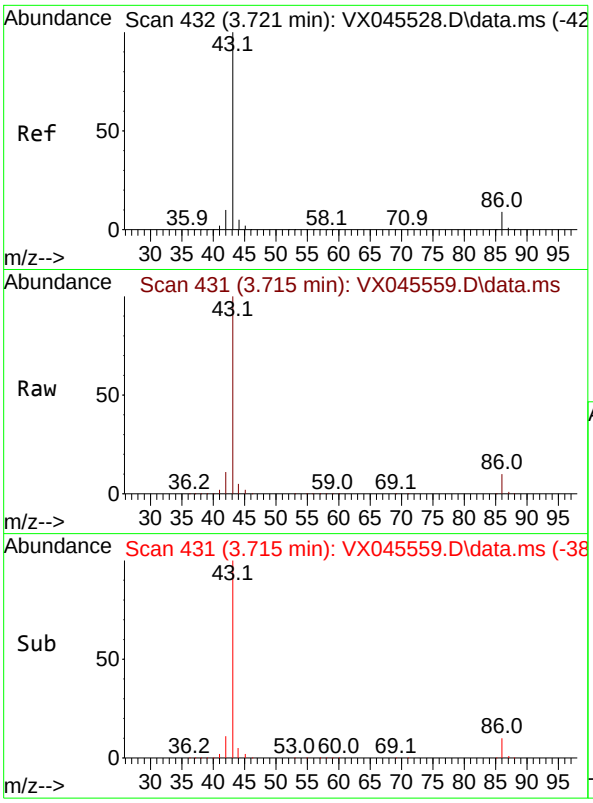


#22
Diisopropyl ether
Concen: 50.611 ug/l
RT: 3.757 min Scan# 438
Delta R.T. -0.006 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion: 45 Resp: 216234

Ion	Ratio	Lower	Upper
45	100		
43	78.8	59.3	88.9
87	25.1	20.4	30.6
59	11.3	9.0	13.6





#23
Vinyl Acetate
Concen: 261.101 ug/l
RT: 3.715 min Scan# 4
Delta R.T. -0.006 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion: 43 Resp: 96383

Ion	Ratio	Lower	Upper
43	100		
86	9.6	7.5	11.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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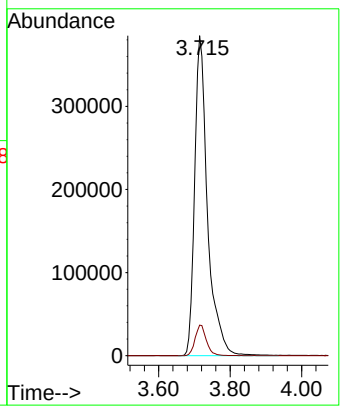
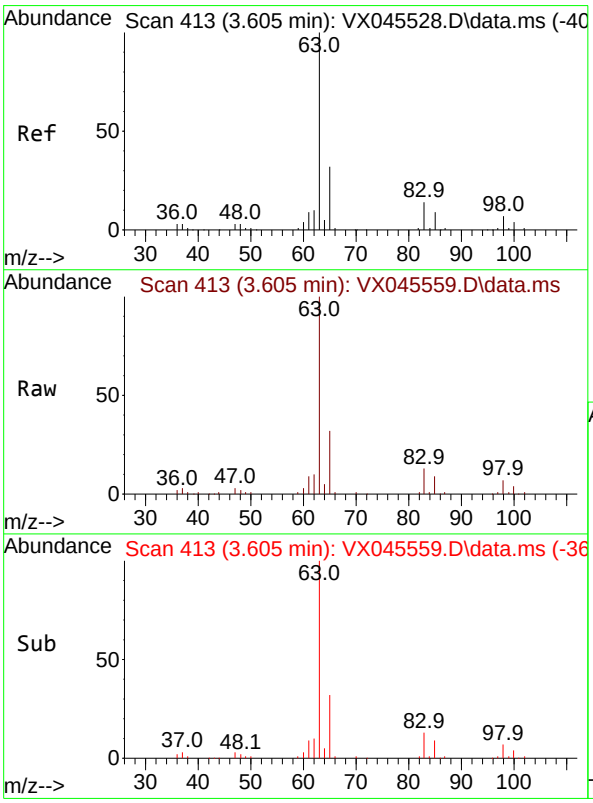
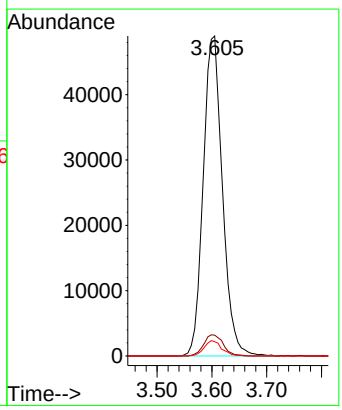


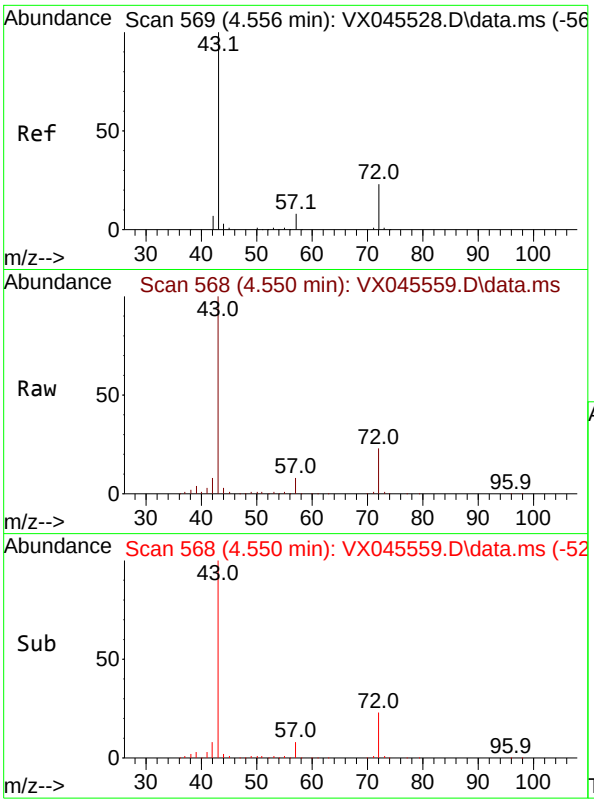


#24
1,1-Dichloroethane
Concen: 49.227 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion: 63 Resp: 118946

Ion	Ratio	Lower	Upper
63	100		
98	6.5	3.4	10.1
100	4.5	2.2	6.6

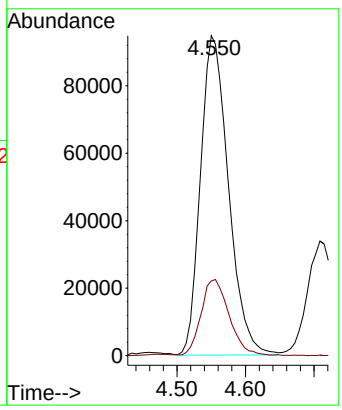




#25
2-Butanone
Concen: 257.055 ug/l
RT: 4.550 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion: 43 Resp: 26905

Ion	Ratio	Lower	Upper
43	100		
72	23.2	18.6	28.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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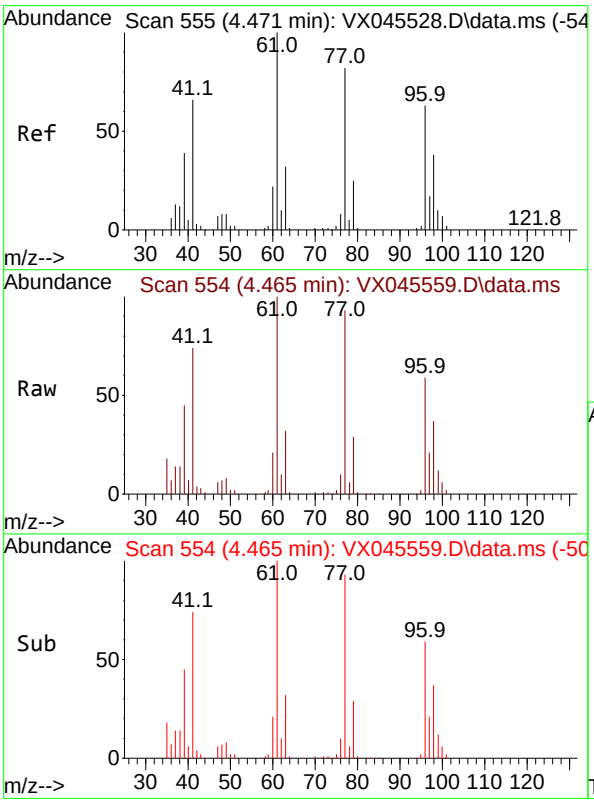
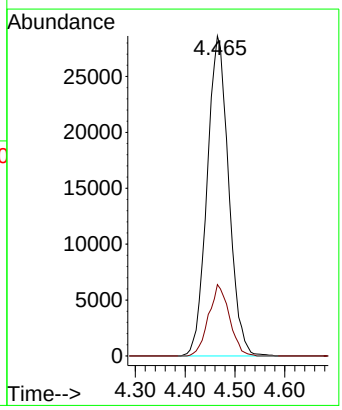
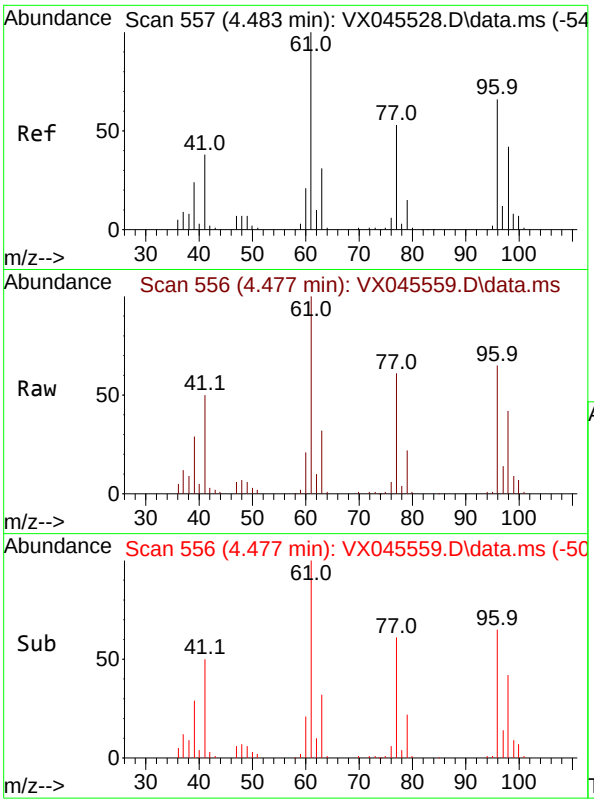


#26
2,2-Dichloropropane
Concen: 55.135 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.006 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion: 77 Resp: 86074

Ion	Ratio	Lower	Upper
77	100		
97	21.5	10.6	31.8

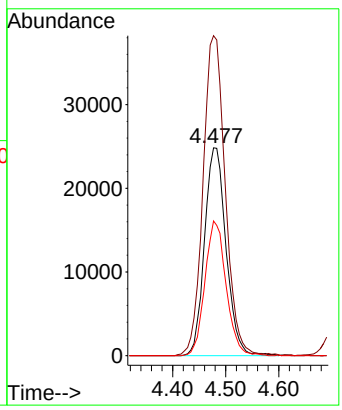




#27
cis-1,2-Dichloroethene
Concen: 49.223 ug/l
RT: 4.477 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion: 96 Resp: 7003

Ion	Ratio	Lower	Upper
96	100		
61	159.0	0.0	313.2
98	63.7	0.0	126.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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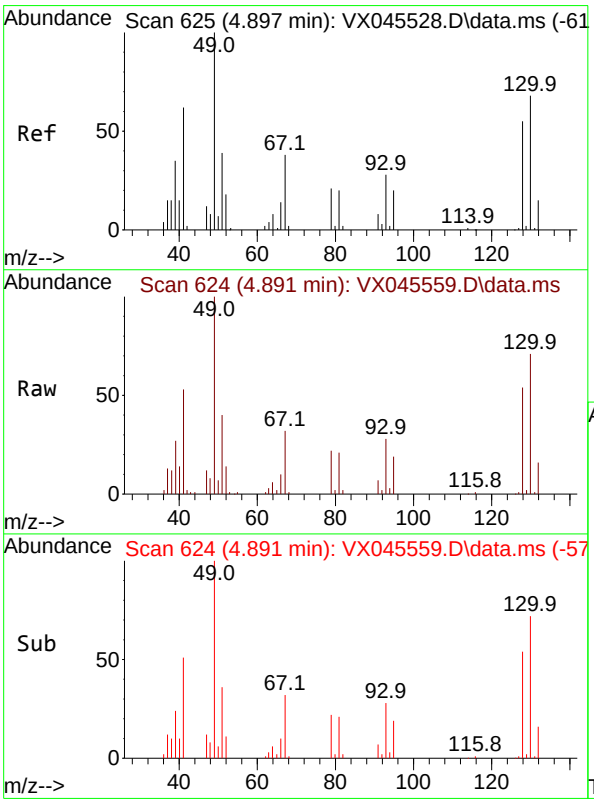
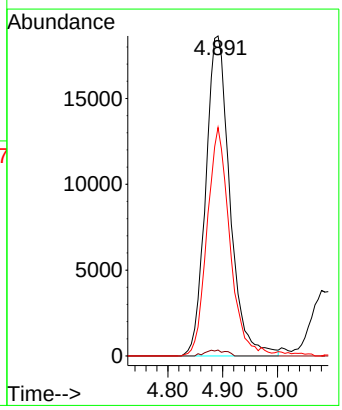
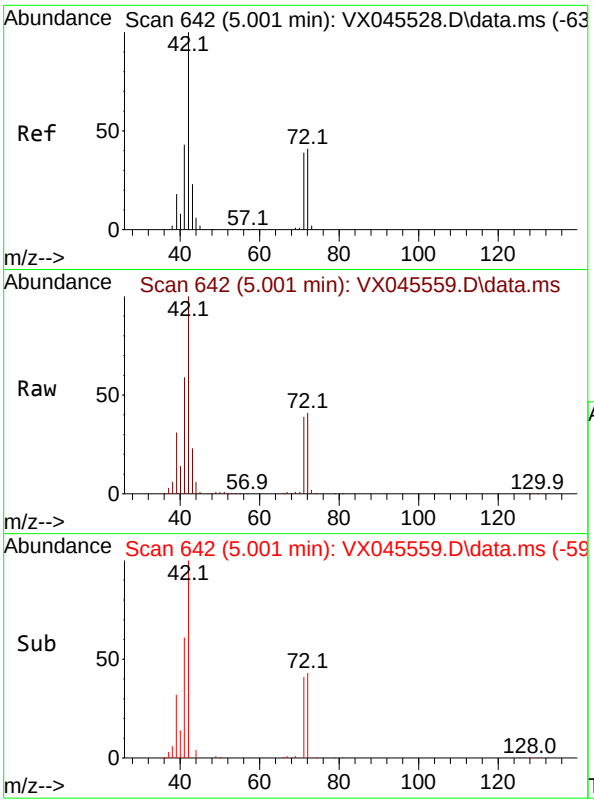


#28
Bromochloromethane
Concen: 48.775 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion: 49 Resp: 56952

Ion	Ratio	Lower	Upper
49	100		
129	1.6	0.0	3.8
130	67.4	54.6	81.8





#29
Tetrahydrofuran
Concen: 250.088 ug/l
RT: 5.001 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion: 42 Resp: 16970

Ion	Ratio	Lower	Upper
42	100		
72	41.8	33.4	50.0
71	38.6	31.4	47.0

Instrument :
MSVOA_X
ClientSampleId :
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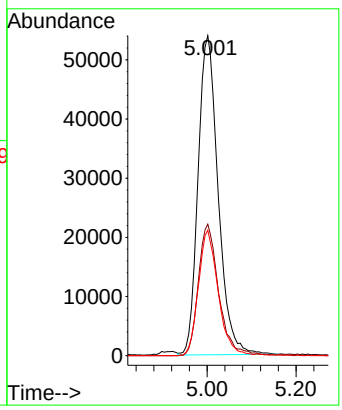
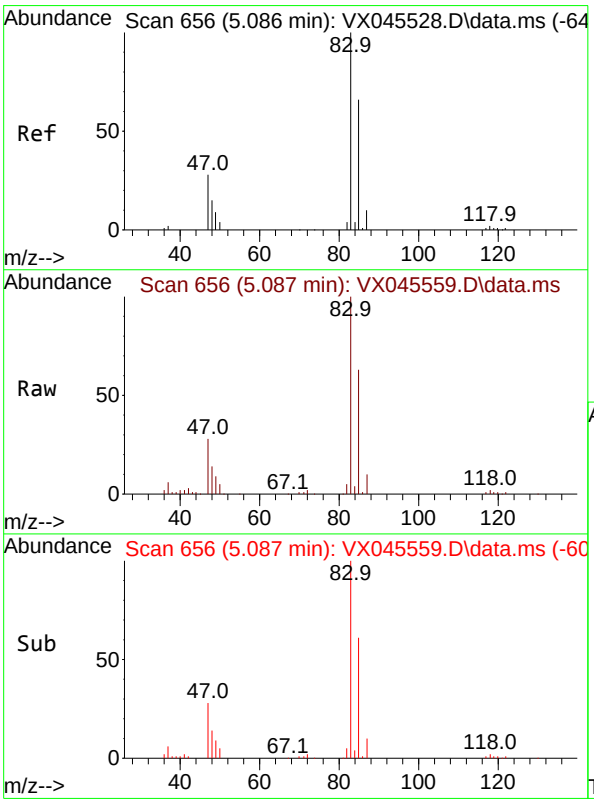
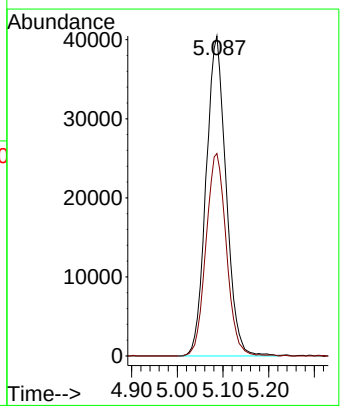


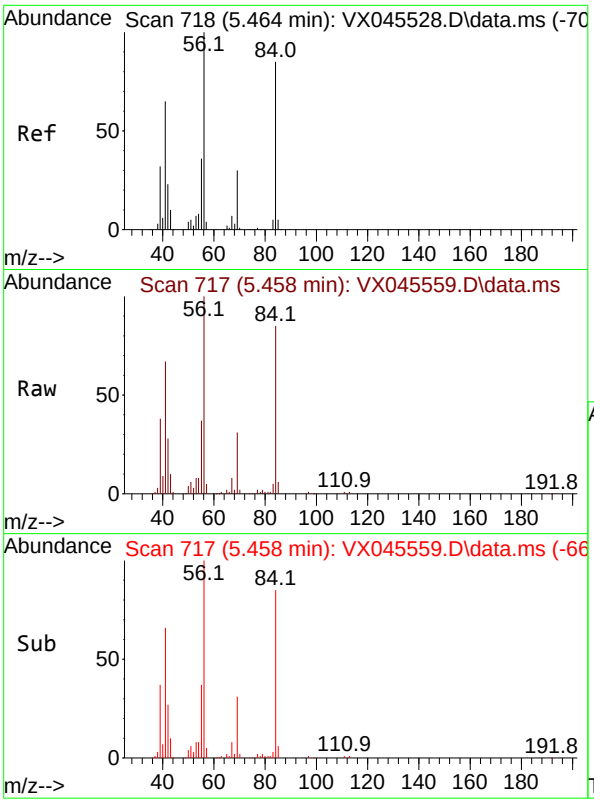


#30
Chloroform
Concen: 49.413 ug/l
RT: 5.087 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion: 83 Resp: 122855

Ion	Ratio	Lower	Upper
83	100		
85	63.3	52.8	79.2

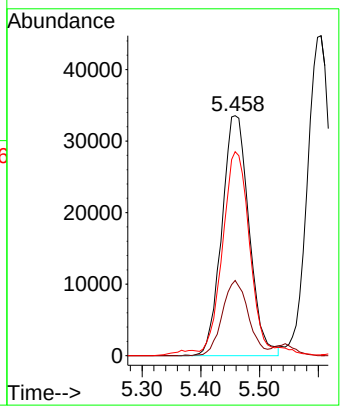




#31
Cyclohexane
Concen: 50.618 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion: 56 Resp: 10812

Ion	Ratio	Lower	Upper
56	100		
69	31.3	23.6	35.4
84	83.5	67.7	101.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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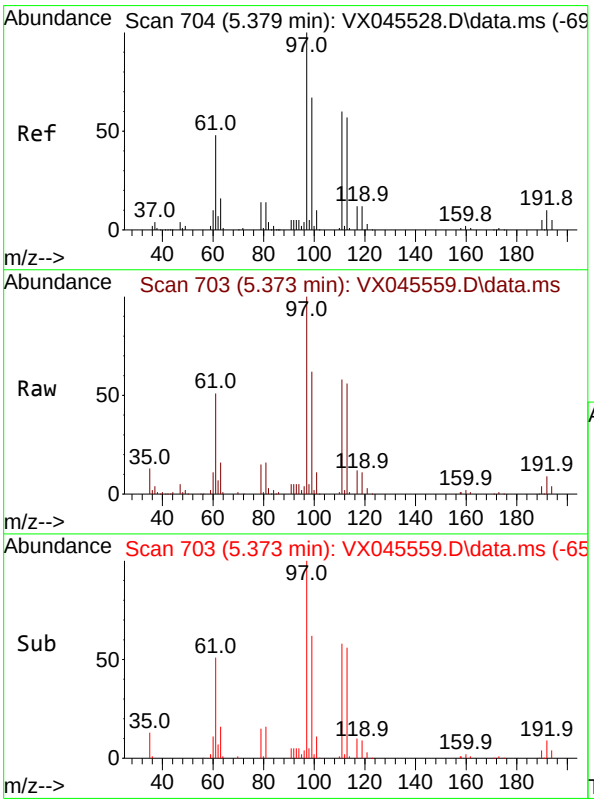
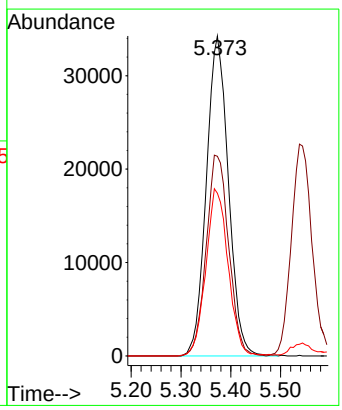
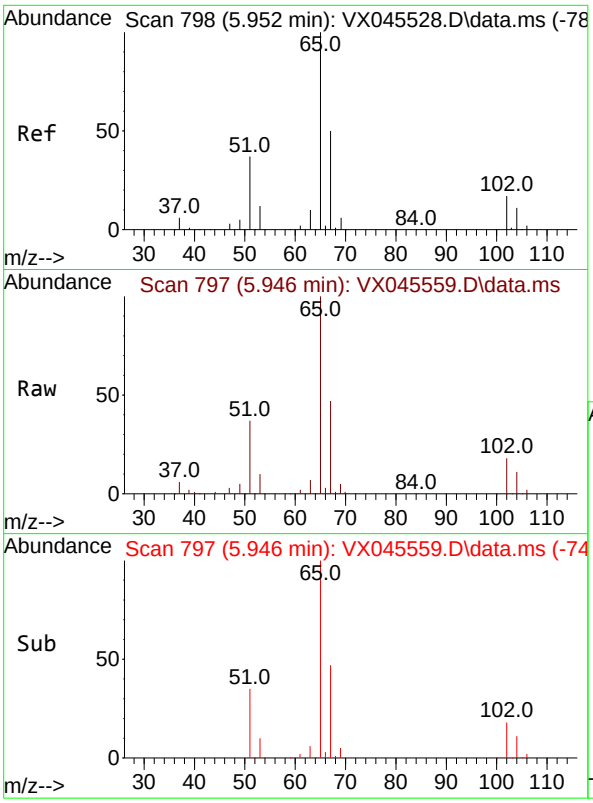


#32
1,1,1-Trichloroethane
Concen: 50.002 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.006 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion: 97 Resp: 105194

Ion	Ratio	Lower	Upper
97	100		
99	64.1	51.7	77.5
61	52.9	41.0	61.4

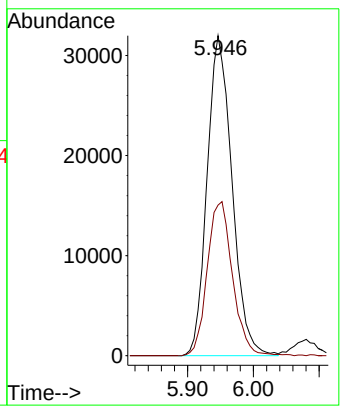




#33
1,2-Dichloroethane-d4
Concen: 48.452 ug/l
RT: 5.946 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion: 65 Resp: 8437

Ion	Ratio	Lower	Upper
65	100		
67	48.9	0.0	99.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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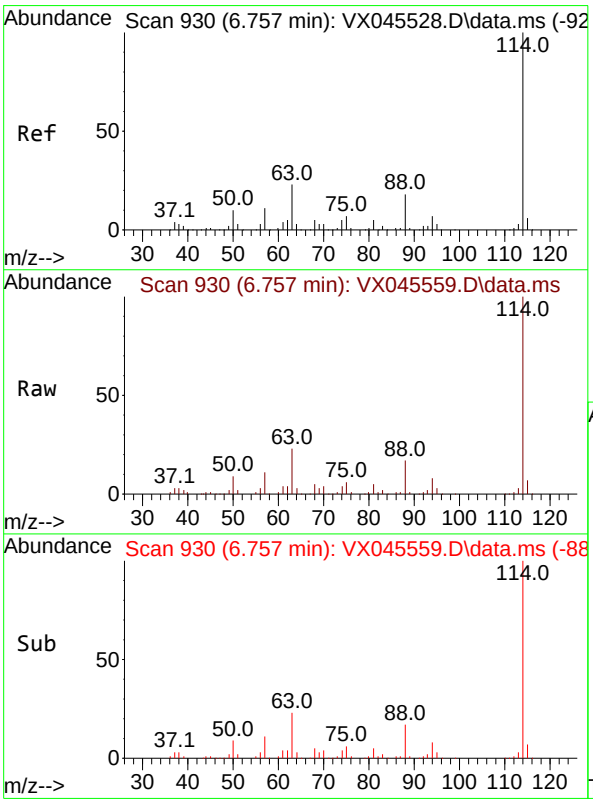
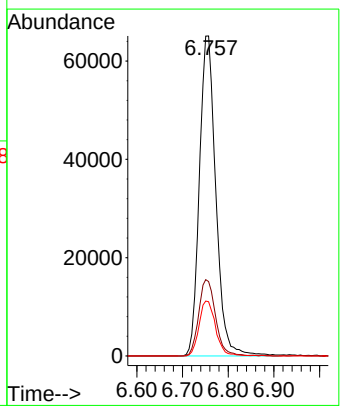
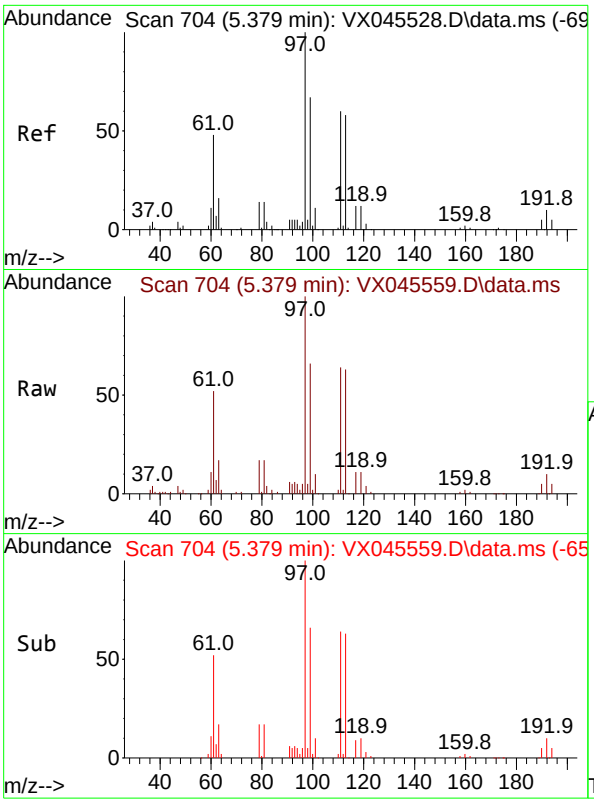


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion:114 Resp: 162684

Ion	Ratio	Lower	Upper
114	100		
63	23.3	0.0	46.8
88	17.0	0.0	35.4

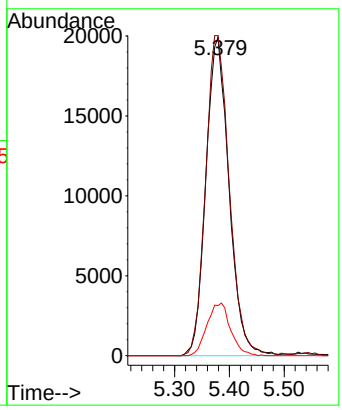




#35
Dibromofluoromethane
Concen: 50.400 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion:113 Resp: 5817

Ion	Ratio	Lower	Upper
113	100		
111	103.1	81.8	122.6
192	16.8	13.8	20.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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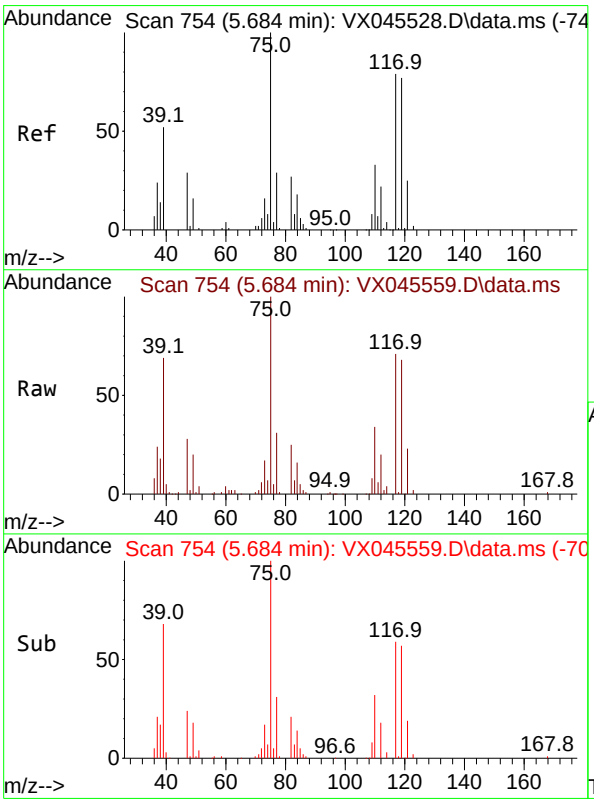
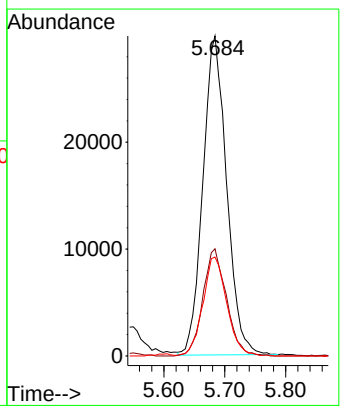
Reviewed By :Semsettin Yesilyurt 04/04/2025
Supervised By :Mahesh Dadoda 04/04/2025

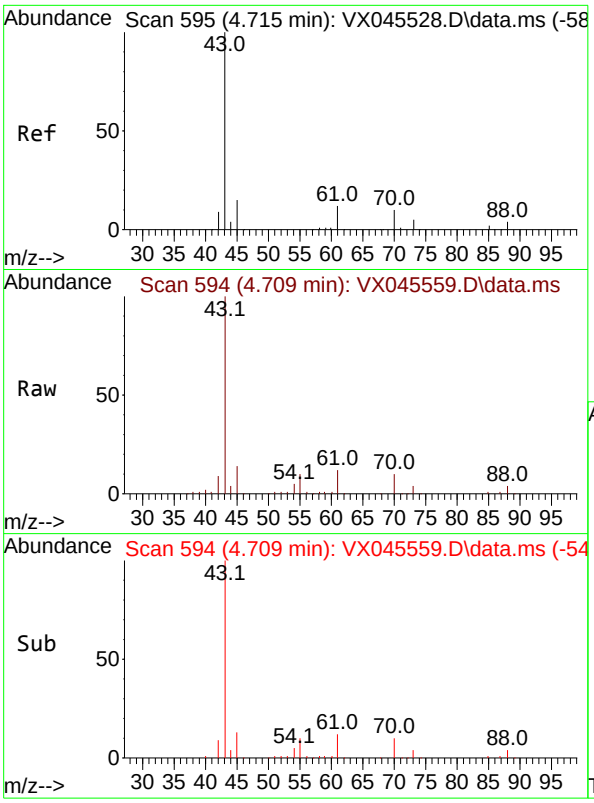


#36
1,1-Dichloropropene
Concen: 51.889 ug/l
RT: 5.684 min Scan# 754
Delta R.T. 0.000 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion: 75 Resp: 80867

Ion	Ratio	Lower	Upper
75	100		
110	33.3	16.9	50.6
77	31.4	25.0	37.4

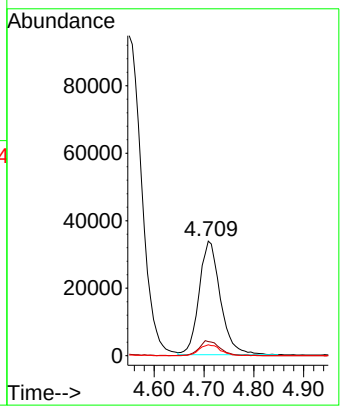




#37
Ethyl Acetate
Concen: 50.922 ug/l
RT: 4.709 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion: 43 Resp: 10001

Ion	Ratio	Lower	Upper
43	100		
61	12.8	9.9	14.9
70	9.6	7.5	11.3



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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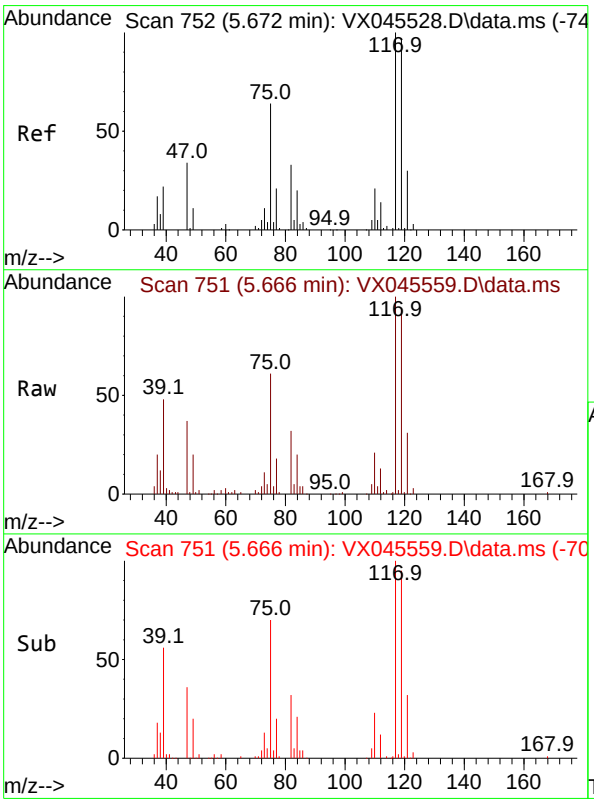
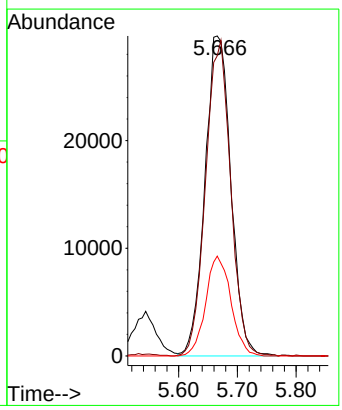
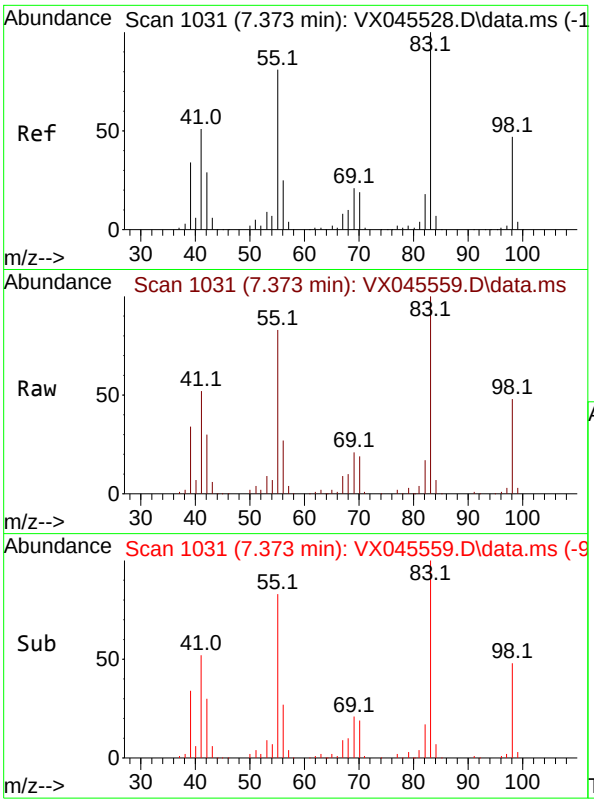


#38
Carbon Tetrachloride
Concen: 54.175 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion:117 Resp: 91247

Ion	Ratio	Lower	Upper
117	100		
119	93.8	76.9	115.3
121	31.2	24.2	36.2





#39
Methylcyclohexane
Concen: 55.811 ug/l
RT: 7.373 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion: 83 Resp: 10662

Ion	Ratio	Lower	Upper
83	100		
55	82.7	64.9	97.3
98	48.4	37.4	56.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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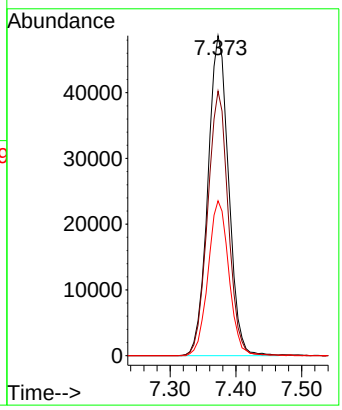
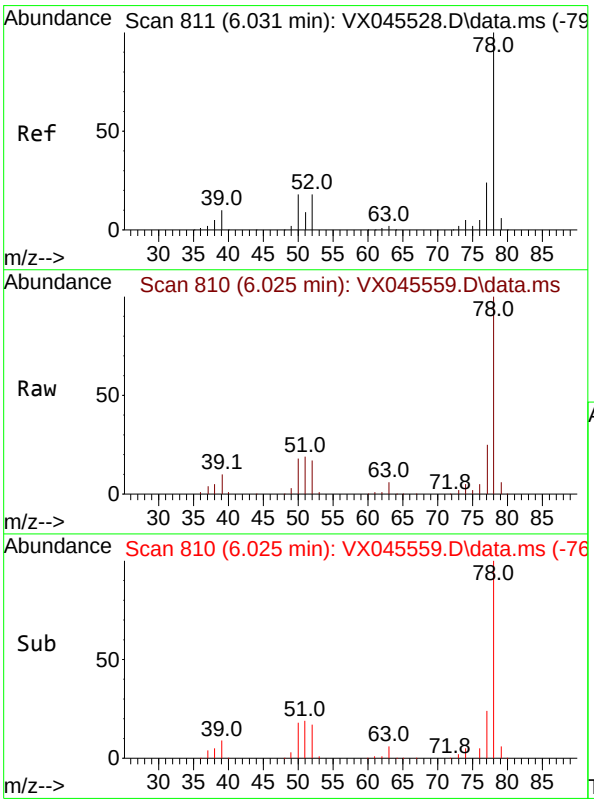
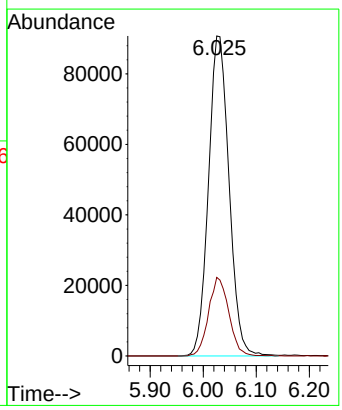


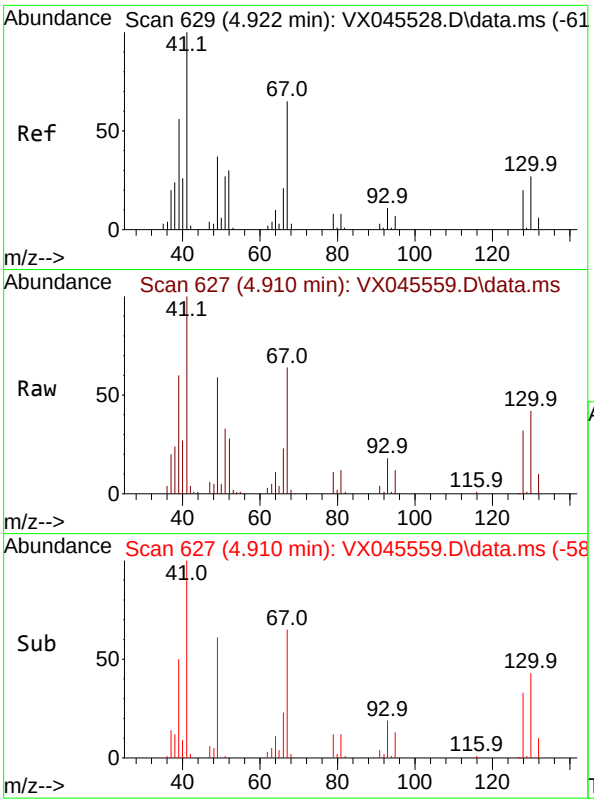


#40
Benzene
Concen: 51.334 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.006 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion: 78 Resp: 244336

Ion	Ratio	Lower	Upper
78	100		
77	24.5	19.0	28.6

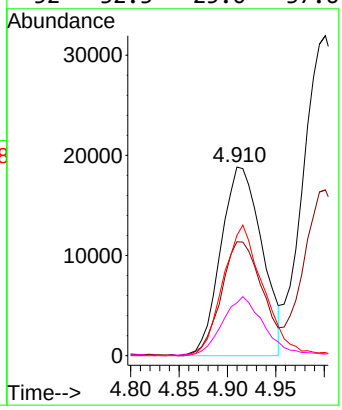




#41
Methacrylonitrile
Concen: 53.895 ug/l
RT: 4.910 min Scan# 6
Delta R.T. -0.012 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion: 41 Resp: 5584

Ion	Ratio	Lower	Upper
41	100		
39	60.0	47.0	70.6
67	68.2	53.2	79.8
52	32.3	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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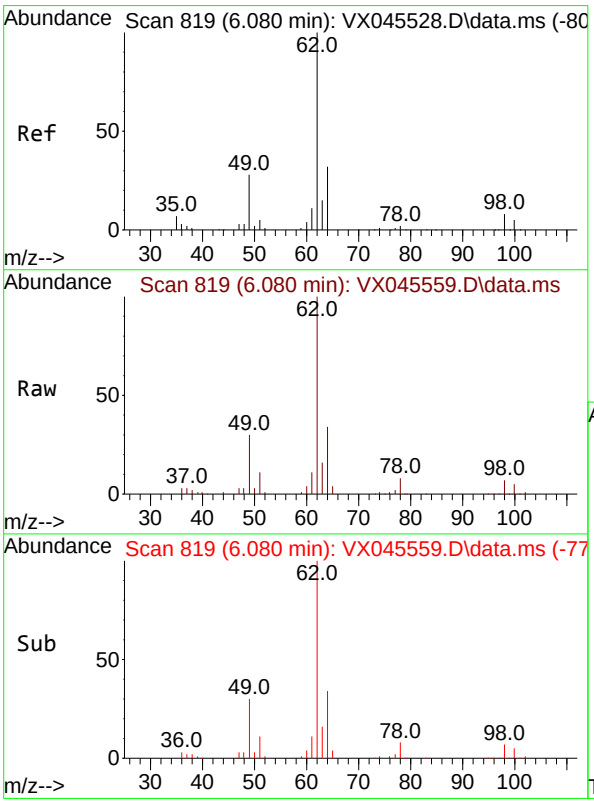
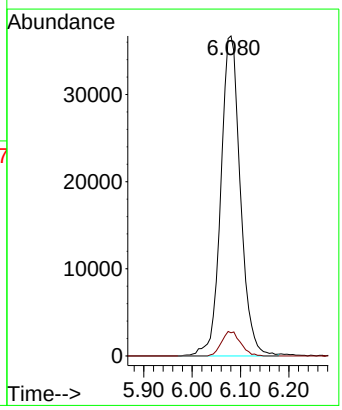
Supervised By :Mahesh Dadoda 04/04/2025

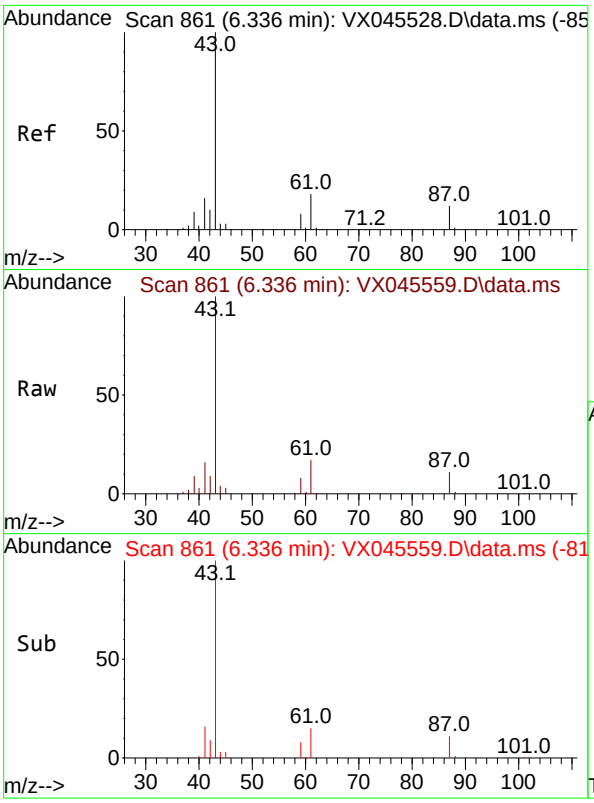


#42
1,2-Dichloroethane
Concen: 52.471 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.000 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion: 62 Resp: 103151

Ion	Ratio	Lower	Upper
62	100		
98	7.4	0.0	15.2

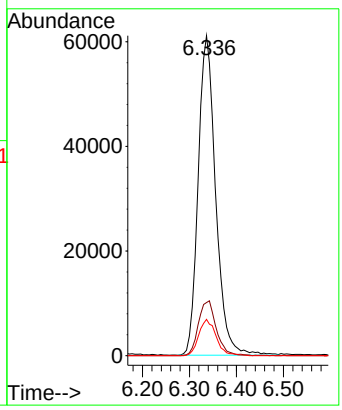




#43
Isopropyl Acetate
Concen: 53.203 ug/l
RT: 6.336 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion: 43 Resp: 15836

Ion	Ratio	Lower	Upper
43	100		
61	17.5	14.1	21.1
87	11.2	9.2	13.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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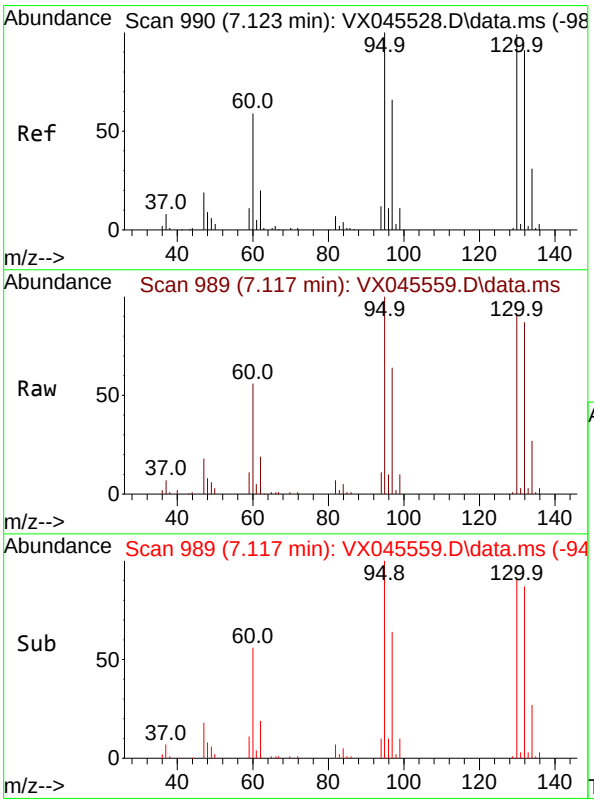
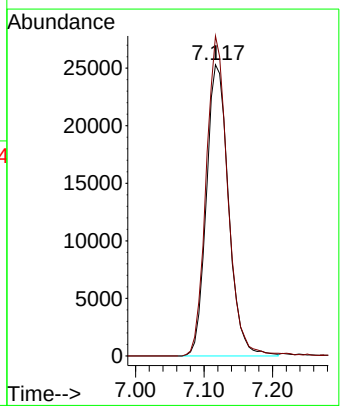
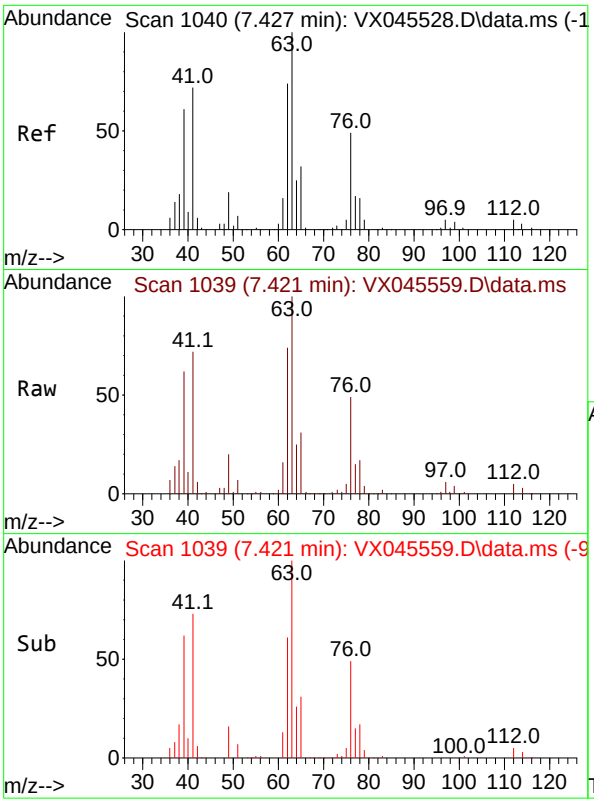


#44
Trichloroethene
Concen: 50.400 ug/l
RT: 7.117 min Scan# 989
Delta R.T. -0.006 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion:130 Resp: 57018

Ion	Ratio	Lower	Upper
130	100		
95	109.9	0.0	202.0

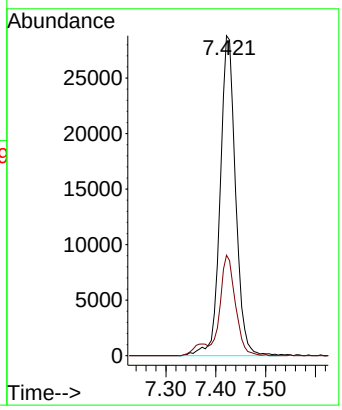




#45
1,2-Dichloropropane
Concen: 52.177 ug/l
RT: 7.421 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion: 63 Resp: 6196

Ion	Ratio	Lower	Upper
63	100		
65	31.4	25.8	38.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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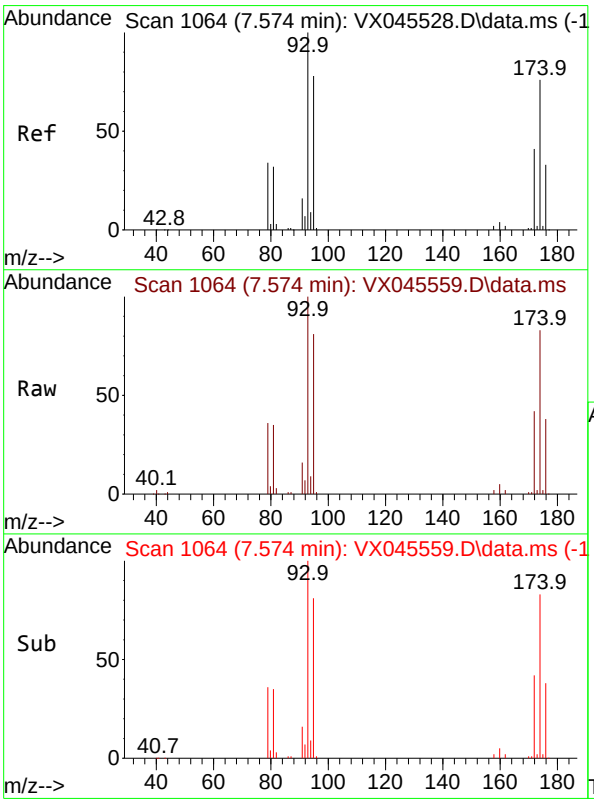
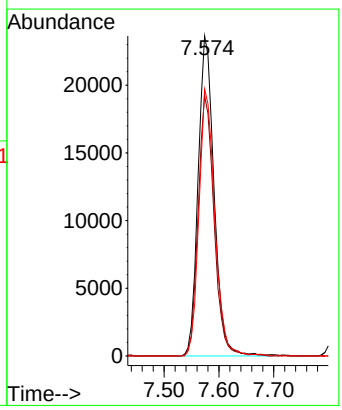
Supervised By :Mahesh Dadoda 04/04/2025

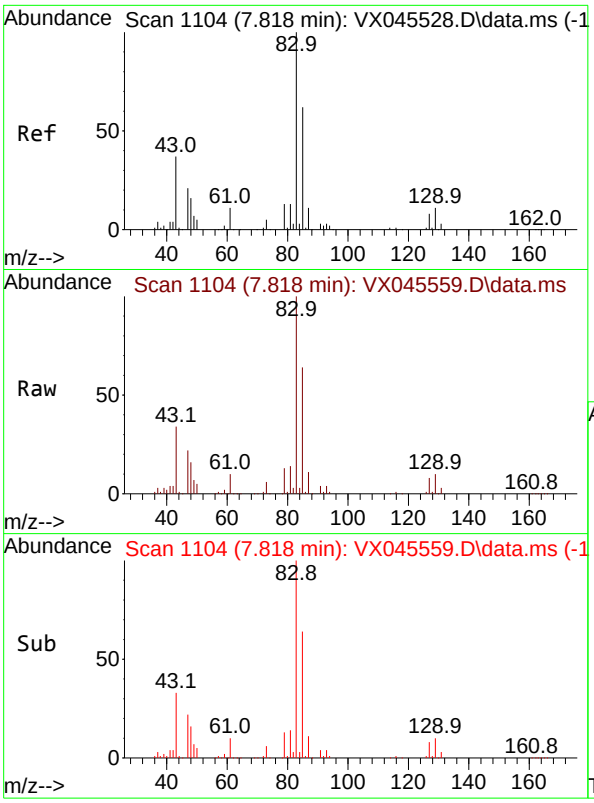


#46
Dibromomethane
Concen: 52.432 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. 0.000 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion: 93 Resp: 47799

Ion	Ratio	Lower	Upper
93	100		
95	81.2	64.8	97.2
174	82.5	65.4	98.0

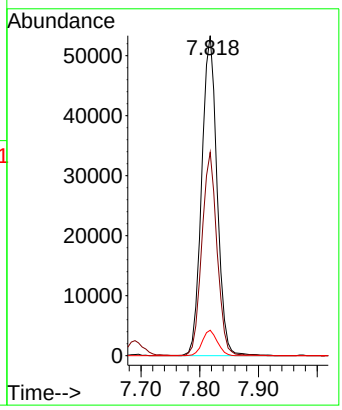




#47
Bromodichloromethane
Concen: 53.281 ug/l
RT: 7.818 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion: 83 Resp: 9700

Ion	Ratio	Lower	Upper
83	100		
85	63.5	49.7	74.5
127	8.0	6.1	9.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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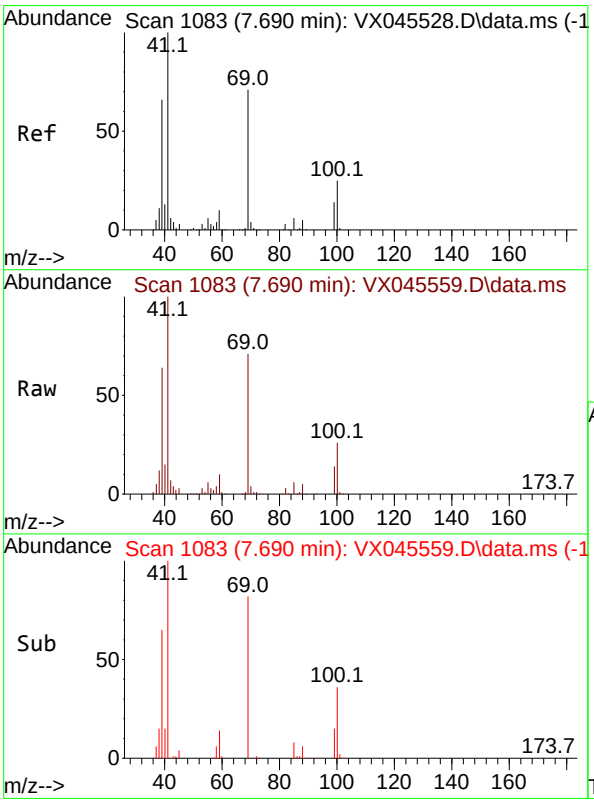
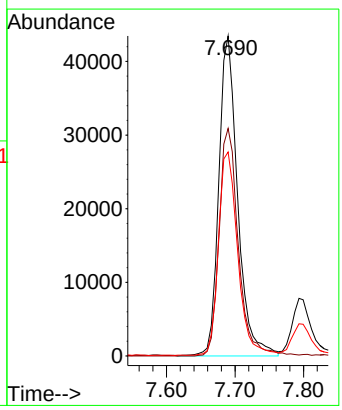
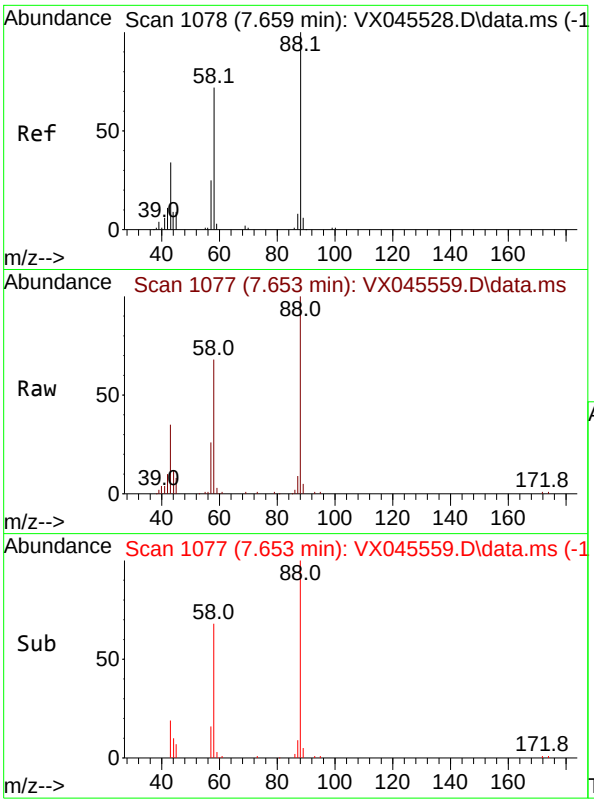


#48
Methyl methacrylate
Concen: 53.916 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. 0.000 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion: 41 Resp: 82864

Ion	Ratio	Lower	Upper
41	100		
69	72.4	58.2	87.2
39	64.9	53.6	80.4





#49
1,4-Dioxane
Concen: 1069.810 ug/l
RT: 7.653 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion: 88 Resp: 2974

Ion	Ratio	Lower	Upper
88	100		
43	41.7	32.2	48.4
58	74.7	58.6	88.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 04/04/2025
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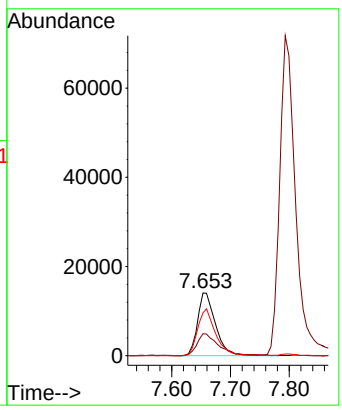
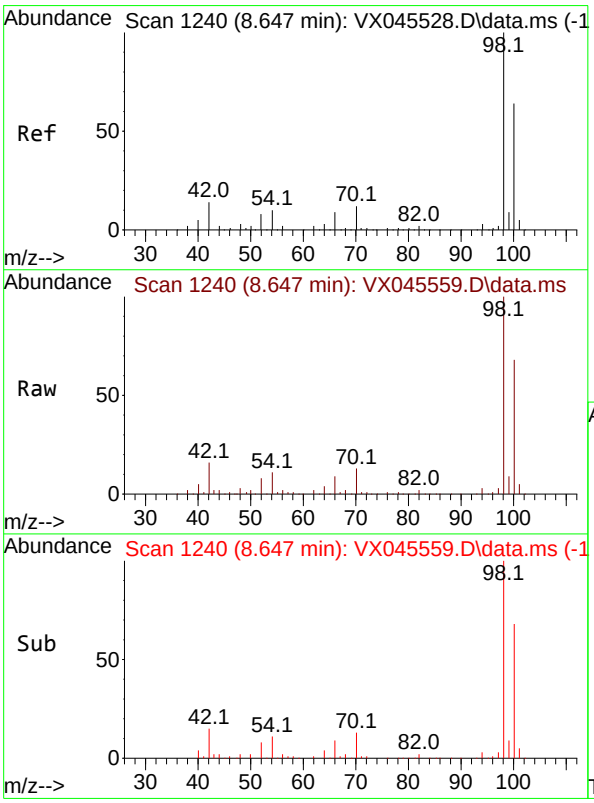
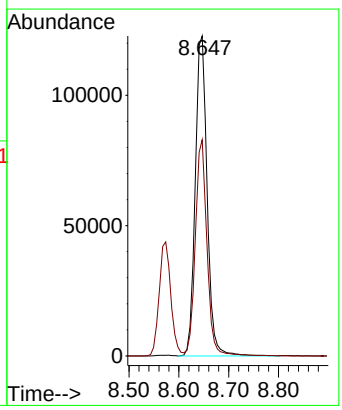


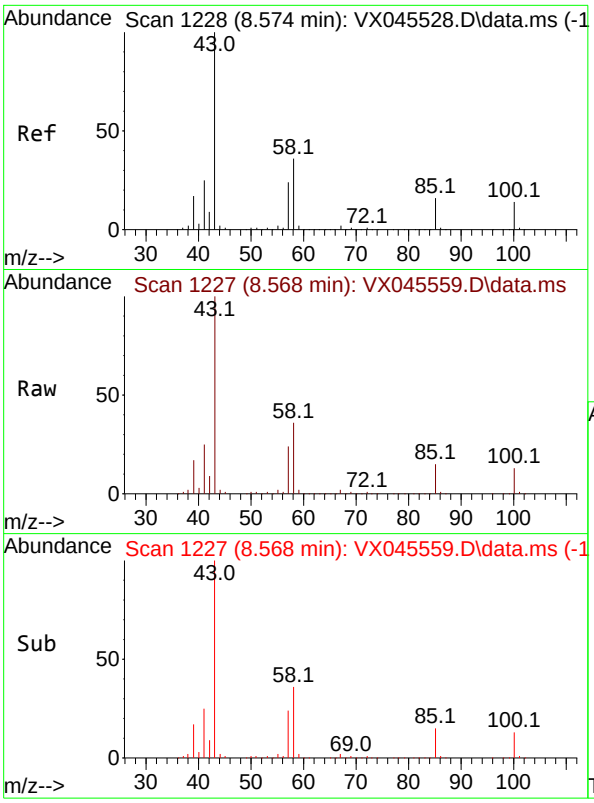


#50
Toluene-d8
Concen: 50.412 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion: 98 Resp: 203099

Ion	Ratio	Lower	Upper
98	100		
100	66.4	52.2	78.4

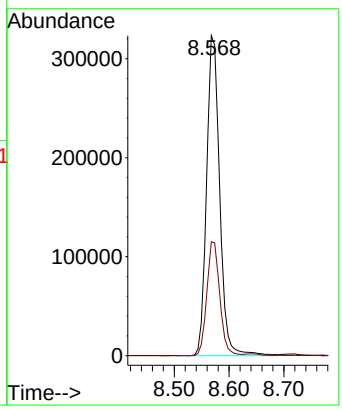




#51
4-Methyl-2-Pentanone
Concen: 271.376 ug/l
RT: 8.568 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion: 43 Resp: 53550

Ion	Ratio	Lower	Upper
43	100		
58	35.2	28.5	42.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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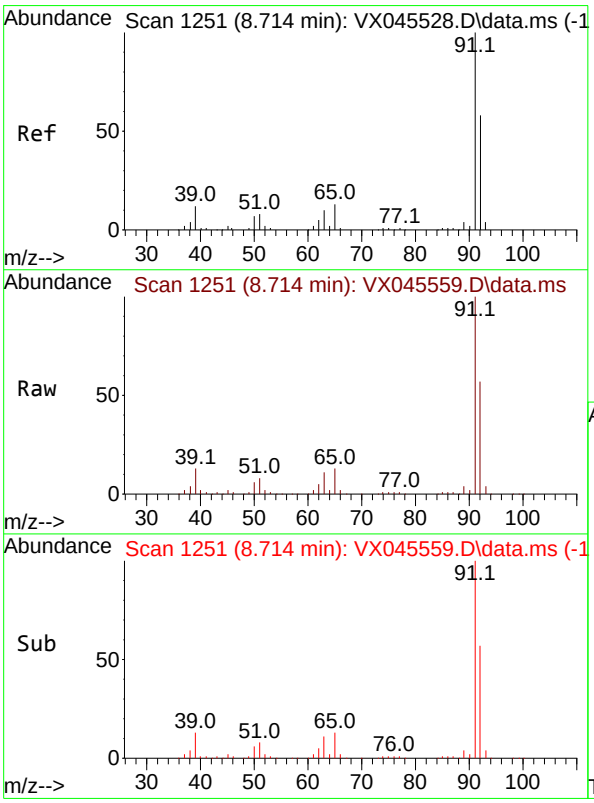
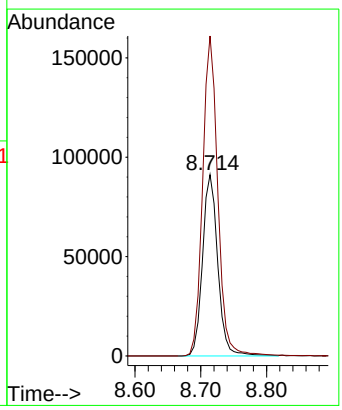
Supervised By :Mahesh Dadoda 04/04/2025

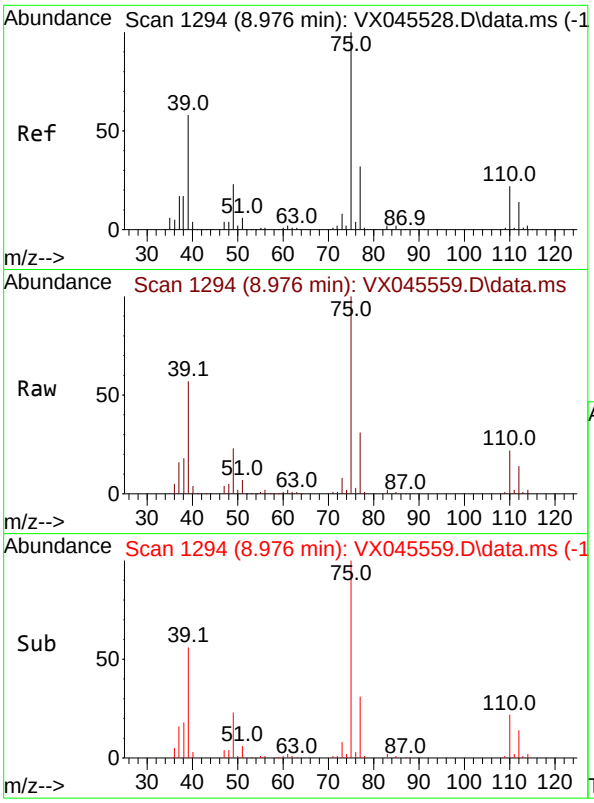


#52
Toluene
Concen: 51.038 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion: 92 Resp: 146995

Ion	Ratio	Lower	Upper
92	100		
91	176.0	138.7	208.1

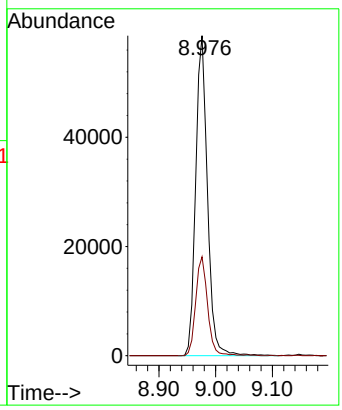




#53
t-1,3-Dichloropropene
Concen: 48.265 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion: 75 Resp: 8435

Ion	Ratio	Lower	Upper
75	100		
77	30.9	25.4	38.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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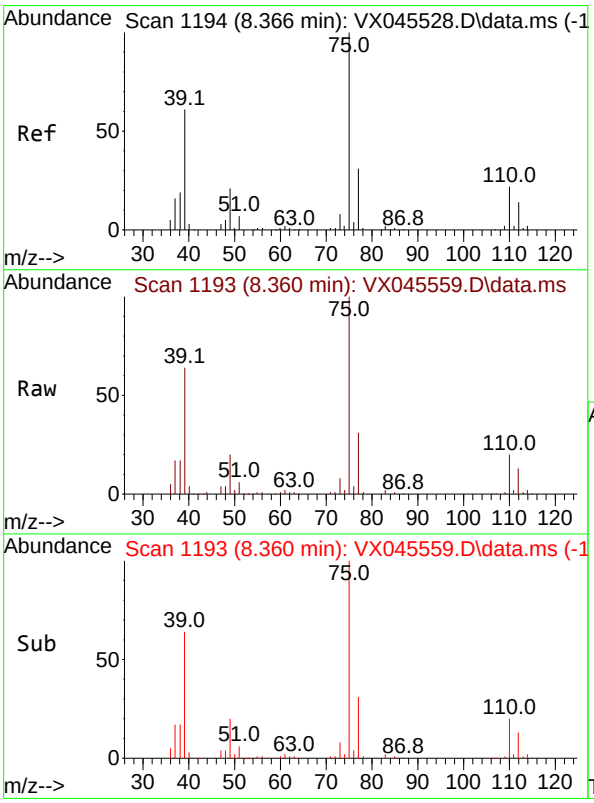
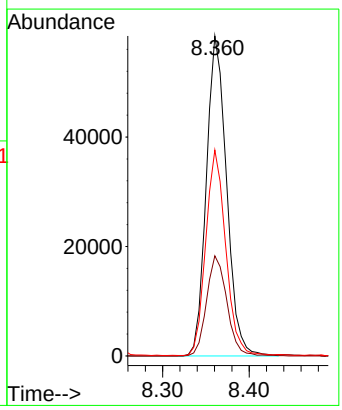
Reviewed By :Semsettin Yesilyurt 04/04/2025
Supervised By :Mahesh Dadoda 04/04/2025

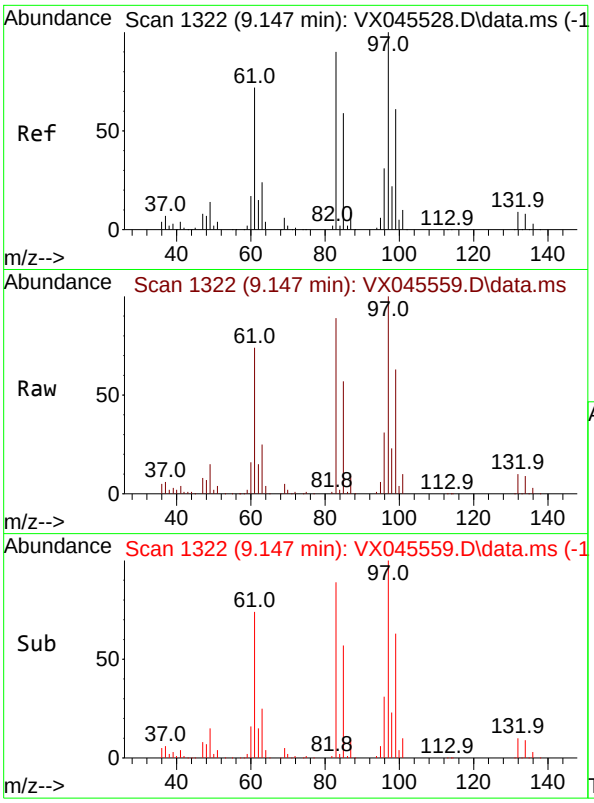


#54
cis-1,3-Dichloropropene
Concen: 55.553 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. -0.006 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion: 75 Resp: 95044

Ion	Ratio	Lower	Upper
75	100		
77	31.3	24.6	36.8
39	64.2	48.4	72.6

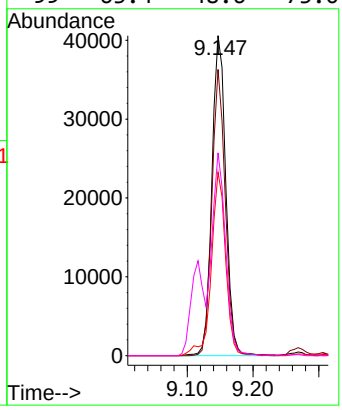




#55
1,1,2-Trichloroethane
Concen: 51.988 ug/l
RT: 9.147 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion: 97 Resp: 5966

Ion	Ratio	Lower	Upper
97	100		
83	89.5	71.8	107.8
85	57.3	47.0	70.6
99	63.4	48.6	73.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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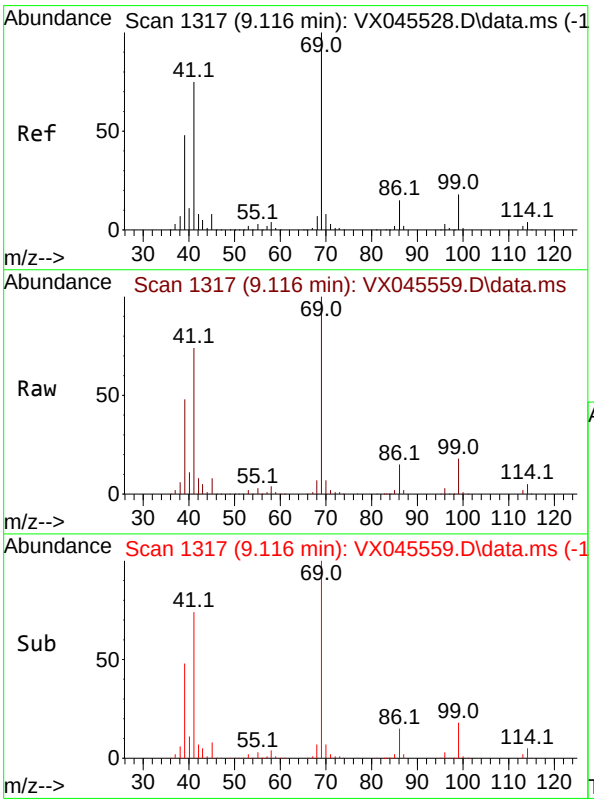
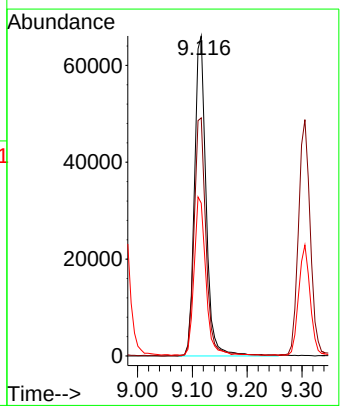
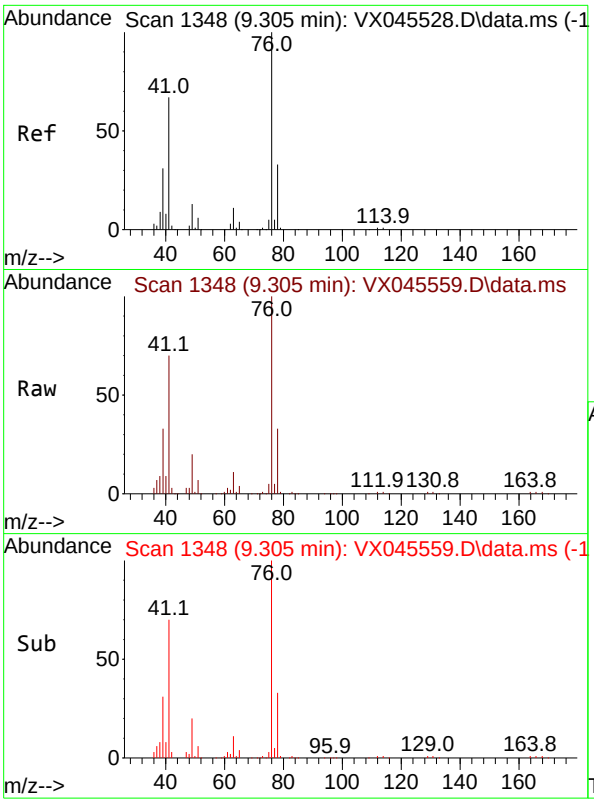


#56
Ethyl methacrylate
Concen: 54.916 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion: 69 Resp: 97540

Ion	Ratio	Lower	Upper
69	100		
41	76.6	61.3	91.9
39	50.3	40.2	60.2

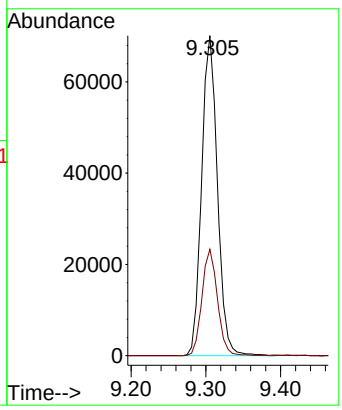




#57
1,3-Dichloropropane
Concen: 51.465 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion: 76 Resp: 10285

Ion	Ratio	Lower	Upper
76	100		
78	32.7	26.0	39.0



Instrument :
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ClientSampleId :
VSTDCCC050

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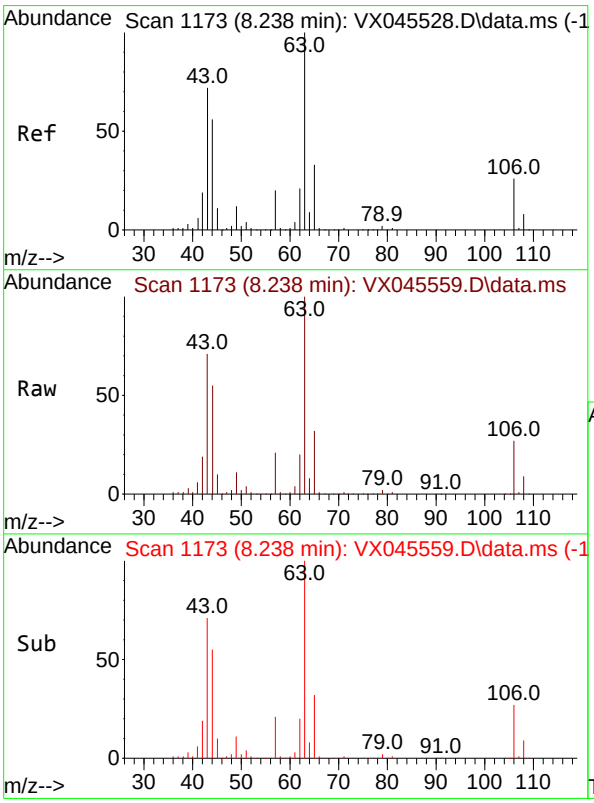
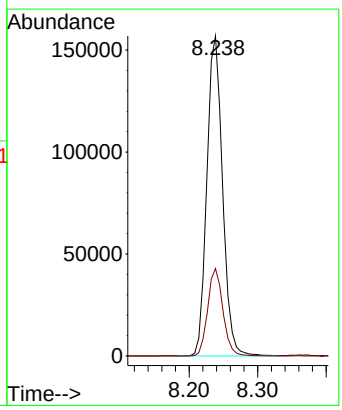
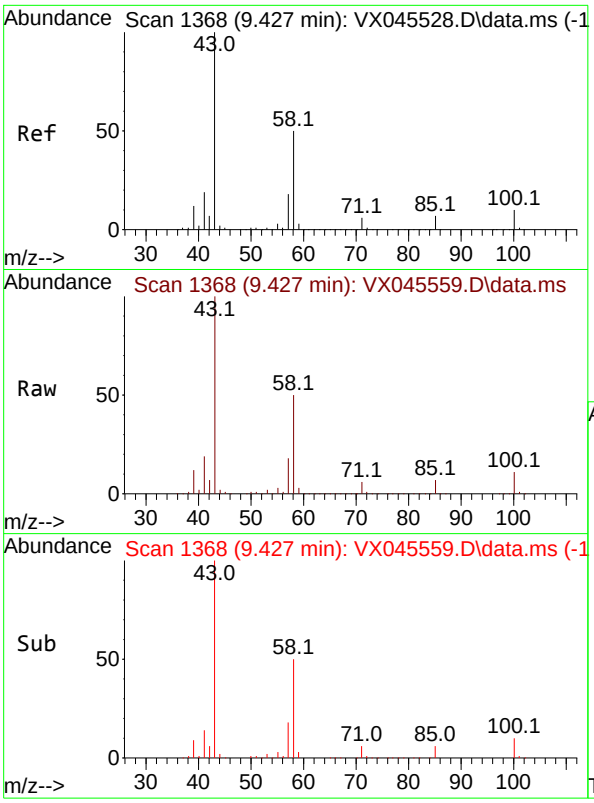


#58
2-Chloroethyl Vinyl ether
Concen: 278.463 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion: 63 Resp: 250203

Ion	Ratio	Lower	Upper
63	100		
106	26.5	21.0	31.6





#59
2-Hexanone
Concen: 266.003 ug/l
RT: 9.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion: 43 Resp: 38870

Ion	Ratio	Lower	Upper
43	100		
58	49.6	24.9	74.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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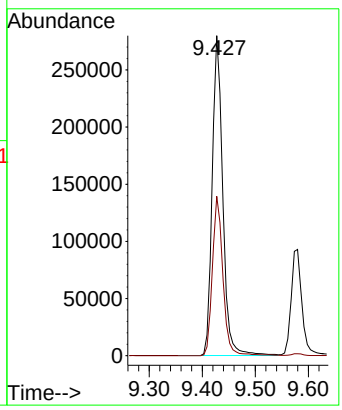
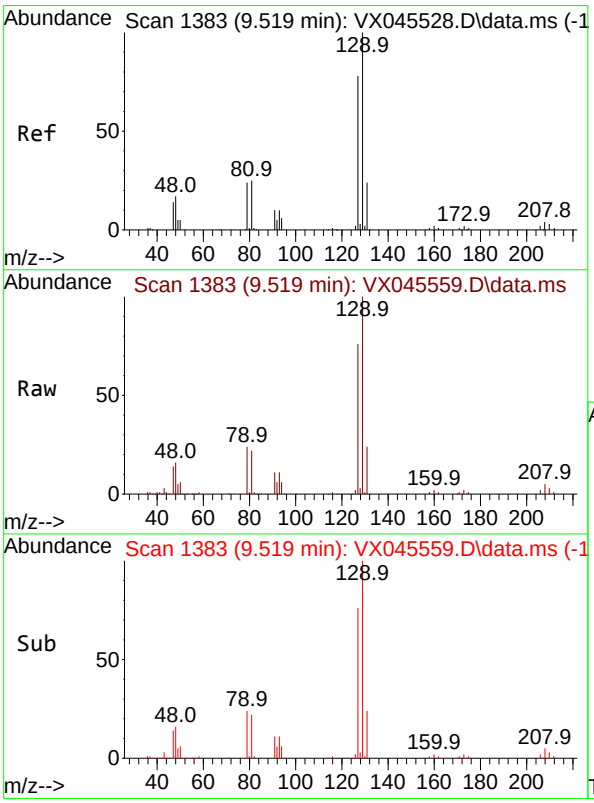
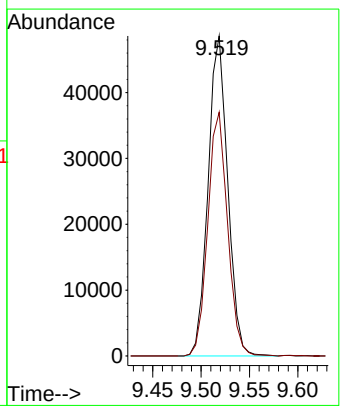


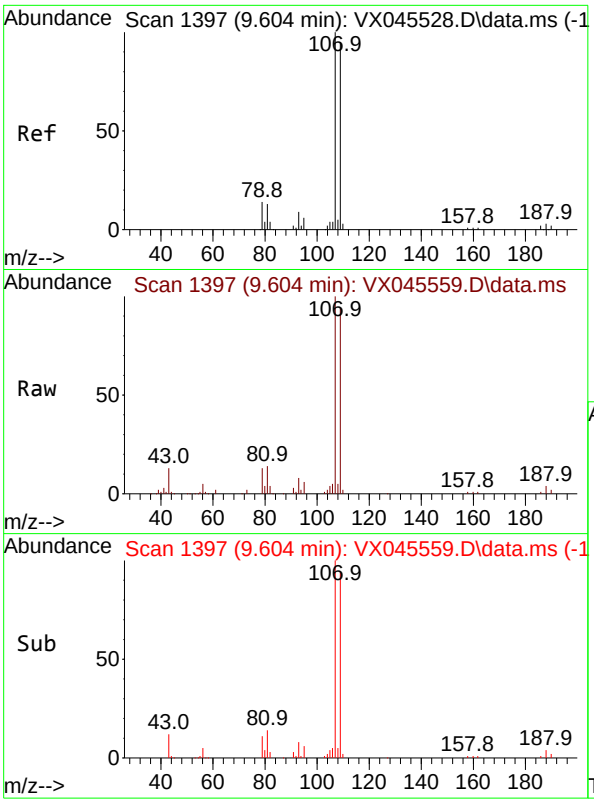


#60
Dibromochloromethane
Concen: 54.791 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion:129 Resp: 68554

Ion	Ratio	Lower	Upper
129	100		
127	76.9	39.4	118.2

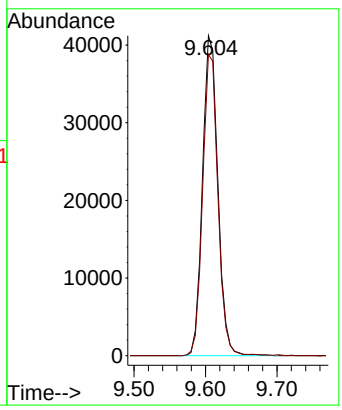




#61
1,2-Dibromoethane
Concen: 52.982 ug/l
RT: 9.604 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion:107 Resp: 6155

Ion	Ratio	Lower	Upper
107	100		
109	93.6	75.7	113.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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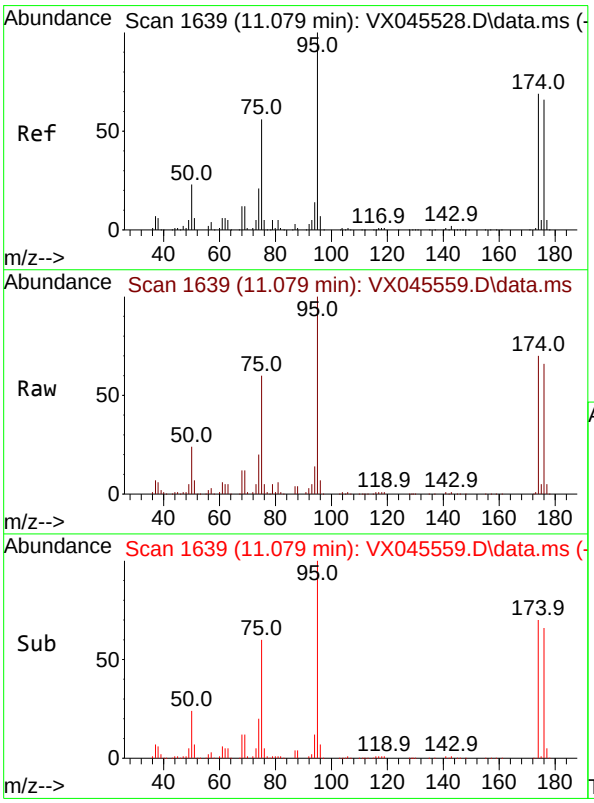
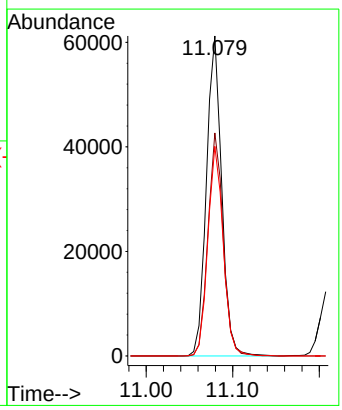
Supervised By :Mahesh Dadoda 04/04/2025

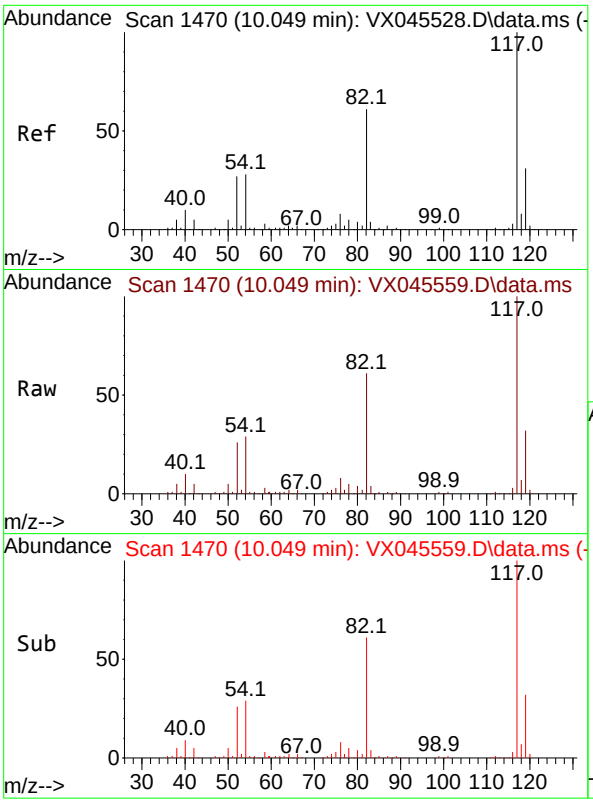


#62
4-Bromofluorobenzene
Concen: 51.040 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion: 95 Resp: 74900

Ion	Ratio	Lower	Upper
95	100		
174	69.5	0.0	135.8
176	66.0	0.0	131.4

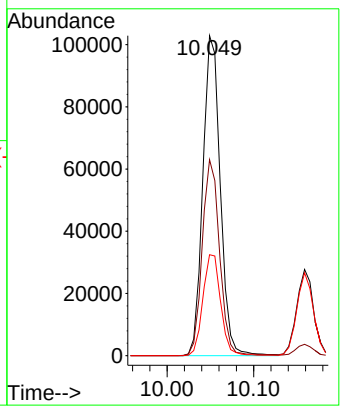




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion:117 Resp: 14378

Ion	Ratio	Lower	Upper
117	100		
82	61.3	49.2	73.8
119	31.5	25.1	37.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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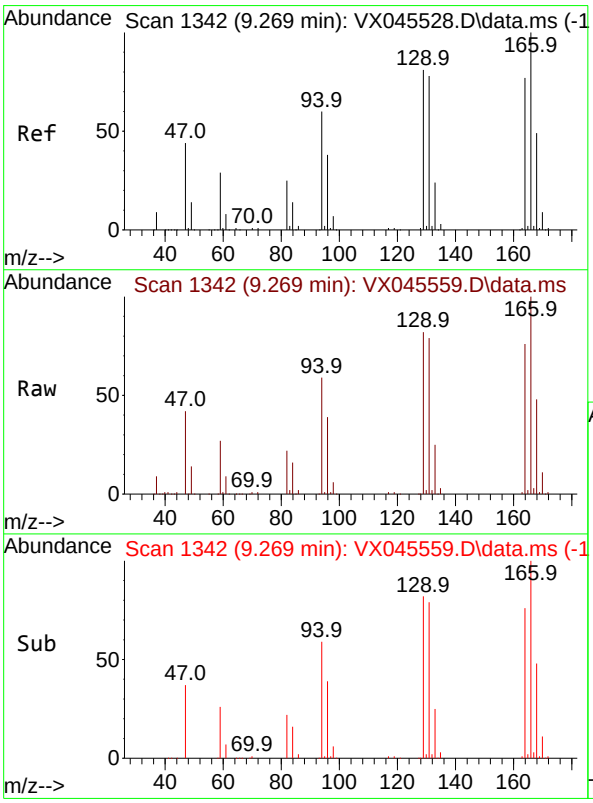
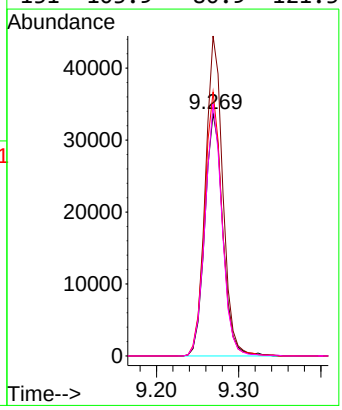
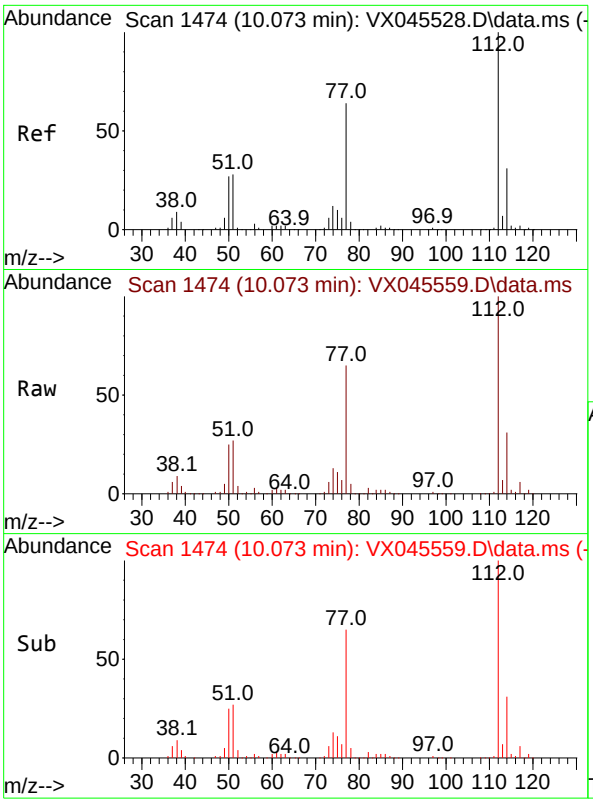


#64
Tetrachloroethene
Concen: 50.202 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion:164 Resp: 50963

Ion	Ratio	Lower	Upper
164	100		
166	132.0	103.8	155.8
129	108.8	84.3	126.5
131	103.9	80.9	121.3

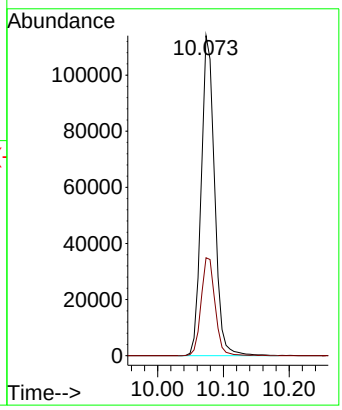




#65
Chlorobenzene
Concen: 52.511 ug/l
RT: 10.073 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion:112 Resp: 16133

Ion	Ratio	Lower	Upper
112	100		
114	30.6	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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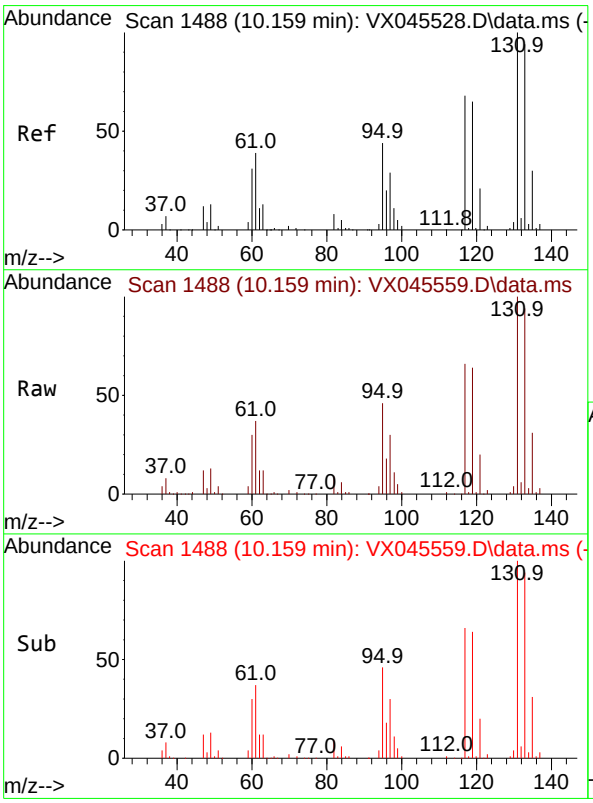
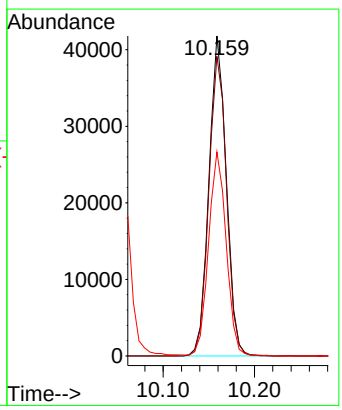
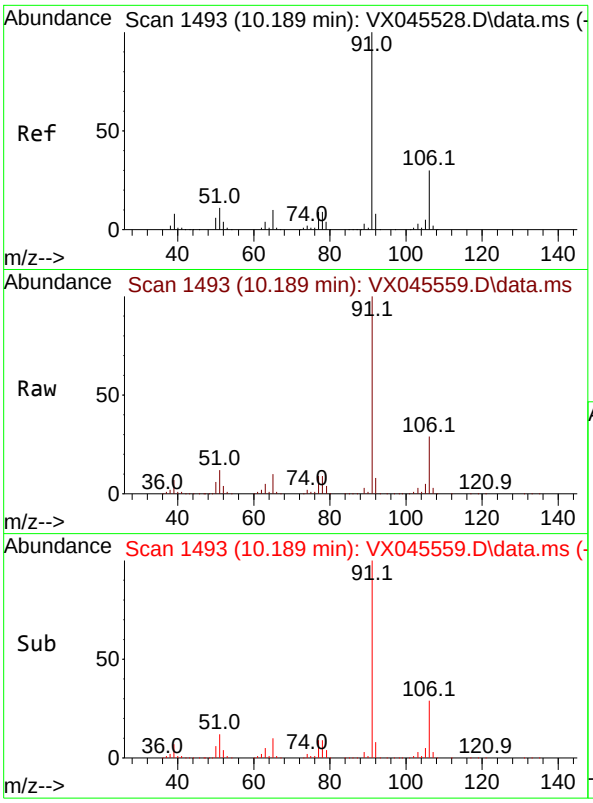


#66
1,1,1,2-Tetrachloroethane
Concen: 51.757 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion:131 Resp: 55208

Ion	Ratio	Lower	Upper
131	100		
133	95.3	47.5	142.5
119	64.8	32.9	98.6





#67
Ethyl Benzene
Concen: 53.122 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion: 91 Resp: 29231

Ion	Ratio	Lower	Upper
91	100		
106	29.4	23.7	35.5

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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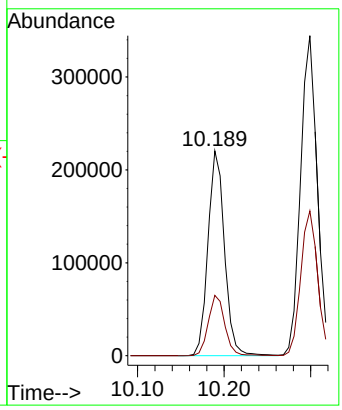
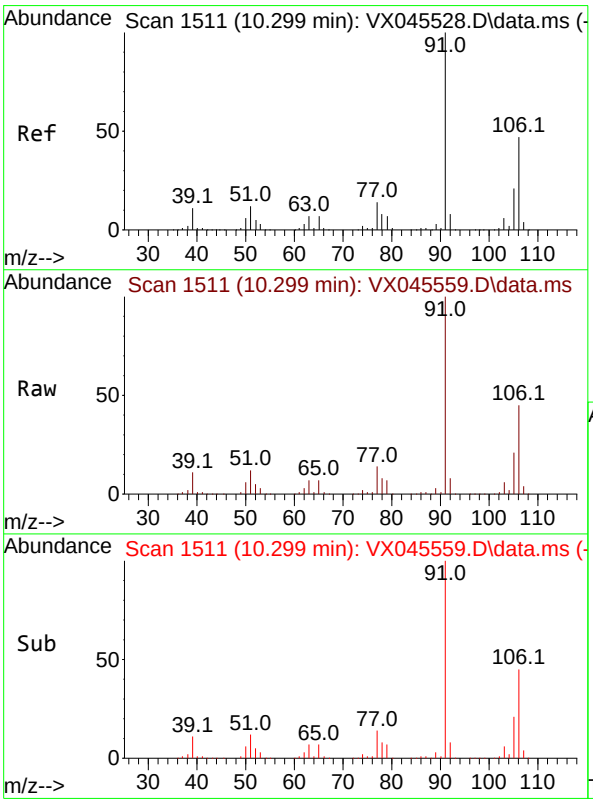
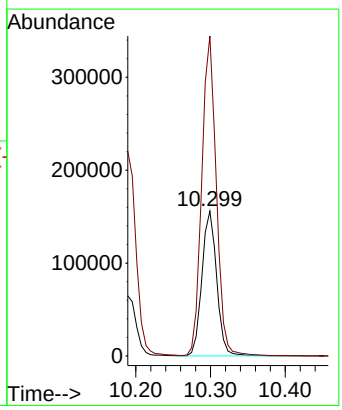


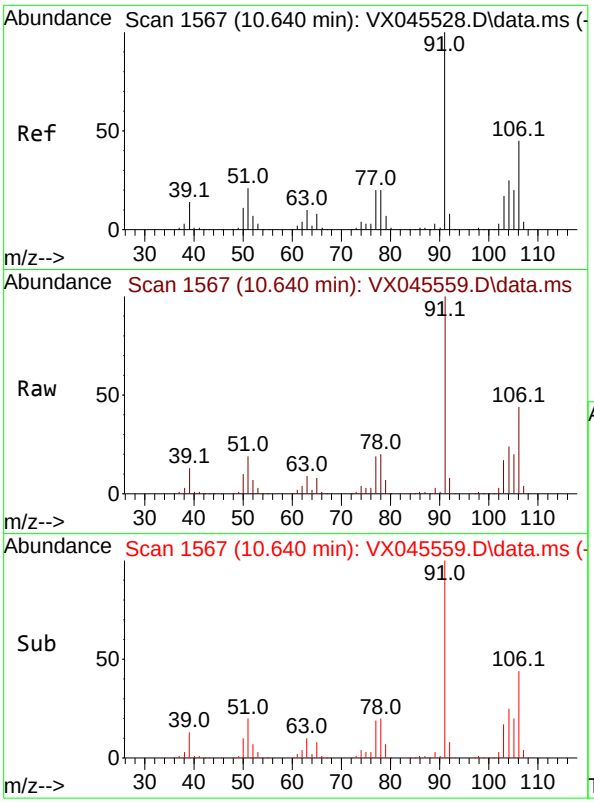


#68
m/p-Xylenes
Concen: 106.687 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion:106 Resp: 213521

Ion	Ratio	Lower	Upper
106	100		
91	218.5	172.6	258.8

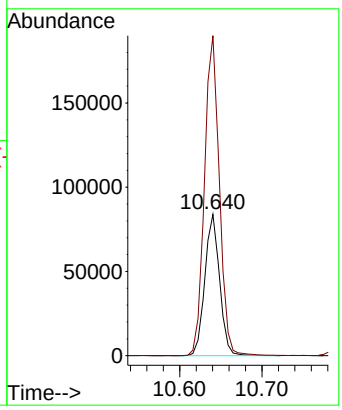




#69
o-Xylene
Concen: 53.092 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion:106 Resp: 10467

Ion	Ratio	Lower	Upper
106	100		
91	228.9	113.6	340.6



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

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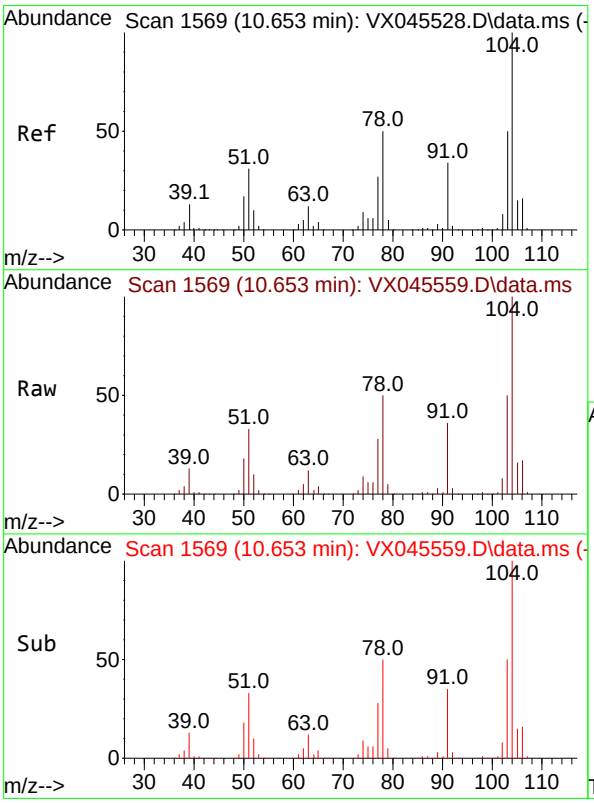
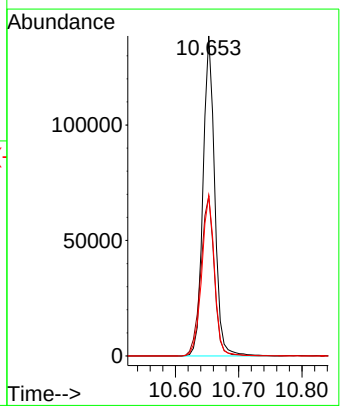
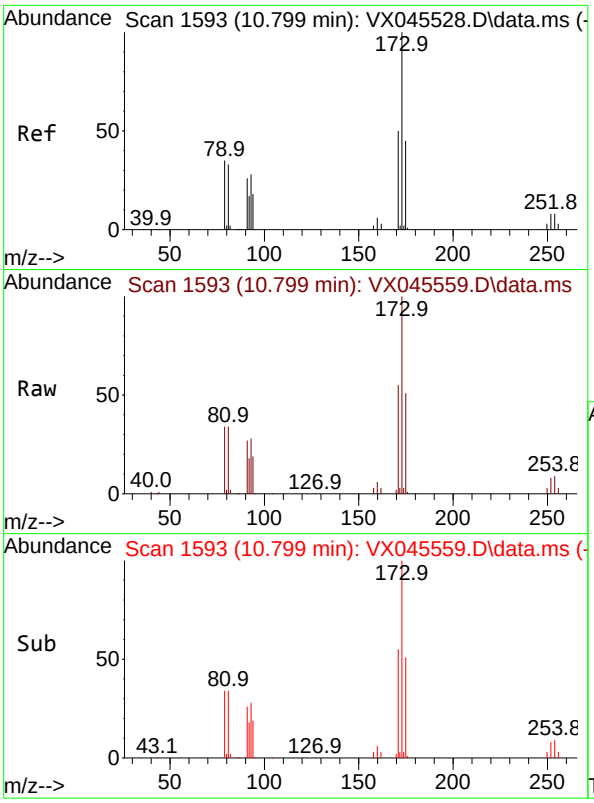


#70
Styrene
Concen: 54.847 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion:104 Resp: 178474

Ion	Ratio	Lower	Upper
104	100		
78	57.4	45.4	68.2
103	54.8	43.8	65.8

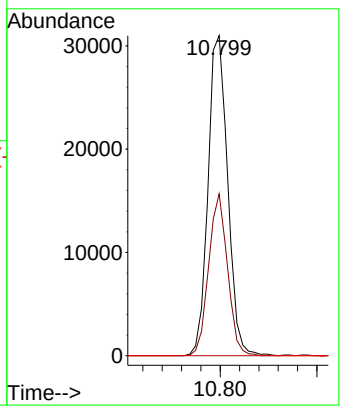




#71
Bromoform
Concen: 54.761 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion:173 Resp: 4361

Ion	Ratio	Lower	Upper
173	100		
175	48.6	23.4	70.2
254	0.0	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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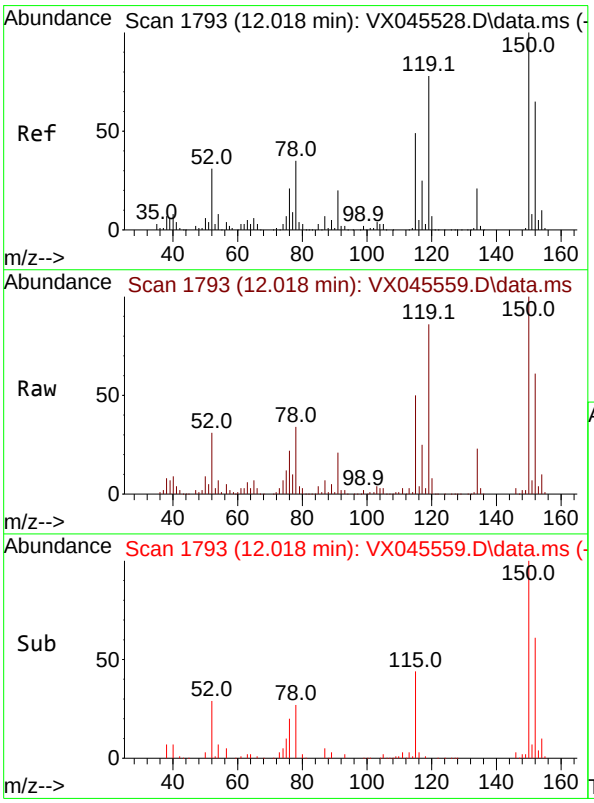
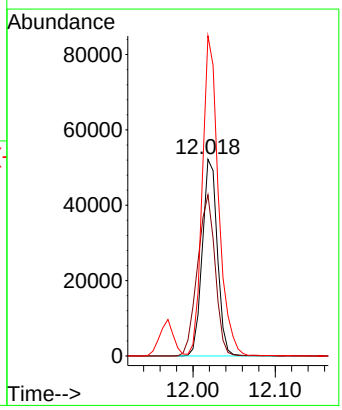
Reviewed By :Semsettin Yesilyurt 04/04/2025
Supervised By :Mahesh Dadoda 04/04/2025

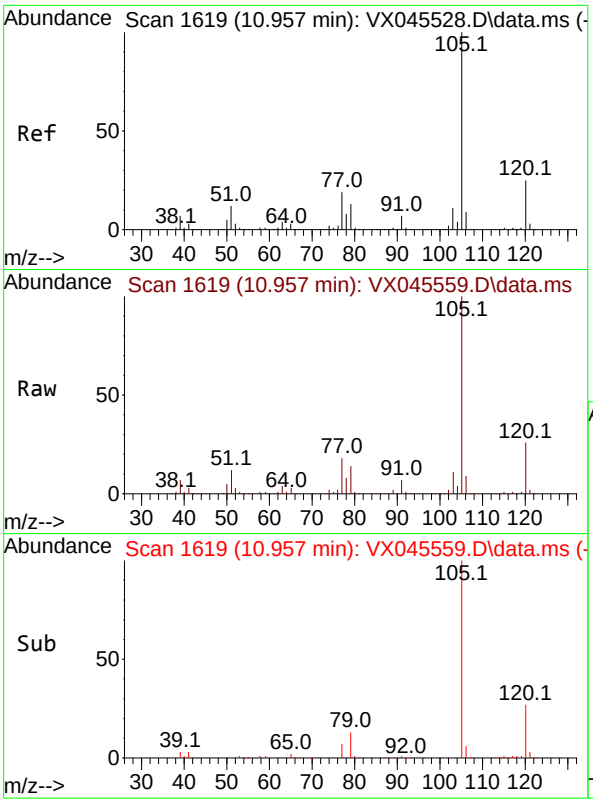


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion:152 Resp: 66270

Ion	Ratio	Lower	Upper
152	100		
115	96.4	46.9	140.7
150	174.6	0.0	349.4





#73
Isopropylbenzene
Concen: 52.752 ug/l
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion:105 Resp: 28002

Ion	Ratio	Lower	Upper
105	100		
120	25.8	12.7	38.0

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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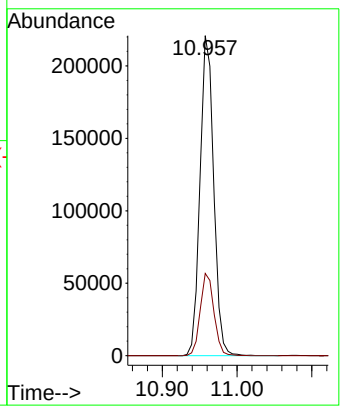
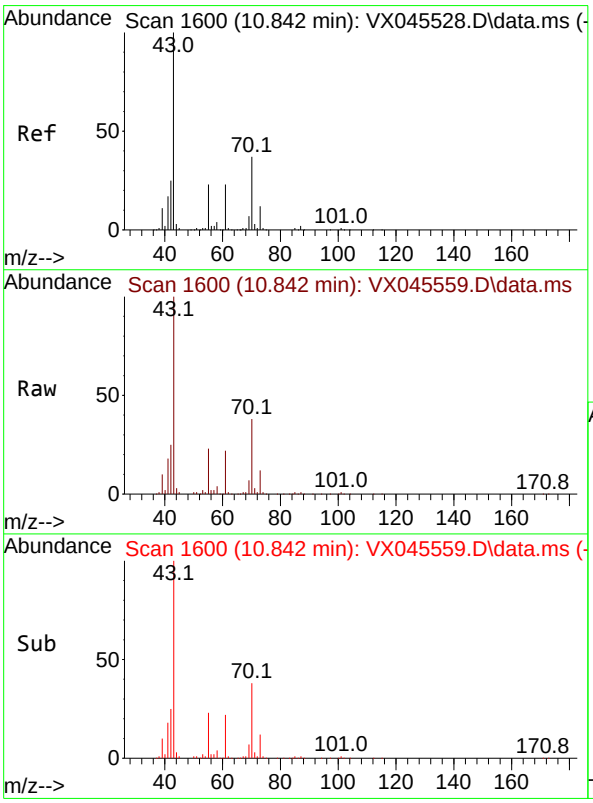
Reviewed By :Semsettin Yesilyurt 04/04/2025
Supervised By :Mahesh Dadoda 04/04/2025

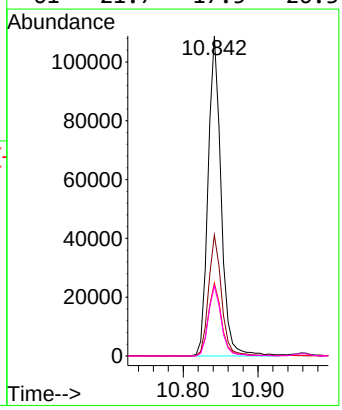


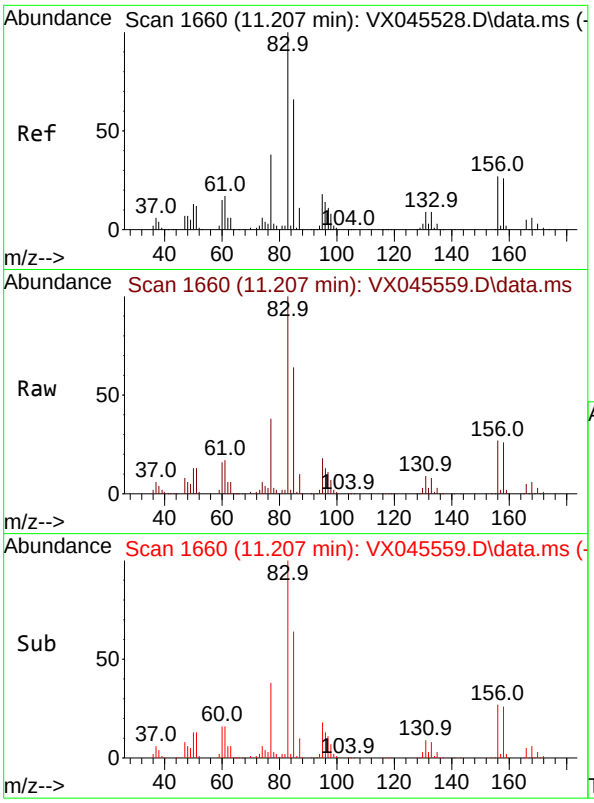


#74
N-amyl acetate
Concen: 51.953 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion: 43 Resp: 131921

Ion	Ratio	Lower	Upper
43	100		
70	37.5	30.1	45.1
55	23.2	18.3	27.5
61	21.7	17.5	26.3





#75
1,1,2,2-Tetrachloroethane
Concen: 48.351 ug/l
RT: 11.207 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion: 83 Resp: 9016

Ion	Ratio	Lower	Upper
83	100		
131	9.6	4.7	14.1
85	65.2	32.4	97.2

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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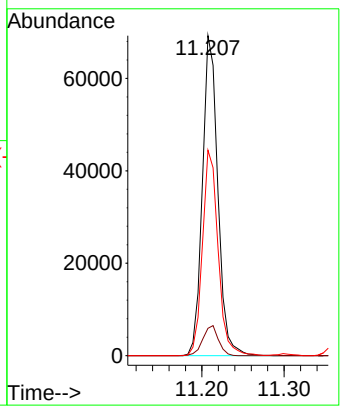
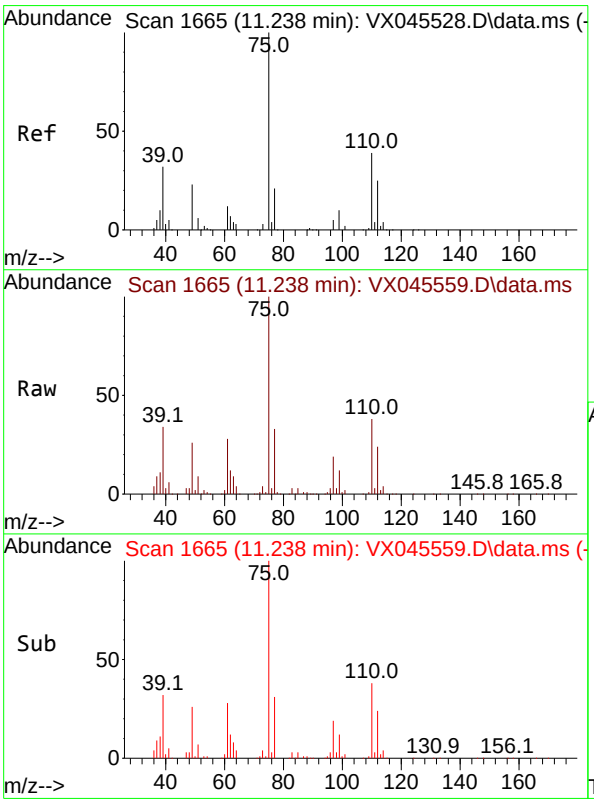
Reviewed By :Semsettin Yesilyurt 04/04/2025
Supervised By :Mahesh Dadoda 04/04/2025

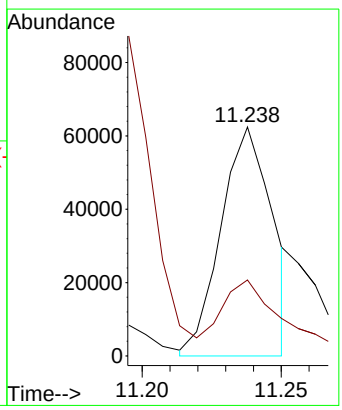


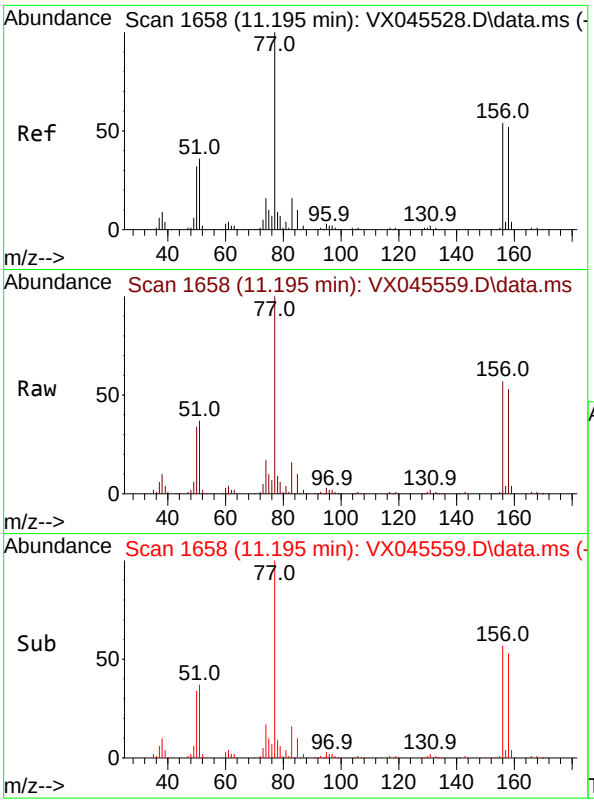


#76
1,2,3-Trichloropropane
Concen: 49.735 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion: 75 Resp: 80395

Ion	Ratio	Lower	Upper
75	100		
77	40.6	20.0	59.9

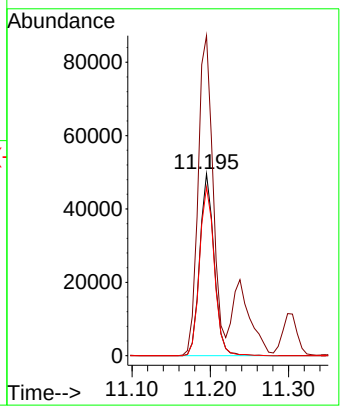




#77
Bromobenzene
Concen: 51.347 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion:156 Resp: 6297

Ion	Ratio	Lower	Upper
156	100		
77	183.4	92.6	277.8
158	96.0	48.1	144.4



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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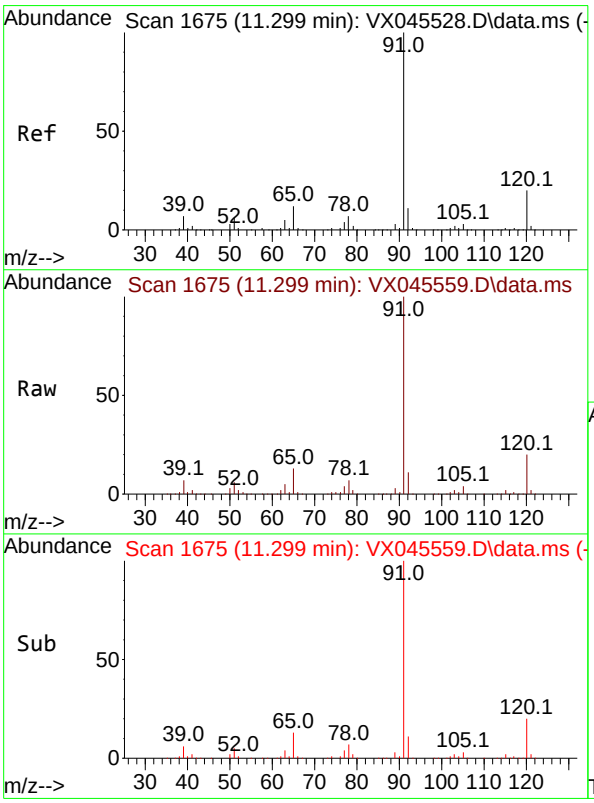
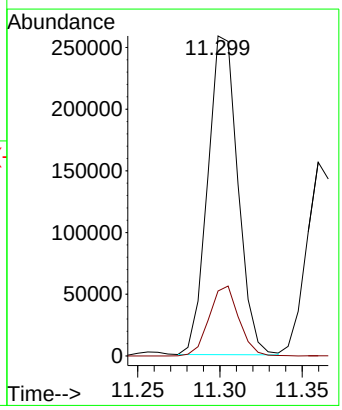
Supervised By :Mahesh Dadoda 04/04/2025

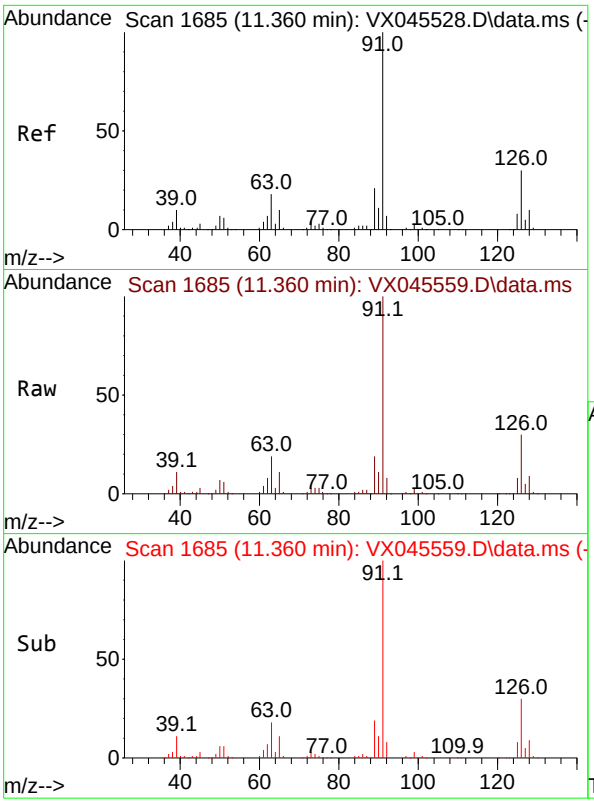


#78
n-propylbenzene
Concen: 54.023 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion: 91 Resp: 330313

Ion	Ratio	Lower	Upper
91	100		
120	21.6	10.8	32.3





#79
2-Chlorotoluene
Concen: 51.521 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion: 91 Resp: 20138

Ion	Ratio	Lower	Upper
91	100		
126	31.4	15.8	47.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 04/04/2025
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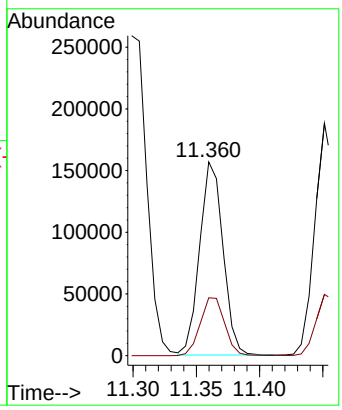
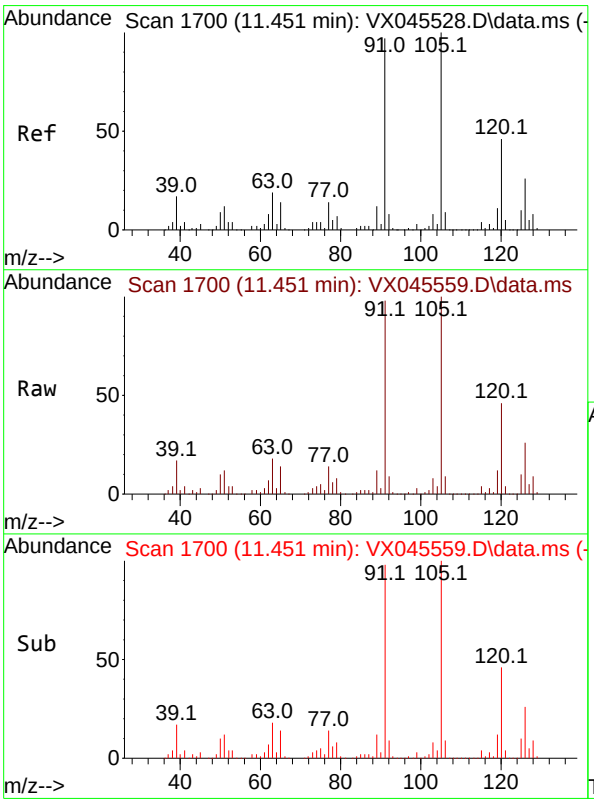
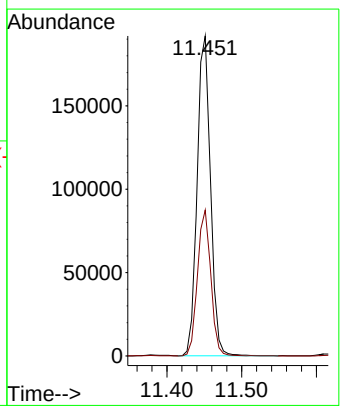


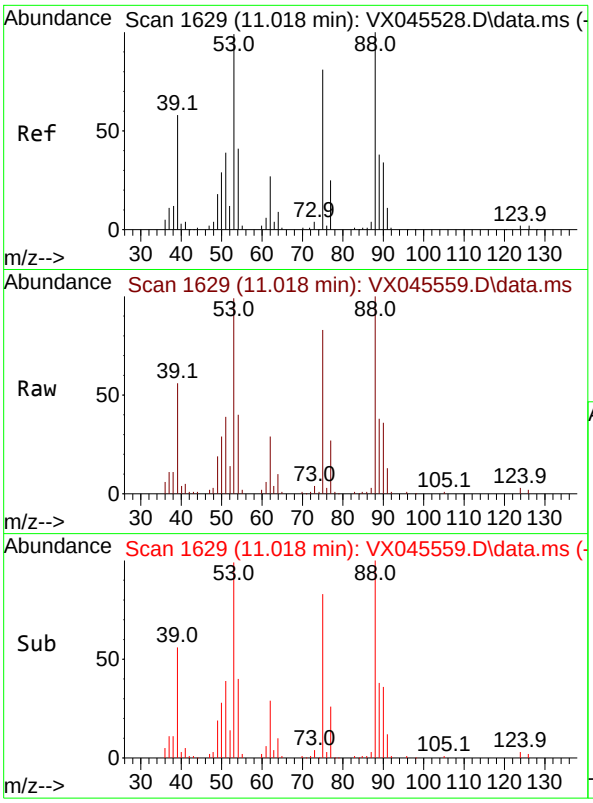


#80
1,3,5-Trimethylbenzene
Concen: 54.195 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion:105 Resp: 237889

Ion	Ratio	Lower	Upper
105	100		
120	45.6	23.0	69.0





#81
trans-1,4-Dichloro-2-butene
Concen: 52.613 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion: 75 Resp: 2505

Ion	Ratio	Lower	Upper
75	100		
53	129.4	101.8	152.6
89	46.6	37.2	55.8

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 04/04/2025
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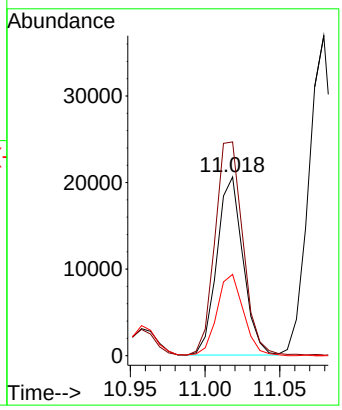
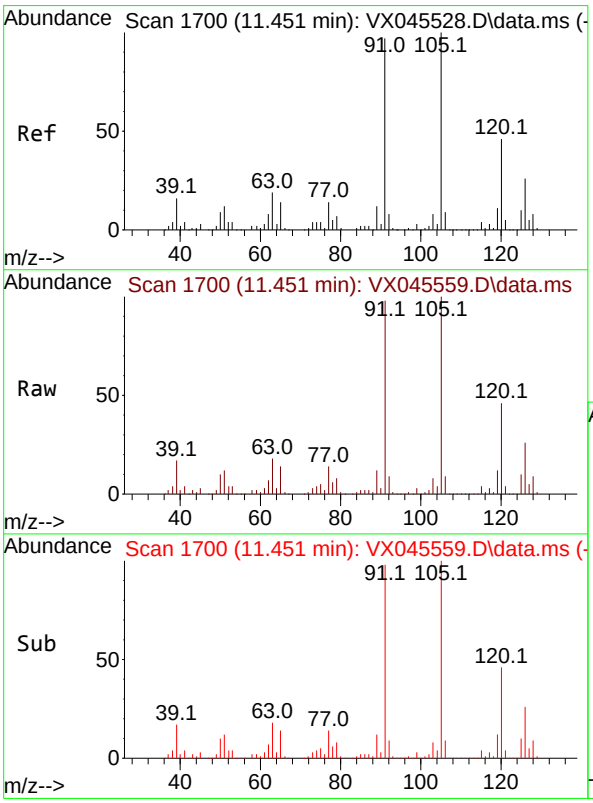
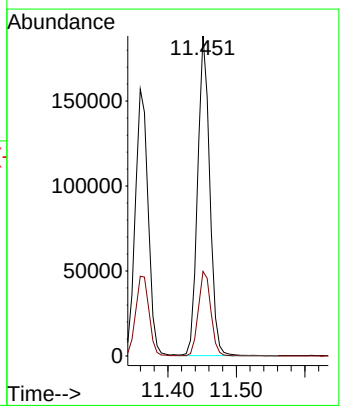


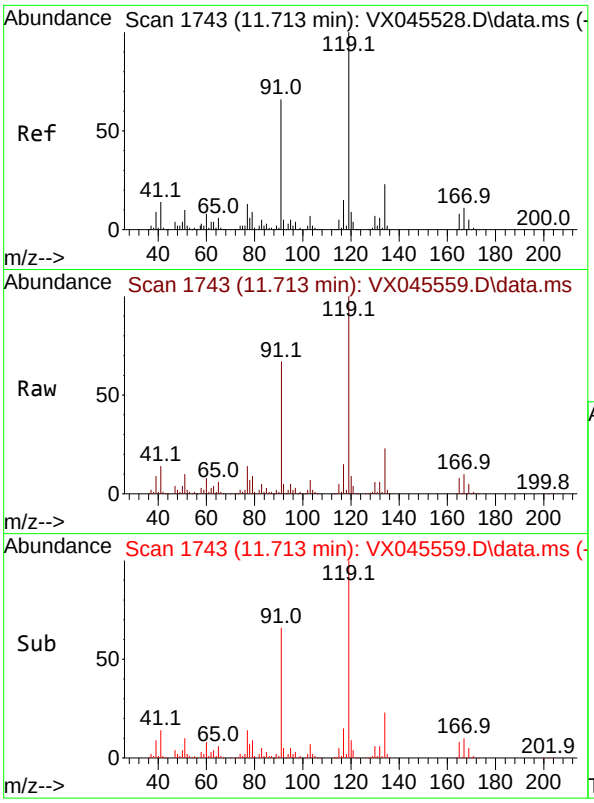


#82
4-Chlorotoluene
Concen: 53.158 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion: 91 Resp: 231669

Ion	Ratio	Lower	Upper
91	100		
126	27.1	13.3	39.9

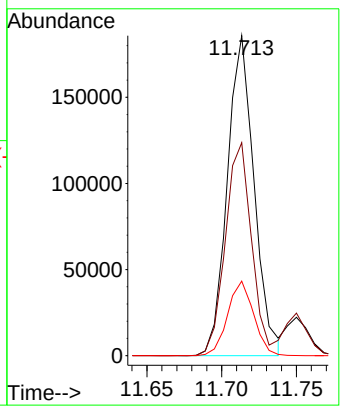




#83
tert-Butylbenzene
Concen: 53.394 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion:119 Resp: 23203

Ion	Ratio	Lower	Upper
119	100		
91	64.7	32.4	97.2
134	22.6	11.5	34.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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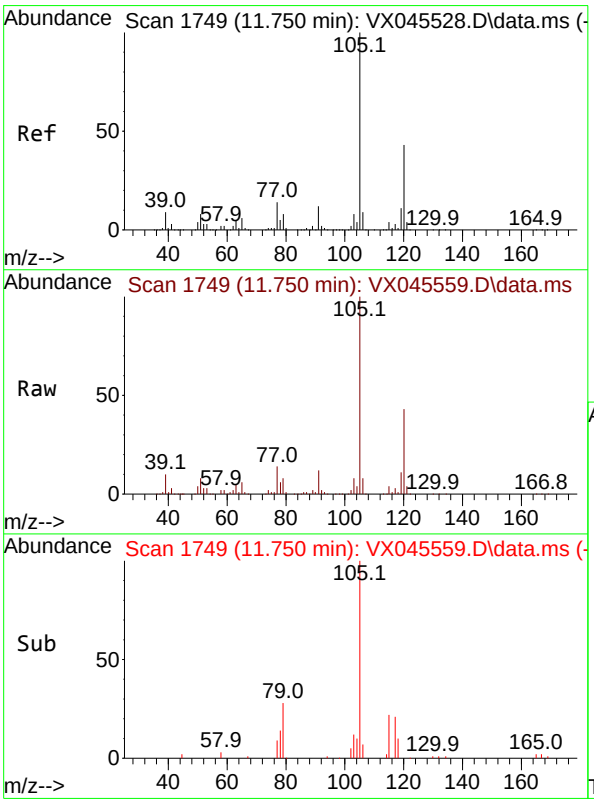
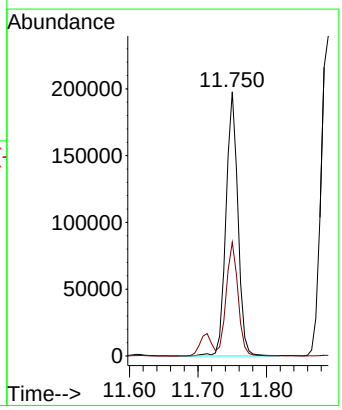
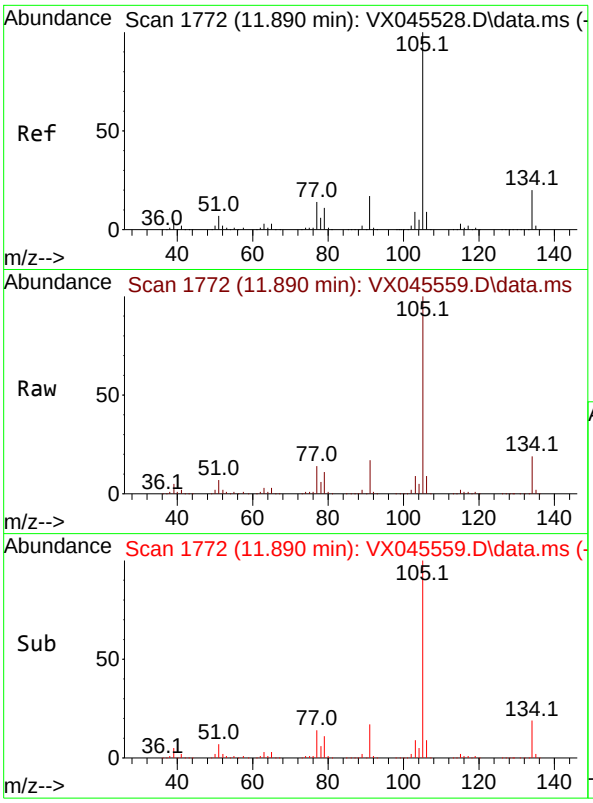


#84
1,2,4-Trimethylbenzene
Concen: 54.063 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion:105 Resp: 238183

Ion	Ratio	Lower	Upper
105	100		
120	42.7	21.4	64.3





#85
sec-Butylbenzene
Concen: 54.862 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion:105 Resp: 29283

Ion	Ratio	Lower	Upper
105	100		
134	19.0	9.6	28.6

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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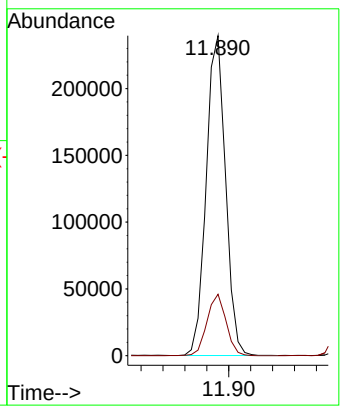
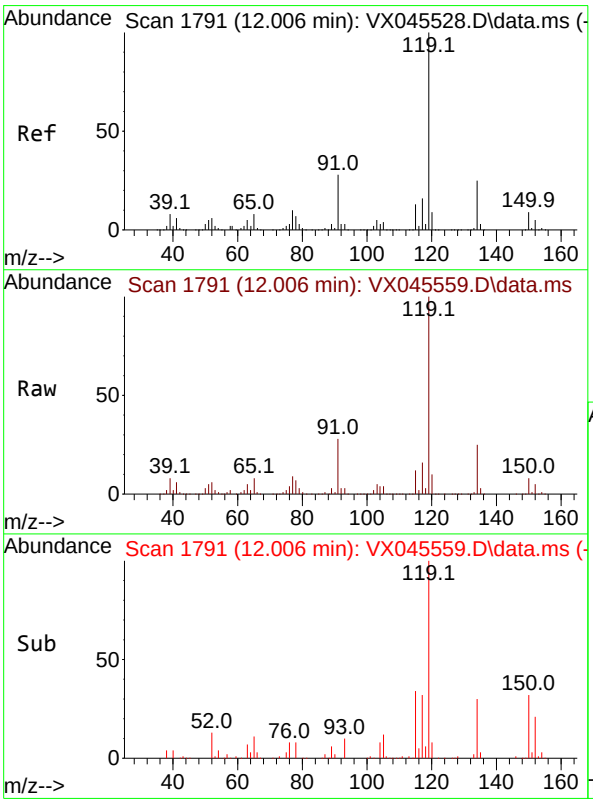
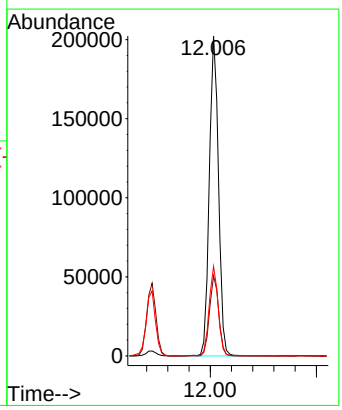


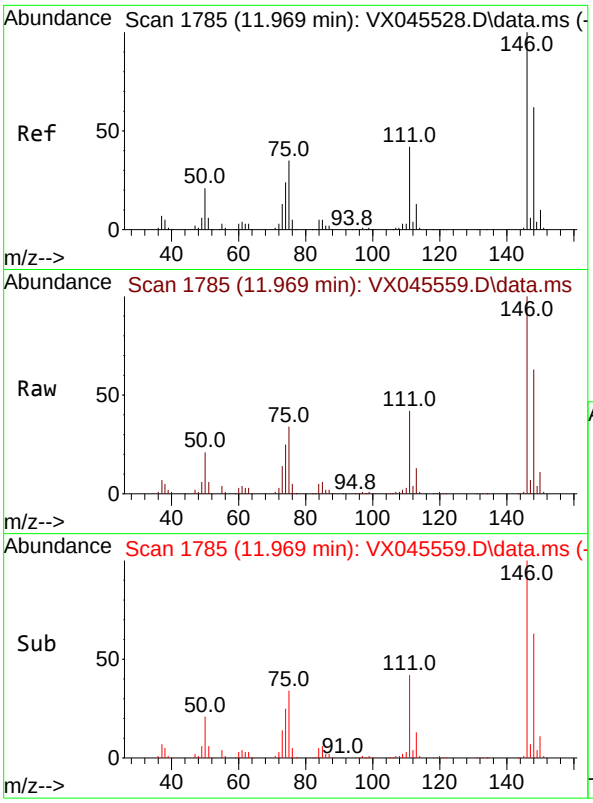


#86
p-Isopropyltoluene
Concen: 54.914 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion:119 Resp: 241650

Ion	Ratio	Lower	Upper
119	100		
134	25.1	12.6	37.8
91	27.4	13.7	41.1

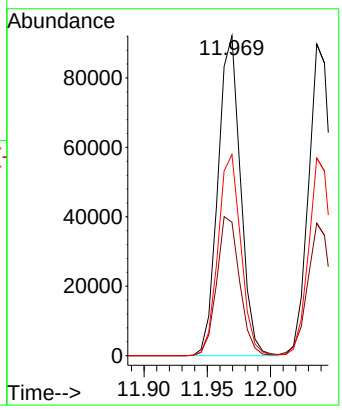




#87
1,3-Dichlorobenzene
Concen: 51.187 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion:146 Resp: 11428

Ion	Ratio	Lower	Upper
146	100		
111	44.2	22.2	66.6
148	63.6	31.9	95.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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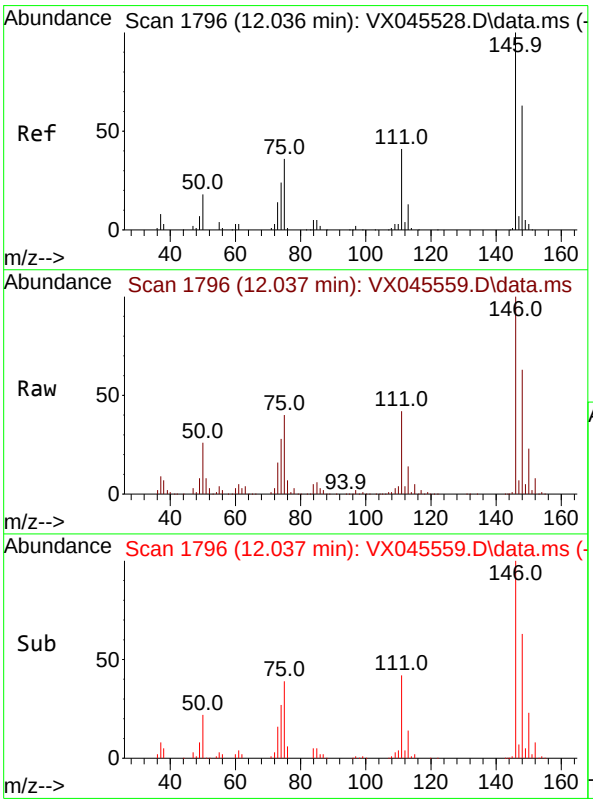
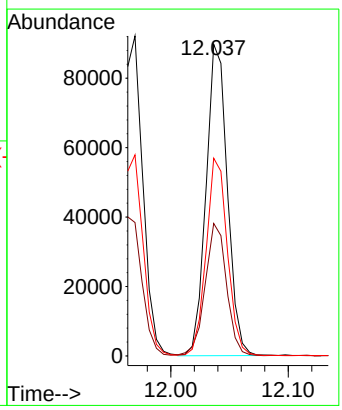
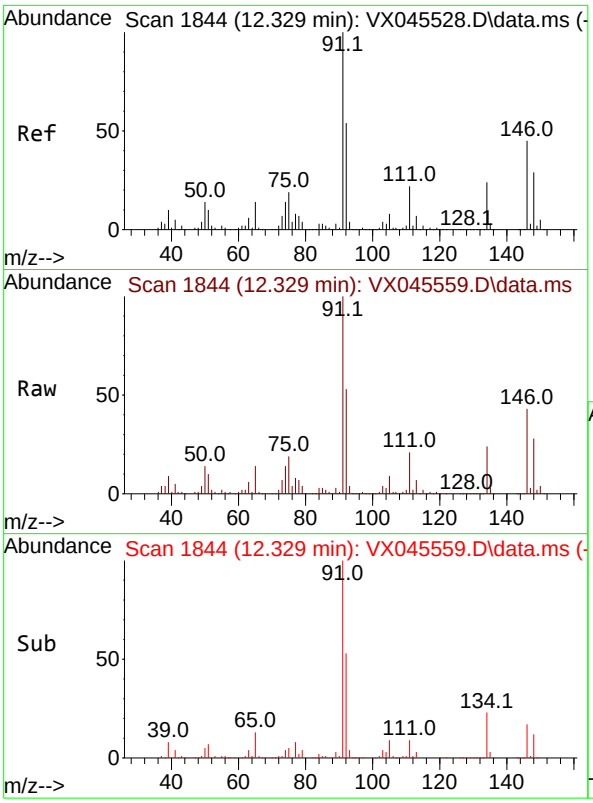


#88
1,4-Dichlorobenzene
Concen: 49.973 ug/l
RT: 12.037 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion:146 Resp: 113108

Ion	Ratio	Lower	Upper
146	100		
111	42.9	20.9	62.8
148	63.4	31.5	94.5

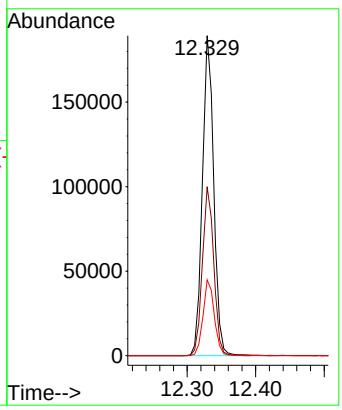




#89
n-Butylbenzene
Concen: 57.188 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion: 91 Resp: 21822

Ion	Ratio	Lower	Upper
91	100		
92	53.2	26.9	80.6
134	23.6	11.9	35.7



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
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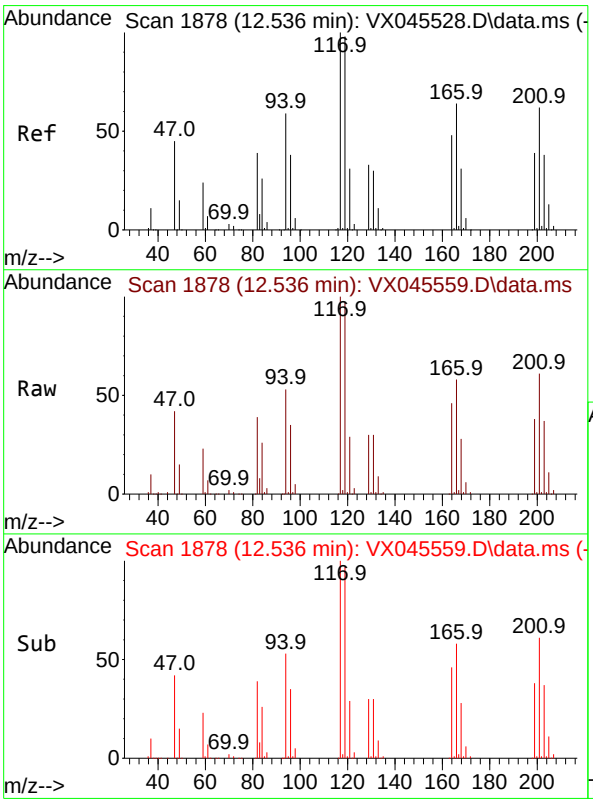
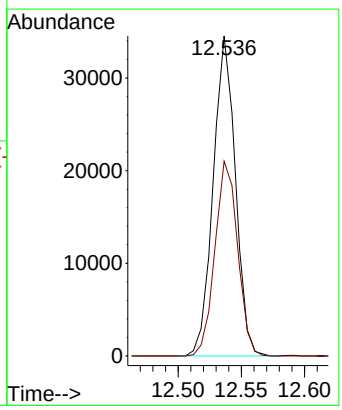
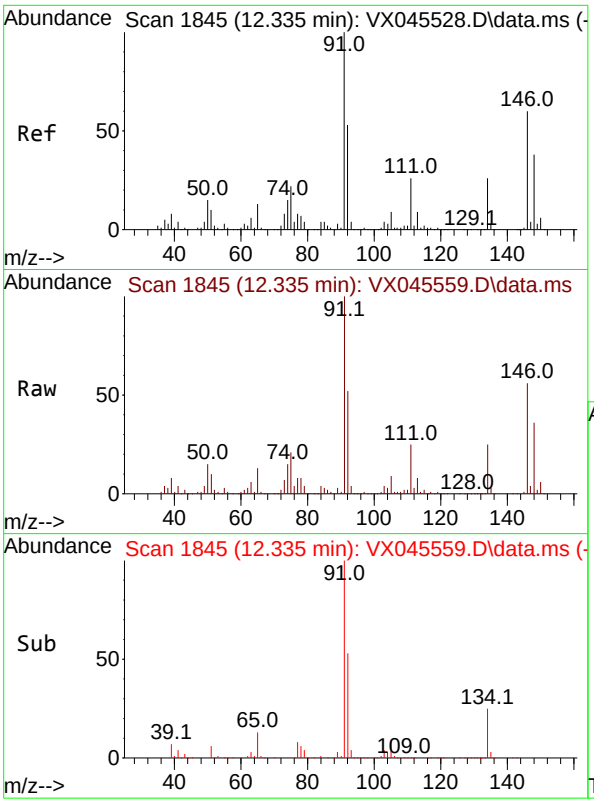


#90
Hexachloroethane
Concen: 55.591 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion:117 Resp: 42042

Ion	Ratio	Lower	Upper
117	100		
201	62.4	31.2	93.6

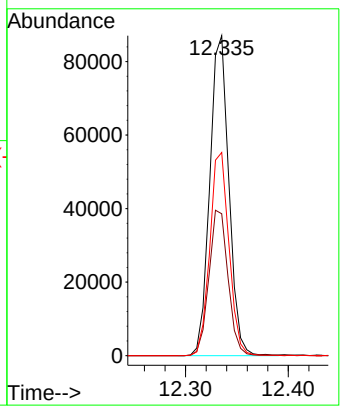




#91
1,2-Dichlorobenzene
Concen: 50.437 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion:146 Resp: 11195

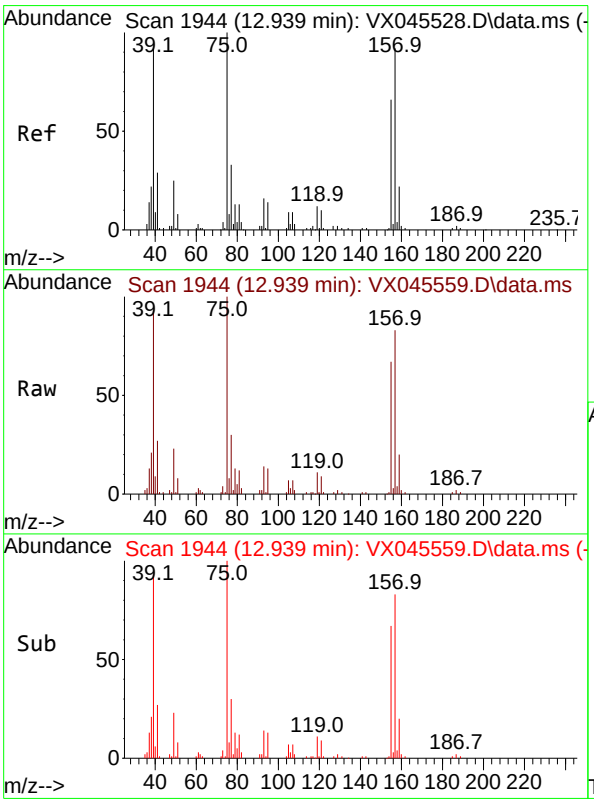
Ion	Ratio	Lower	Upper
146	100		
111	45.7	22.9	68.8
148	63.9	31.9	95.5



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

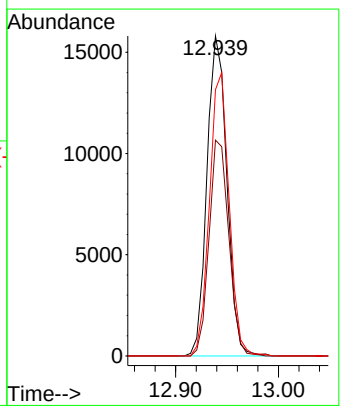
Reviewed By :Semsettin Yesilyurt 04/04/2025
Supervised By :Mahesh Dadoda 04/04/2025

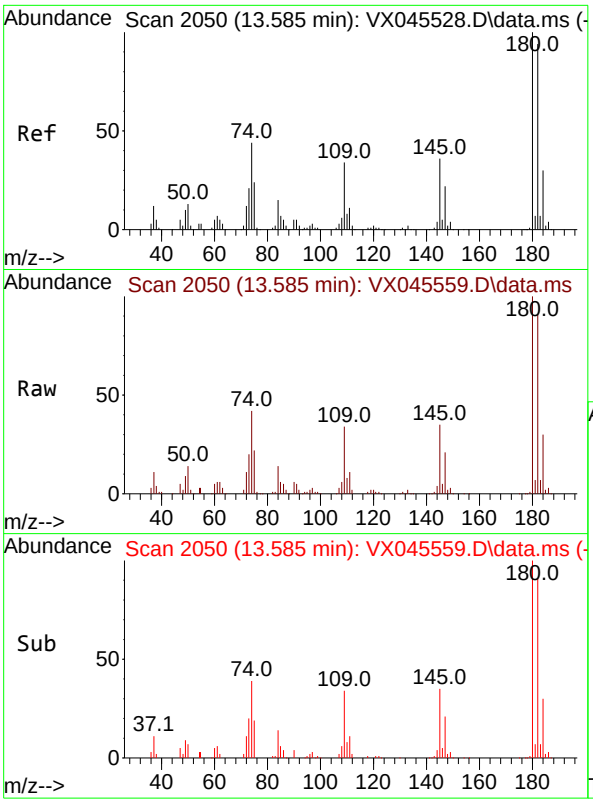


#92
1,2-Dibromo-3-Chloropropane
Concen: 54.613 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion: 75 Resp: 21298

Ion	Ratio	Lower	Upper
75	100		
155	66.9	34.9	104.7
157	87.1	44.9	134.7

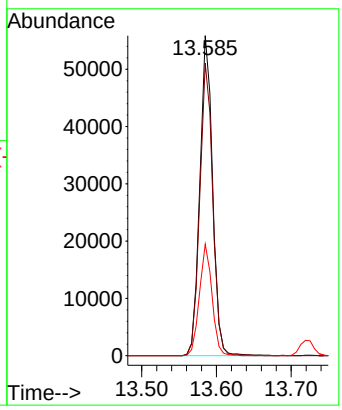




#93
1,2,4-Trichlorobenzene
Concen: 53.424 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion:180 Resp: 6600

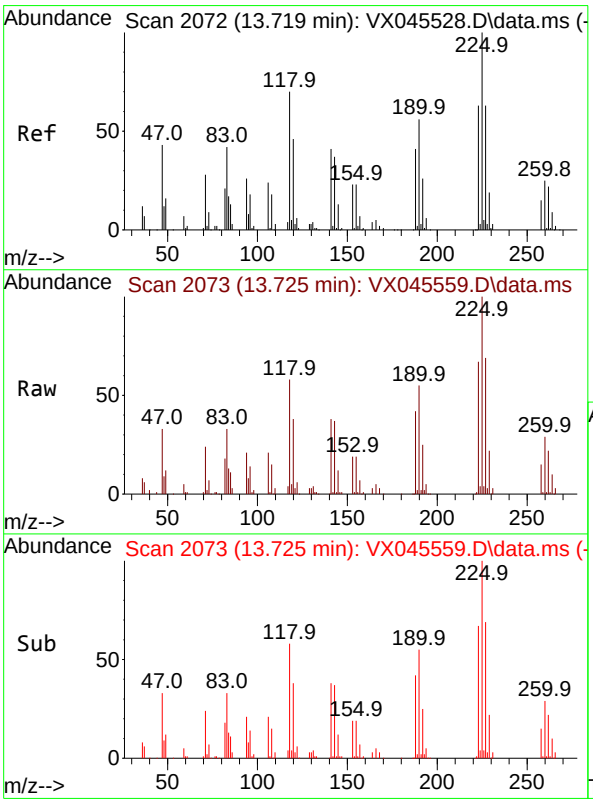
Ion	Ratio	Lower	Upper
180	100		
182	92.9	47.9	143.6
145	34.5	17.9	53.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

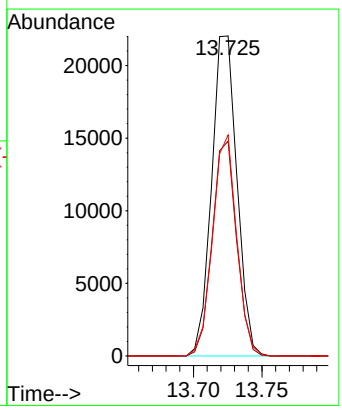
Reviewed By :Semsettin Yesilyurt 04/04/2025
Supervised By :Mahesh Dadoda 04/04/2025

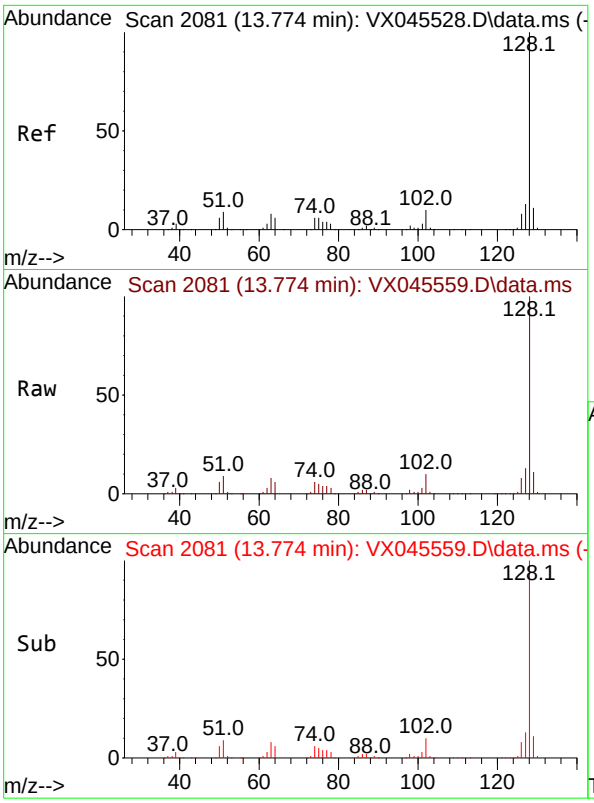


#94
Hexachlorobutadiene
Concen: 53.224 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.006 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion:225 Resp: 28337

Ion	Ratio	Lower	Upper
225	100		
223	64.6	31.1	93.3
227	65.5	32.2	96.6

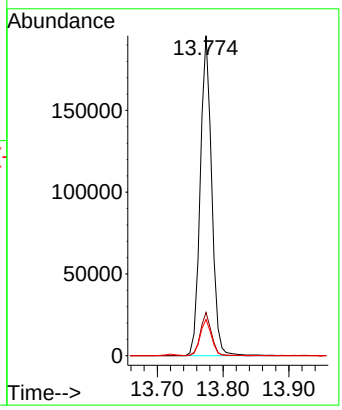




#95
Naphthalene
Concen: 51.463 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion:128 Resp: 23662

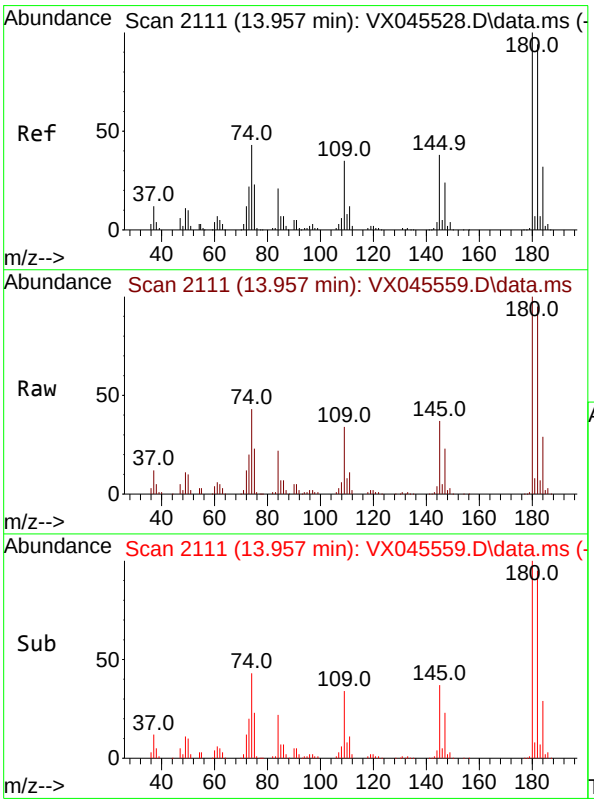
Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.3	15.5
129	11.2	8.6	12.8



Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

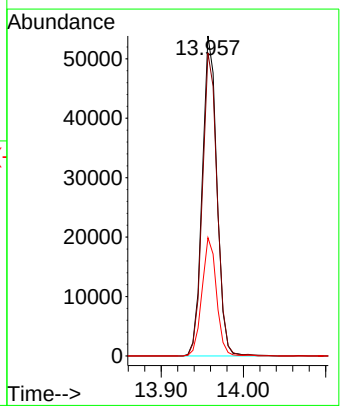
Reviewed By :Semsettin Yesilyurt 04/04/2025
Supervised By :Mahesh Dadoda 04/04/2025



#96
1,2,3-Trichlorobenzene
Concen: 51.481 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX045559.D
Acq: 03 Apr 2025 10:30

Tgt Ion:180 Resp: 66605

Ion	Ratio	Lower	Upper
180	100		
182	95.5	47.3	141.8
145	36.6	18.2	54.6



Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040325\
Data File : VX045559.D
Acq On : 03 Apr 2025 10:30
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Apr 04 01:17:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 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	100	0.00
2	T	Dichlorodifluoromethane	0.748	0.863	-15.4	105	0.00
3	P	Chloromethane	0.768	0.782	-1.8	99	0.00
4	C	Vinyl Chloride	0.703	0.734	-4.4#	102	0.00
5	T	Bromomethane	0.333	0.322	3.3	97	0.00
6	T	Chloroethane	0.373	0.405	-8.6	101	0.00
7	T	Trichlorofluoromethane	1.048	1.105	-5.4	101	0.00
8	T	Diethyl Ether	0.352	0.347	1.4	97	0.00
9	T	1,1,2-Trichlorotrifluoroeth	0.614	0.658	-7.2	105	0.00
10	T	Methyl Iodide	0.766	0.783	-2.2	98	0.00
11	T	Tert butyl alcohol	0.123	0.122	0.8	96	0.00
12	CM	1,1-Dichloroethene	0.600	0.611	-1.8#	101	0.00
13	T	Acrolein	0.169	0.197	-16.6	117	0.00
14	T	Allyl chloride	1.139	1.165	-2.3	99	0.00
15	T	Acrylonitrile	0.388	0.390	-0.5	95	0.00
16	T	Acetone	0.375	0.368	1.9	97	0.00
17	T	Carbon Disulfide	1.483	1.535	-3.5	98	0.00
18	T	Methyl Acetate	0.864	0.859	0.6	100	0.00
19	T	Methyl tert-butyl Ether	2.100	2.077	1.1	98	0.00
20	T	Methylene Chloride	0.703	0.693	1.4	97	0.00
21	T	trans-1,2-Dichloroethene	0.613	0.615	-0.3	98	0.00
22	T	Diisopropyl ether	2.243	2.271	-1.2	99	0.00
23	T	Vinyl Acetate	1.938	2.024	-4.4	97	0.00
24	P	1,1-Dichloroethane	1.269	1.249	1.6	98	0.00
25	T	2-Butanone	0.550	0.565	-2.7	96	0.00
26	T	2,2-Dichloropropane	0.820	0.904	-10.2	106	0.00
27	T	cis-1,2-Dichloroethene	0.747	0.736	1.5	97	0.00
28	T	Bromochloromethane	0.613	0.598	2.4	100	0.00
29	T	Tetrahydrofuran	0.356	0.356	0.0	96	0.00
30	C	Chloroform	1.306	1.290	1.2#	98	0.00
31	T	Cyclohexane	1.122	1.136	-1.2	101	0.00
32	T	1,1,1-Trichloroethane	1.105	1.105	0.0	99	0.00
33	S	1,2-Dichloroethane-d4	0.914	0.886	3.1	102	0.00
34	I	1,4-Difluorobenzene	1.000	1.000	0.0	97	0.00
35	S	Dibromofluoromethane	0.355	0.358	-0.8	100	0.00
36	T	1,1-Dichloropropene	0.479	0.497	-3.8	99	0.00
37	T	Ethyl Acetate	0.604	0.615	-1.8	95	0.00
38	T	Carbon Tetrachloride	0.518	0.561	-8.3	101	0.00
39	T	Methylcyclohexane	0.587	0.655	-11.6	102	0.00
40	TM	Benzene	1.463	1.502	-2.7	98	0.00
41	T	Methacrylonitrile	0.318	0.343	-7.9	95	-0.01
42	TM	1,2-Dichloroethane	0.604	0.634	-5.0	99	0.00
43	T	Isopropyl Acetate	0.915	0.973	-6.3	96	0.00
44	TM	Trichloroethene	0.348	0.350	-0.6	97	0.00
45	C	1,2-Dichloropropane	0.365	0.381	-4.4#	98	0.00
46	T	Dibromomethane	0.280	0.294	-5.0	97	0.00
47	T	Bromodichloromethane	0.560	0.596	-6.4	101	0.00
48	T	Methyl methacrylate	0.472	0.509	-7.8	97	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040325\
Data File : VX045559.D
Acq On : 03 Apr 2025 10:30
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Apr 04 01:17:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 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	95	0.00
50	S	Toluene-d8	1.238	1.248	-0.8	99	0.00
51	T	4-Methyl-2-Pentanone	0.606	0.658	-8.6	96	0.00
52	CM	Toluene	0.885	0.904	-2.1#	96	0.00
53	T	t-1,3-Dichloropropene	0.467	0.519	-11.1	99	0.00
54	T	cis-1,3-Dichloropropene	0.526	0.584	-11.0	99	0.00
55	T	1,1,2-Trichloroethane	0.353	0.367	-4.0	99	0.00
56	T	Ethyl methacrylate	0.546	0.600	-9.9	97	0.00
57	T	1,3-Dichloropropane	0.614	0.632	-2.9	97	0.00
58	T	2-Chloroethyl Vinyl ether	0.276	0.308	-11.6	100	0.00
59	T	2-Hexanone	0.449	0.478	-6.5	94	0.00
60	T	Dibromochloromethane	0.385	0.421	-9.4	99	0.00
61	T	1,2-Dibromoethane	0.357	0.378	-5.9	98	0.00
62	S	4-Bromofluorobenzene	0.451	0.460	-2.0	98	0.00
63	I	Chlorobenzene-d5	1.000	1.000	0.0	96	0.00
64	T	Tetrachloroethene	0.353	0.354	-0.3	98	0.00
65	PM	Chlorobenzene	1.068	1.122	-5.1	99	0.00
66	T	1,1,1,2-Tetrachloroethane	0.371	0.384	-3.5	99	0.00
67	C	Ethyl Benzene	1.914	2.033	-6.2#	97	0.00
68	T	m/p-Xylenes	0.696	0.743	-6.8	98	0.00
69	T	o-Xylene	0.686	0.728	-6.1	97	0.00
70	T	Styrene	1.132	1.241	-9.6	98	0.00
71	P	Bromoform	0.277	0.303	-9.4	98	0.00
72	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	96	0.00
73	T	Isopropylbenzene	4.005	4.226	-5.5	97	0.00
74	T	N-amyl acetate	1.916	1.991	-3.9	93	0.00
75	P	1,1,2,2-Tetrachloroethane	1.407	1.361	3.3	95	0.00
76	T	1,2,3-Trichloropropane	1.220	1.213	0.6	95	0.00
77	T	Bromobenzene	0.925	0.950	-2.7	98	0.00
78	T	n-propylbenzene	4.613	4.984	-8.0	98	0.00
79	T	2-Chlorotoluene	2.949	3.039	-3.1	99	0.00
80	T	1,3,5-Trimethylbenzene	3.312	3.590	-8.4	98	0.00
81	T	trans-1,4-Dichloro-2-butene	0.359	0.378	-5.3	98	0.00
82	T	4-Chlorotoluene	3.288	3.496	-6.3	98	0.00
83	T	tert-Butylbenzene	3.279	3.501	-6.8	98	0.00
84	T	1,2,4-Trimethylbenzene	3.324	3.594	-8.1	98	0.00
85	T	sec-Butylbenzene	4.027	4.419	-9.7	99	0.00
86	T	p-Isopropyltoluene	3.320	3.646	-9.8	100	0.00
87	T	1,3-Dichlorobenzene	1.684	1.724	-2.4	98	0.00
88	T	1,4-Dichlorobenzene	1.708	1.707	0.1	97	0.00
89	T	n-Butylbenzene	2.879	3.293	-14.4	100	0.00
90	T	Hexachloroethane	0.571	0.634	-11.0	102	0.00
91	T	1,2-Dichlorobenzene	1.675	1.689	-0.8	97	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.294	0.321	-9.2	98	0.00
93	T	1,2,4-Trichlorobenzene	0.932	0.996	-6.9	101	0.00
94	T	Hexachlorobutadiene	0.402	0.428	-6.5	102	0.00
95	T	Naphthalene	3.469	3.571	-2.9	92	0.00

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040325\
Data File : VX045559.D
Acq On : 03 Apr 2025 10:30
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Apr 04 01:17:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 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	0.976	1.005	-3.0	97	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040325\
Data File : VX045559.D
Acq On : 03 Apr 2025 10:30
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Apr 04 01:17:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 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	100	0.00
2	T	Dichlorodifluoromethane	50.000	57.700	-15.4	105	0.00
3	P	Chloromethane	50.000	50.909	-1.8	99	0.00
4	C	Vinyl Chloride	50.000	52.195	-4.4#	102	0.00
5	T	Bromomethane	50.000	48.364	3.3	97	0.00
6	T	Chloroethane	50.000	54.319	-8.6	101	0.00
7	T	Trichlorofluoromethane	50.000	52.725	-5.5	101	0.00
8	T	Diethyl Ether	50.000	49.284	1.4	97	0.00
9	T	1,1,2-Trichlorotrifluoroeth	50.000	53.581	-7.2	105	0.00
10	T	Methyl Iodide	50.000	51.106	-2.2	98	0.00
11	T	Tert butyl alcohol	250.000	247.660	0.9	96	0.00
12	CM	1,1-Dichloroethene	50.000	50.876	-1.8#	101	0.00
13	T	Acrolein	250.000	290.369	-16.1	117	0.00
14	T	Allyl chloride	50.000	51.139	-2.3	99	0.00
15	T	Acrylonitrile	250.000	251.370	-0.5	95	0.00
16	T	Acetone	250.000	244.836	2.1	97	0.00
17	T	Carbon Disulfide	50.000	51.779	-3.6	98	0.00
18	T	Methyl Acetate	50.000	49.677	0.6	100	0.00
19	T	Methyl tert-butyl Ether	50.000	49.447	1.1	98	0.00
20	T	Methylene Chloride	50.000	49.292	1.4	97	0.00
21	T	trans-1,2-Dichloroethene	50.000	50.139	-0.3	98	0.00
22	T	Diisopropyl ether	50.000	50.611	-1.2	99	0.00
23	T	Vinyl Acetate	250.000	261.101	-4.4	97	0.00
24	P	1,1-Dichloroethane	50.000	49.227	1.5	98	0.00
25	T	2-Butanone	250.000	257.055	-2.8	96	0.00
26	T	2,2-Dichloropropane	50.000	55.135	-10.3	106	0.00
27	T	cis-1,2-Dichloroethene	50.000	49.223	1.6	97	0.00
28	T	Bromochloromethane	50.000	48.775	2.5	100	0.00
29	T	Tetrahydrofuran	250.000	250.088	-0.0	96	0.00
30	C	Chloroform	50.000	49.413	1.2#	98	0.00
31	T	Cyclohexane	50.000	50.618	-1.2	101	0.00
32	T	1,1,1-Trichloroethane	50.000	50.002	-0.0	99	0.00
33	S	1,2-Dichloroethane-d4	50.000	48.452	3.1	102	0.00
34	I	1,4-Difluorobenzene	50.000	50.000	0.0	97	0.00
35	S	Dibromofluoromethane	50.000	50.400	-0.8	100	0.00
36	T	1,1-Dichloropropene	50.000	51.889	-3.8	99	0.00
37	T	Ethyl Acetate	50.000	50.922	-1.8	95	0.00
38	T	Carbon Tetrachloride	50.000	54.175	-8.3	101	0.00
39	T	Methylcyclohexane	50.000	55.811	-11.6	102	0.00
40	TM	Benzene	50.000	51.334	-2.7	98	0.00
41	T	Methacrylonitrile	50.000	53.895	-7.8	95	-0.01
42	TM	1,2-Dichloroethane	50.000	52.471	-4.9	99	0.00
43	T	Isopropyl Acetate	50.000	53.203	-6.4	96	0.00
44	TM	Trichloroethene	50.000	50.400	-0.8	97	0.00
45	C	1,2-Dichloropropane	50.000	52.177	-4.4#	98	0.00
46	T	Dibromomethane	50.000	52.432	-4.9	97	0.00
47	T	Bromodichloromethane	50.000	53.281	-6.6	101	0.00
48	T	Methyl methacrylate	50.000	53.916	-7.8	97	0.00

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040325\
Data File : VX045559.D
Acq On : 03 Apr 2025 10:30
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Apr 04 01:17:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 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	1069.810	-7.0	95	0.00
50	S	Toluene-d8	50.000	50.412	-0.8	99	0.00
51	T	4-Methyl-2-Pentanone	250.000	271.376	-8.6	96	0.00
52	CM	Toluene	50.000	51.038	-2.1#	96	0.00
53	T	t-1,3-Dichloropropene	50.000	48.265	3.5	99	0.00
54	T	cis-1,3-Dichloropropene	50.000	55.553	-11.1	99	0.00
55	T	1,1,2-Trichloroethane	50.000	51.988	-4.0	99	0.00
56	T	Ethyl methacrylate	50.000	54.916	-9.8	97	0.00
57	T	1,3-Dichloropropane	50.000	51.465	-2.9	97	0.00
58	T	2-Chloroethyl Vinyl ether	250.000	278.463	-11.4	100	0.00
59	T	2-Hexanone	250.000	266.003	-6.4	94	0.00
60	T	Dibromochloromethane	50.000	54.791	-9.6	99	0.00
61	T	1,2-Dibromoethane	50.000	52.982	-6.0	98	0.00
62	S	4-Bromofluorobenzene	50.000	51.040	-2.1	98	0.00
63	I	Chlorobenzene-d5	50.000	50.000	0.0	96	0.00
64	T	Tetrachloroethene	50.000	50.202	-0.4	98	0.00
65	PM	Chlorobenzene	50.000	52.511	-5.0	99	0.00
66	T	1,1,1,2-Tetrachloroethane	50.000	51.757	-3.5	99	0.00
67	C	Ethyl Benzene	50.000	53.122	-6.2#	97	0.00
68	T	m/p-Xylenes	100.000	106.687	-6.7	98	0.00
69	T	o-Xylene	50.000	53.092	-6.2	97	0.00
70	T	Styrene	50.000	54.847	-9.7	98	0.00
71	P	Bromoform	50.000	54.761	-9.5	98	0.00
72	I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	96	0.00
73	T	Isopropylbenzene	50.000	52.752	-5.5	97	0.00
74	T	N-amyl acetate	50.000	51.953	-3.9	93	0.00
75	P	1,1,2,2-Tetrachloroethane	50.000	48.351	3.3	95	0.00
76	T	1,2,3-Trichloropropane	50.000	49.735	0.5	95	0.00
77	T	Bromobenzene	50.000	51.347	-2.7	98	0.00
78	T	n-propylbenzene	50.000	54.023	-8.0	98	0.00
79	T	2-Chlorotoluene	50.000	51.521	-3.0	99	0.00
80	T	1,3,5-Trimethylbenzene	50.000	54.195	-8.4	98	0.00
81	T	trans-1,4-Dichloro-2-butene	50.000	52.613	-5.2	98	0.00
82	T	4-Chlorotoluene	50.000	53.158	-6.3	98	0.00
83	T	tert-Butylbenzene	50.000	53.394	-6.8	98	0.00
84	T	1,2,4-Trimethylbenzene	50.000	54.063	-8.1	98	0.00
85	T	sec-Butylbenzene	50.000	54.862	-9.7	99	0.00
86	T	p-Isopropyltoluene	50.000	54.914	-9.8	100	0.00
87	T	1,3-Dichlorobenzene	50.000	51.187	-2.4	98	0.00
88	T	1,4-Dichlorobenzene	50.000	49.973	0.1	97	0.00
89	T	n-Butylbenzene	50.000	57.188	-14.4	100	0.00
90	T	Hexachloroethane	50.000	55.591	-11.2	102	0.00
91	T	1,2-Dichlorobenzene	50.000	50.437	-0.9	97	0.00
92	T	1,2-Dibromo-3-Chloropropane	50.000	54.613	-9.2	98	0.00
93	T	1,2,4-Trichlorobenzene	50.000	53.424	-6.8	101	0.00
94	T	Hexachlorobutadiene	50.000	53.224	-6.4	102	0.00
95	T	Naphthalene	50.000	51.463	-2.9	92	0.00

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040325\
Data File : VX045559.D
Acq On : 03 Apr 2025 10:30
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Apr 04 01:17:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 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	51.481	-3.0	97	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

QC SAMPLE DATA

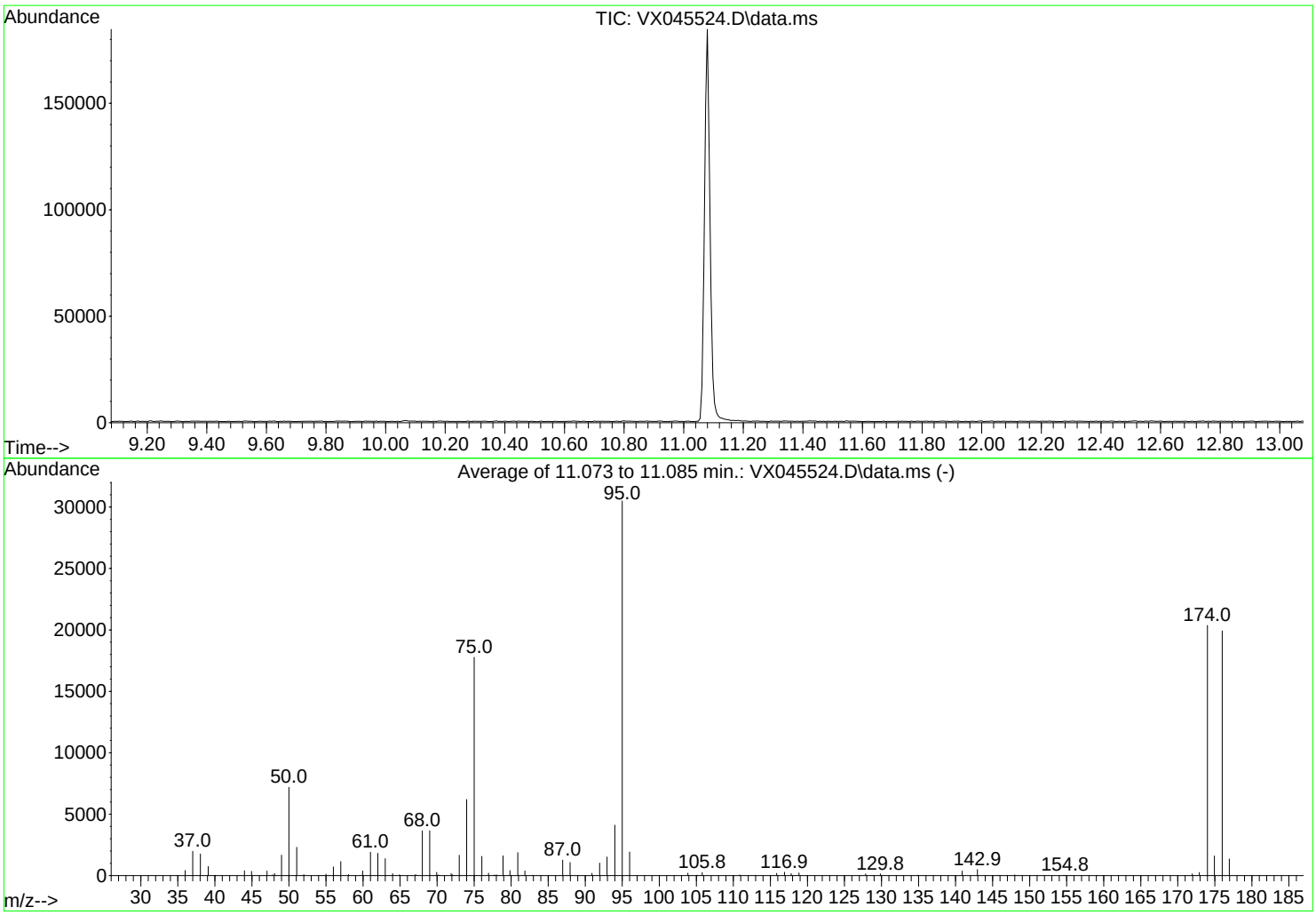
BFB

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045524.D
Acq On : 01 Apr 2025 16:15
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\82X040225W.M
Title : SW846 8260
Last Update : Wed Apr 02 03:11:43 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	23.6	7184	PASS
75	95	30	60	58.2	17768	PASS
95	95	100	100	100.0	30504	PASS
96	95	5	9	6.3	1916	PASS
173	174	0.00	2	1.2	253	PASS
174	95	50	100	66.8	20365	PASS
175	174	5	9	7.8	1596	PASS
176	174	95	101	97.8	19923	PASS
177	176	5	9	6.8	1352	PASS

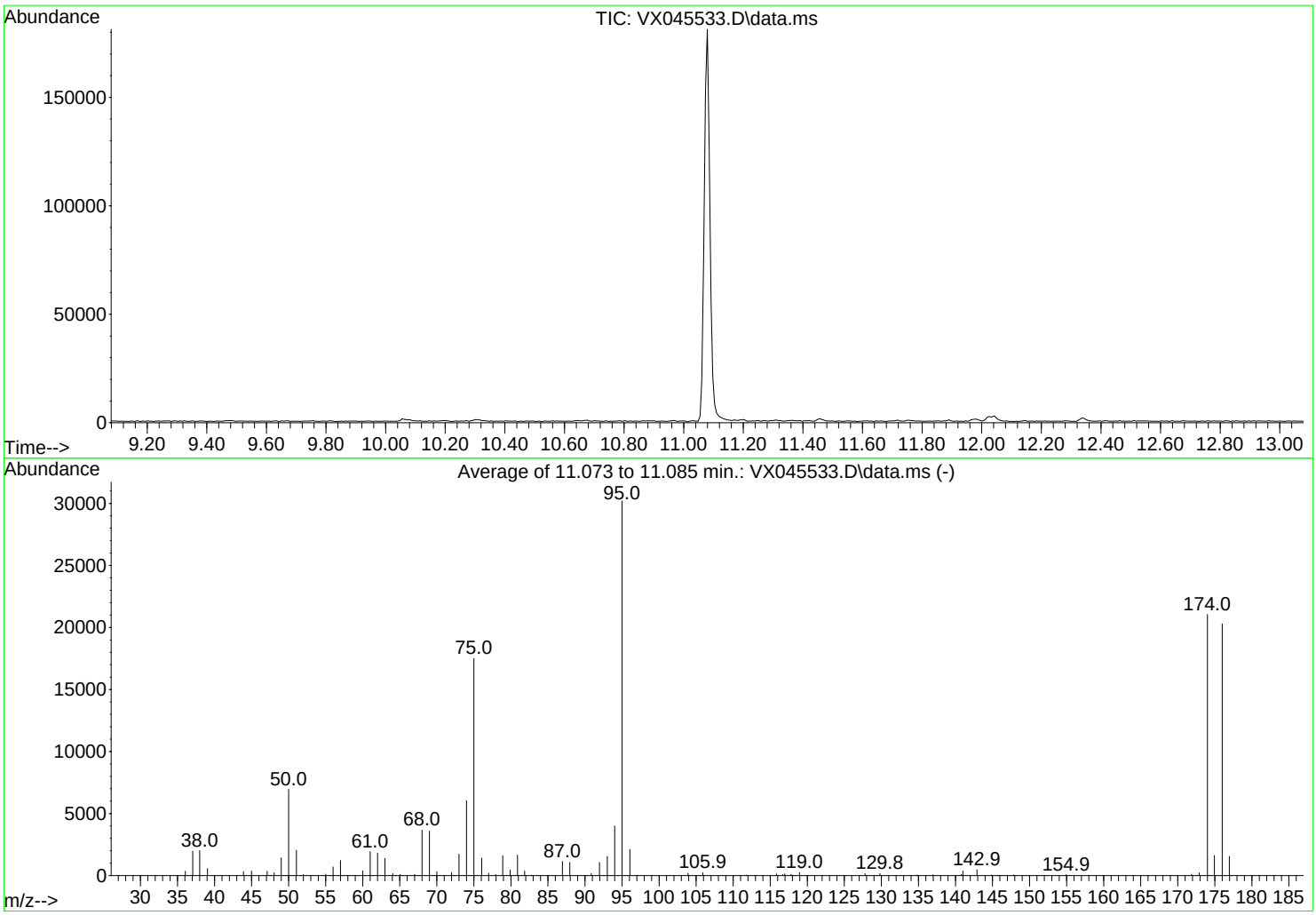
BFB

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045533.D
Acq On : 02 Apr 2025 09:30
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\82X040225W.M
Title : SW846 8260
Last Update : Wed Apr 02 03:11:43 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	23.0	6956	PASS
75	95	30	60	58.0	17513	PASS
95	95	100	100	100.0	30205	PASS
96	95	5	9	7.0	2115	PASS
173	174	0.00	2	1.1	232	PASS
174	95	50	100	69.7	21045	PASS
175	174	5	9	7.8	1632	PASS
176	174	95	101	96.4	20288	PASS
177	176	5	9	7.6	1551	PASS

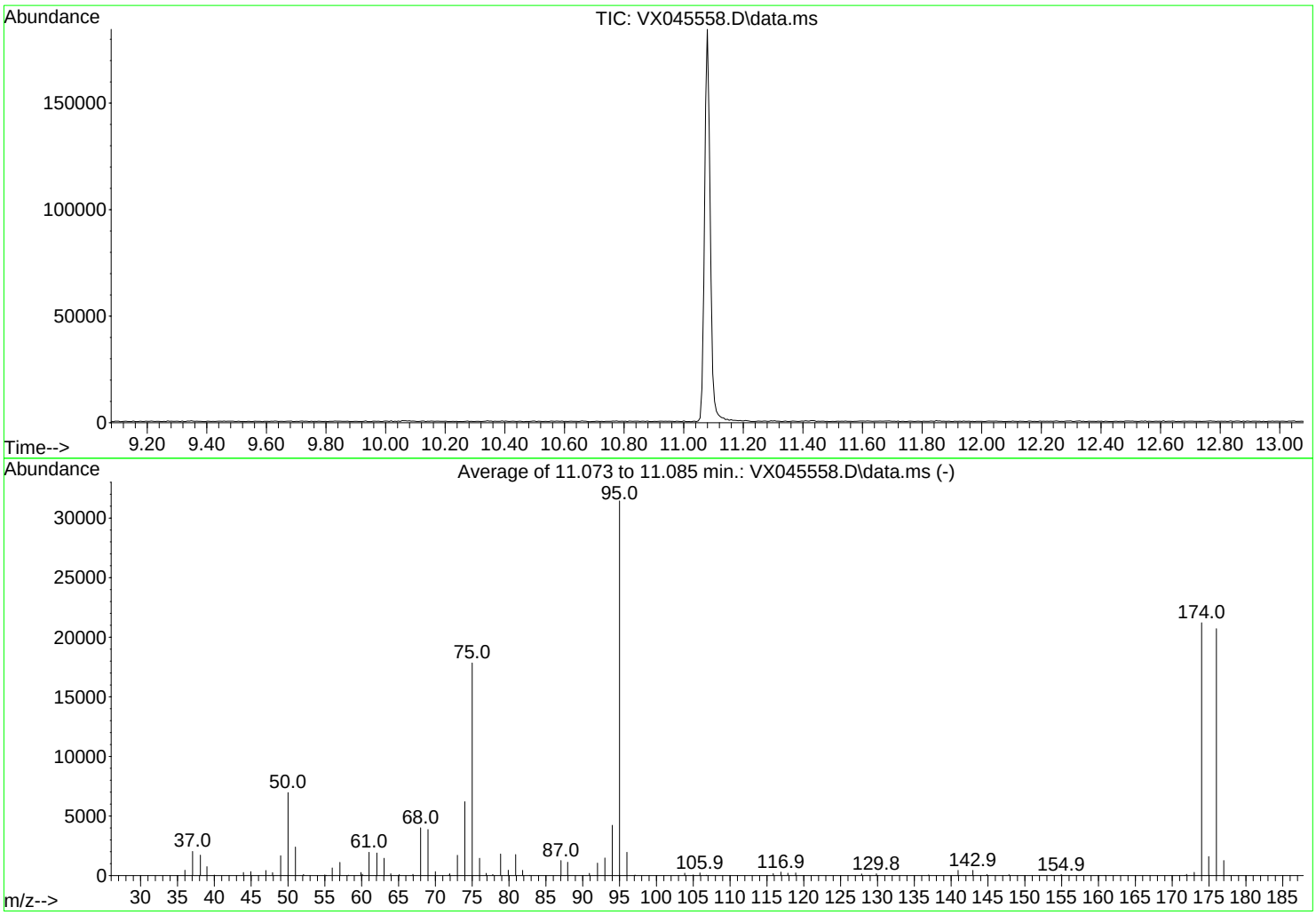
BFB

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040325\
Data File : VX045558.D
Acq On : 03 Apr 2025 10:01
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\82X040225W.M
Title : SW846 8260
Last Update : Wed Apr 02 03:11:43 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	22.2	6965	PASS
75	95	30	60	56.7	17840	PASS
95	95	100	100	100.0	31443	PASS
96	95	5	9	6.2	1961	PASS
173	174	0.00	2	1.3	271	PASS
174	95	50	100	67.5	21221	PASS
175	174	5	9	7.5	1598	PASS
176	174	95	101	97.6	20720	PASS
177	176	5	9	6.1	1260	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:	VX0402WBL01	SDG No.:	Q1697
Lab Sample ID:	VX0402WBL01	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
VX045536.D	1		04/02/25 10:53	VX040225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.26	U	0.26	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	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	0.19	U	0.19	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	1.00	ug/L
71-43-2	Benzene	0.15	U	0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	1.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.8		70 (74) - 130 (125)	104%	SPK: 50
1868-53-7	Dibromofluoromethane	51.0		70 (75) - 130 (124)	102%	SPK: 50
2037-26-5	Toluene-d8	49.5		70 (86) - 130 (113)	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.2		70 (77) - 130 (121)	98%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	64800	5.544			
540-36-3	1,4-Difluorobenzene	126000	6.757			
3114-55-4	Chlorobenzene-d5	113000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	48100	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

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045536.D
Acq On : 02 Apr 2025 10:53
Operator : JC/MD
Sample : VX0402WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0402WBL01

Quant Time: Apr 03 01:46:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	64793	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	125920	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	112849	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	48101	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	61387	51.808	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 103.620%			
35) Dibromofluoromethane	5.379	113	45556	50.992	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.980%			
50) Toluene-d8	8.647	98	154217	49.455	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 98.920%			
62) 4-Bromofluorobenzene	11.079	95	55894	49.209	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 98.420%			

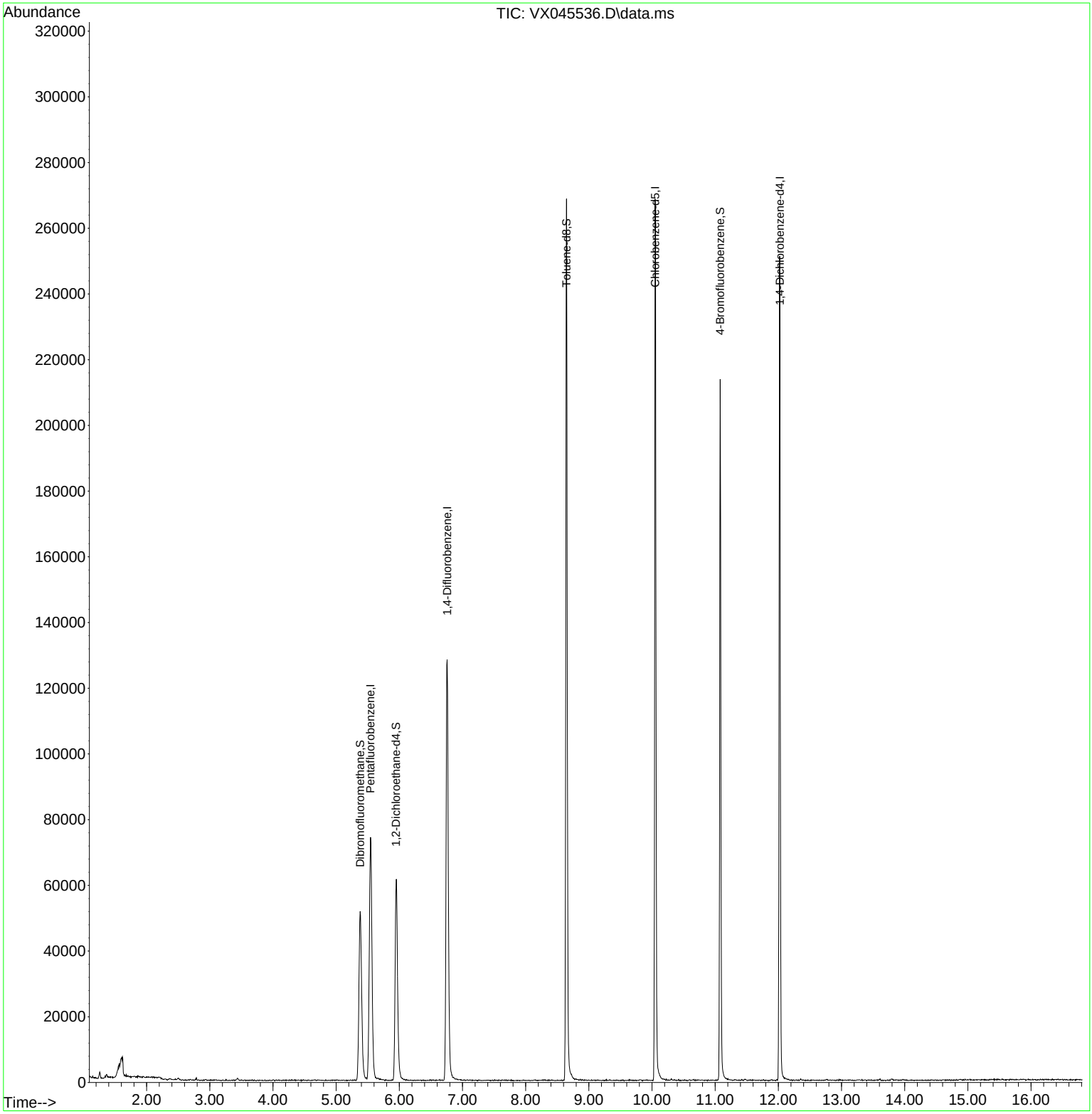
Target Compounds Qvalue

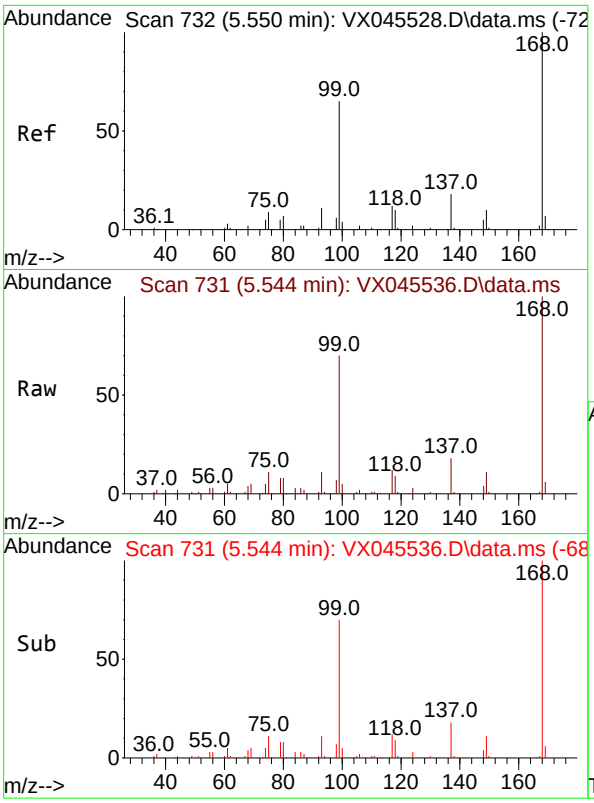
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045536.D
Acq On : 02 Apr 2025 10:53
Operator : JC/MD
Sample : VX0402WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0402WBL01

Quant Time: Apr 03 01:46:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration



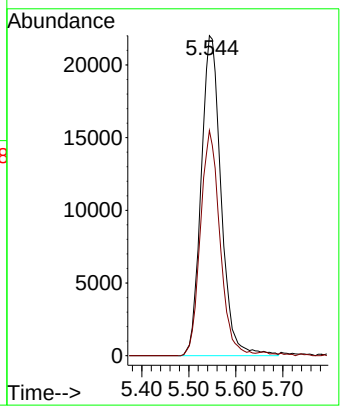


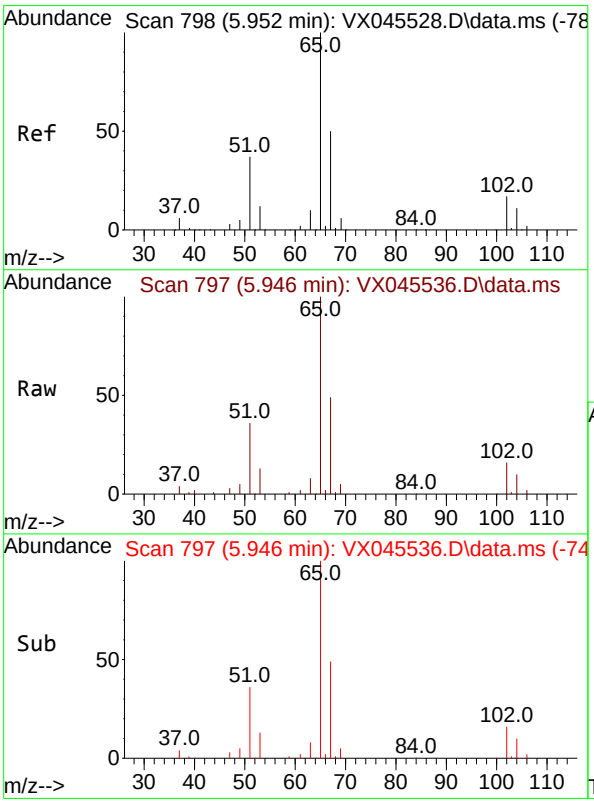
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045536.D
Acq: 02 Apr 2025 10:53

Instrument :
MSVOA_X
ClientSampleId :
VX0402WBL01

Tgt Ion:168 Resp: 64793

Ion	Ratio	Lower	Upper
168	100		
99	70.4	52.3	78.5

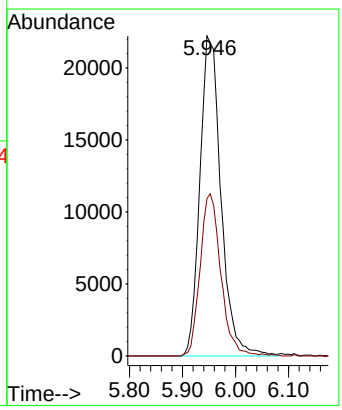


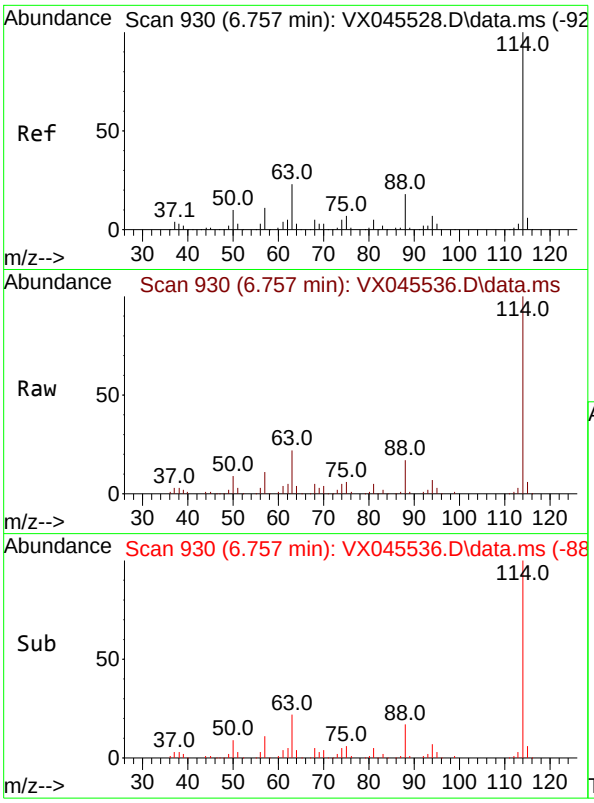


#33
1,2-Dichloroethane-d4
Concen: 51.808 ug/l
RT: 5.946 min Scan# 797
Delta R.T. -0.006 min
Lab File: VX045536.D
Acq: 02 Apr 2025 10:53

Tgt Ion: 65 Resp: 61387

Ion	Ratio	Lower	Upper
65	100		
67	49.9	0.0	99.0



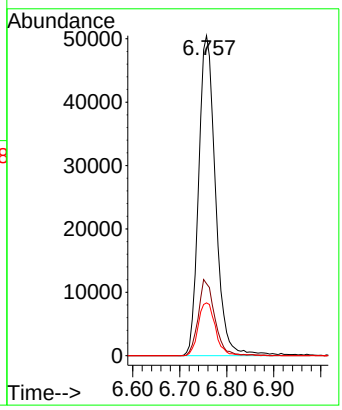


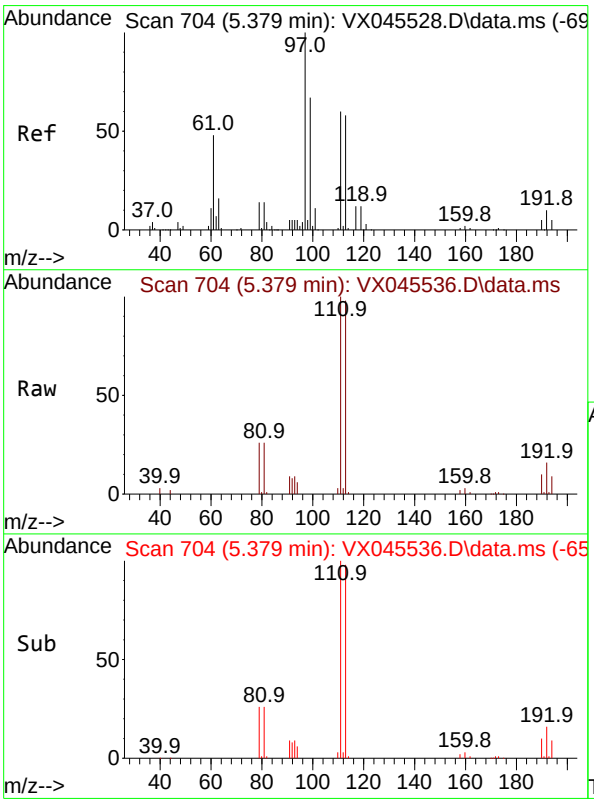
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 9
Delta R.T. 0.000 min
Lab File: VX045536.D
Acq: 02 Apr 2025 10:53

Instrument :
MSVOA_X
ClientSampleId :
VX0402WBL01

Tgt Ion:114 Resp: 125920

Ion	Ratio	Lower	Upper
114	100		
63	22.5	0.0	46.8
88	16.5	0.0	35.4

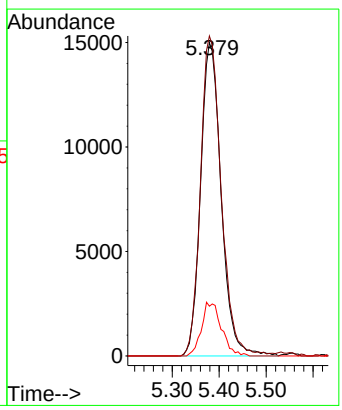


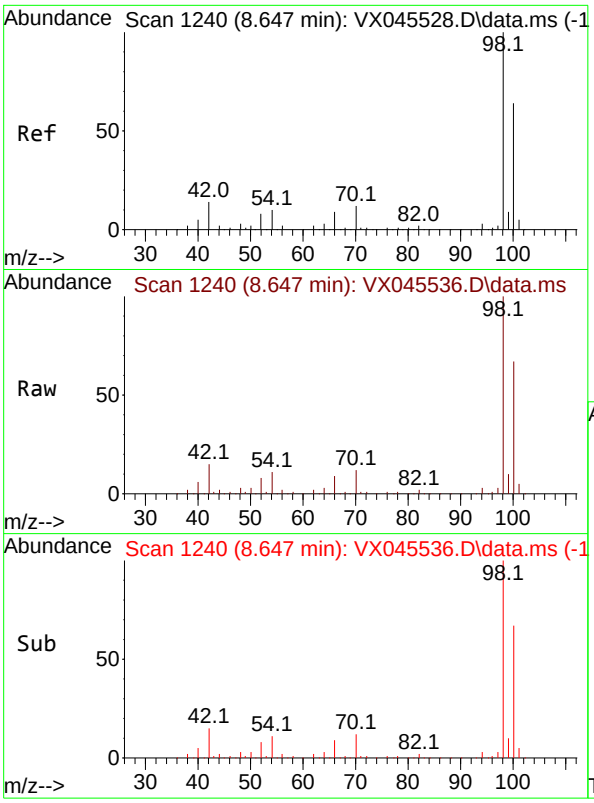


#35
Dibromofluoromethane
Concen: 50.992 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.000 min
Lab File: VX045536.D
Acq: 02 Apr 2025 10:53

Tgt Ion:113 Resp: 45556

Ion	Ratio	Lower	Upper
113	100		
111	103.1	81.8	122.6
192	16.6	13.8	20.6



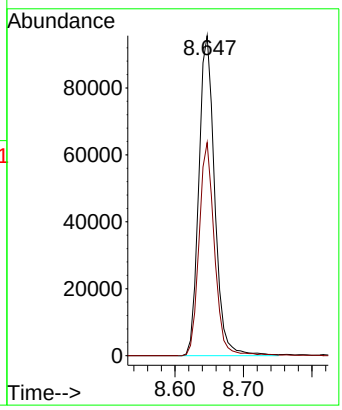


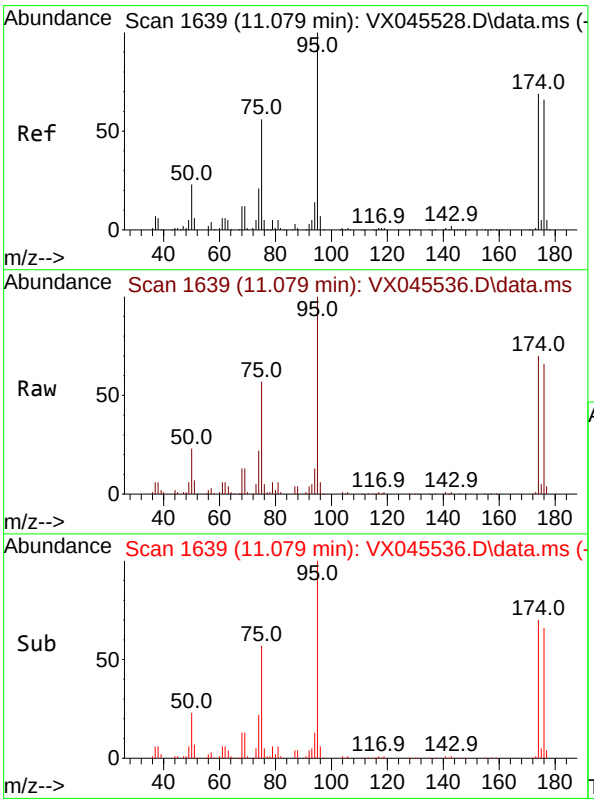
#50
Toluene-d8
Concen: 49.455 ug/l
RT: 8.647 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045536.D
Acq: 02 Apr 2025 10:53

Instrument :
MSVOA_X
ClientSampleId :
VX0402WBL01

Tgt Ion: 98 Resp: 154217

Ion	Ratio	Lower	Upper
98	100		
100	64.9	52.2	78.4

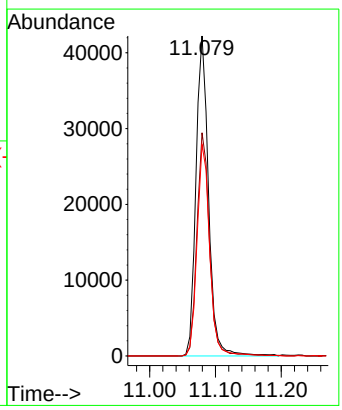


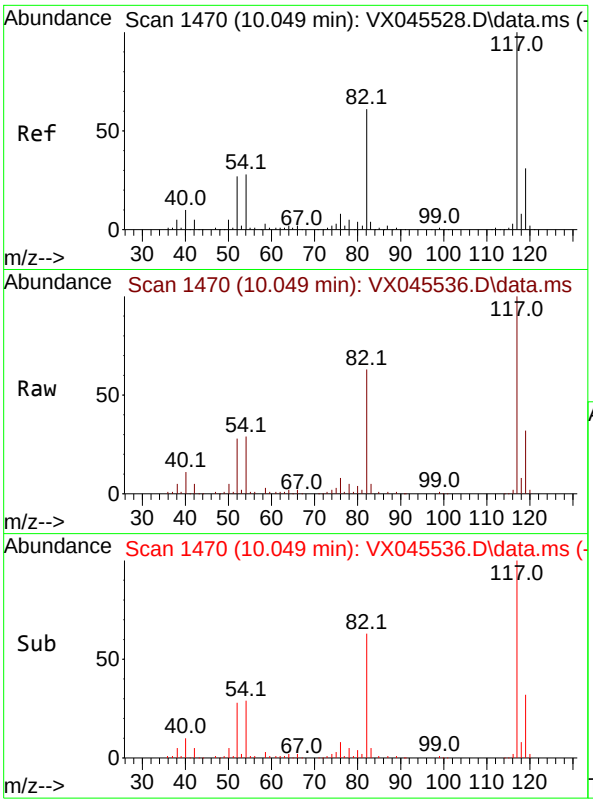


#62
4-Bromofluorobenzene
Concen: 49.209 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX045536.D
Acq: 02 Apr 2025 10:53

Tgt Ion: 95 Resp: 55894

Ion	Ratio	Lower	Upper
95	100		
174	70.0	0.0	135.8
176	66.4	0.0	131.4



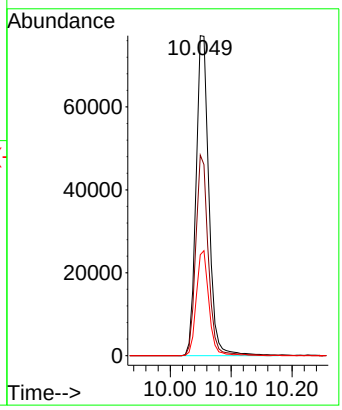


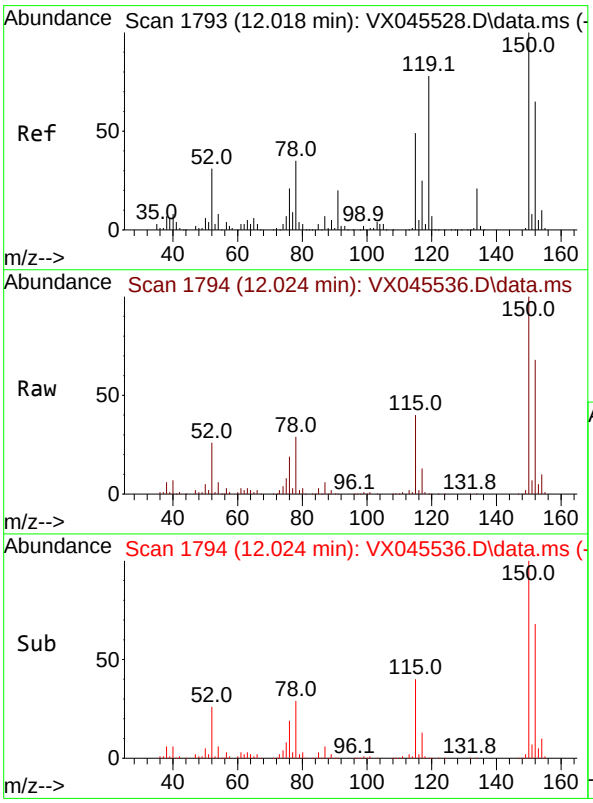
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX045536.D
Acq: 02 Apr 2025 10:53

Instrument :
MSVOA_X
ClientSampleId :
VX0402WBL01

Tgt Ion:117 Resp: 112849

Ion	Ratio	Lower	Upper
117	100		
82	62.7	49.2	73.8
119	31.5	25.1	37.7

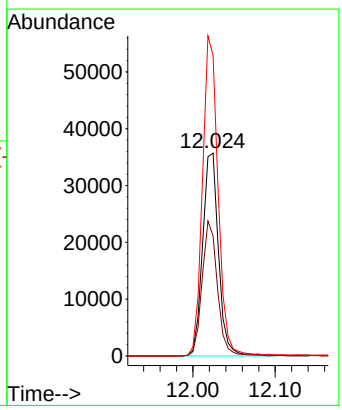




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.006 min
Lab File: VX045536.D
Acq: 02 Apr 2025 10:53

Tgt Ion:152 Resp: 48101

Ion	Ratio	Lower	Upper
152	100		
115	63.9	46.9	140.7
150	154.7	0.0	349.4



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:	VX0403WBL01	SDG No.:	Q1697
Lab Sample ID:	VX0403WBL01	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
VX045561.D	1		04/03/25 11:21	VX040325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.26	U	0.26	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	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	0.19	U	0.19	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	1.00	ug/L
71-43-2	Benzene	0.15	U	0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	1.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	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	52.6		70 (75) - 130 (124)	105%	SPK: 50
2037-26-5	Toluene-d8	50.9		70 (86) - 130 (113)	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.1		70 (77) - 130 (121)	102%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	66300	5.55			
540-36-3	1,4-Difluorobenzene	126000	6.757			
3114-55-4	Chlorobenzene-d5	119000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	50100	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

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040325\
Data File : VX045561.D
Acq On : 03 Apr 2025 11:21
Operator : JC/MD
Sample : VX0403WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0403WBL01

Quant Time: Apr 04 01:18:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	66309	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	126206	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	118586	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	50130	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	64511	53.200	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 106.400%			
35) Dibromofluoromethane	5.379	113	47062	52.558	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.120%			
50) Toluene-d8	8.647	98	159136	50.917	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.840%			
62) 4-Bromofluorobenzene	11.079	95	58224	51.144	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 102.280%			

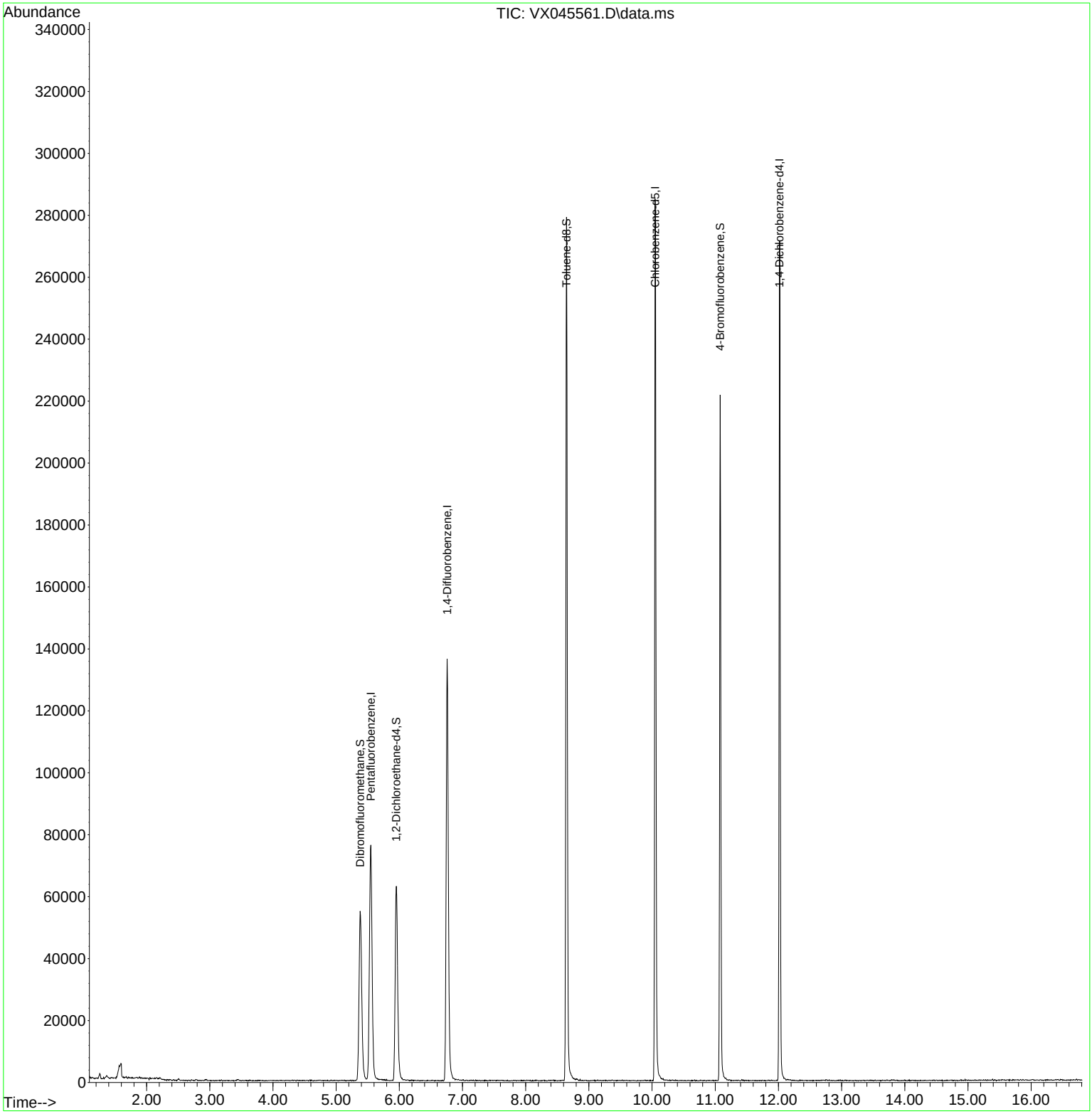
Target Compounds Qvalue

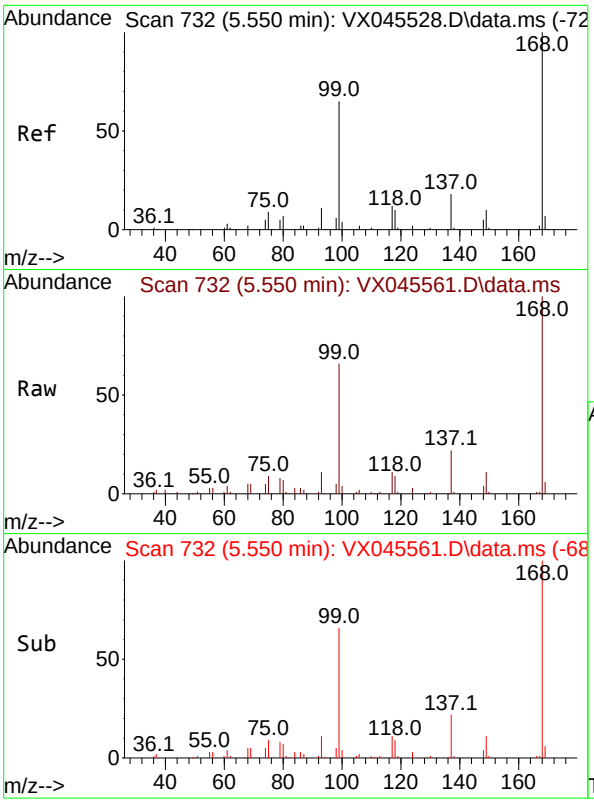
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040325\
Data File : VX045561.D
Acq On : 03 Apr 2025 11:21
Operator : JC/MD
Sample : VX0403WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0403WBL01

Quant Time: Apr 04 01:18:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration



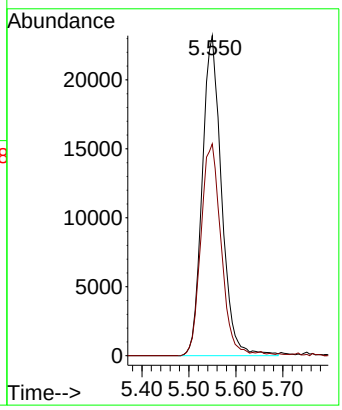


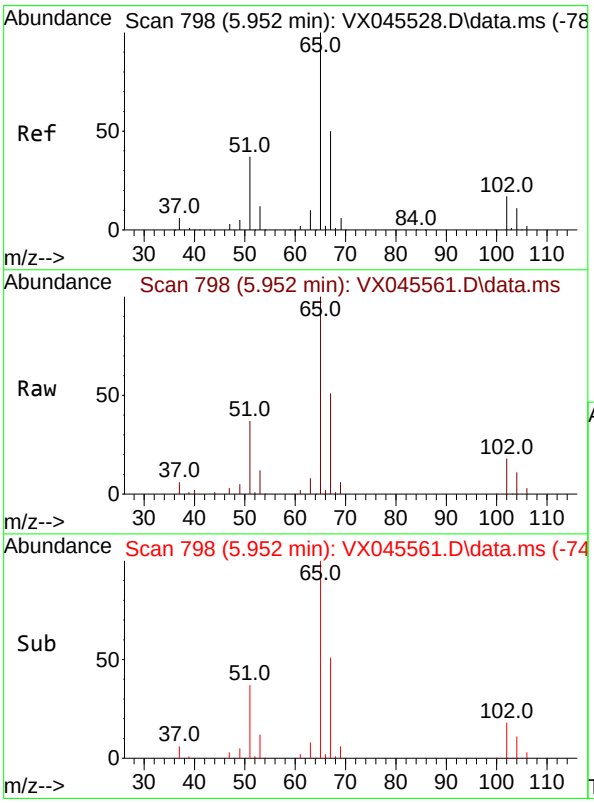
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045561.D
Acq: 03 Apr 2025 11:21

Instrument :
MSVOA_X
ClientSampleId :
VX0403WBL01

Tgt Ion:168 Resp: 66309

Ion	Ratio	Lower	Upper
168	100		
99	66.2	52.3	78.5

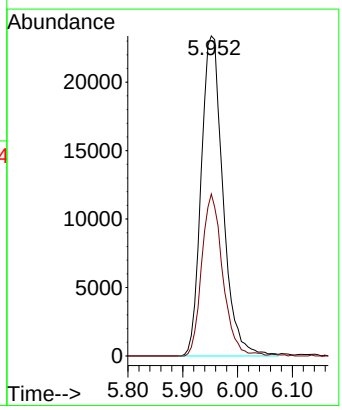


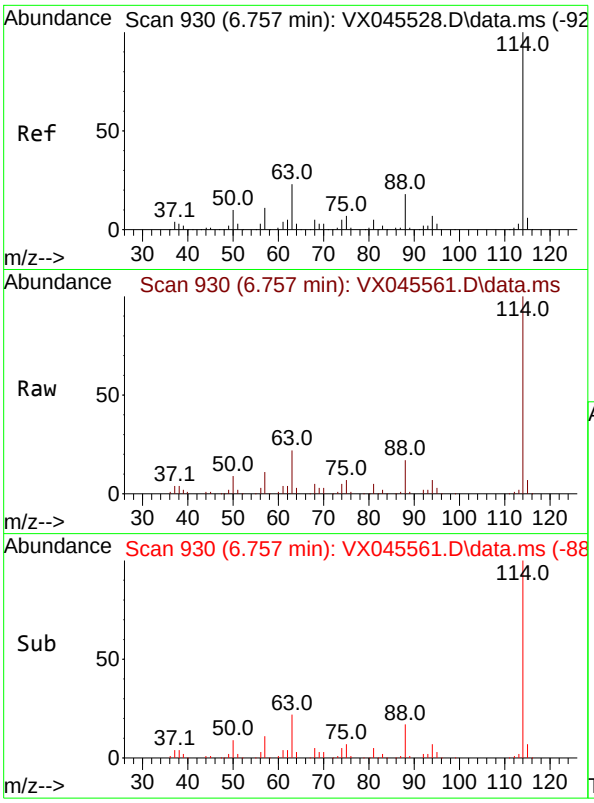


#33
1,2-Dichloroethane-d4
Concen: 53.200 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.000 min
Lab File: VX045561.D
Acq: 03 Apr 2025 11:21

Tgt Ion: 65 Resp: 64511

Ion	Ratio	Lower	Upper
65	100		
67	48.3	0.0	99.0



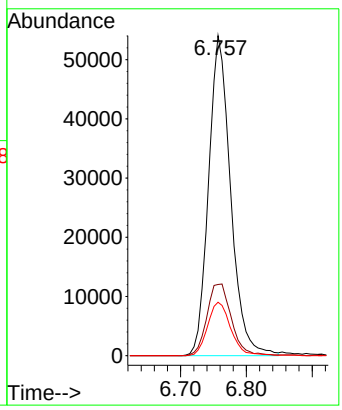


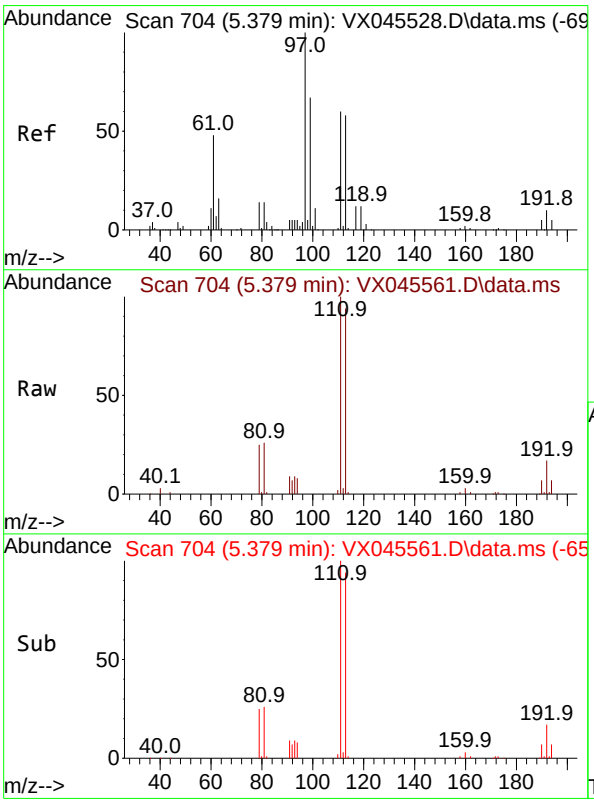
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 9
Delta R.T. -0.000 min
Lab File: VX045561.D
Acq: 03 Apr 2025 11:21

Instrument :
MSVOA_X
ClientSampleId :
VX0403WBL01

Tgt Ion:114 Resp: 126206

Ion	Ratio	Lower	Upper
114	100		
63	22.3	0.0	46.8
88	16.7	0.0	35.4

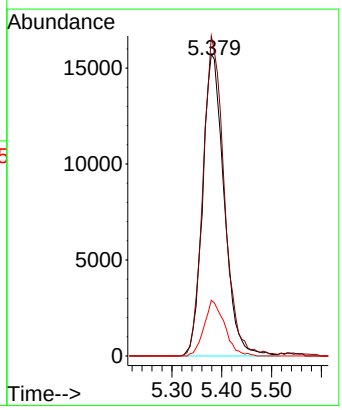


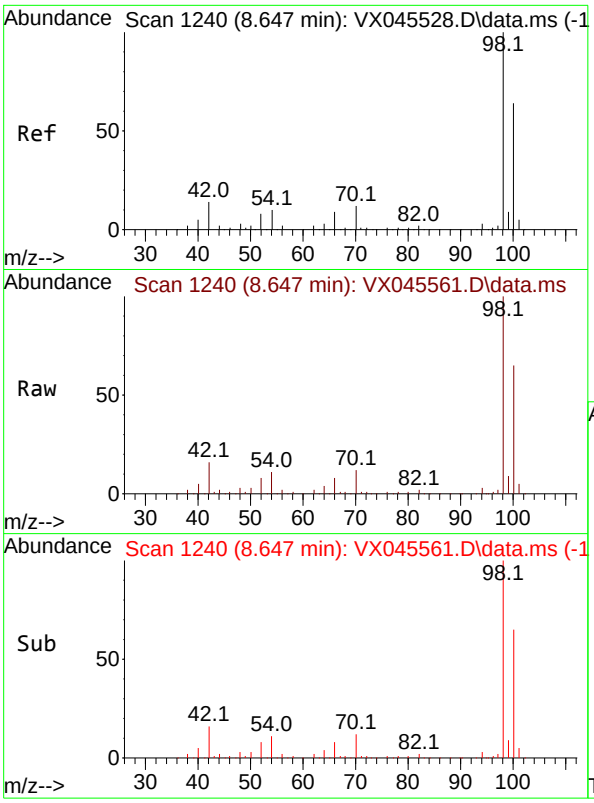


#35
Dibromofluoromethane
Concen: 52.558 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.000 min
Lab File: VX045561.D
Acq: 03 Apr 2025 11:21

Tgt Ion:113 Resp: 47062

Ion	Ratio	Lower	Upper
113	100		
111	105.0	81.8	122.6
192	17.6	13.8	20.6



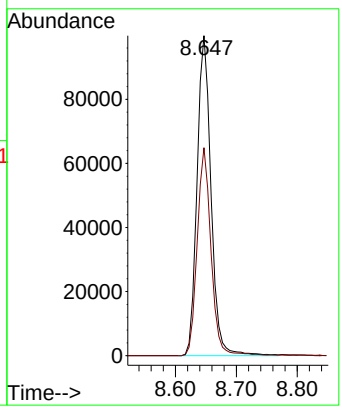


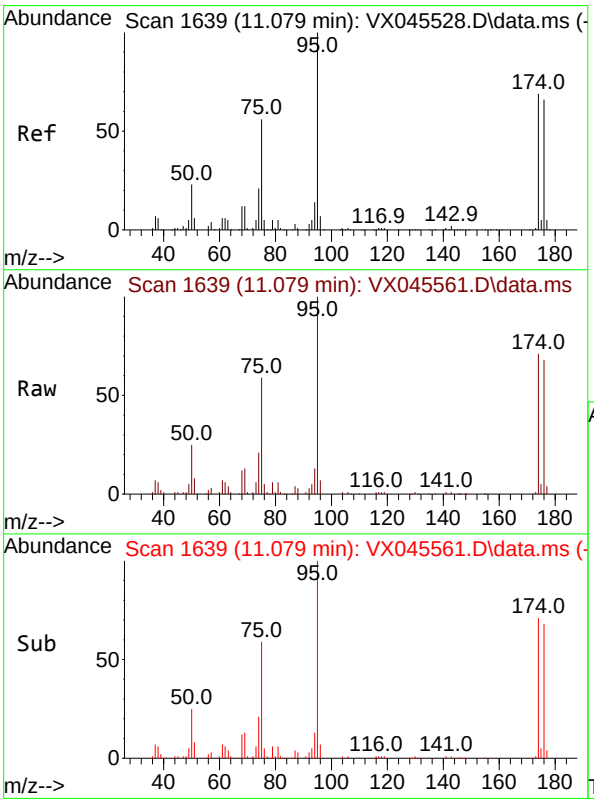
#50
Toluene-d8
Concen: 50.917 ug/l
RT: 8.647 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045561.D
Acq: 03 Apr 2025 11:21

Instrument :
MSVOA_X
ClientSampleId :
VX0403WBL01

Tgt Ion: 98 Resp: 159136

Ion	Ratio	Lower	Upper
98	100		
100	64.4	52.2	78.4

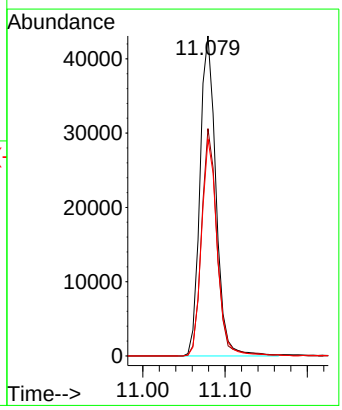


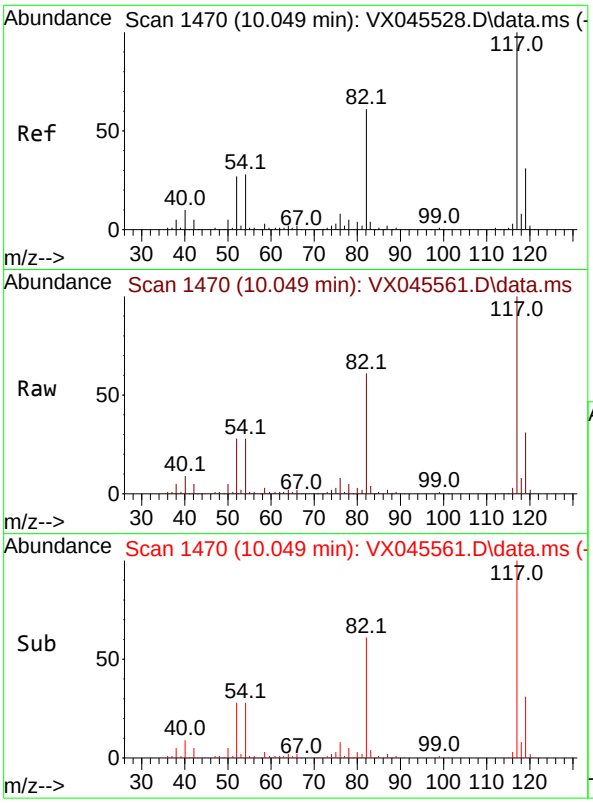


#62
4-Bromofluorobenzene
Concen: 51.144 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX045561.D
Acq: 03 Apr 2025 11:21

Tgt Ion: 95 Resp: 58224

Ion	Ratio	Lower	Upper
95	100		
174	68.5	0.0	135.8
176	66.6	0.0	131.4



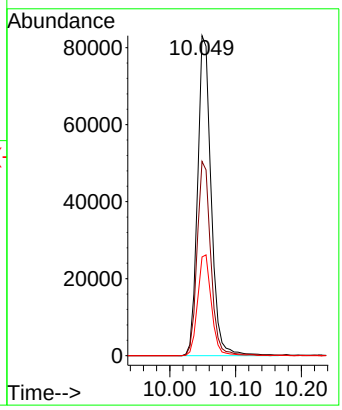


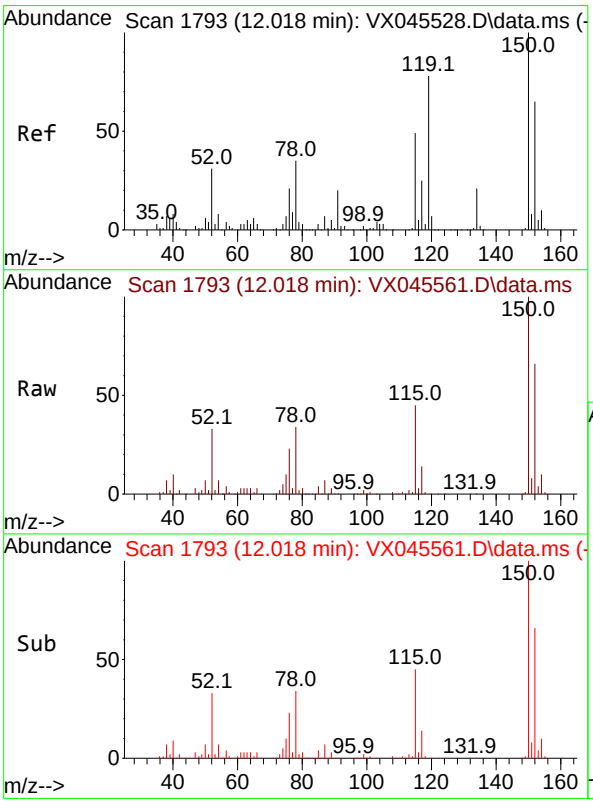
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX045561.D
Acq: 03 Apr 2025 11:21

Instrument :
MSVOA_X
ClientSampleId :
VX0403WBL01

Tgt Ion:117 Resp: 118586

Ion	Ratio	Lower	Upper
117	100		
82	60.7	49.2	73.8
119	30.8	25.1	37.7

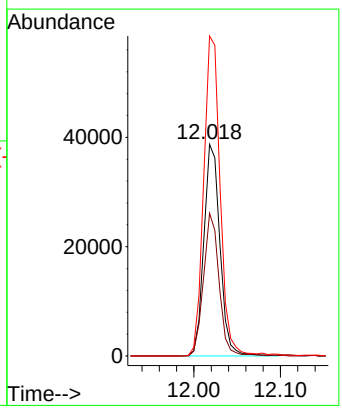




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX045561.D
Acq: 03 Apr 2025 11:21

Tgt Ion:152 Resp: 50130

Ion	Ratio	Lower	Upper
152	100		
115	65.0	46.9	140.7
150	155.1	0.0	349.4



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:	VX0402WBS01	SDG No.:	Q1697
Lab Sample ID:	VX0402WBS01	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
VX045537.D	1		04/02/25 11:16	VX040225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	18.4		0.26	1.00	ug/L
75-35-4	1,1-Dichloroethene	19.0		0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	18.7		0.23	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	18.7		0.19	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	18.5		0.20	1.00	ug/L
71-43-2	Benzene	18.5		0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	18.9		0.22	1.00	ug/L
79-01-6	Trichloroethene	18.7		0.090	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	19.2		0.21	1.00	ug/L
127-18-4	Tetrachloroethene	18.7		0.23	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.0		70 (74) - 130 (125)	100%	SPK: 50
1868-53-7	Dibromofluoromethane	50.1		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	49.3		70 (77) - 130 (121)	99%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	97200	5.55			
540-36-3	1,4-Difluorobenzene	173000	6.757			
3114-55-4	Chlorobenzene-d5	147000	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

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045537.D
Acq On : 02 Apr 2025 11:16
Operator : JC/MD
Sample : VX0402WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 03 01:47:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0402WBS01

Manual Integrations APPROVED
Reviewed By :John Carlone 04/03/2025
Supervised By :Mahesh Dadoda 04/03/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	97242	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	172610	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	147227	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	68695	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	88988	50.041	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 100.080%			
35) Dibromofluoromethane	5.379	113	61297	50.052	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.100%			
50) Toluene-d8	8.647	98	215754	50.474	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.940%			
62) 4-Bromofluorobenzene	11.079	95	76787	49.317	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 98.640%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	30012	20.637	ug/l	97
3) Chloromethane	1.307	50	28768	19.256	ug/l	99
4) Vinyl Chloride	1.374	62	25162	18.403	ug/l	100
5) Bromomethane	1.593	94	11745	18.117	ug/l	93
6) Chloroethane	1.666	64	14340	19.768	ug/l	97
7) Trichlorofluoromethane	1.874	101	38974	19.116	ug/l	98
8) Diethyl Ether	2.130	74	12323	18.003	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.319	101	23063	19.304	ug/l	98
10) Methyl Iodide	2.441	142	26957	18.090	ug/l	98
11) Tert butyl alcohol	2.977	59	23389	97.866	ug/l	99
12) 1,1-Dichloroethene	2.313	96	22131	18.958	ug/l	96
13) Acrolein	2.239	56	33508	101.815	ug/l	99
14) Allyl chloride	2.654	41	41709	18.830	ug/l	98
15) Acrylonitrile	3.062	53	72222	95.734	ug/l	98
16) Acetone	2.386	43	67054	91.827	ug/l	98
17) Carbon Disulfide	2.502	76	55332	19.191	ug/l	98
18) Methyl Acetate	2.703	43	31098	18.497	ug/l	100
19) Methyl tert-butyl Ether	3.117	73	75445	18.475	ug/l	100
20) Methylene Chloride	2.782	84	25698	18.798	ug/l	96
21) trans-1,2-Dichloroethene	3.081	96	22242	18.649	ug/l	98
22) Diisopropyl ether	3.764	45	81271	18.627	ug/l	96
23) Vinyl Acetate	3.721	43	360627	95.663	ug/l	99
24) 1,1-Dichloroethane	3.605	63	46123	18.692	ug/l	99
25) 2-Butanone	4.556	43	104257	97.537	ug/l	98
26) 2,2-Dichloropropane	4.471	77	32811	20.581	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	27165	18.696	ug/l	99
28) Bromochloromethane	4.891	49	23290	19.532	ug/l	100
29) Tetrahydrofuran	5.007	42	65001	93.797	ug/l	99
30) Chloroform	5.087	83	47193	18.587	ug/l	97
31) Cyclohexane	5.464	56	41300	18.932	ug/l	98
32) 1,1,1-Trichloroethane	5.379	97	39809	18.529	ug/l	98
36) 1,1-Dichloropropene	5.684	75	29591	17.895	ug/l	98
37) Ethyl Acetate	4.715	43	37975	18.224	ug/l	99
38) Carbon Tetrachloride	5.672	117	34486	19.297	ug/l	94
39) Methylcyclohexane	7.379	83	38723	19.104	ug/l	97
40) Benzene	6.031	78	93643	18.543	ug/l	99

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045537.D
Acq On : 02 Apr 2025 11:16
Operator : JC/MD
Sample : VX0402WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 03 01:47:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0402WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 04/03/2025
Supervised By :Mahesh Dadoda 04/03/2025

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
41) Methacrylonitrile	4.922	41	21891	19.910 ug/l		99
42) 1,2-Dichloroethane	6.080	62	39443	18.910 ug/l		99
43) Isopropyl Acetate	6.342	43	59700	18.903 ug/l		99
44) Trichloroethene	7.129	130	22396	18.658 ug/l		97
45) 1,2-Dichloropropane	7.434	63	23222	18.430 ug/l		96
46) Dibromomethane	7.580	93	18331	18.951 ug/l		99
47) Bromodichloromethane	7.818	83	36461	18.875 ug/l		95
48) Methyl methacrylate	7.696	41	31163	19.110 ug/l		99
49) 1,4-Dioxane	7.659	88	12392	420.019 ug/l		98
51) 4-Methyl-2-Pentanone	8.574	43	208518	99.593 ug/l		100
52) Toluene	8.714	92	57194	18.716 ug/l		99
53) t-1,3-Dichloropropene	8.976	75	29950	17.674 ug/l		98
54) cis-1,3-Dichloropropene	8.366	75	34792	19.166 ug/l		97
55) 1,1,2-Trichloroethane	9.153	97	23430	19.241 ug/l		97
56) Ethyl methacrylate	9.116	69	35277	18.719 ug/l		98
57) 1,3-Dichloropropane	9.305	76	39879	18.807 ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	95822	100.512 ug/l		100
59) 2-Hexanone	9.427	43	154852	99.877 ug/l		100
60) Dibromochloromethane	9.519	129	25360	19.103 ug/l		95
61) 1,2-Dibromoethane	9.610	107	23060	18.707 ug/l		99
64) Tetrachloroethene	9.269	164	19432	18.694 ug/l		99
65) Chlorobenzene	10.079	112	60956	19.376 ug/l		98
66) 1,1,1,2-Tetrachloroethane	10.159	131	20450	18.723 ug/l		99
67) Ethyl Benzene	10.189	91	109555	19.444 ug/l		99
68) m/p-Xylenes	10.299	106	80731	39.394 ug/l		99
69) o-Xylene	10.640	106	40422	20.023 ug/l		97
70) Styrene	10.653	104	65225	19.575 ug/l		99
71) Bromoform	10.799	173	15907	19.505 ug/l	#	98
73) Isopropylbenzene	10.963	105	103888	18.880 ug/l		98
74) N-amyl acetate	10.842	43	50789	19.296 ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.207	83	37135	19.211 ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	30527m	18.218 ug/l		
77) Bromobenzene	11.195	156	23634	18.589 ug/l		98
78) n-propylbenzene	11.305	91	119031	18.780 ug/l		98
79) 2-Chlorotoluene	11.366	91	76310	18.833 ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	89596	19.691 ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	8792	17.808 ug/l		94
82) 4-Chlorotoluene	11.451	91	84294	18.659 ug/l		98
83) tert-Butylbenzene	11.713	119	86073	19.107 ug/l		98
84) 1,2,4-Trimethylbenzene	11.750	105	87116	19.076 ug/l		98
85) sec-Butylbenzene	11.890	105	107620	19.451 ug/l		100
86) p-Isopropyltoluene	12.006	119	87600	19.204 ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	43044	18.599 ug/l		98
88) 1,4-Dichlorobenzene	12.043	146	43463	18.525 ug/l		97
89) n-Butylbenzene	12.329	91	75339	19.046 ug/l		99
90) Hexachloroethane	12.536	117	14765	18.834 ug/l		98
91) 1,2-Dichlorobenzene	12.335	146	45113	19.607 ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.939	75	8192	20.265 ug/l		99
93) 1,2,4-Trichlorobenzene	13.585	180	23961	18.708 ug/l		99
94) Hexachlorobutadiene	13.719	225	10855	19.669 ug/l		98
95) Naphthalene	13.774	128	89869	18.856 ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	24874	18.547 ug/l		98

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045537.D
Acq On : 02 Apr 2025 11:16
Operator : JC/MD
Sample : VX0402WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 03 01:47:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0402WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 04/03/2025
Supervised By :Mahesh Dadoda 04/03/2025

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

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

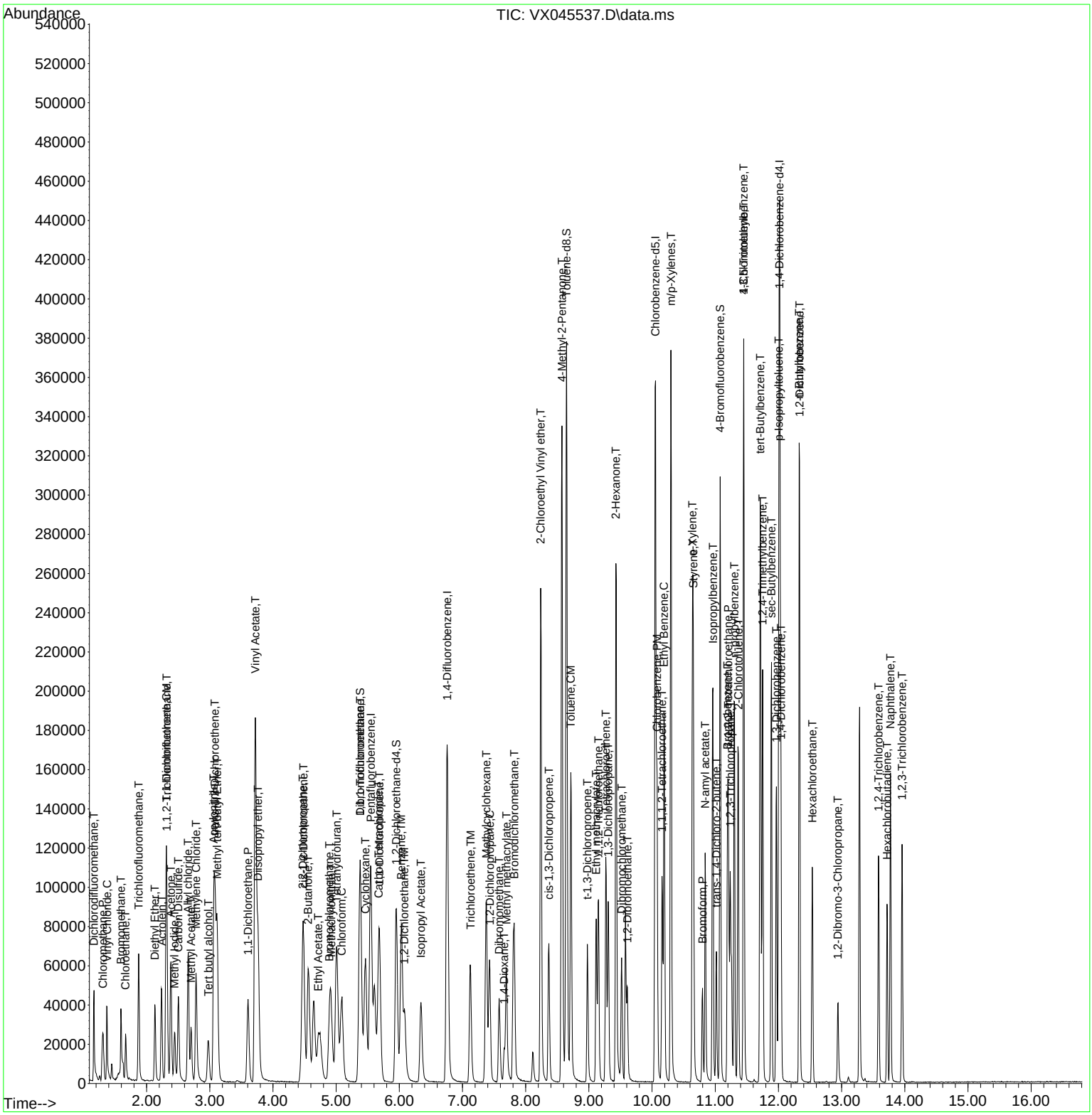
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045537.D
Acq On : 02 Apr 2025 11:16
Operator : JC/MD
Sample : VX0402WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

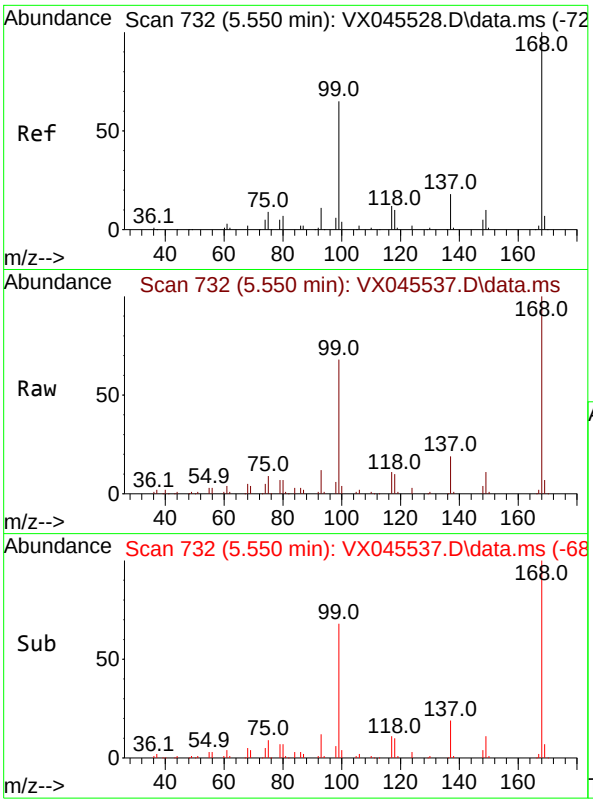
Quant Time: Apr 03 01:47:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0402WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 04/03/2025
Supervised By :Mahesh Dadoda 04/03/2025

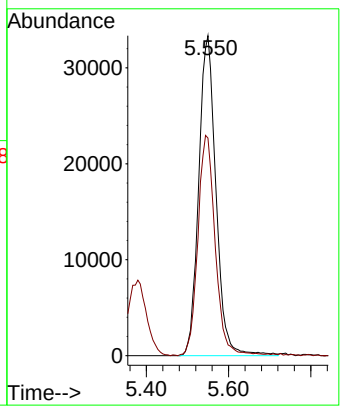




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion:168 Resp: 9724

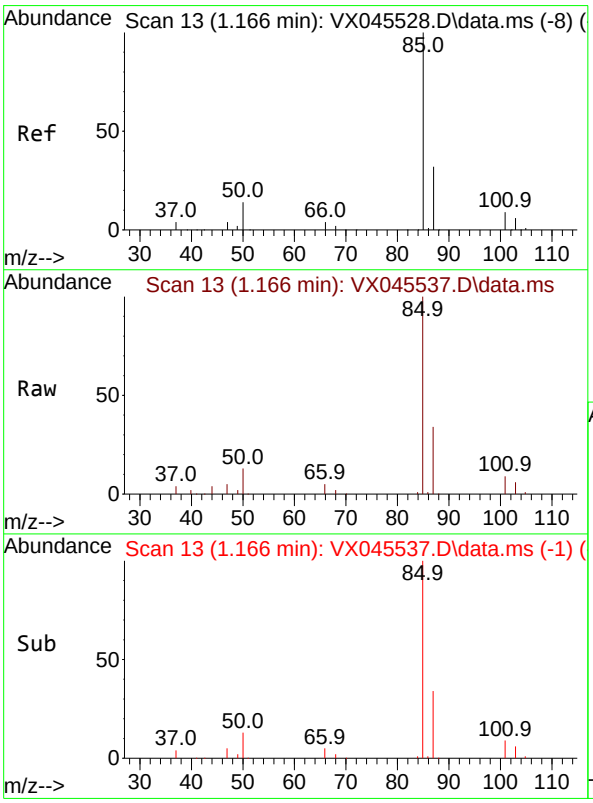
Ion	Ratio	Lower	Upper
168	100		
99	68.0	52.3	78.5



Instrument :
MSVOA_X
ClientSampleId :
VX0402WBS01

Manual Integrations
APPROVED

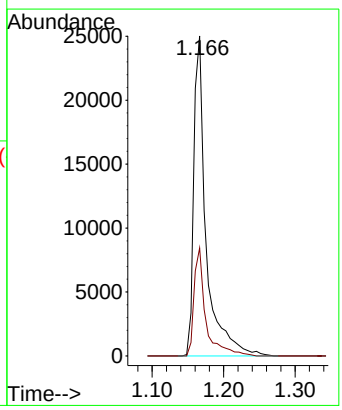
Reviewed By :John Carlone 04/03/2025
Supervised By :Mahesh Dadoda 04/03/2025

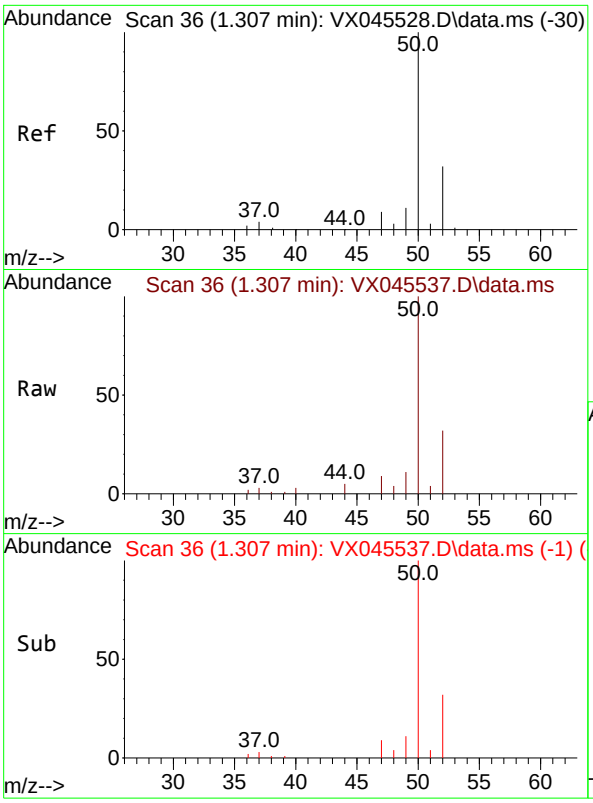


#2
Dichlorodifluoromethane
Concen: 20.637 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion: 85 Resp: 30012

Ion	Ratio	Lower	Upper
85	100		
87	33.8	16.1	48.2

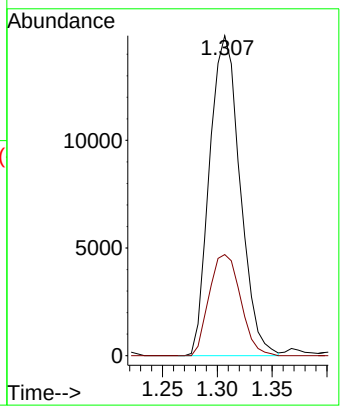




#3
Chloromethane
Concen: 19.256 ug/l
RT: 1.307 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion: 50 Resp: 2876

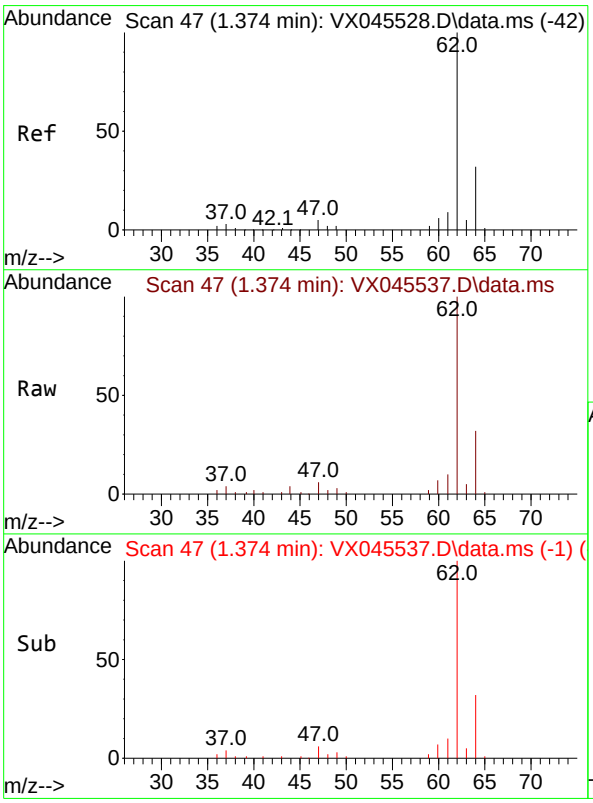
Ion	Ratio	Lower	Upper
50	100		
52	31.6	25.9	38.9



Instrument :
MSVOA_X
ClientSampleId :
VX0402WBS01

Manual Integrations
APPROVED

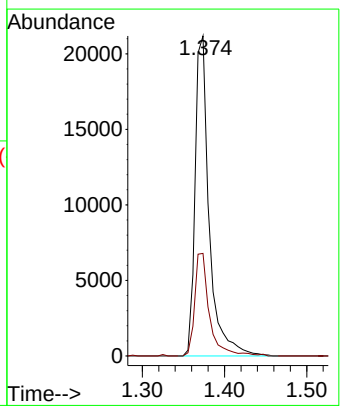
Reviewed By :John Carlone 04/03/2025
Supervised By :Mahesh Dadoda 04/03/2025

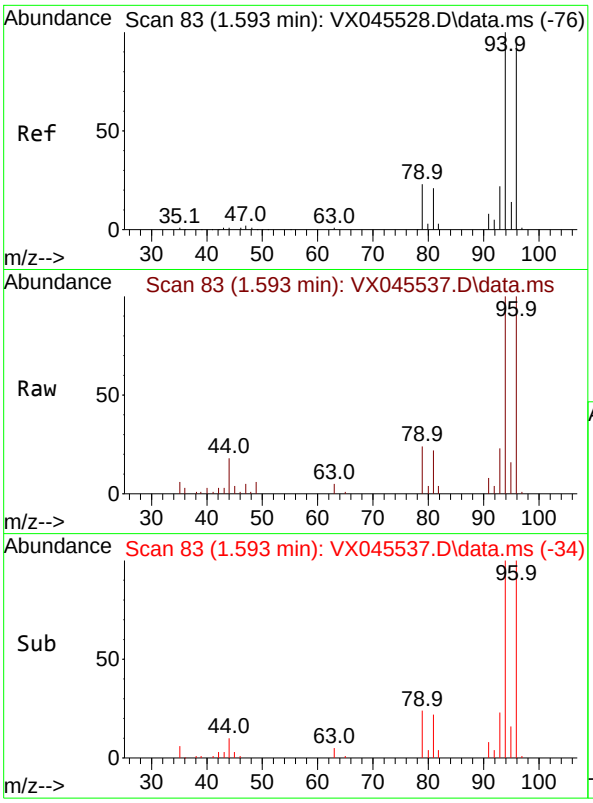


#4
Vinyl Chloride
Concen: 18.403 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion: 62 Resp: 25162

Ion	Ratio	Lower	Upper
62	100		
64	32.0	25.5	38.3

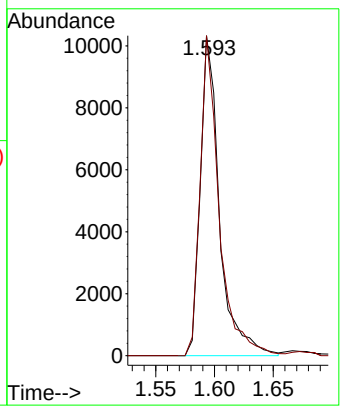




#5
Bromomethane
Concen: 18.117 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion: 94 Resp: 1174

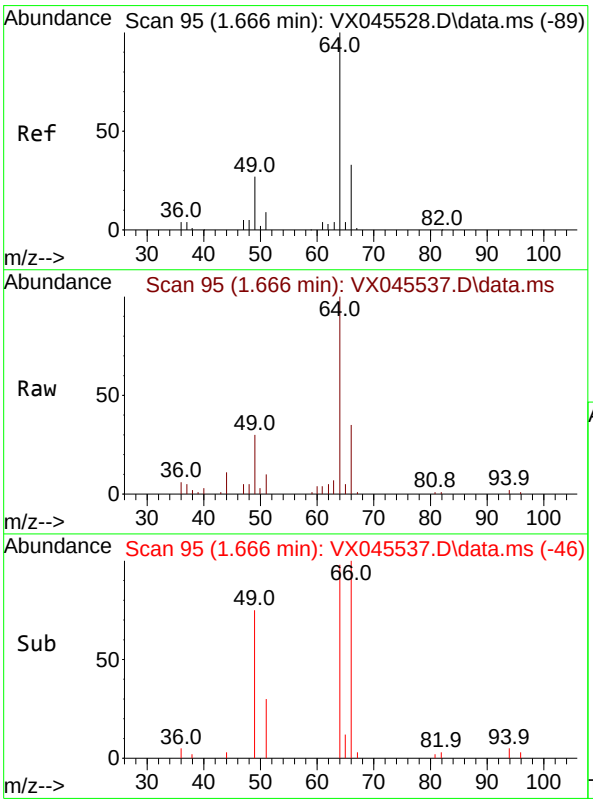
Ion	Ratio	Lower	Upper
94	100		
96	100.0	74.8	112.2



Instrument :
MSVOA_X
ClientSampleId :
VX0402WBS01

Manual Integrations
APPROVED

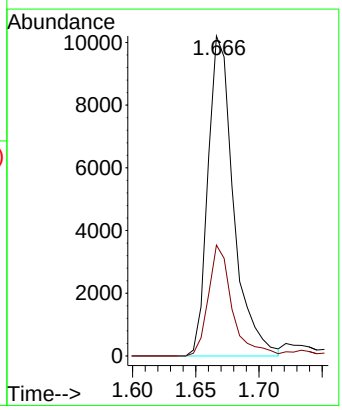
Reviewed By :John Carlone 04/03/2025
Supervised By :Mahesh Dadoda 04/03/2025

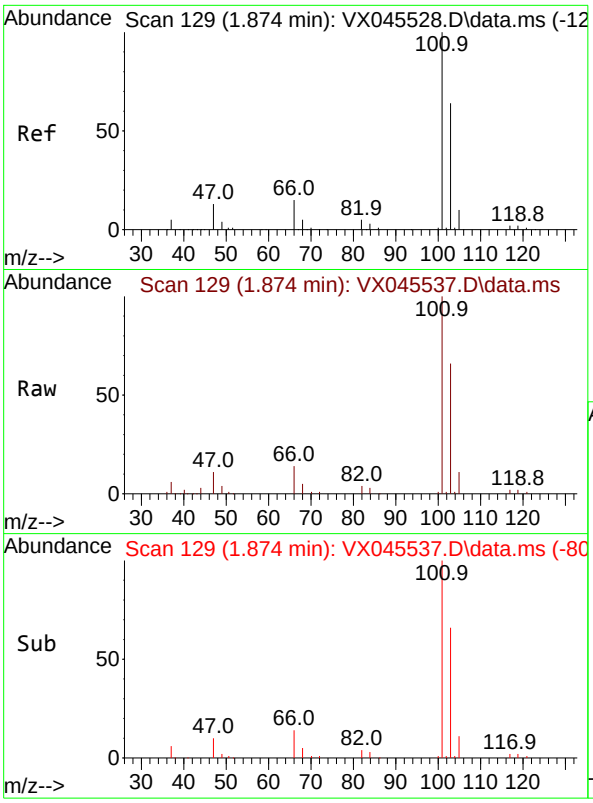


#6
Chloroethane
Concen: 19.768 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.000 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion: 64 Resp: 14340

Ion	Ratio	Lower	Upper
64	100		
66	34.7	26.3	39.5

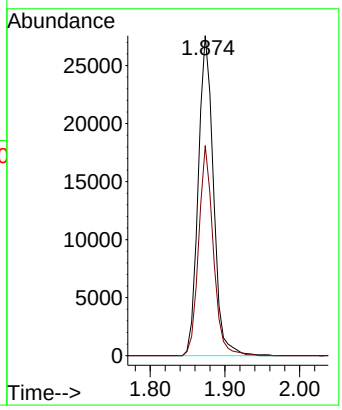




#7
Trichlorofluoromethane
Concen: 19.116 ug/l
RT: 1.874 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion:101 Resp: 3897

Ion	Ratio	Lower	Upper
101	100		
103	65.7	51.1	76.7



Instrument :
MSVOA_X
ClientSampleId :
VX0402WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/03/2025
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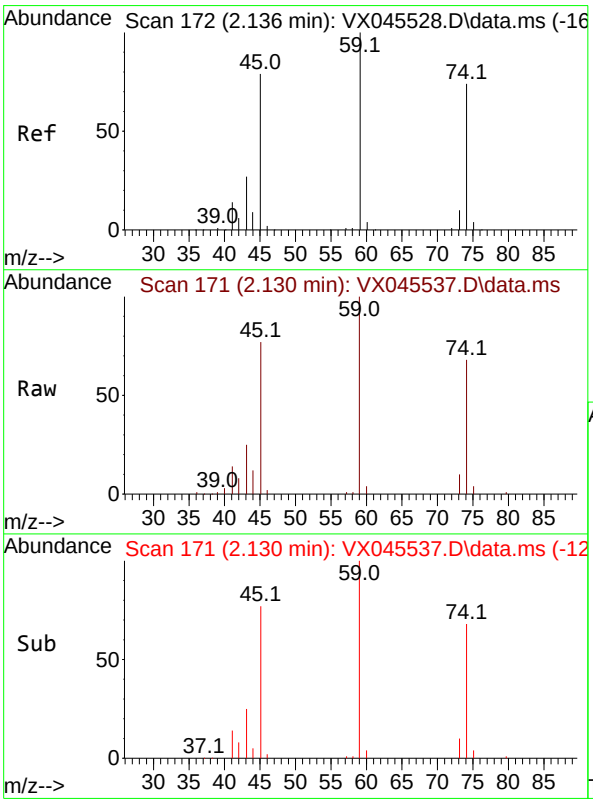
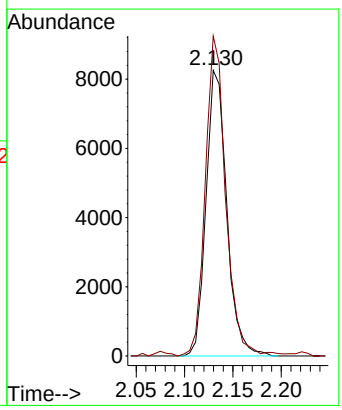
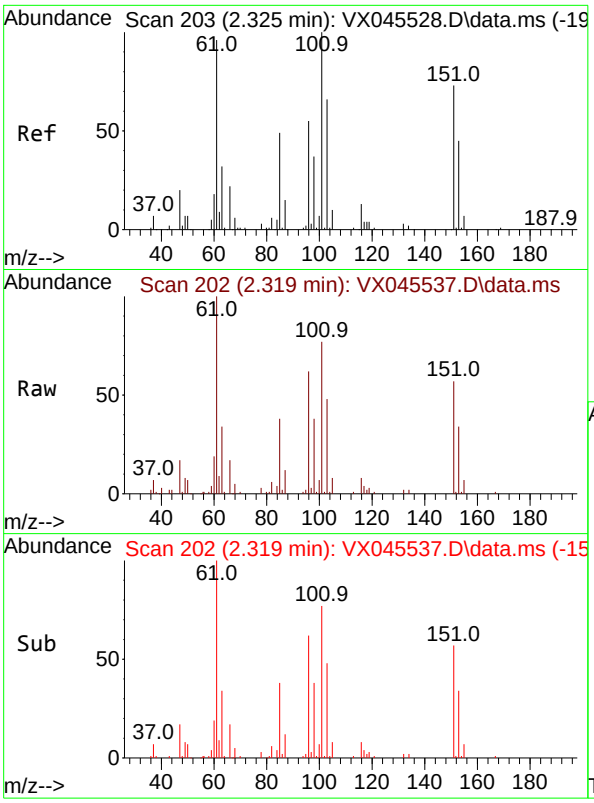


#8
Diethyl Ether
Concen: 18.003 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion: 74 Resp: 12323

Ion	Ratio	Lower	Upper
74	100		
45	110.2	53.0	159.1

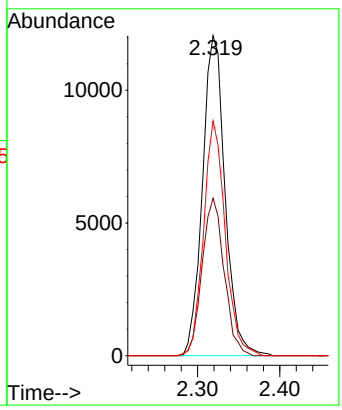




#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.304 ug/l
RT: 2.319 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion:101 Resp: 2306

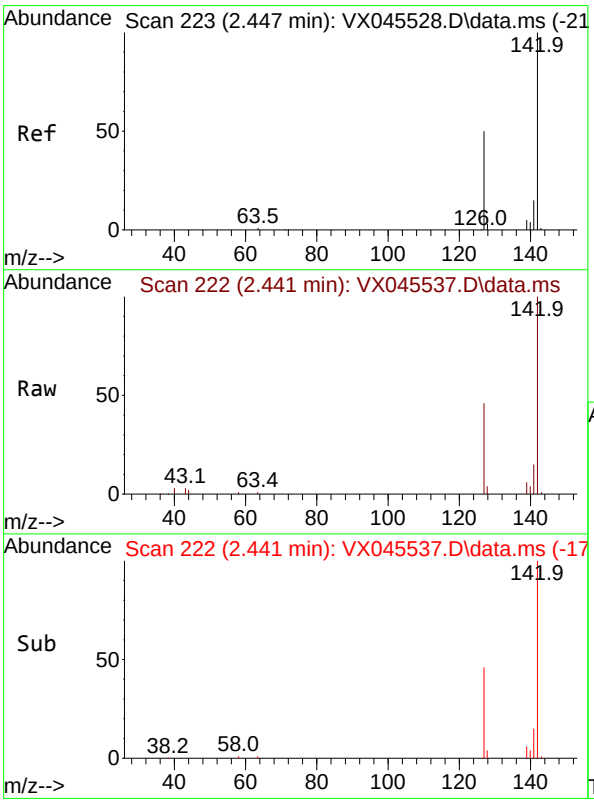
Ion	Ratio	Lower	Upper
101	100		
85	48.0	38.9	58.3
151	70.2	57.5	86.3



Instrument :
MSVOA_X
ClientSampleId :
VX0402WBS01

Manual Integrations
APPROVED

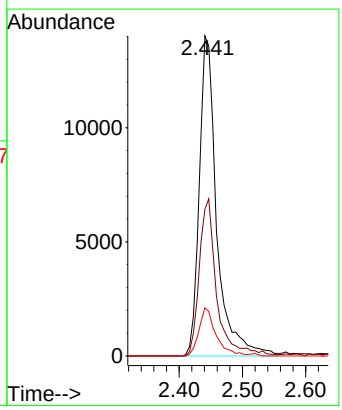
Reviewed By :John Carlone 04/03/2025
Supervised By :Mahesh Dadoda 04/03/2025

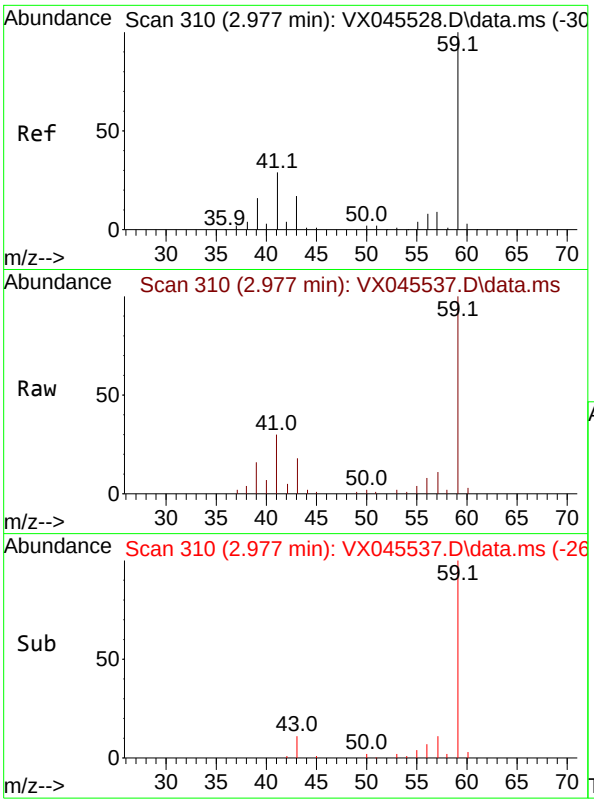


#10
Methyl Iodide
Concen: 18.090 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.006 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion:142 Resp: 26957

Ion	Ratio	Lower	Upper
142	100		
127	48.8	40.2	60.4
141	14.7	11.7	17.5





#11
Tert butyl alcohol
Concen: 97.866 ug/l
RT: 2.977 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion: 59 Resp: 2338

Ion	Ratio	Lower	Upper
59	100		
57	10.9	8.6	12.8

Instrument :
MSVOA_X
ClientSampleId :
VX0402WBS01

Manual Integrations
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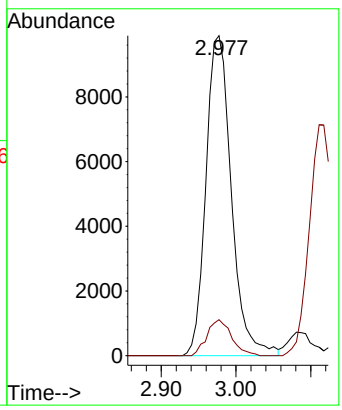
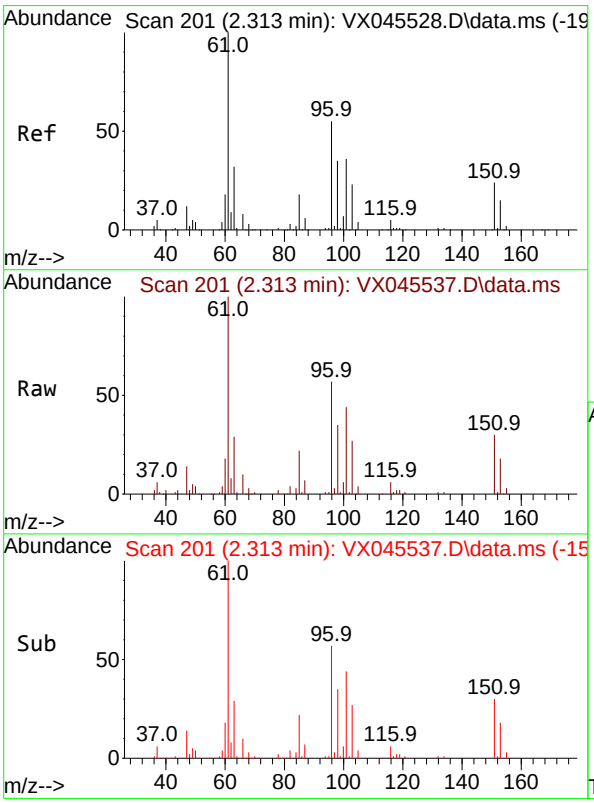
Reviewed By :John Carlone 04/03/2025
Supervised By :Mahesh Dadoda 04/03/2025

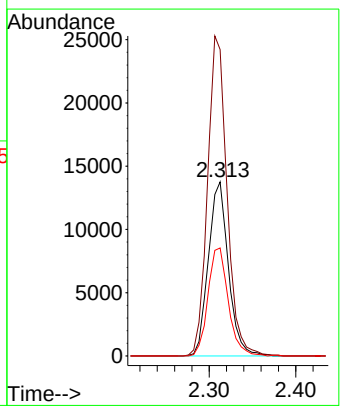


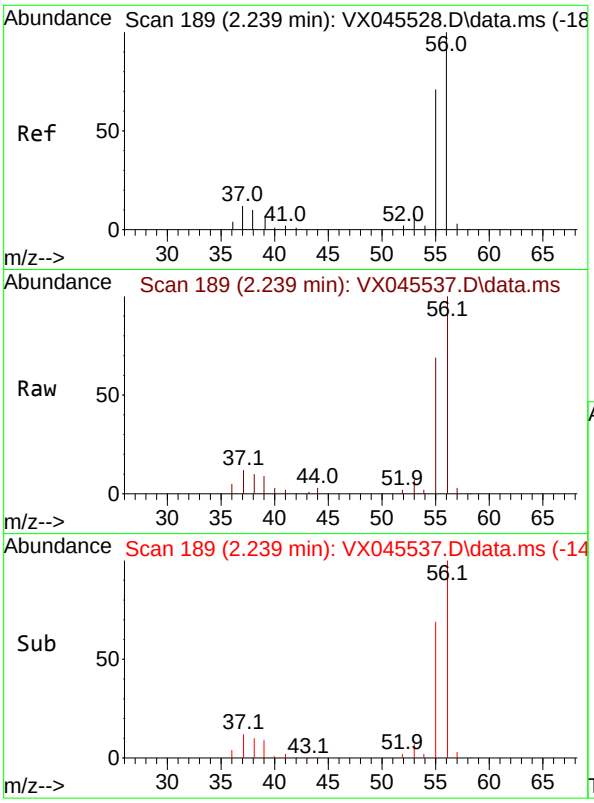


#12
1,1-Dichloroethene
Concen: 18.958 ug/l
RT: 2.313 min Scan# 201
Delta R.T. 0.000 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion: 96 Resp: 22131

Ion	Ratio	Lower	Upper
96	100		
61	175.9	145.7	218.5
98	62.0	51.6	77.4

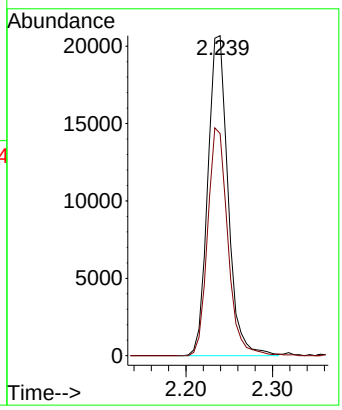




#13
Acrolein
Concen: 101.815 ug/l
RT: 2.239 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion: 56 Resp: 3350

Ion	Ratio	Lower	Upper
56	100		
55	71.1	56.2	84.2



Instrument :
MSVOA_X
ClientSampleId :
VX0402WBS01

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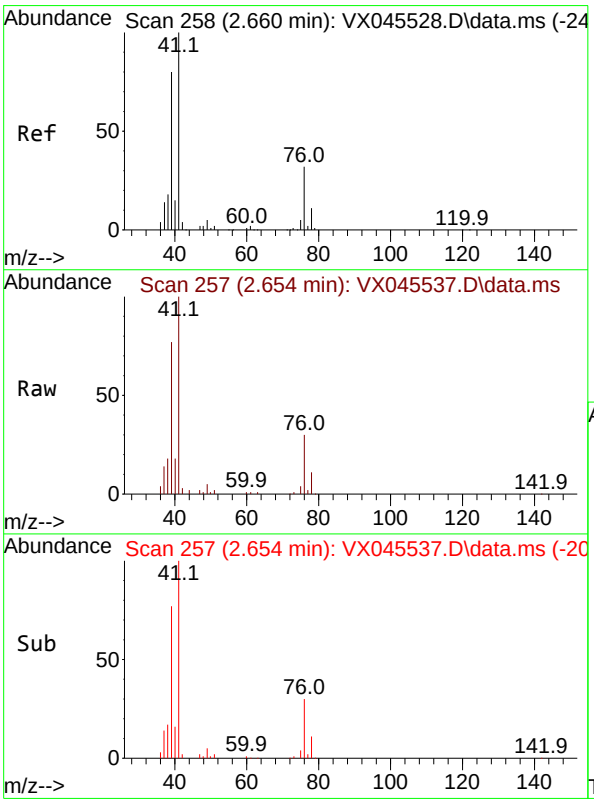
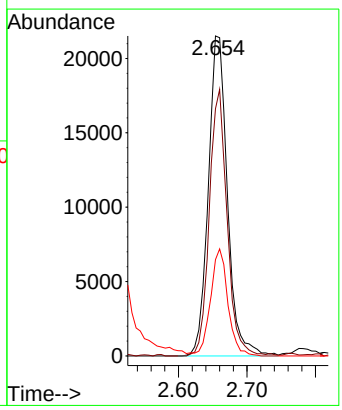
Reviewed By :John Carlone 04/03/2025
Supervised By :Mahesh Dadoda 04/03/2025

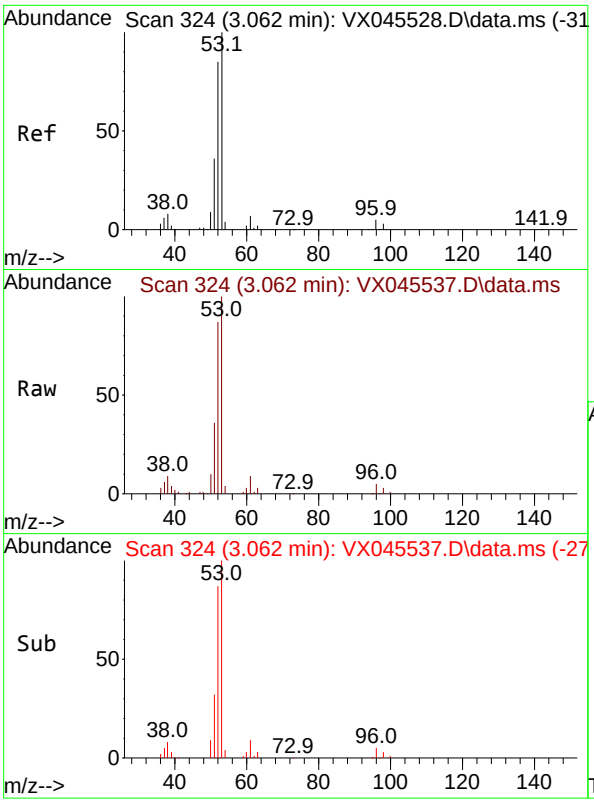


#14
Allyl chloride
Concen: 18.830 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.006 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion: 41 Resp: 41709

Ion	Ratio	Lower	Upper
41	100		
39	77.3	60.2	90.2
76	30.3	24.6	36.8

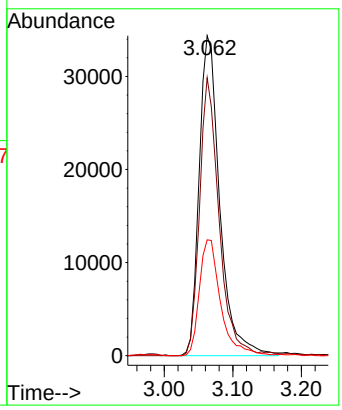




#15
Acrylonitrile
Concen: 95.734 ug/l
RT: 3.062 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion: 53 Resp: 7222

Ion	Ratio	Lower	Upper
53	100		
52	82.2	67.4	101.2
51	37.3	29.9	44.9



Instrument :
MSVOA_X
ClientSampleId :
VX0402WBS01

Manual Integrations
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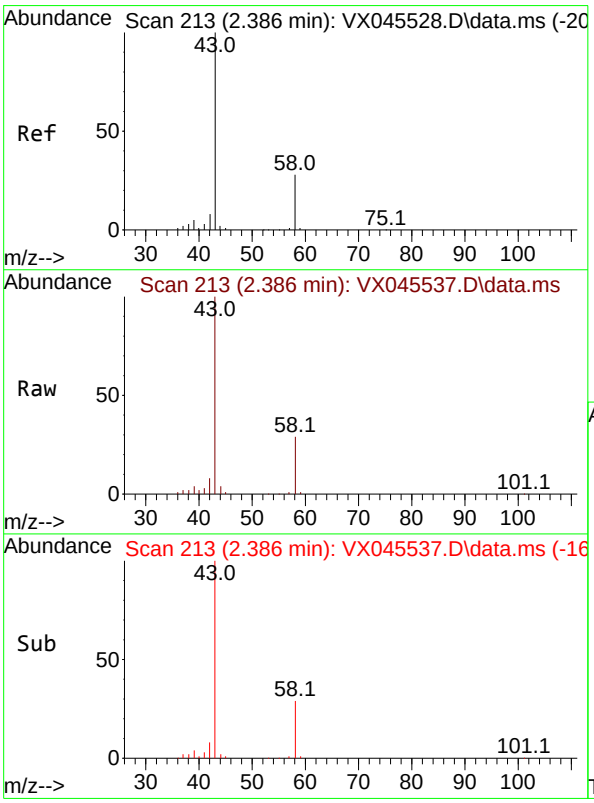
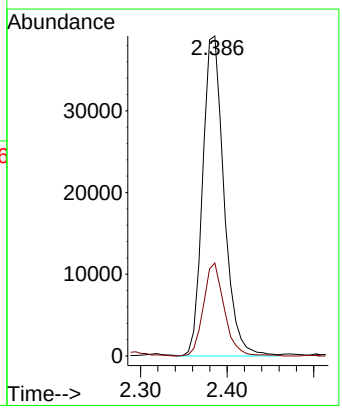
Reviewed By :John Carlone 04/03/2025
Supervised By :Mahesh Dadoda 04/03/2025

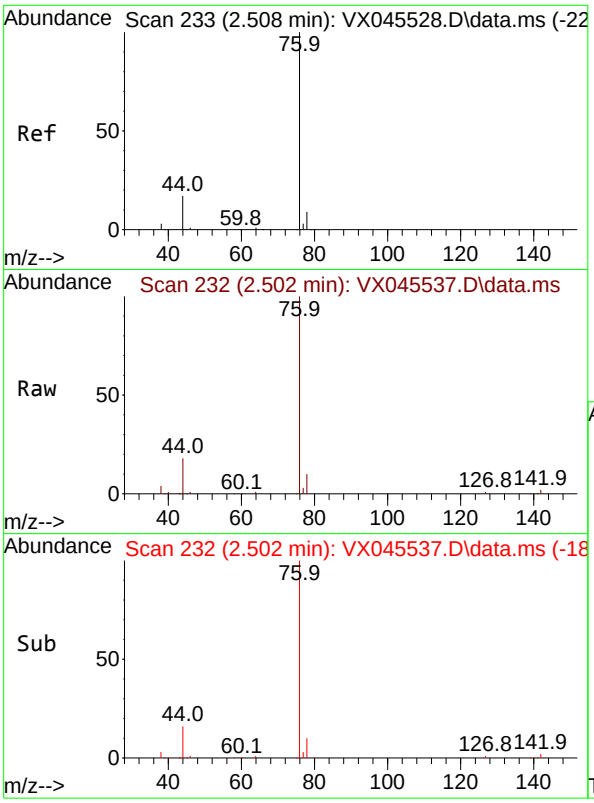


#16
Acetone
Concen: 91.827 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.000 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion: 43 Resp: 67054

Ion	Ratio	Lower	Upper
43	100		
58	29.0	22.3	33.5

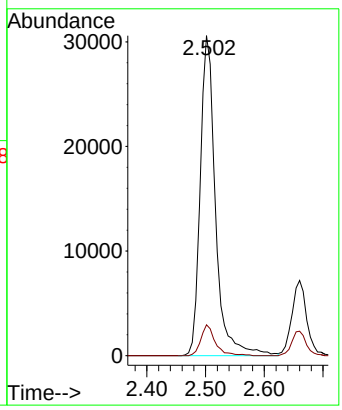




#17
Carbon Disulfide
Concen: 19.191 ug/l
RT: 2.502 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion: 76 Resp: 5533

Ion	Ratio	Lower	Upper
76	100		
78	9.7	7.0	10.6



Instrument :
MSVOA_X
ClientSampleId :
VX0402WBS01

Manual Integrations
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Reviewed By :John Carlone 04/03/2025
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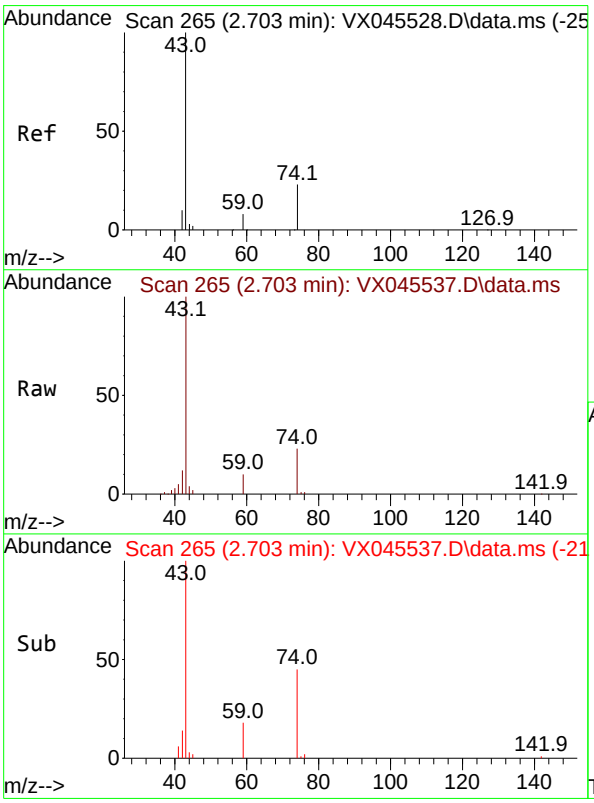
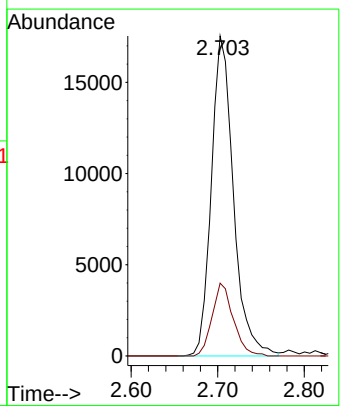
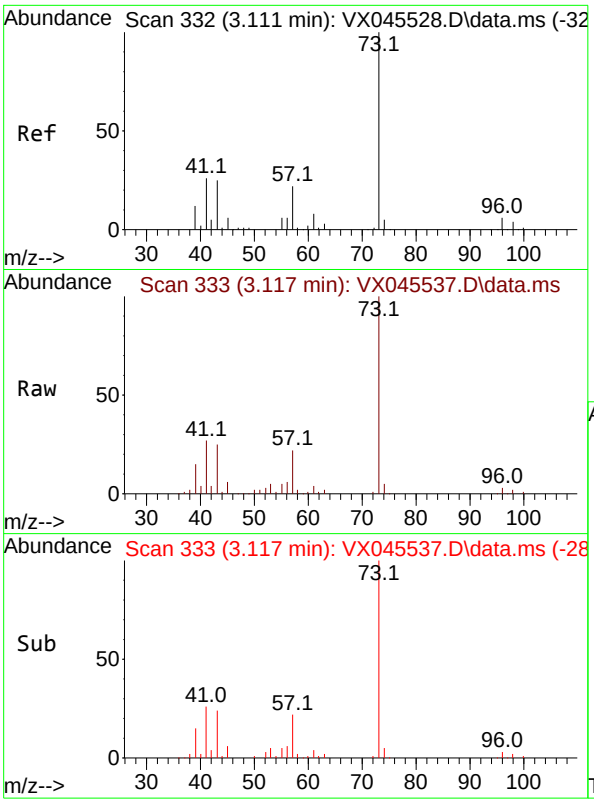


#18
Methyl Acetate
Concen: 18.497 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion: 43 Resp: 31098

Ion	Ratio	Lower	Upper
43	100		
74	21.8	17.5	26.3

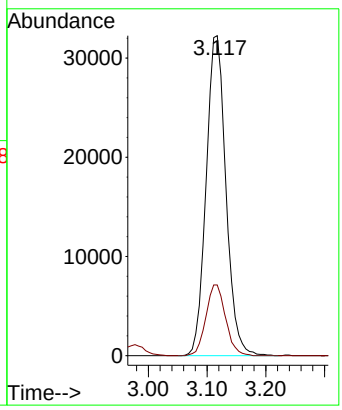




#19
Methyl tert-butyl Ether
Concen: 18.475 ug/l
RT: 3.117 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion: 73 Resp: 7544

Ion	Ratio	Lower	Upper
73	100		
57	22.1	17.6	26.4



Instrument :
MSVOA_X
ClientSampleId :
VX0402WBS01

Manual Integrations
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Reviewed By :John Carlone 04/03/2025
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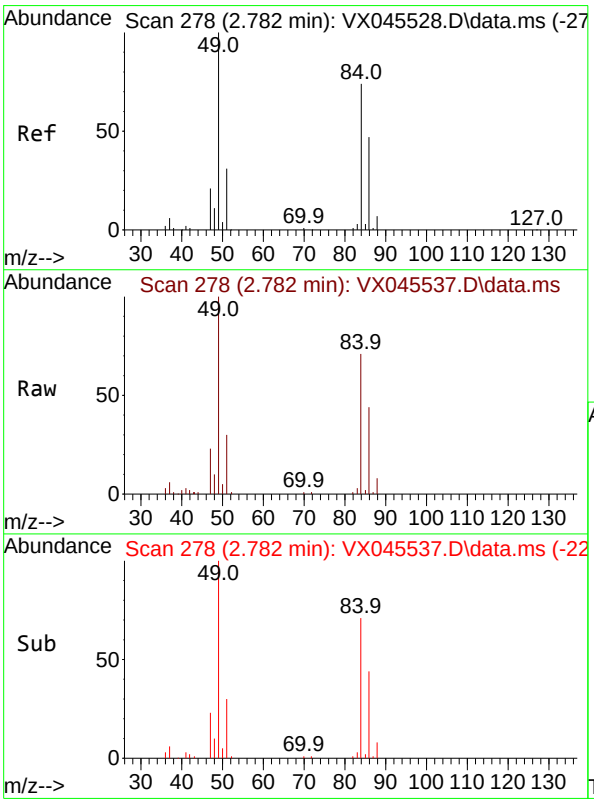
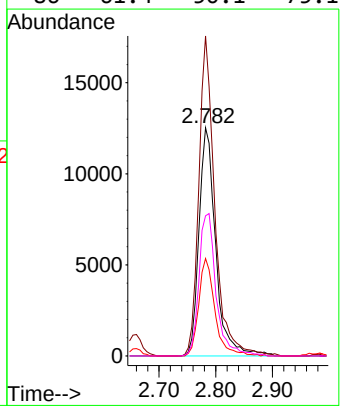
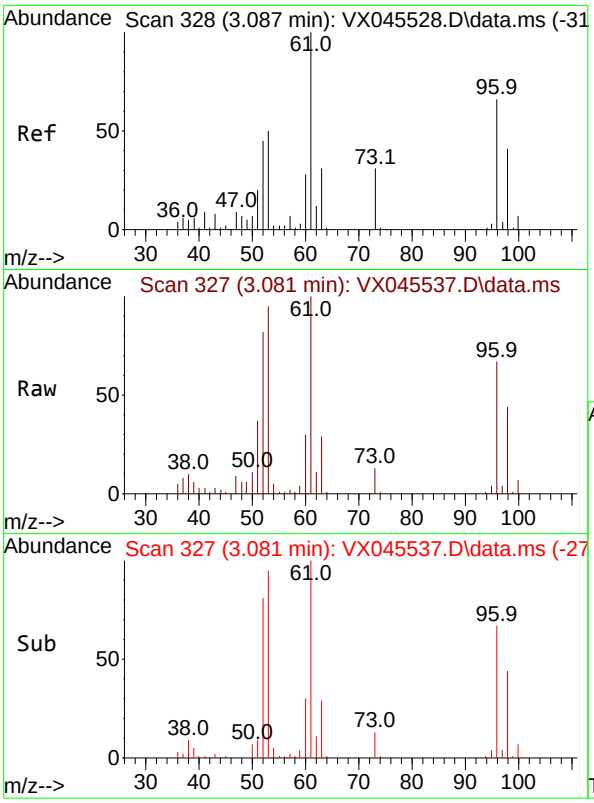


#20
Methylene Chloride
Concen: 18.798 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion: 84 Resp: 25698

Ion	Ratio	Lower	Upper
84	100		
49	140.3	107.5	161.3
51	42.7	33.0	49.6
86	61.4	50.1	75.1

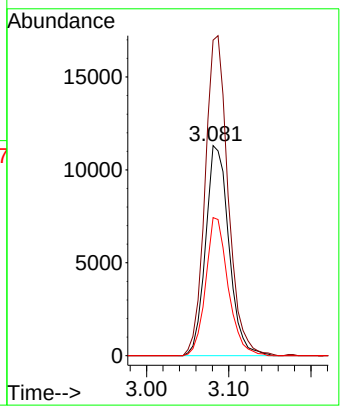




#21
trans-1,2-Dichloroethene
Concen: 18.649 ug/l
RT: 3.081 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion: 96 Resp: 2224

Ion	Ratio	Lower	Upper
96	100		
61	150.2	121.0	181.6
98	65.7	49.7	74.5



Instrument :
MSVOA_X
ClientSampleId :
VX0402WBS01

Manual Integrations
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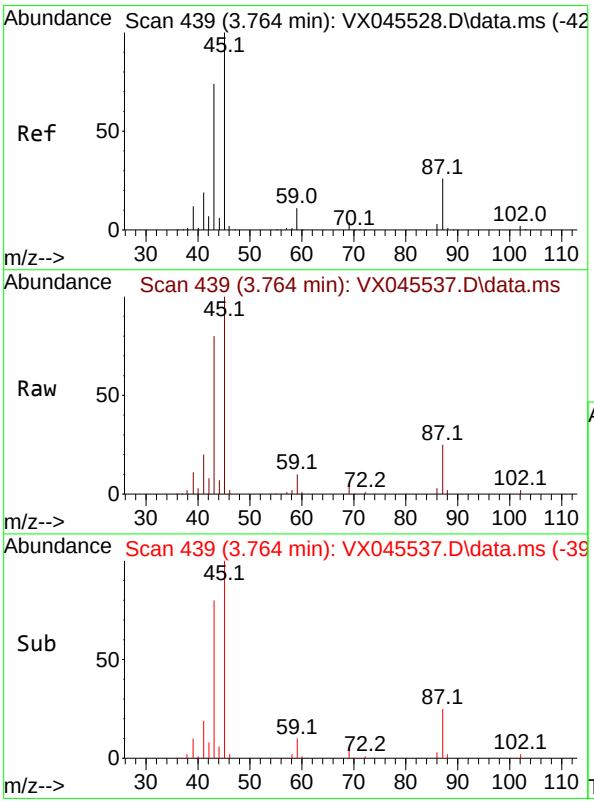
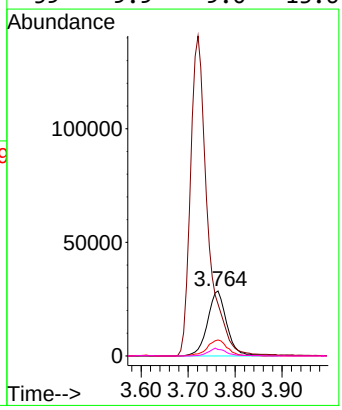
Reviewed By :John Carlone 04/03/2025
Supervised By :Mahesh Dadoda 04/03/2025

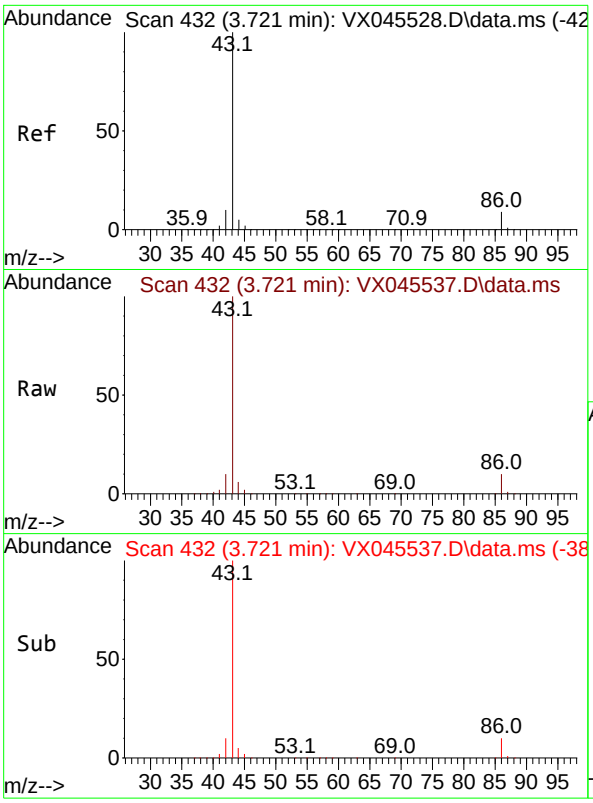


#22
Diisopropyl ether
Concen: 18.627 ug/l
RT: 3.764 min Scan# 439
Delta R.T. 0.000 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion: 45 Resp: 81271

Ion	Ratio	Lower	Upper
45	100		
43	78.7	59.3	88.9
87	24.5	20.4	30.6
59	9.9	9.0	13.6

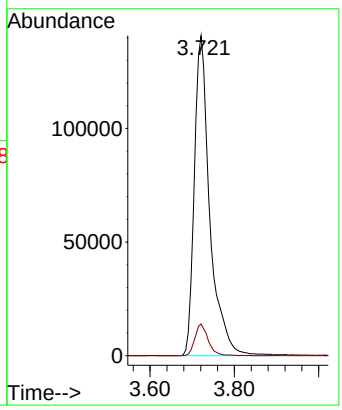




#23
Vinyl Acetate
Concen: 95.663 ug/l
RT: 3.721 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion: 43 Resp: 36062

Ion	Ratio	Lower	Upper
43	100		
86	9.9	7.5	11.3



Instrument :
MSVOA_X
ClientSampleId :
VX0402WBS01

Manual Integrations
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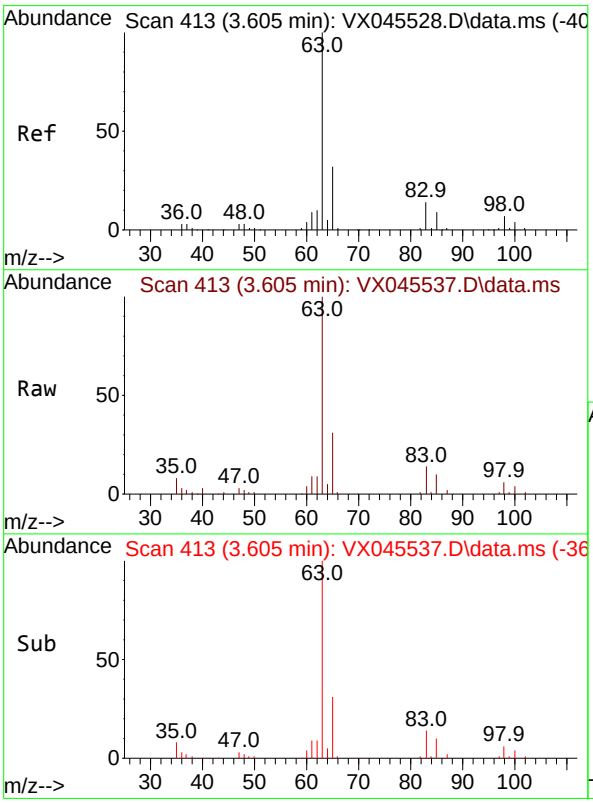
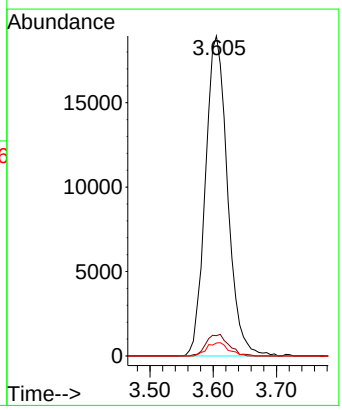
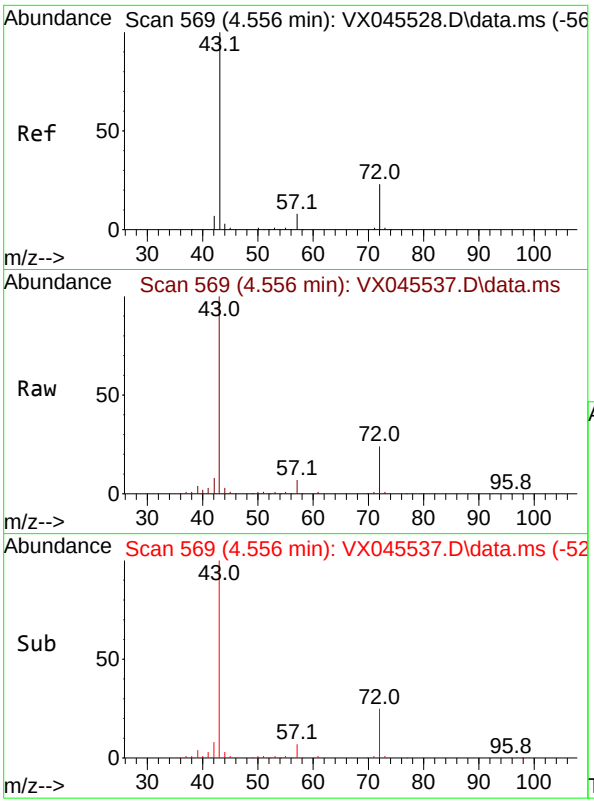


#24
1,1-Dichloroethane
Concen: 18.692 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion: 63 Resp: 46123

Ion	Ratio	Lower	Upper
63	100		
98	6.3	3.4	10.1
100	4.0	2.2	6.6

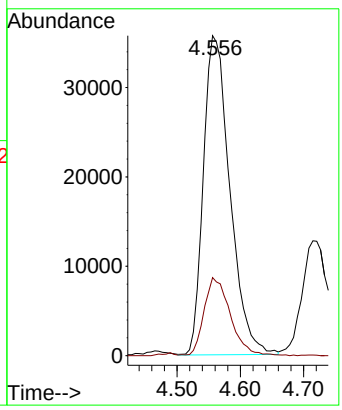




#25
2-Butanone
Concen: 97.537 ug/l
RT: 4.556 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion: 43 Resp: 10425

Ion	Ratio	Lower	Upper
43	100		
72	24.3	18.6	28.0



Instrument :
MSVOA_X
ClientSampleId :
VX0402WBS01

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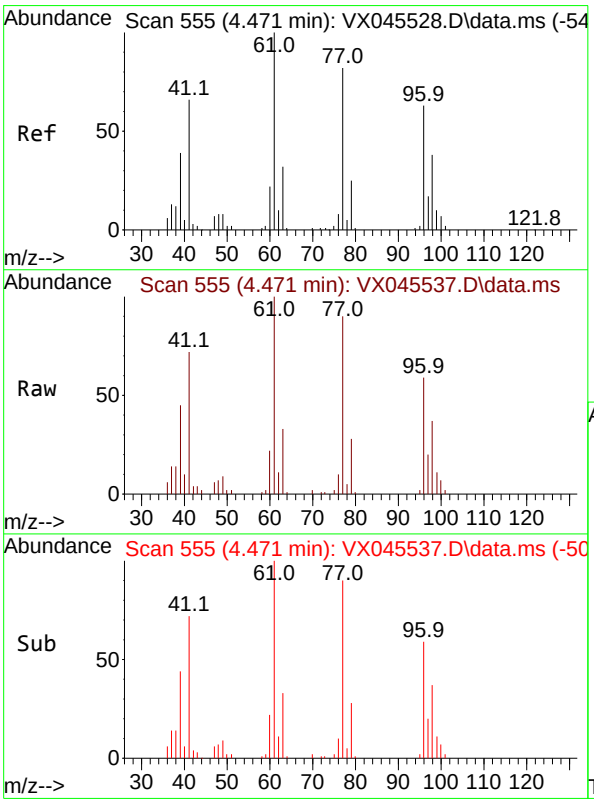
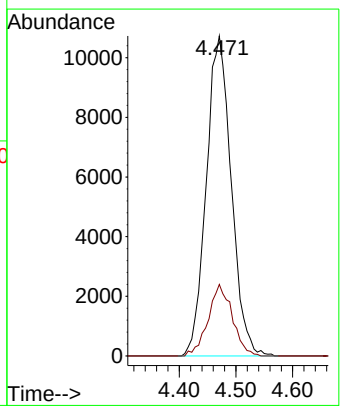
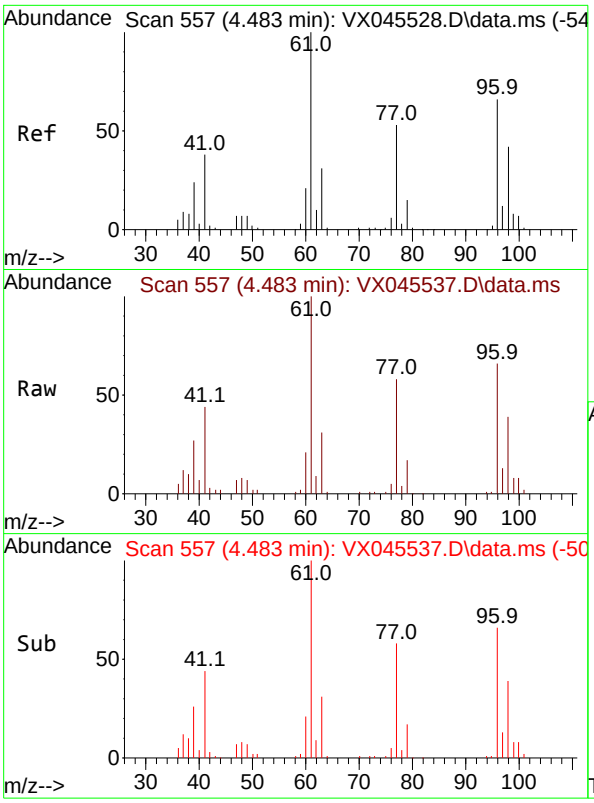


#26
2,2-Dichloropropane
Concen: 20.581 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.000 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion: 77 Resp: 32811

Ion	Ratio	Lower	Upper
77	100		
97	21.6	10.6	31.8

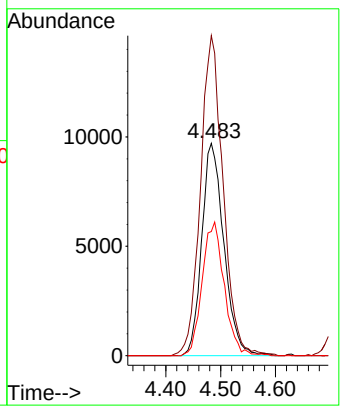




#27
cis-1,2-Dichloroethene
Concen: 18.696 ug/l
RT: 4.483 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion: 96 Resp: 2716

Ion	Ratio	Lower	Upper
96	100		
61	154.1	0.0	313.2
98	62.8	0.0	126.4



Instrument :
MSVOA_X
ClientSampleId :
VX0402WBS01

Manual Integrations
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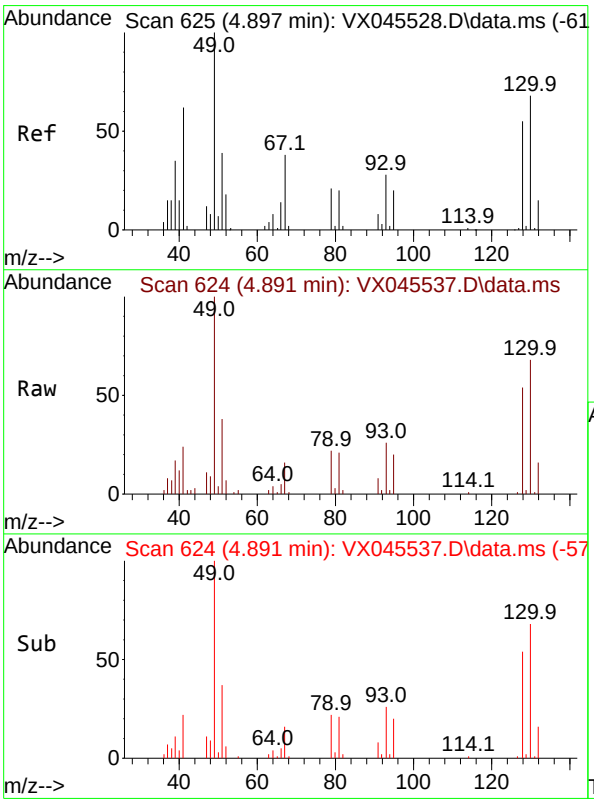
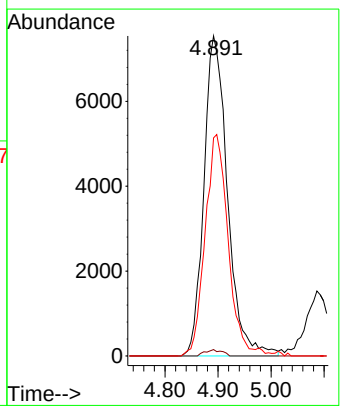
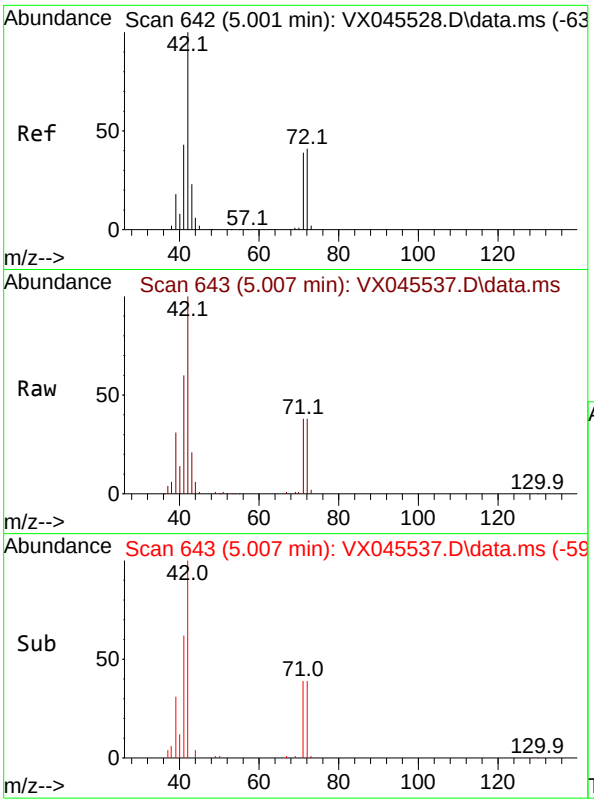


#28
Bromochloromethane
Concen: 19.532 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion: 49 Resp: 23290

Ion	Ratio	Lower	Upper
49	100		
129	1.4	0.0	3.8
130	68.0	54.6	81.8

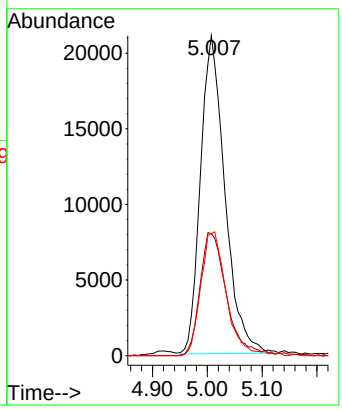




#29
Tetrahydrofuran
Concen: 93.797 ug/l
RT: 5.007 min Scan# 64
Delta R.T. 0.006 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion: 42 Resp: 6500

Ion	Ratio	Lower	Upper
42	100		
72	41.8	33.4	50.0
71	40.7	31.4	47.0



Instrument :
MSVOA_X
ClientSampleId :
VX0402WBS01

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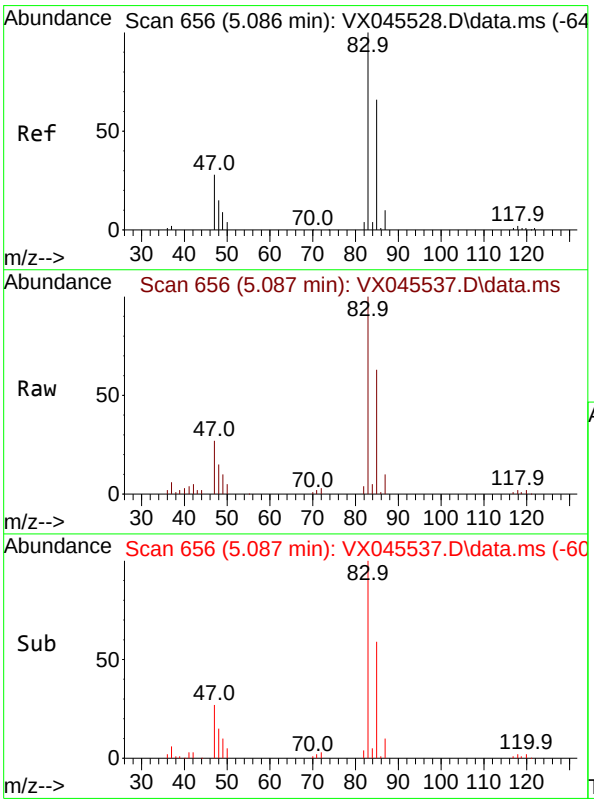
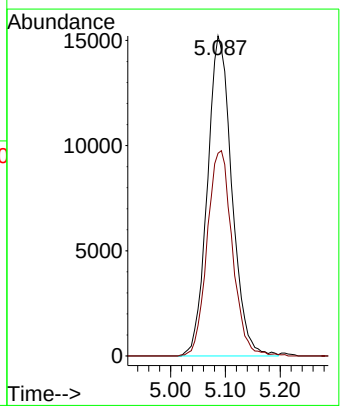
Reviewed By :John Carlone 04/03/2025
Supervised By :Mahesh Dadoda 04/03/2025

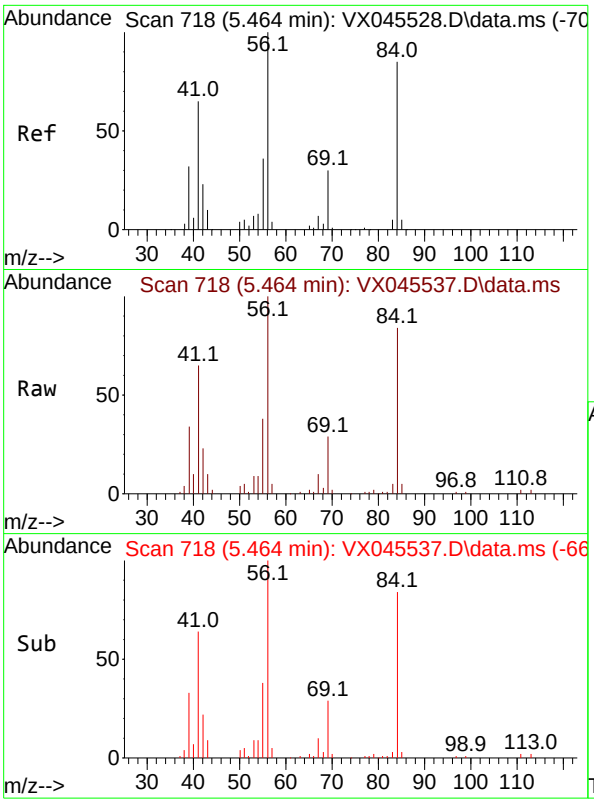


#30
Chloroform
Concen: 18.587 ug/l
RT: 5.087 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion: 83 Resp: 47193

Ion	Ratio	Lower	Upper
83	100		
85	63.4	52.8	79.2

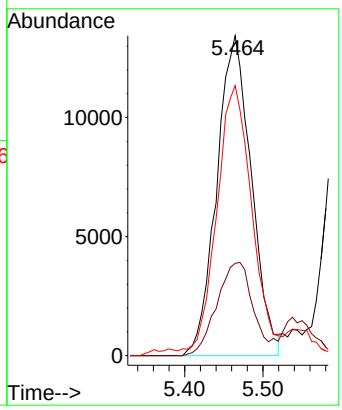




#31
Cyclohexane
Concen: 18.932 ug/l
RT: 5.464 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion: 56 Resp: 4130

Ion	Ratio	Lower	Upper
56	100		
69	28.9	23.6	35.4
84	82.9	67.7	101.5



Instrument :
MSVOA_X
ClientSampleId :
VX0402WBS01

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Reviewed By :John Carlone 04/03/2025
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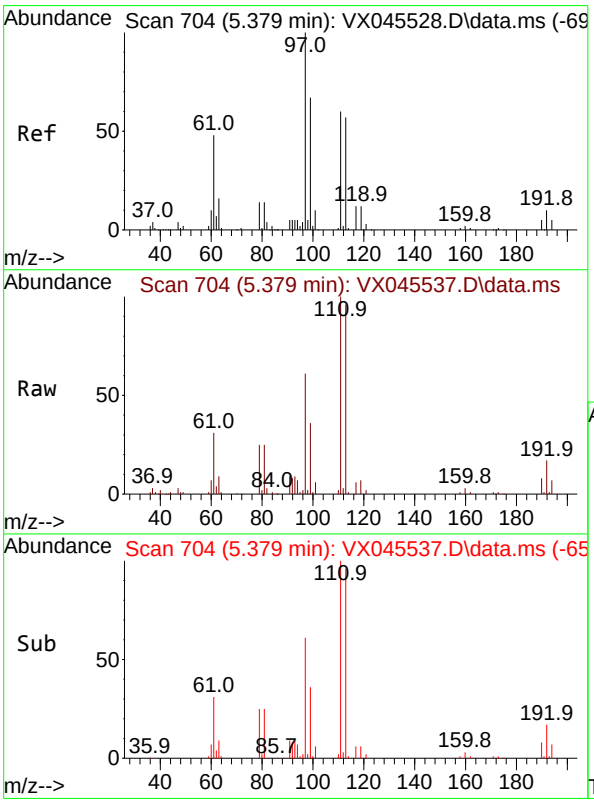
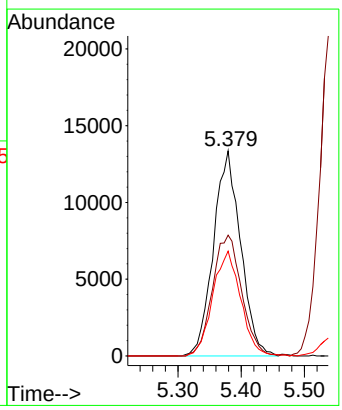
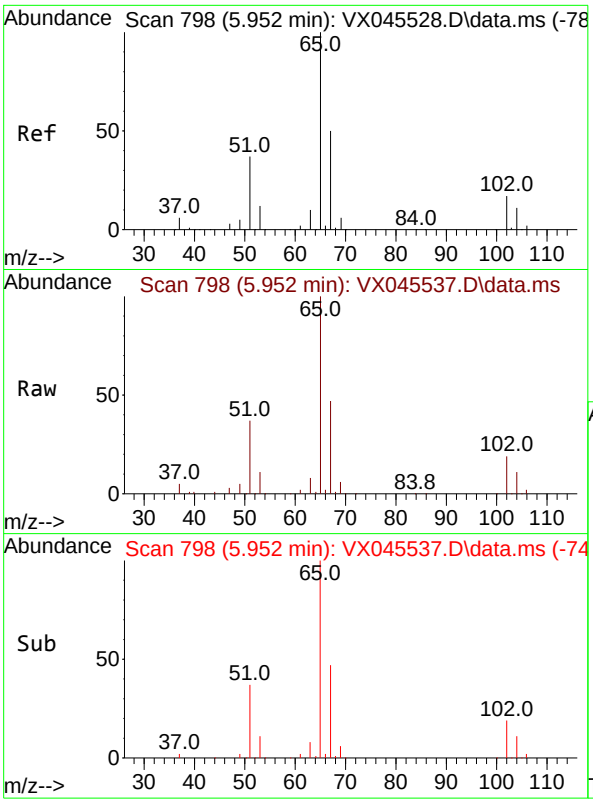


#32
1,1,1-Trichloroethane
Concen: 18.529 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.000 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion: 97 Resp: 39809

Ion	Ratio	Lower	Upper
97	100		
99	63.1	51.7	77.5
61	52.8	41.0	61.4

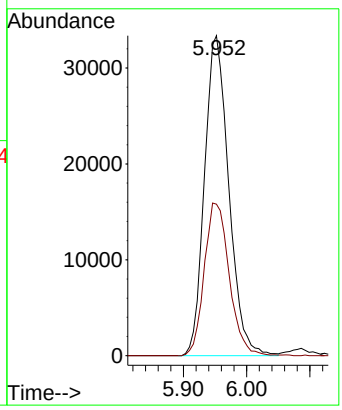




#33
1,2-Dichloroethane-d4
Concen: 50.041 ug/l
RT: 5.952 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion: 65 Resp: 8898

Ion	Ratio	Lower	Upper
65	100		
67	49.2	0.0	99.0



Instrument :
MSVOA_X
ClientSampleId :
VX0402WBS01

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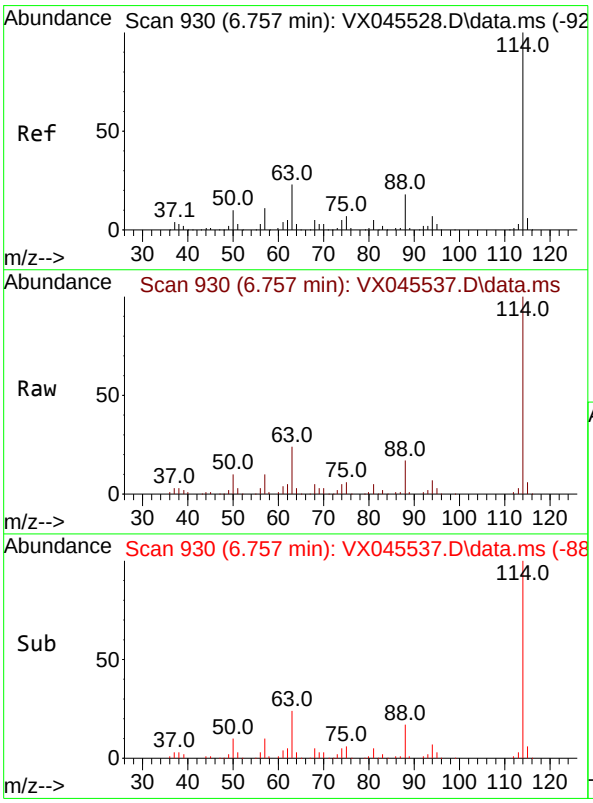
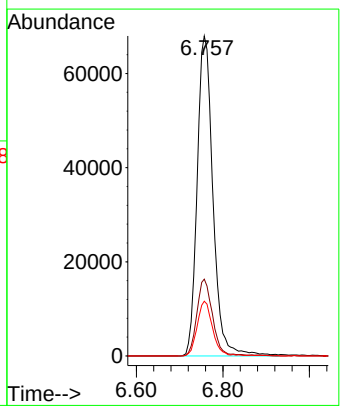
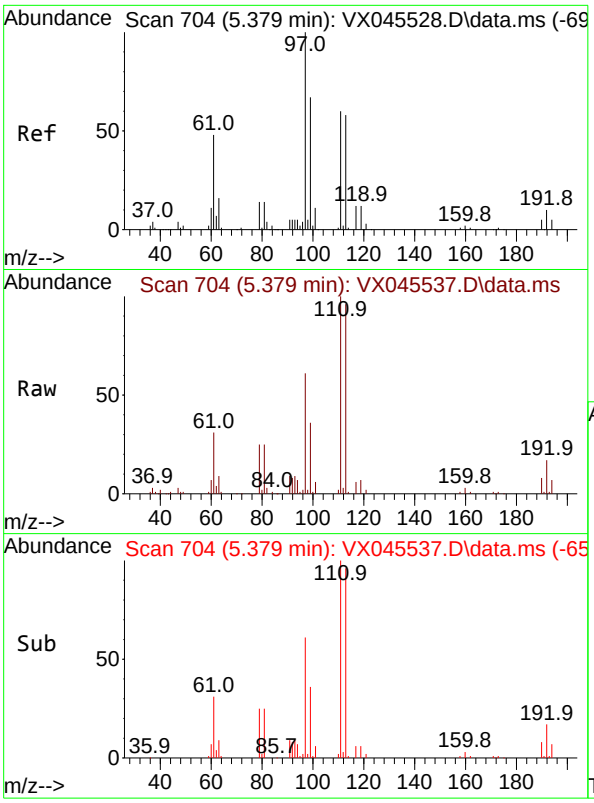


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion:114 Resp: 172610

Ion	Ratio	Lower	Upper
114	100		
63	24.0	0.0	46.8
88	17.1	0.0	35.4

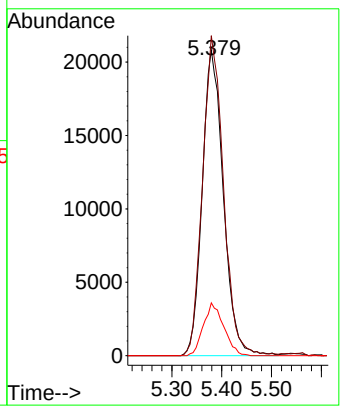




#35
Dibromofluoromethane
Concen: 50.052 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion:113 Resp: 6129

Ion	Ratio	Lower	Upper
113	100		
111	103.7	81.8	122.6
192	16.6	13.8	20.6



Instrument :
MSVOA_X
ClientSampleId :
VX0402WBS01

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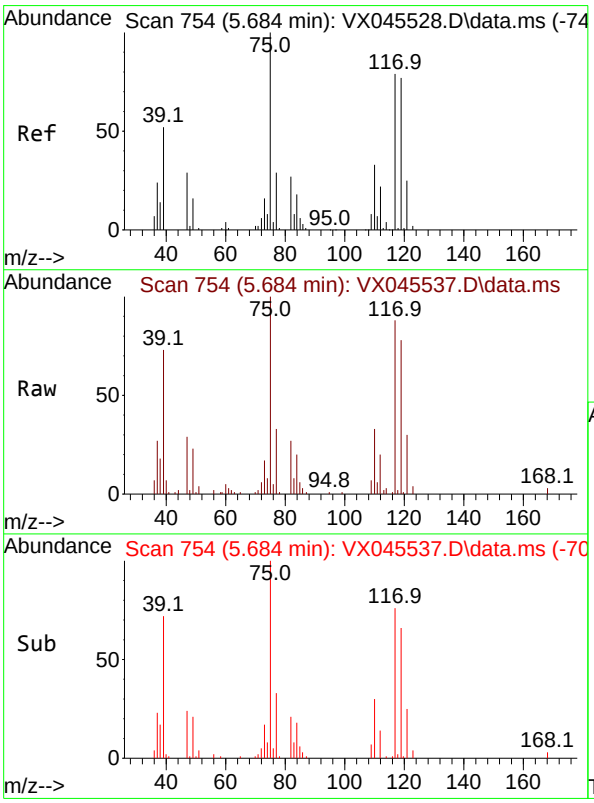
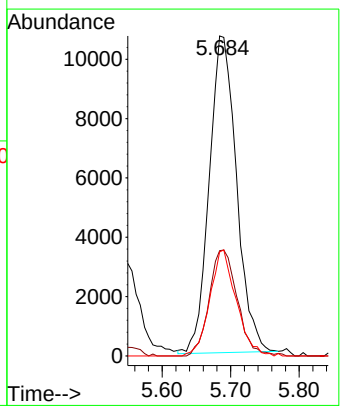
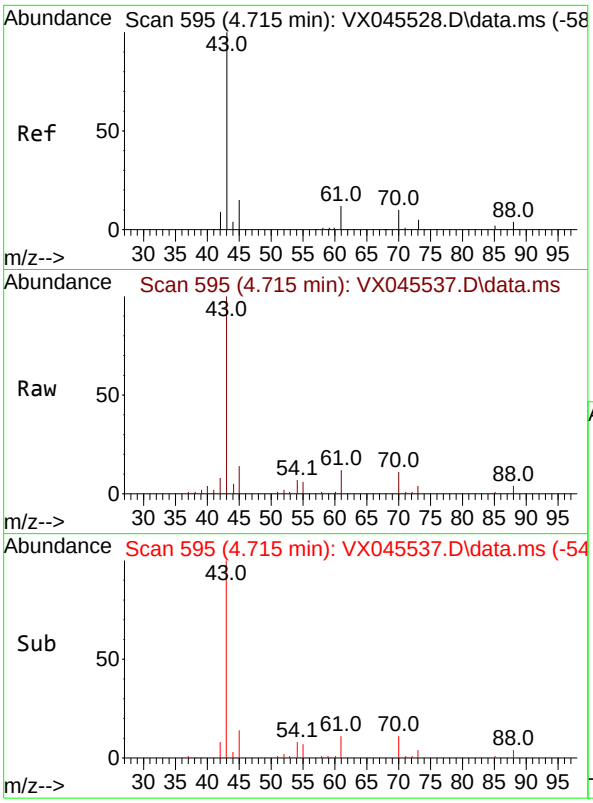


#36
1,1-Dichloropropene
Concen: 17.895 ug/l
RT: 5.684 min Scan# 754
Delta R.T. 0.000 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion: 75 Resp: 29591

Ion	Ratio	Lower	Upper
75	100		
110	34.5	16.9	50.6
77	32.4	25.0	37.4





#37
Ethyl Acetate
Concen: 18.224 ug/l
RT: 4.715 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion: 43 Resp: 3797

Ion	Ratio	Lower	Upper
43	100		
61	13.1	9.9	14.9
70	9.8	7.5	11.3

Instrument :
MSVOA_X
ClientSampleId :
VX0402WBS01

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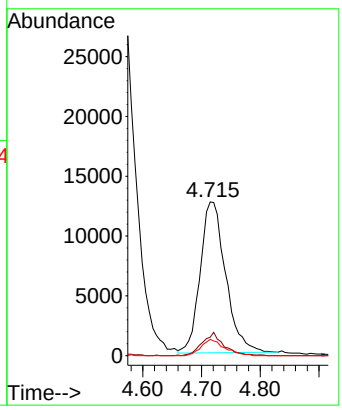
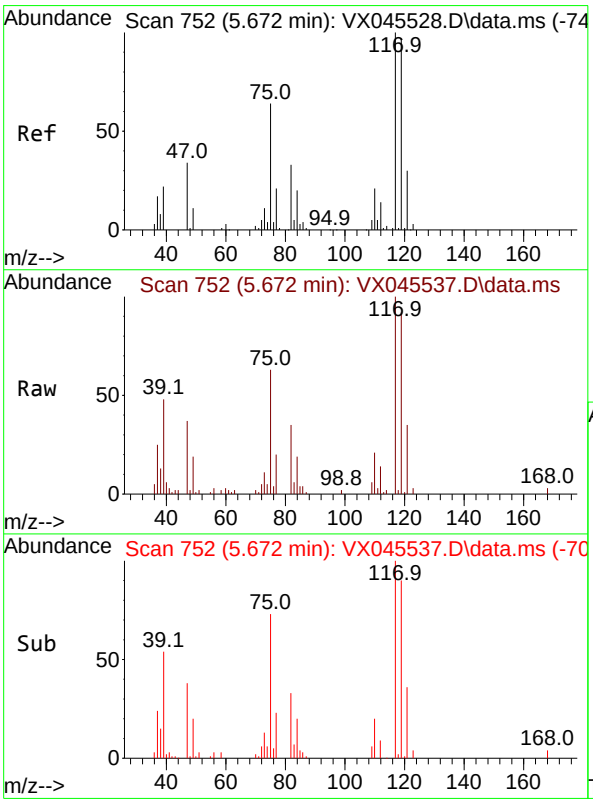
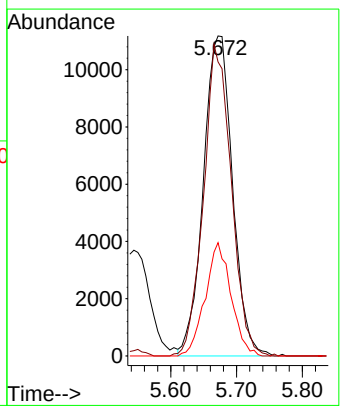


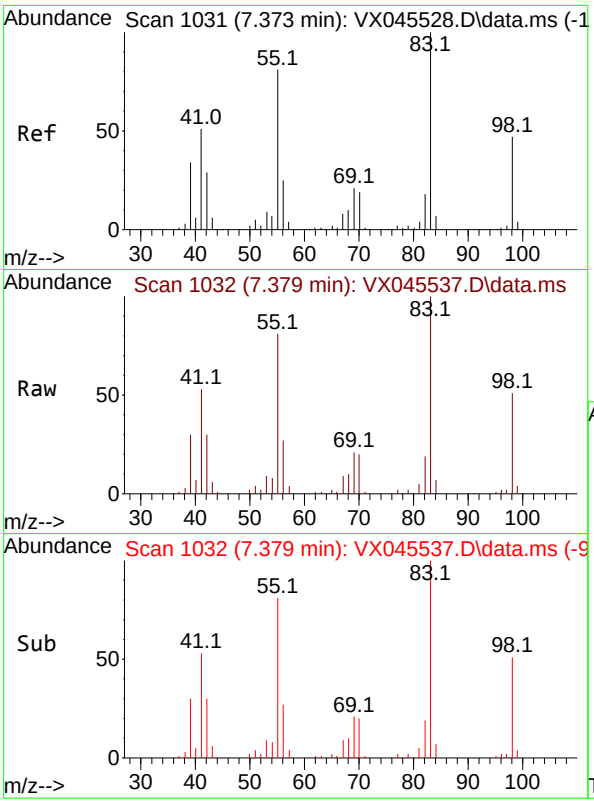


#38
Carbon Tetrachloride
Concen: 19.297 ug/l
RT: 5.672 min Scan# 752
Delta R.T. 0.000 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion:117 Resp: 34486

Ion	Ratio	Lower	Upper
117	100		
119	91.9	76.9	115.3
121	35.4	24.2	36.2

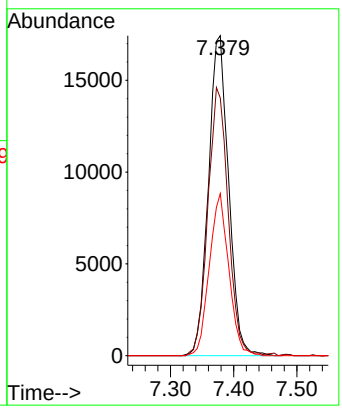




#39
Methylcyclohexane
Concen: 19.104 ug/l
RT: 7.379 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion: 83 Resp: 3872

Ion	Ratio	Lower	Upper
83	100		
55	80.6	64.9	97.3
98	50.6	37.4	56.0



Instrument :
MSVOA_X
ClientSampleId :
VX0402WBS01

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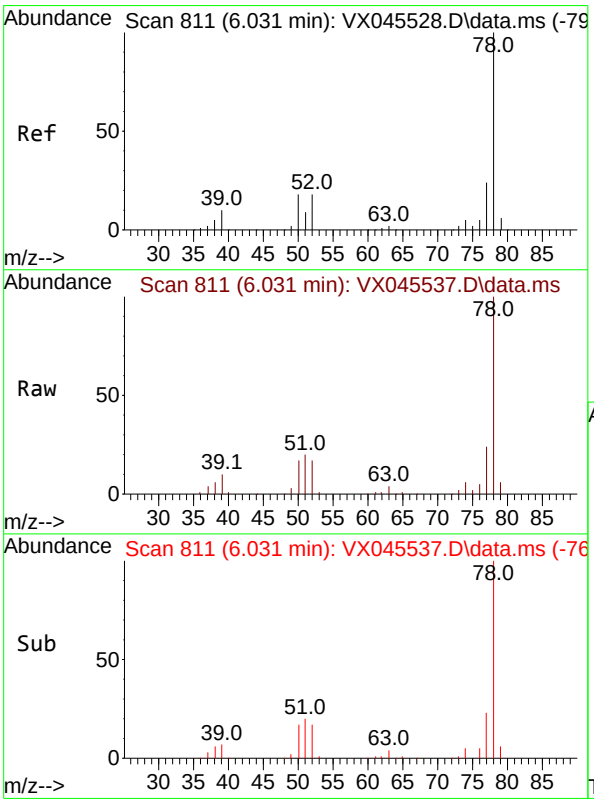
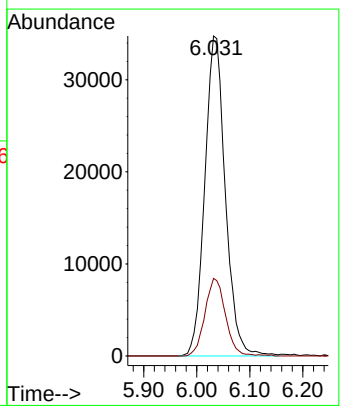
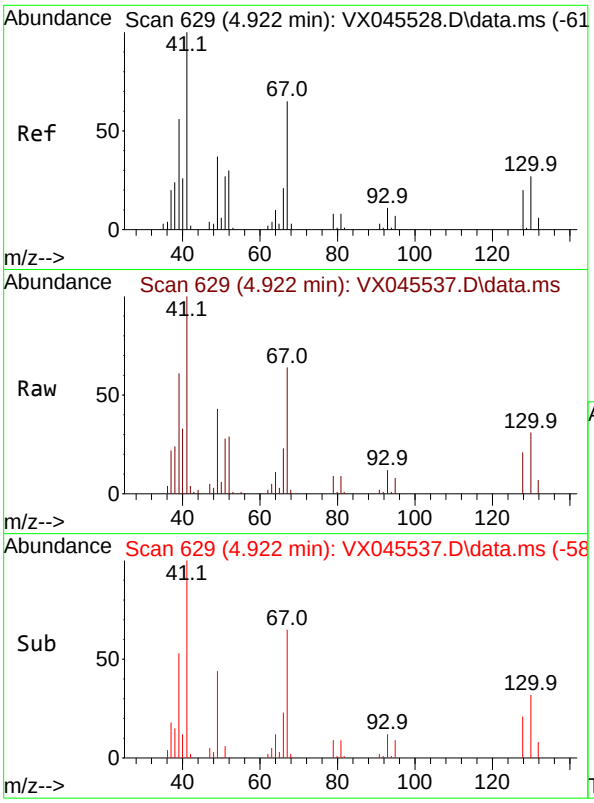


#40
Benzene
Concen: 18.543 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion: 78 Resp: 93643

Ion	Ratio	Lower	Upper
78	100		
77	24.3	19.0	28.6

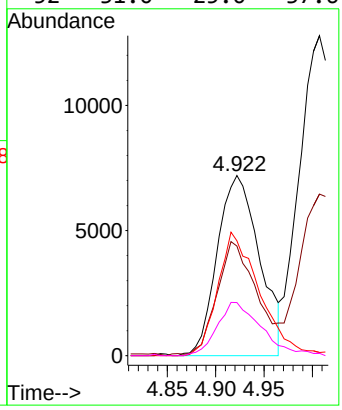




#41
Methacrylonitrile
Concen: 19.910 ug/l
RT: 4.922 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion: 41 Resp: 2189

Ion	Ratio	Lower	Upper
41	100		
39	57.8	47.0	70.6
67	68.1	53.2	79.8
52	31.0	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
VX0402WBS01

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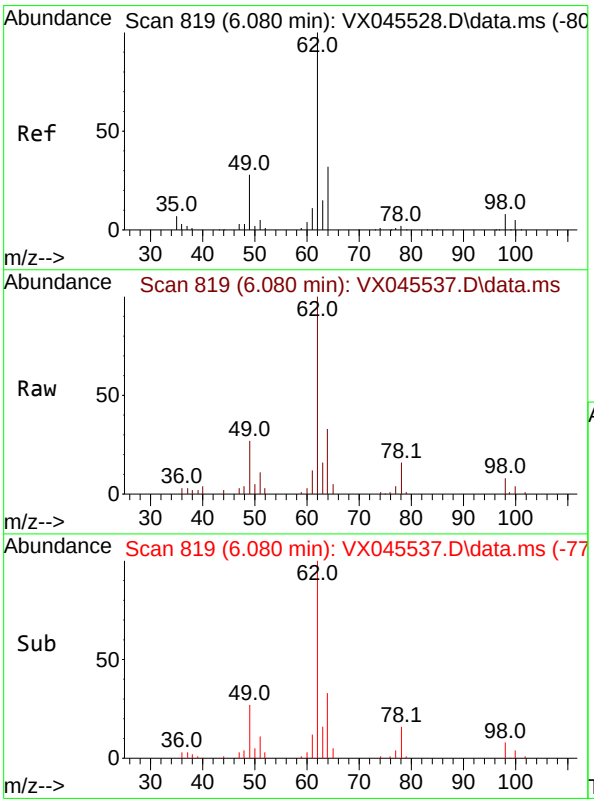
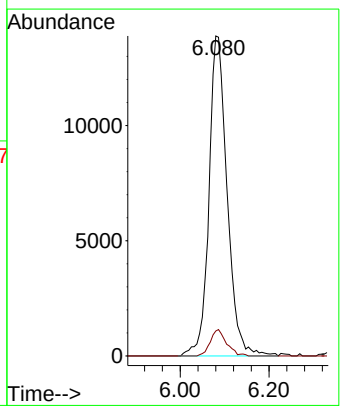
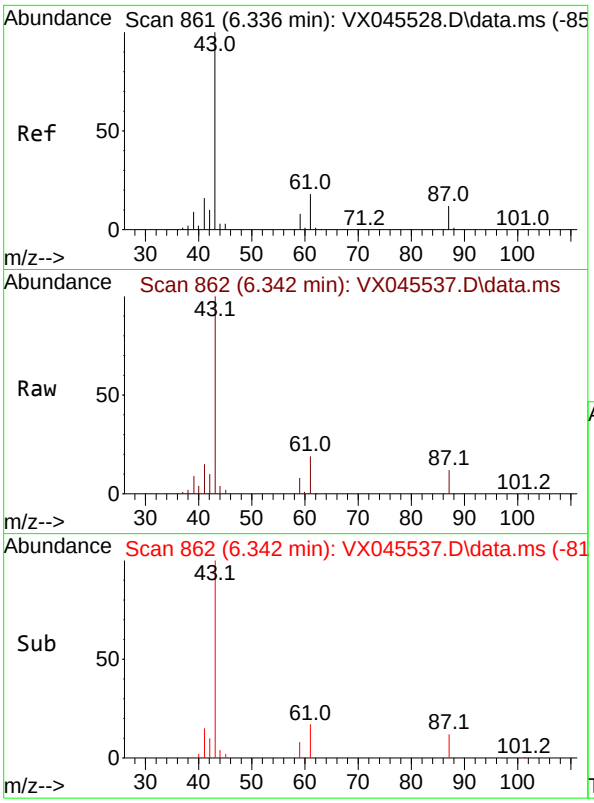


#42
1,2-Dichloroethane
Concen: 18.910 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.000 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion: 62 Resp: 39443

Ion	Ratio	Lower	Upper
62	100		
98	7.4	0.0	15.2

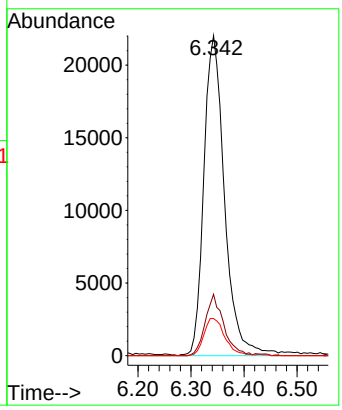




#43
Isopropyl Acetate
Concen: 18.903 ug/l
RT: 6.342 min Scan# 8
Delta R.T. 0.006 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion: 43 Resp: 5970

Ion	Ratio	Lower	Upper
43	100		
61	17.1	14.1	21.1
87	11.8	9.2	13.8



Instrument :
MSVOA_X
ClientSampleId :
VX0402WBS01

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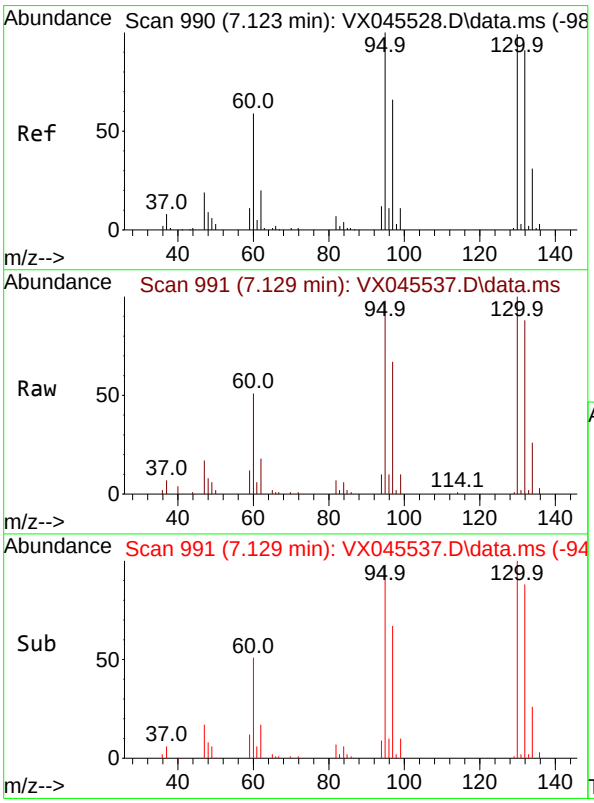
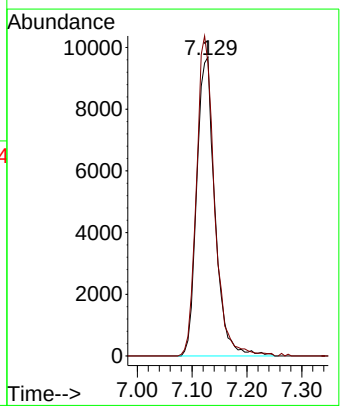
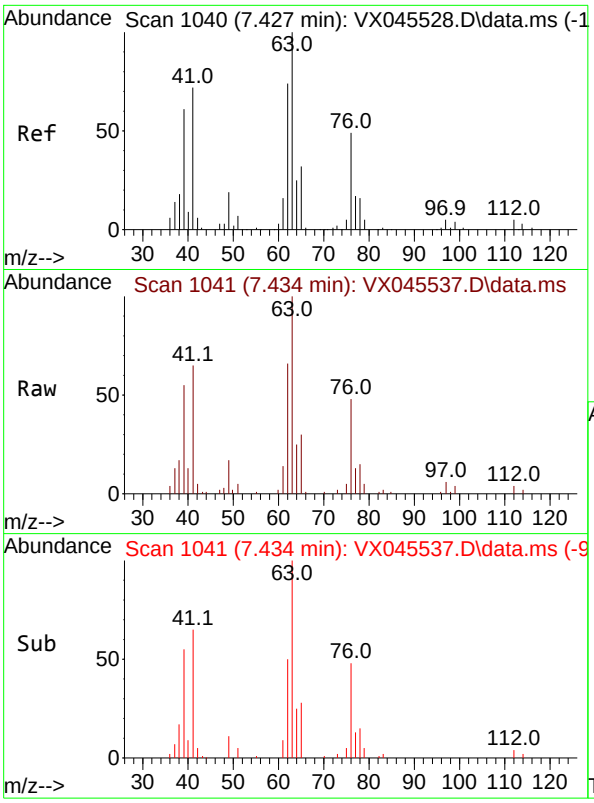


#44
Trichloroethene
Concen: 18.658 ug/l
RT: 7.129 min Scan# 991
Delta R.T. 0.006 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion:130 Resp: 22396

Ion	Ratio	Lower	Upper
130	100		
95	98.0	0.0	202.0

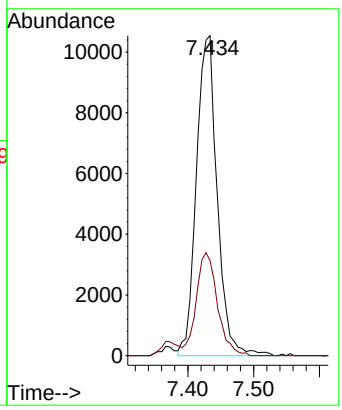




#45
1,2-Dichloropropane
Concen: 18.430 ug/l
RT: 7.434 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion: 63 Resp: 2322

Ion	Ratio	Lower	Upper
63	100		
65	29.7	25.8	38.6



Instrument :
MSVOA_X
ClientSampleId :
VX0402WBS01

Manual Integrations
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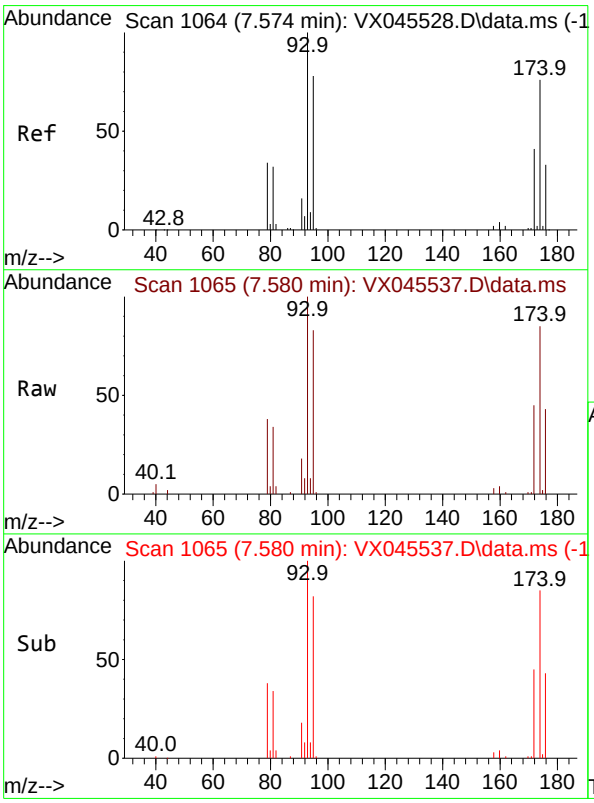
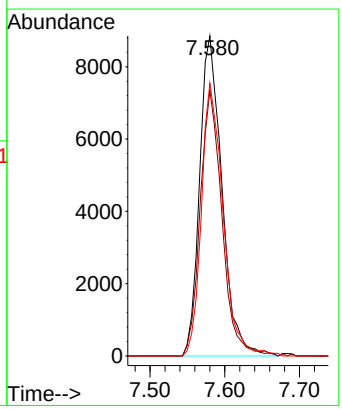
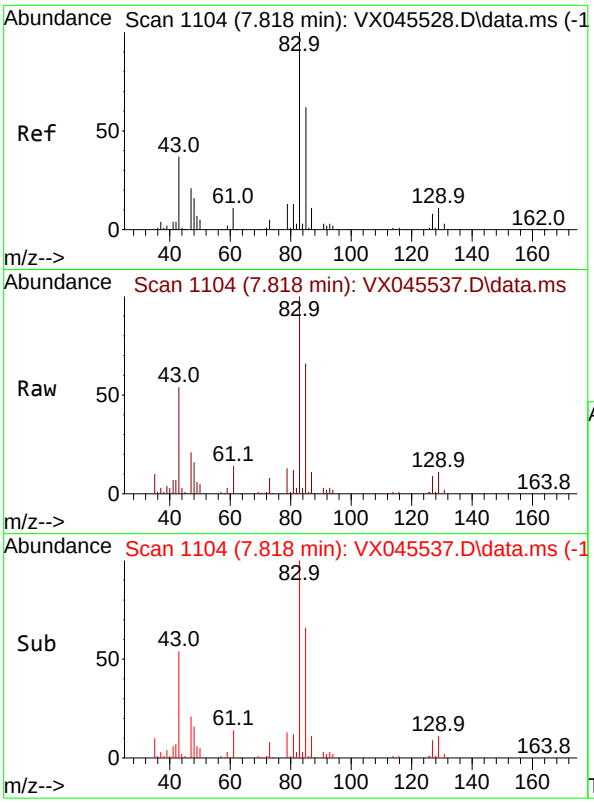


#46
Dibromomethane
Concen: 18.951 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. 0.006 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion: 93 Resp: 18331

Ion	Ratio	Lower	Upper
93	100		
95	81.2	64.8	97.2
174	83.1	65.4	98.0

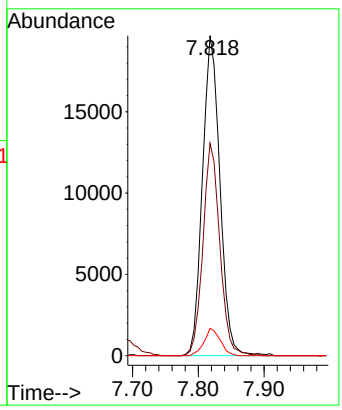




#47
Bromodichloromethane
Concen: 18.875 ug/l
RT: 7.818 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion: 83 Resp: 3646

Ion	Ratio	Lower	Upper
83	100		
85	66.4	49.7	74.5
127	8.5	6.1	9.1



Instrument :
MSVOA_X
ClientSampleId :
VX0402WBS01

Manual Integrations
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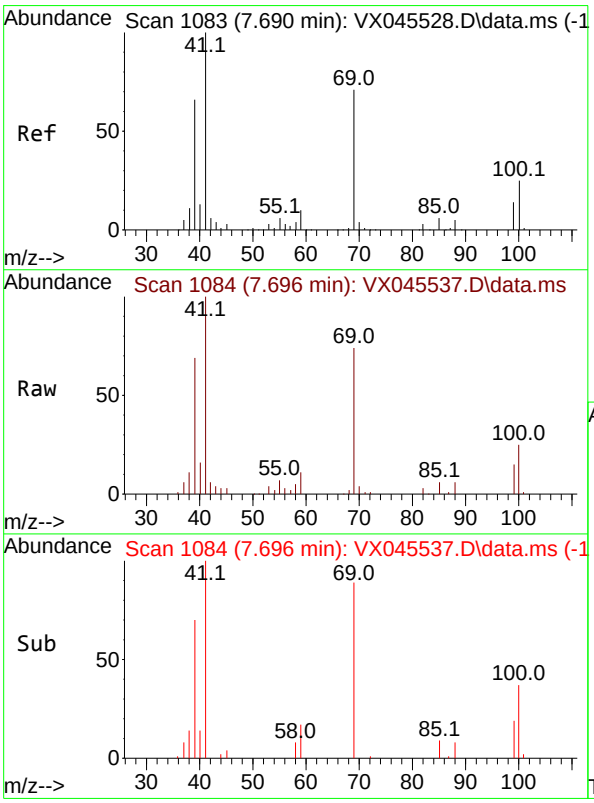
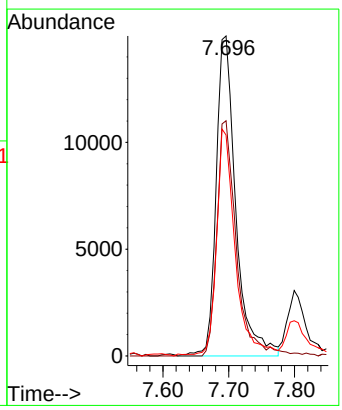
Reviewed By :John Carlone 04/03/2025
Supervised By :Mahesh Dadoda 04/03/2025

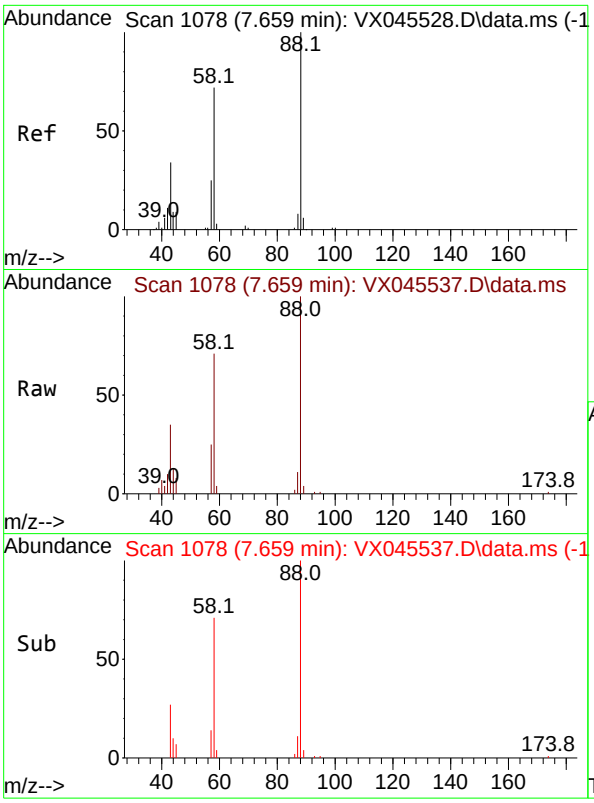


#48
Methyl methacrylate
Concen: 19.110 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. 0.006 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion: 41 Resp: 31163

Ion	Ratio	Lower	Upper
41	100		
69	72.9	58.2	87.2
39	65.2	53.6	80.4





#49
1,4-Dioxane
Concen: 420.019 ug/l
RT: 7.659 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion: 88 Resp: 1239

Ion	Ratio	Lower	Upper
88	100		
43	40.9	32.2	48.4
58	71.4	58.6	88.0

Instrument :
MSVOA_X
ClientSampleId :
VX0402WBS01

Manual Integrations
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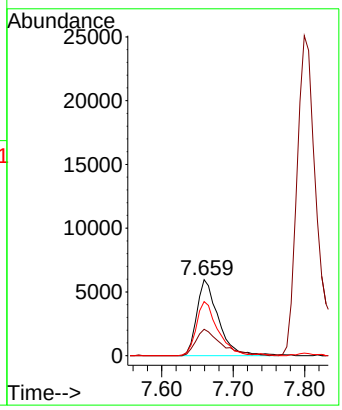
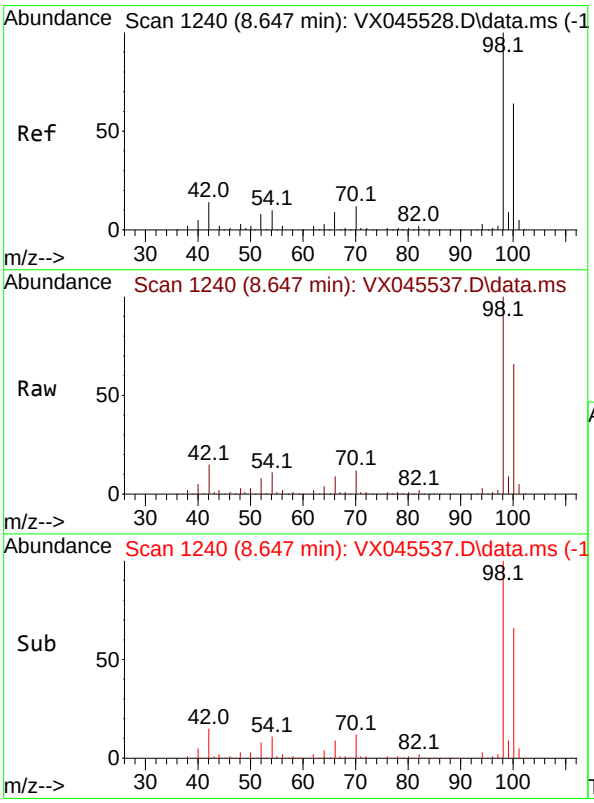
Reviewed By :John Carlone 04/03/2025
Supervised By :Mahesh Dadoda 04/03/2025

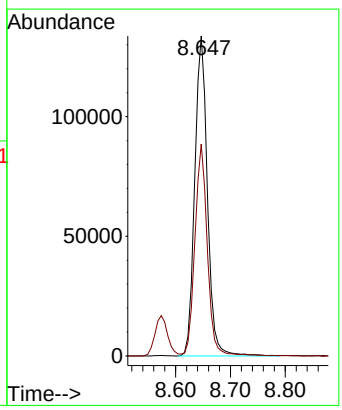


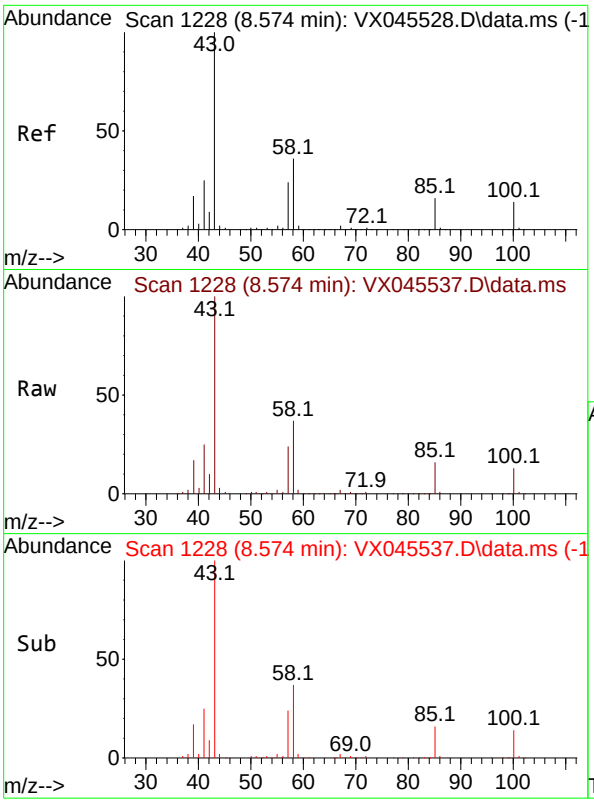


#50
Toluene-d8
Concen: 50.474 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion: 98 Resp: 215754

Ion	Ratio	Lower	Upper
98	100		
100	64.6	52.2	78.4

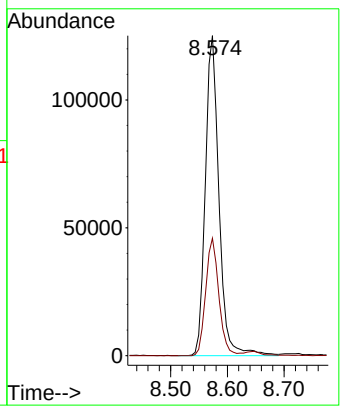




#51
4-Methyl-2-Pentanone
Concen: 99.593 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion: 43 Resp: 20851

Ion	Ratio	Lower	Upper
43	100		
58	35.7	28.5	42.7



Instrument :
MSVOA_X
ClientSampleId :
VX0402WBS01

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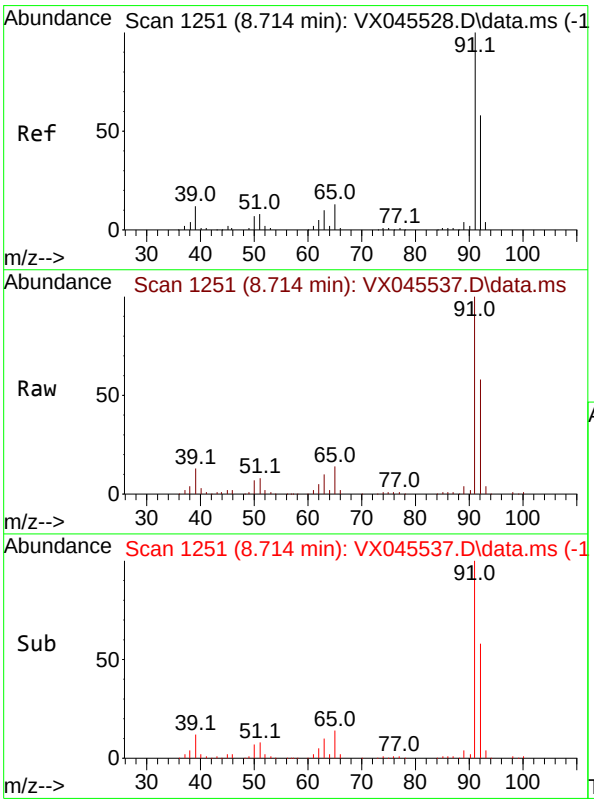
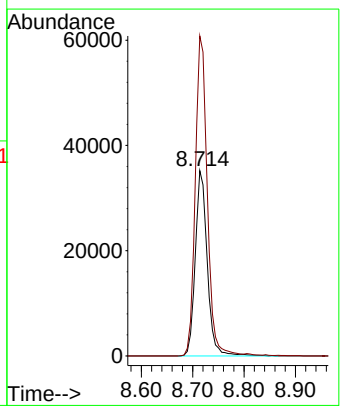
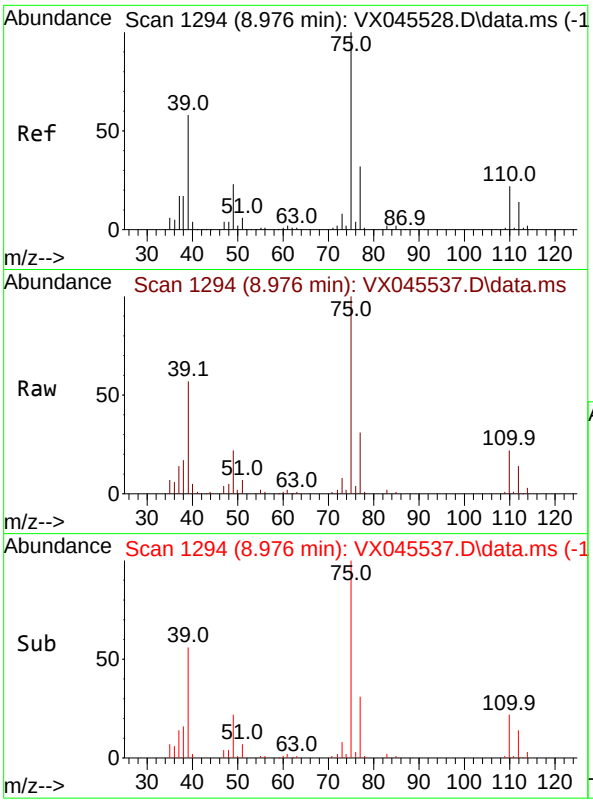


#52
Toluene
Concen: 18.716 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion: 92 Resp: 57194

Ion	Ratio	Lower	Upper
92	100		
91	172.5	138.7	208.1

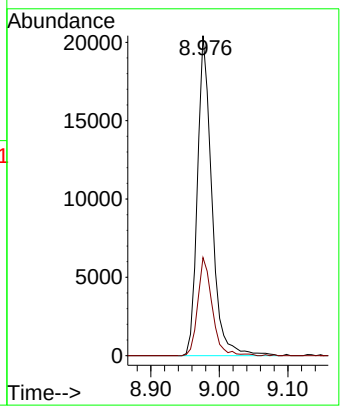




#53
t-1,3-Dichloropropene
Concen: 17.674 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion: 75 Resp: 2995

Ion	Ratio	Lower	Upper
75	100		
77	30.7	25.4	38.0



Instrument :
MSVOA_X
ClientSampleId :
VX0402WBS01

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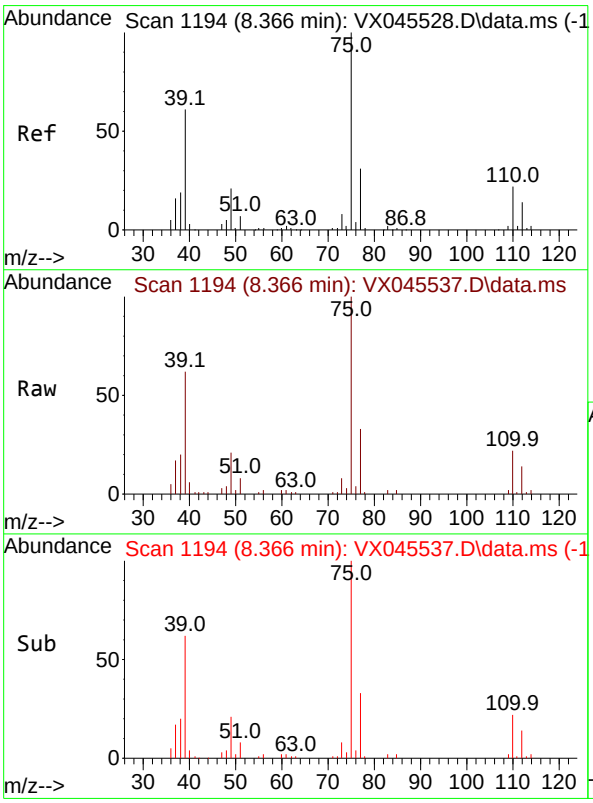
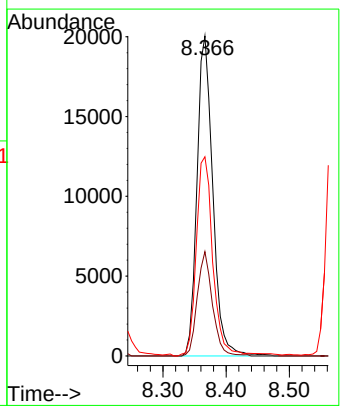
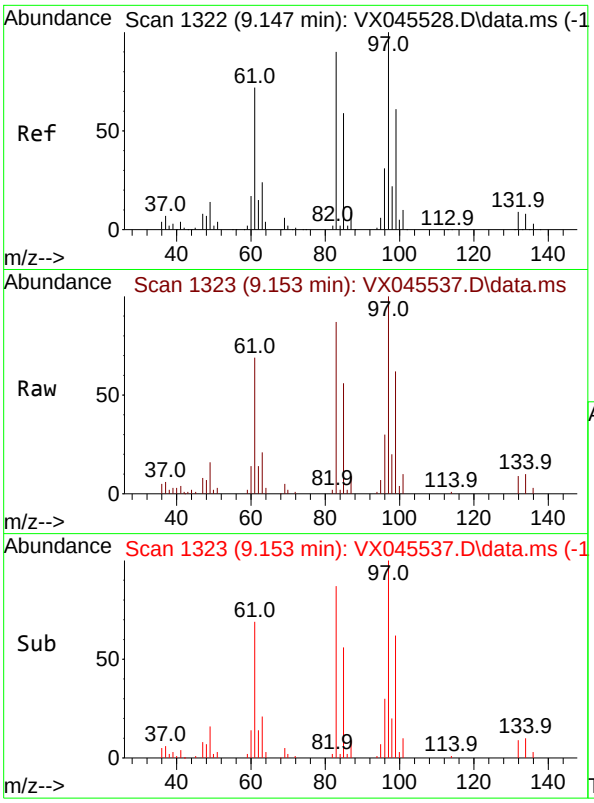


#54
cis-1,3-Dichloropropene
Concen: 19.166 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.000 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion: 75 Resp: 34792

Ion	Ratio	Lower	Upper
75	100		
77	32.6	24.6	36.8
39	62.3	48.4	72.6

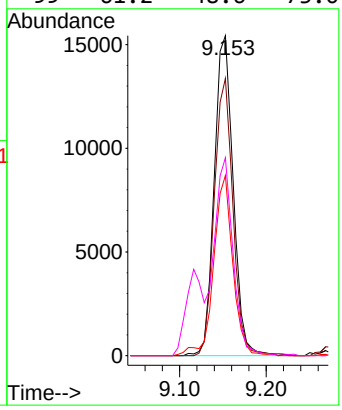




#55
1,1,2-Trichloroethane
Concen: 19.241 ug/l
RT: 9.153 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion: 97 Resp: 2343

Ion	Ratio	Lower	Upper
97	100		
83	86.7	71.8	107.8
85	56.3	47.0	70.6
99	61.2	48.6	73.0



Instrument :
MSVOA_X
ClientSampleId :
VX0402WBS01

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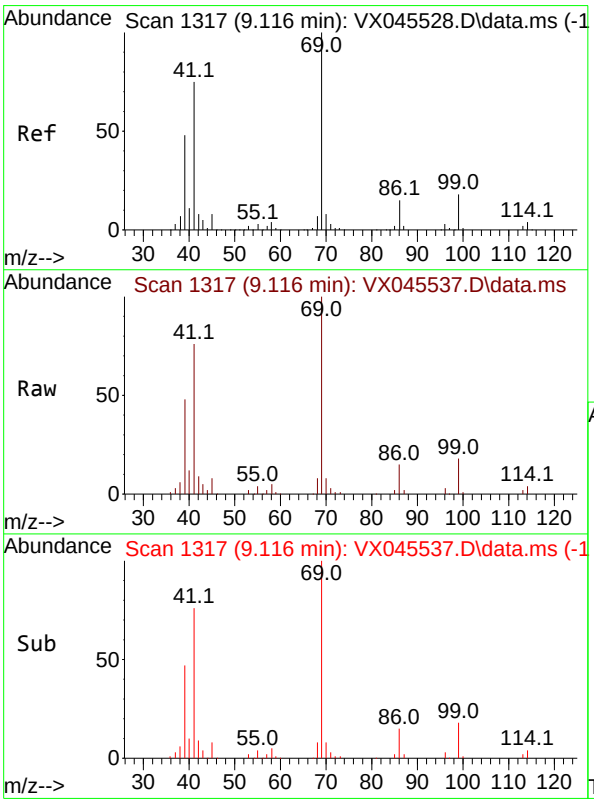
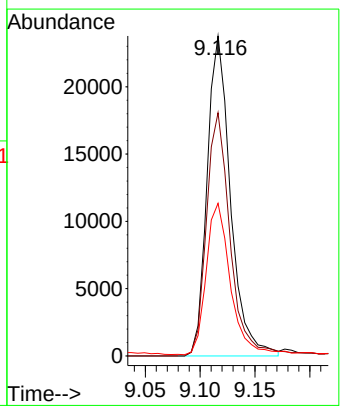
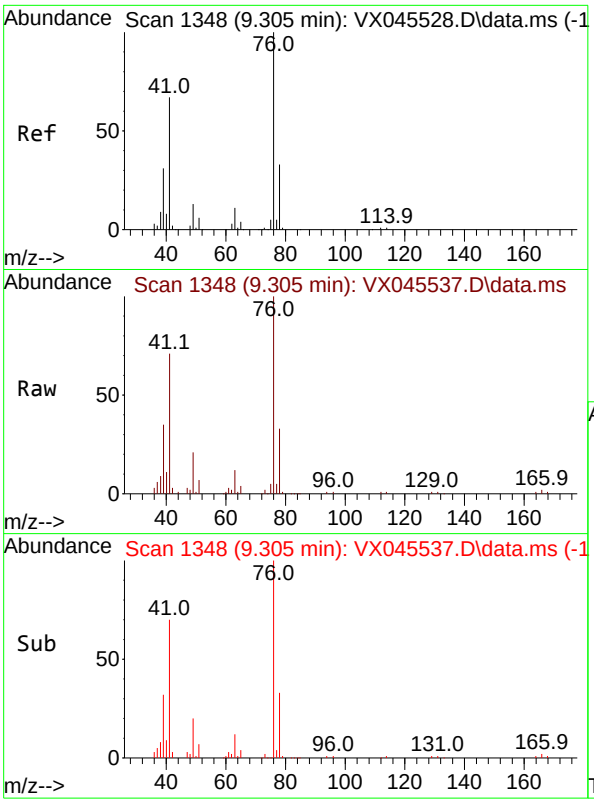


#56
Ethyl methacrylate
Concen: 18.719 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion: 69 Resp: 35277

Ion	Ratio	Lower	Upper
69	100		
41	78.5	61.3	91.9
39	49.0	40.2	60.2

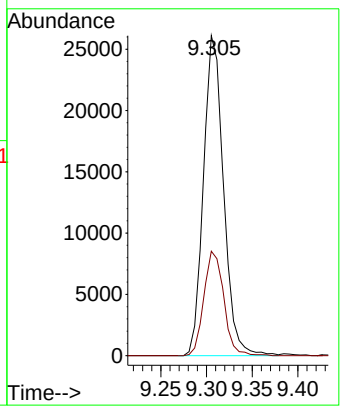




#57
1,3-Dichloropropane
Concen: 18.807 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion: 76 Resp: 3987

Ion	Ratio	Lower	Upper
76	100		
78	32.3	26.0	39.0



Instrument :
MSVOA_X
ClientSampleId :
VX0402WBS01

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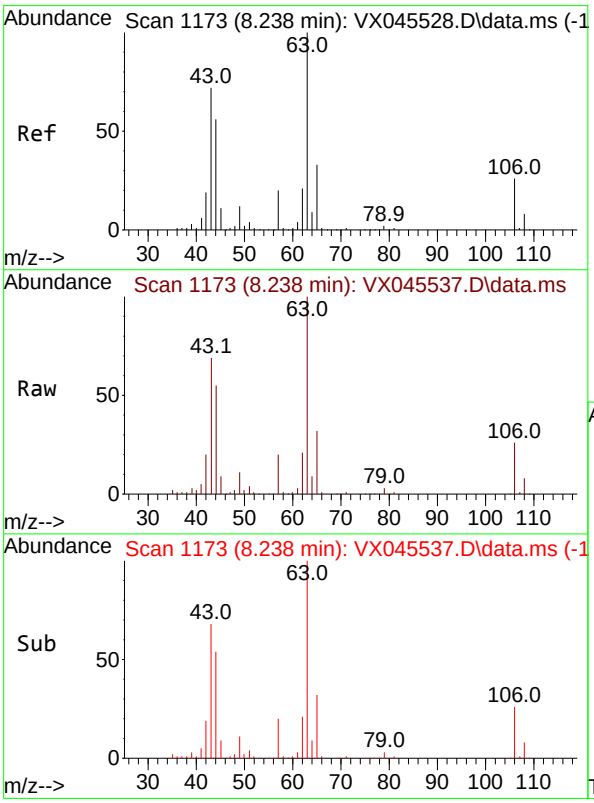
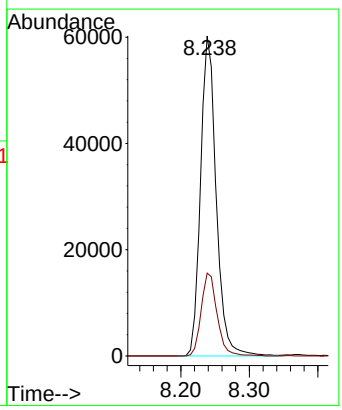
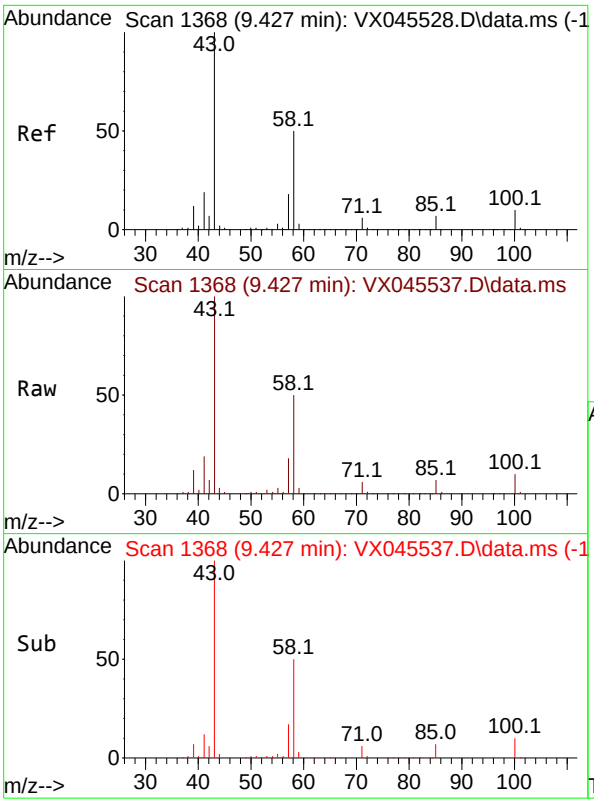


#58
2-Chloroethyl Vinyl ether
Concen: 100.512 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion: 63 Resp: 95822

Ion	Ratio	Lower	Upper
63	100		
106	26.3	21.0	31.6

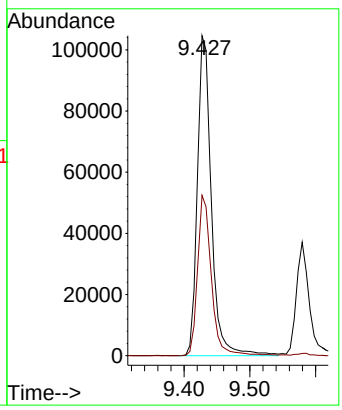




#59
2-Hexanone
Concen: 99.877 ug/l
RT: 9.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion: 43 Resp: 15485

Ion	Ratio	Lower	Upper
43	100		
58	49.5	24.9	74.6



Instrument :
MSVOA_X
ClientSampleId :
VX0402WBS01

Manual Integrations
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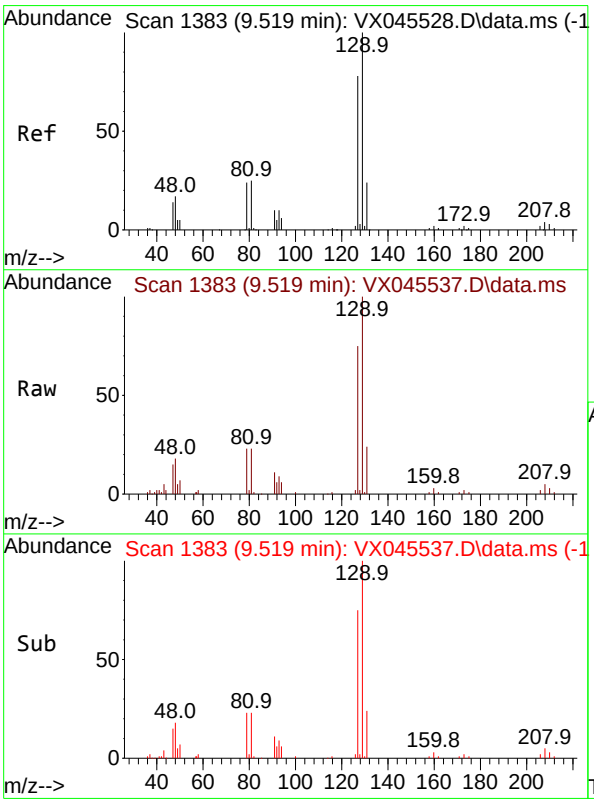
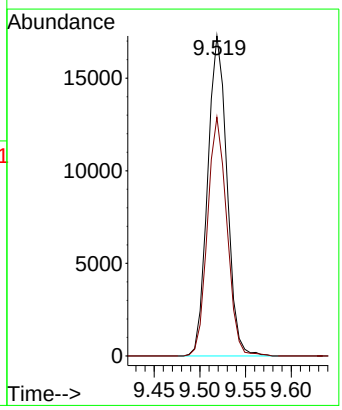
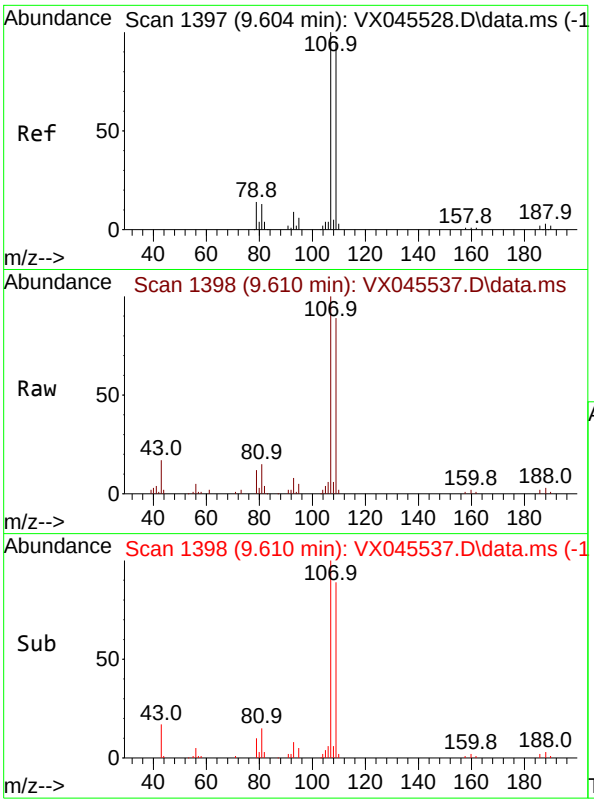


#60
Dibromochloromethane
Concen: 19.103 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion:129 Resp: 25360

Ion	Ratio	Lower	Upper
129	100		
127	74.8	39.4	118.2

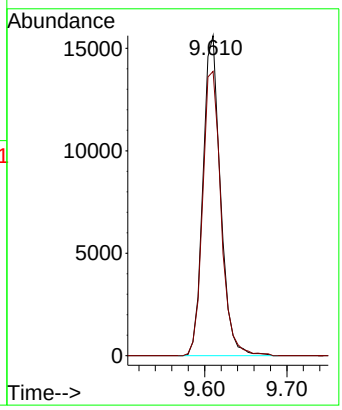




#61
1,2-Dibromoethane
Concen: 18.707 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion:107 Resp: 2306

Ion	Ratio	Lower	Upper
107	100		
109	93.8	75.7	113.5



Instrument :
MSVOA_X
ClientSampleId :
VX0402WBS01

Manual Integrations
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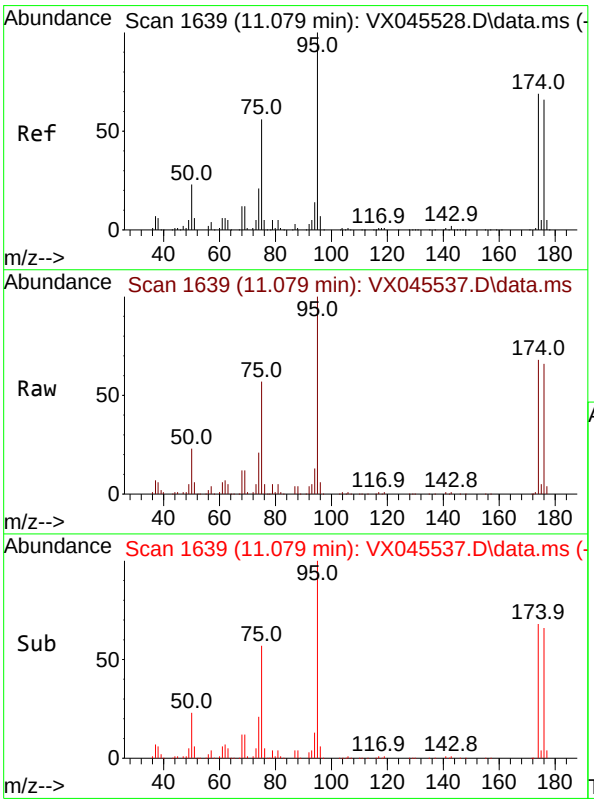
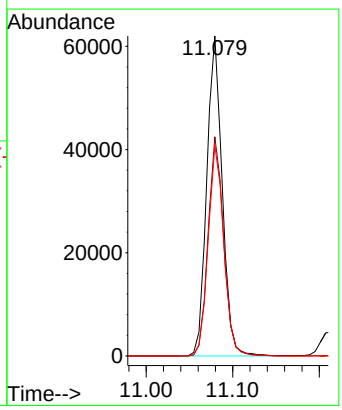
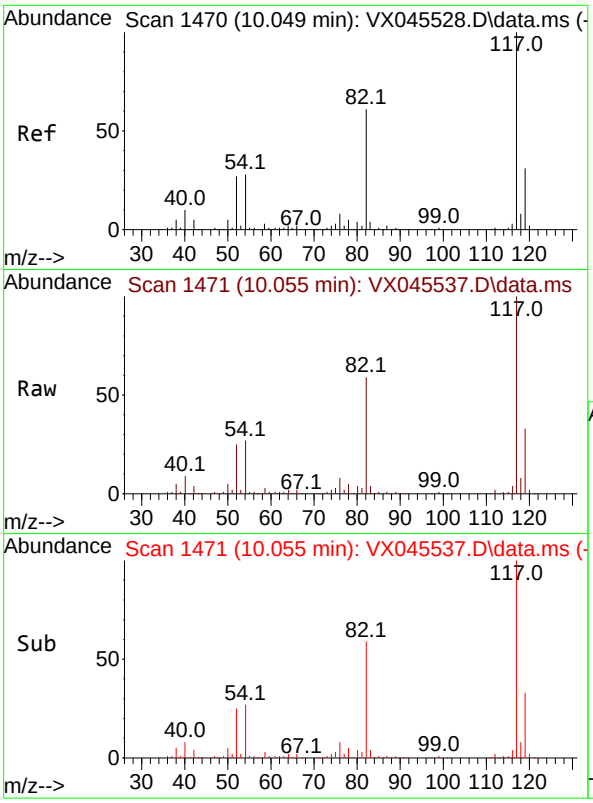


#62
4-Bromofluorobenzene
Concen: 49.317 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion: 95 Resp: 76787

Ion	Ratio	Lower	Upper
95	100		
174	69.1	0.0	135.8
176	66.6	0.0	131.4

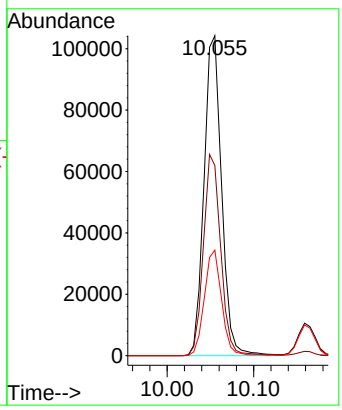




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion:117 Resp: 14722

Ion	Ratio	Lower	Upper
117	100		
82	59.5	49.2	73.8
119	33.0	25.1	37.7



Instrument :
MSVOA_X
ClientSampleId :
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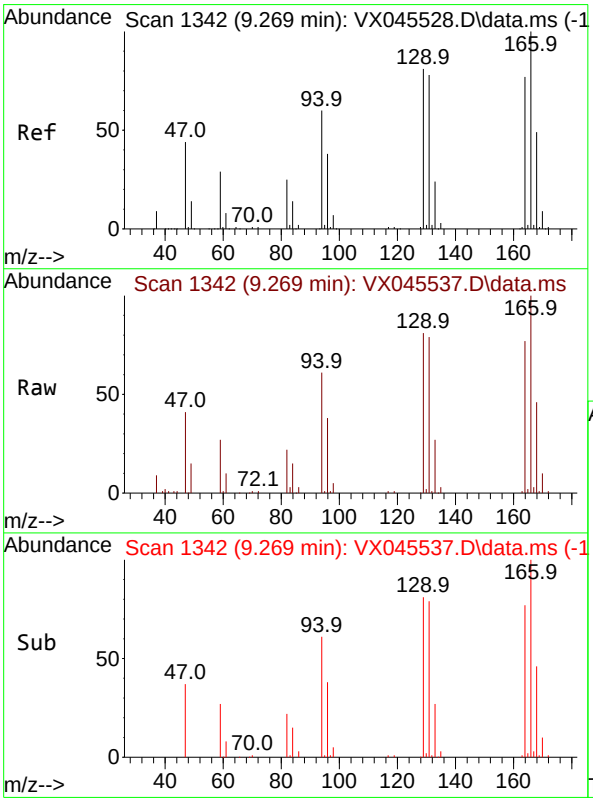
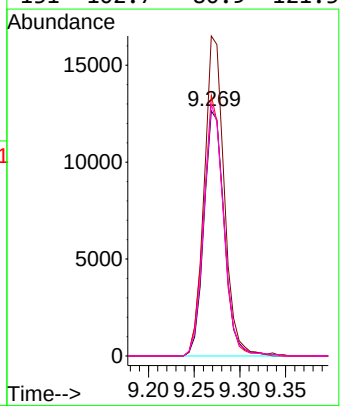
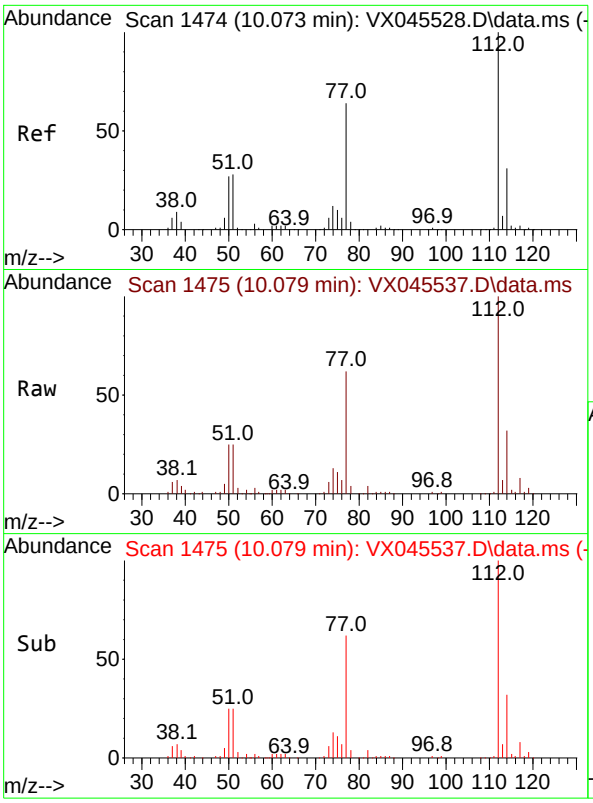


#64
Tetrachloroethene
Concen: 18.694 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion:164 Resp: 19432

Ion	Ratio	Lower	Upper
164	100		
166	130.6	103.8	155.8
129	106.2	84.3	126.5
131	102.7	80.9	121.3

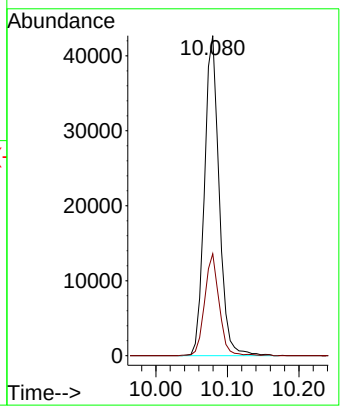




#65
Chlorobenzene
Concen: 19.376 ug/l
RT: 10.079 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion:112 Resp: 6095

Ion	Ratio	Lower	Upper
112	100		
114	31.8	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
VX0402WBS01

Manual Integrations
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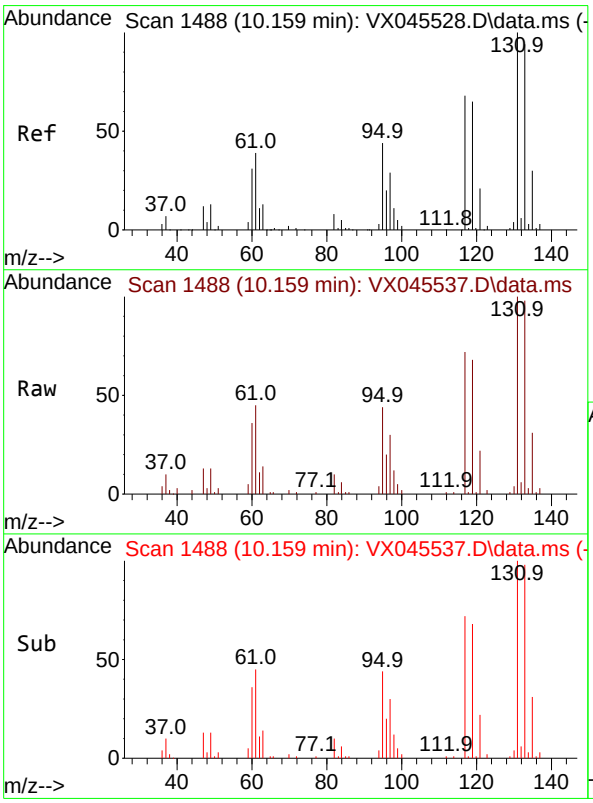
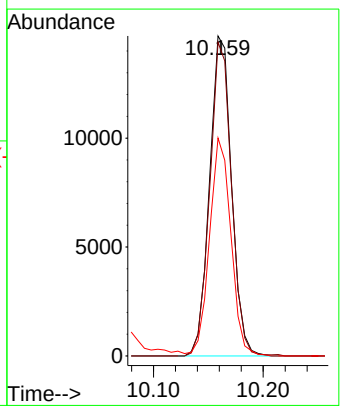
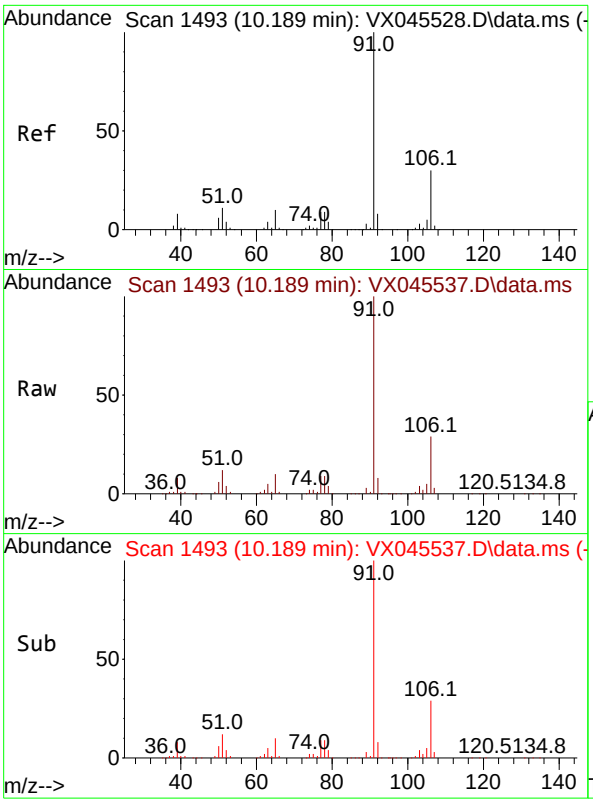


#66
1,1,1,2-Tetrachloroethane
Concen: 18.723 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion:131 Resp: 20450

Ion	Ratio	Lower	Upper
131	100		
133	96.9	47.5	142.5
119	66.3	32.9	98.6

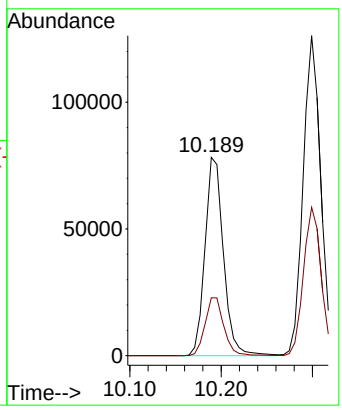




#67
Ethyl Benzene
Concen: 19.444 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion: 91 Resp: 10955

Ion	Ratio	Lower	Upper
91	100		
106	29.2	23.7	35.5



Instrument :
MSVOA_X
ClientSampleId :
VX0402WBS01

Manual Integrations
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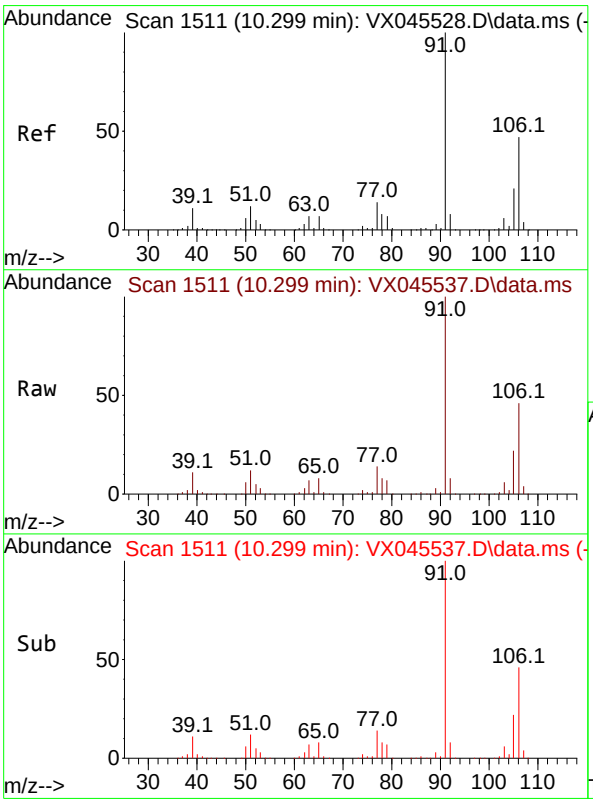
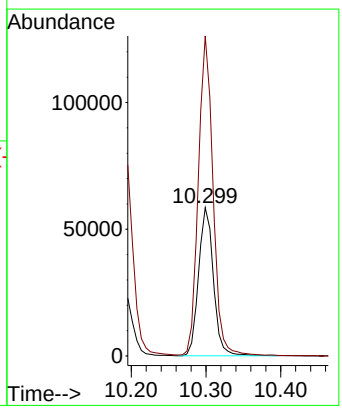
Reviewed By :John Carlone 04/03/2025
Supervised By :Mahesh Dadoda 04/03/2025

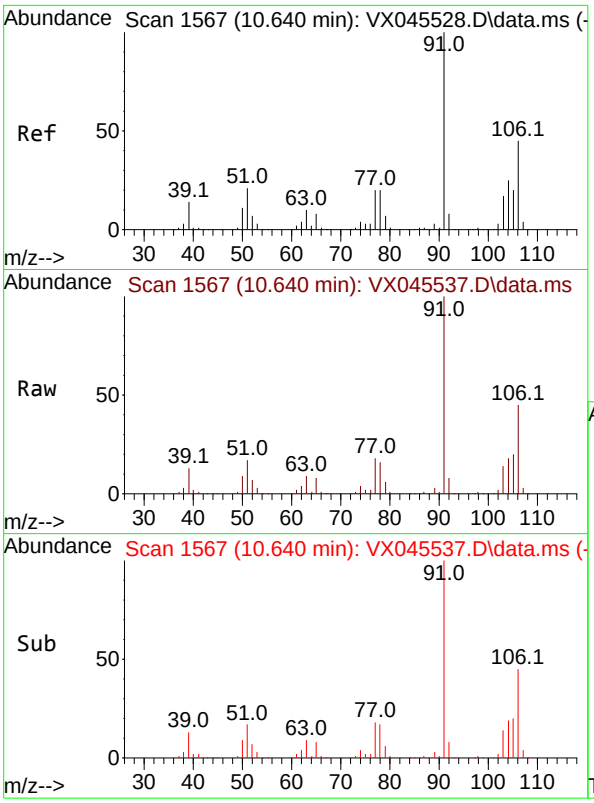


#68
m/p-Xylenes
Concen: 39.394 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion:106 Resp: 80731

Ion	Ratio	Lower	Upper
106	100		
91	214.0	172.6	258.8

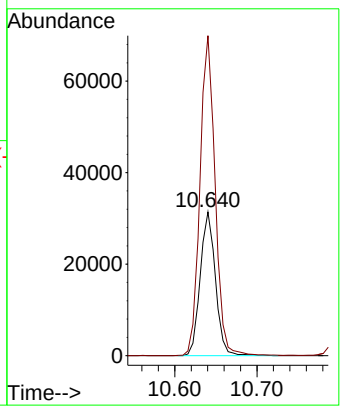




#69
o-Xylene
Concen: 20.023 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion:106 Resp: 4042

Ion	Ratio	Lower	Upper
106	100		
91	221.6	113.6	340.6



Instrument :
MSVOA_X
ClientSampleId :
VX0402WBS01

Manual Integrations
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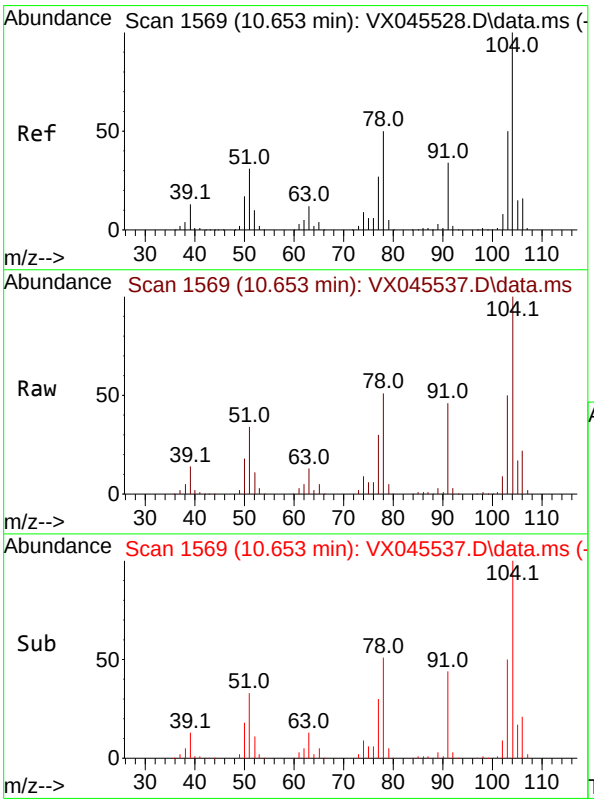
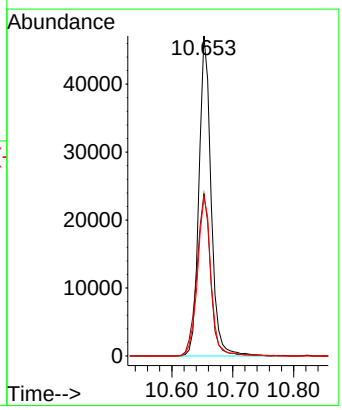
Reviewed By :John Carlone 04/03/2025
Supervised By :Mahesh Dadoda 04/03/2025

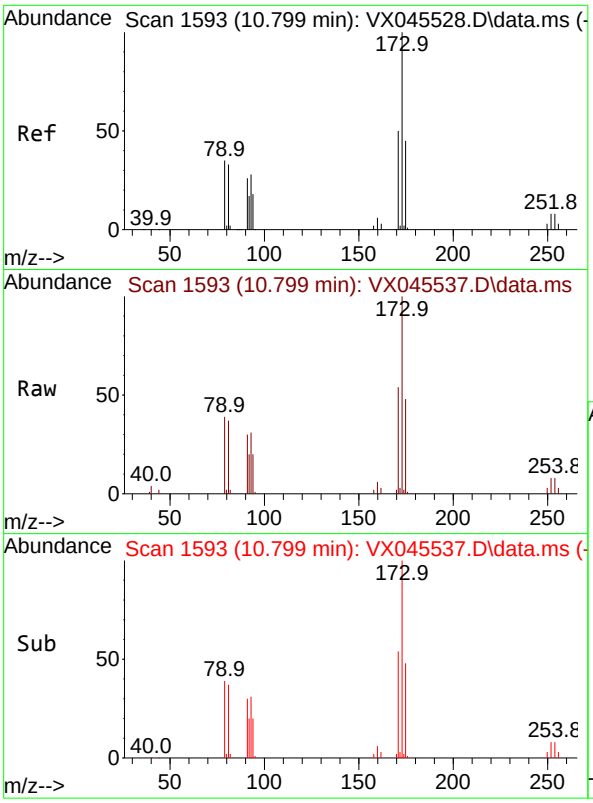


#70
Styrene
Concen: 19.575 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion:104 Resp: 65225

Ion	Ratio	Lower	Upper
104	100		
78	57.1	45.4	68.2
103	55.3	43.8	65.8

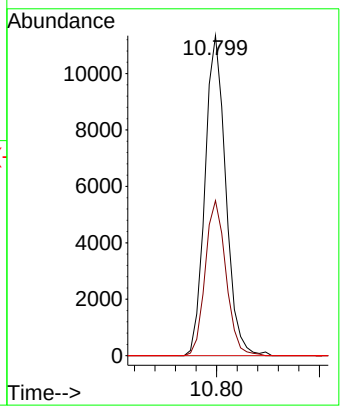




#71
Bromoform
Concen: 19.505 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion:173 Resp: 1590

Ion	Ratio	Lower	Upper
173	100		
175	48.4	23.4	70.2
254	0.0	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
VX0402WBS01

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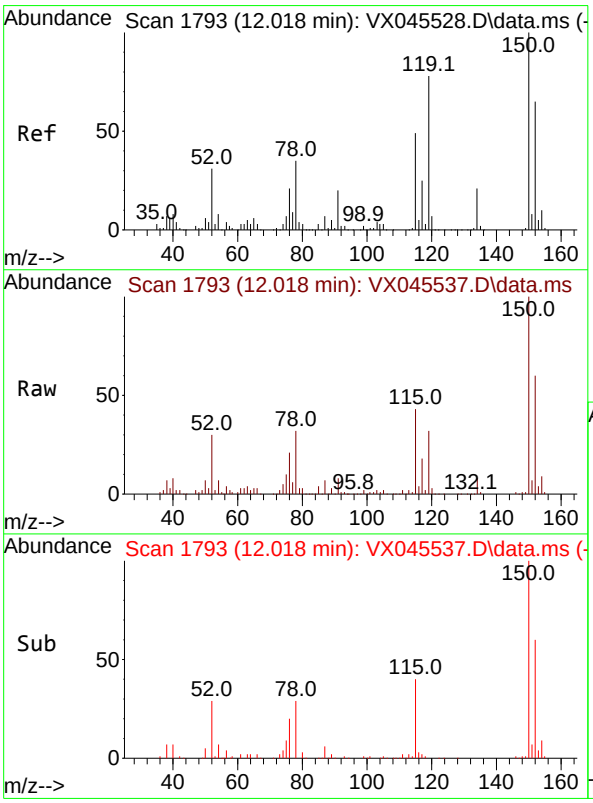
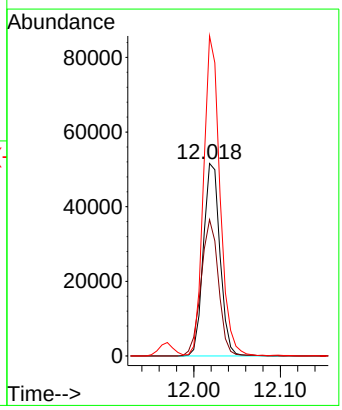
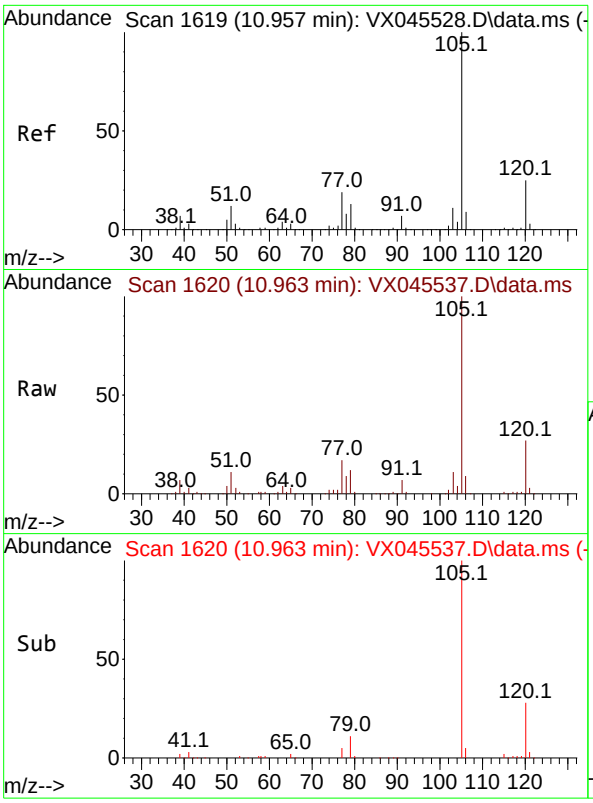


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion:152 Resp: 68695

Ion	Ratio	Lower	Upper
152	100		
115	74.3	46.9	140.7
150	163.9	0.0	349.4





#73
Isopropylbenzene
Concen: 18.880 ug/l
RT: 10.963 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion:105 Resp: 10388

Ion	Ratio	Lower	Upper
105	100		
120	26.1	12.7	38.0

Instrument :
MSVOA_X
ClientSampleId :
VX0402WBS01

Manual Integrations
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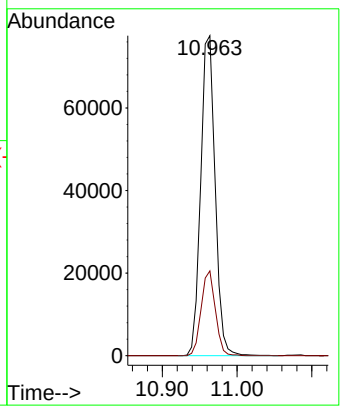
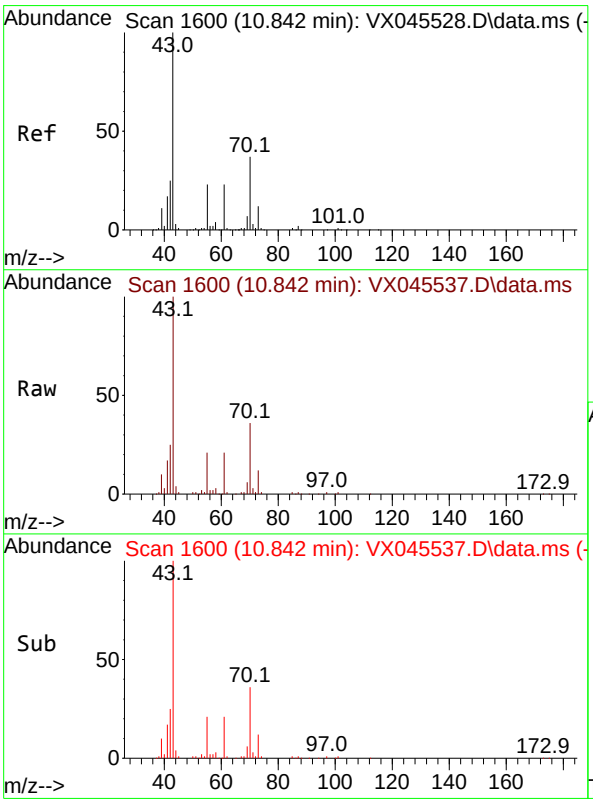
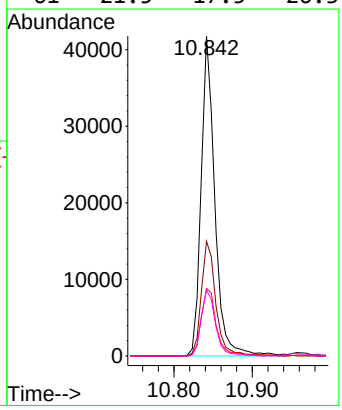


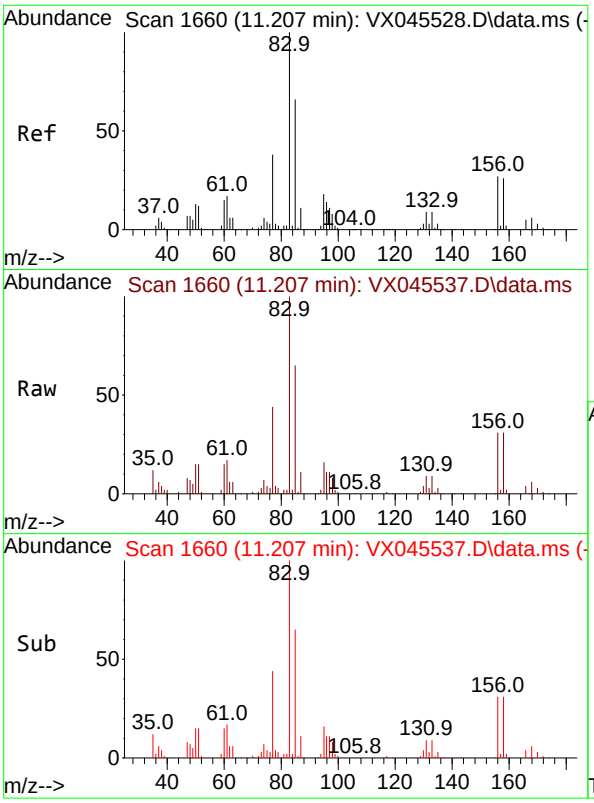


#74
N-amyl acetate
Concen: 19.296 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion: 43 Resp: 50789

Ion	Ratio	Lower	Upper
43	100		
70	38.0	30.1	45.1
55	23.3	18.3	27.5
61	21.5	17.5	26.3

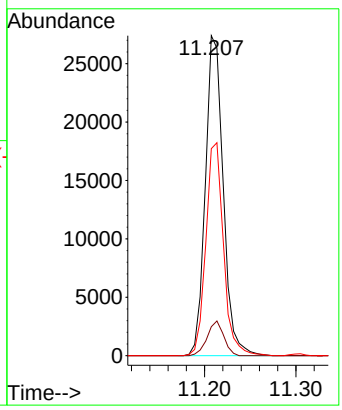




#75
1,1,2,2-Tetrachloroethane
Concen: 19.211 ug/l
RT: 11.207 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion: 83 Resp: 3713

Ion	Ratio	Lower	Upper
83	100		
131	10.1	4.7	14.1
85	65.8	32.4	97.2



Instrument :
MSVOA_X
ClientSampleId :
VX0402WBS01

Manual Integrations
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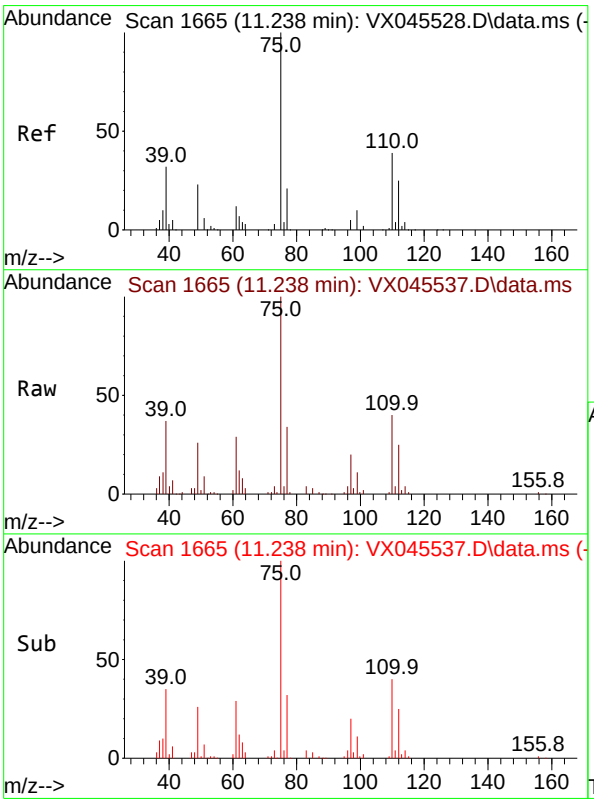
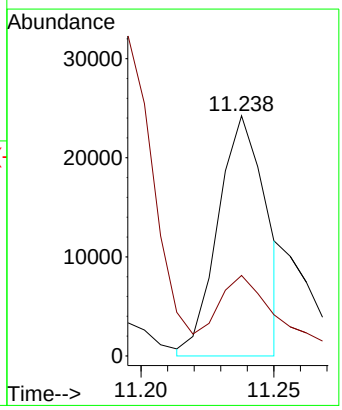
Reviewed By :John Carlone 04/03/2025
Supervised By :Mahesh Dadoda 04/03/2025

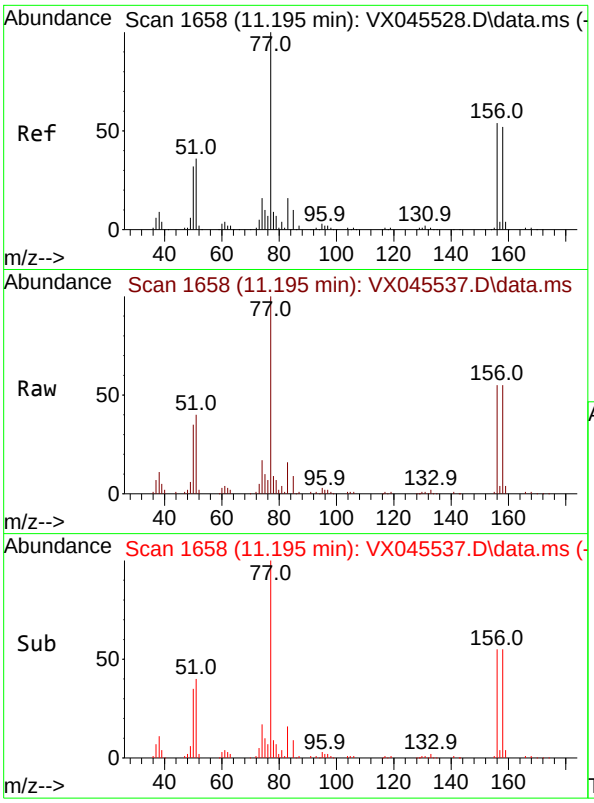


#76
1,2,3-Trichloropropane
Concen: 18.218 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion: 75 Resp: 30527

Ion	Ratio	Lower	Upper
75	100		
77	43.1	20.0	59.9

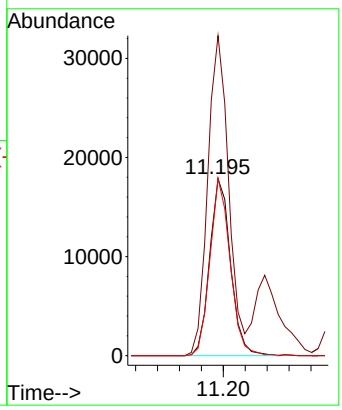




#77
Bromobenzene
Concen: 18.589 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion:156 Resp: 2363

Ion	Ratio	Lower	Upper
156	100		
77	180.4	92.6	277.8
158	97.2	48.1	144.4



Instrument :
MSVOA_X
ClientSampleId :
VX0402WBS01

Manual Integrations
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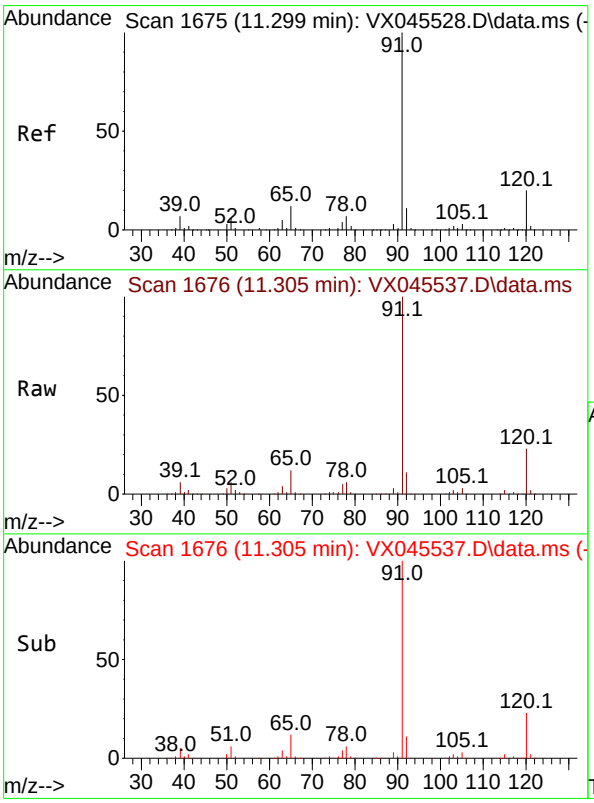
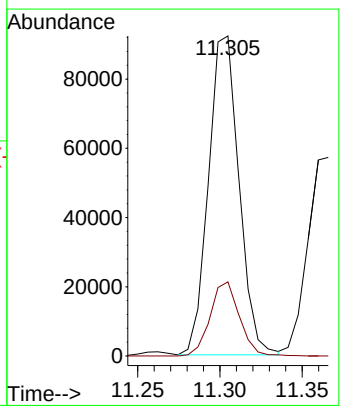
Reviewed By :John Carlone 04/03/2025
Supervised By :Mahesh Dadoda 04/03/2025

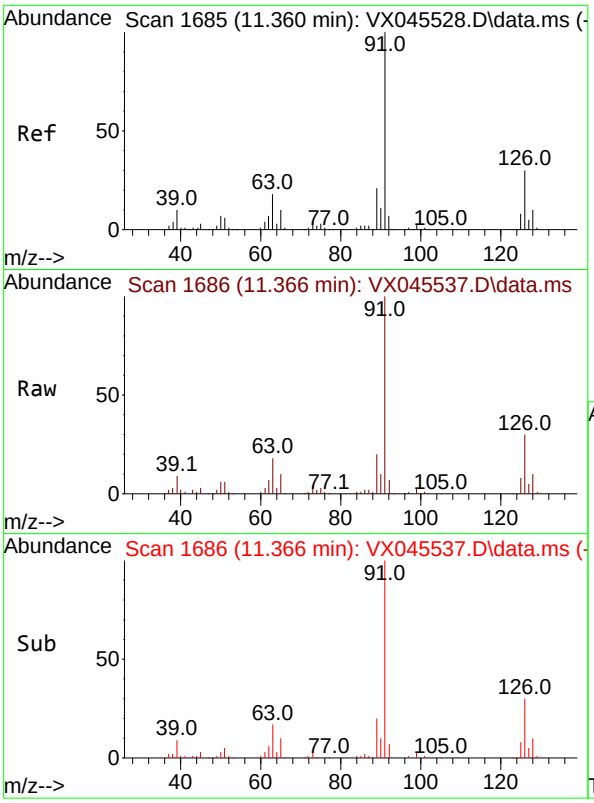


#78
n-propylbenzene
Concen: 18.780 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.006 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion: 91 Resp: 119031

Ion	Ratio	Lower	Upper
91	100		
120	22.3	10.8	32.3

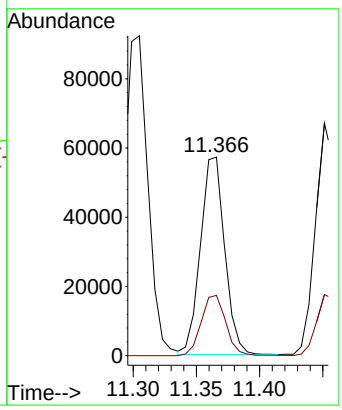




#79
2-Chlorotoluene
Concen: 18.833 ug/l
RT: 11.366 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion: 91 Resp: 7631

Ion	Ratio	Lower	Upper
91	100		
126	31.0	15.8	47.4



Instrument :
MSVOA_X
ClientSampleId :
VX0402WBS01

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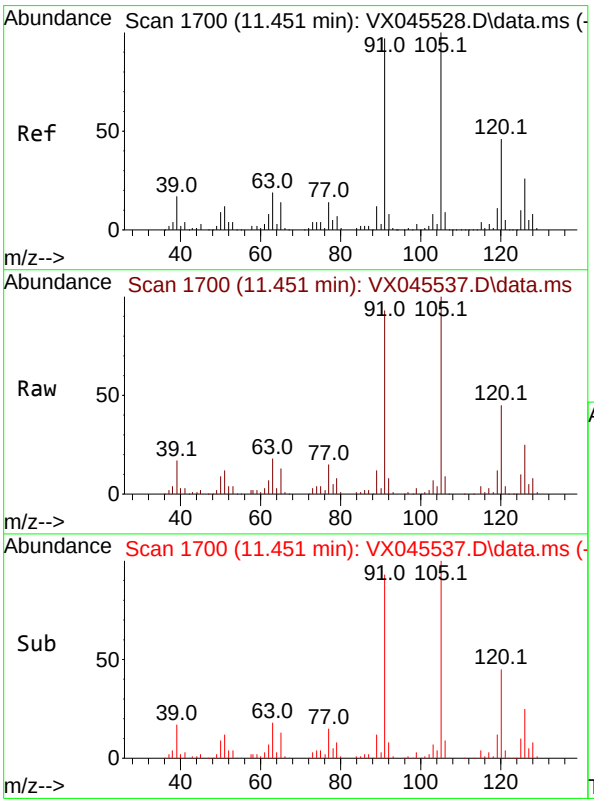
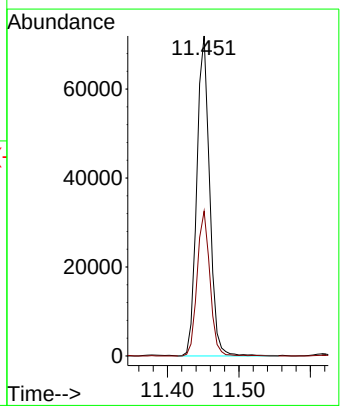
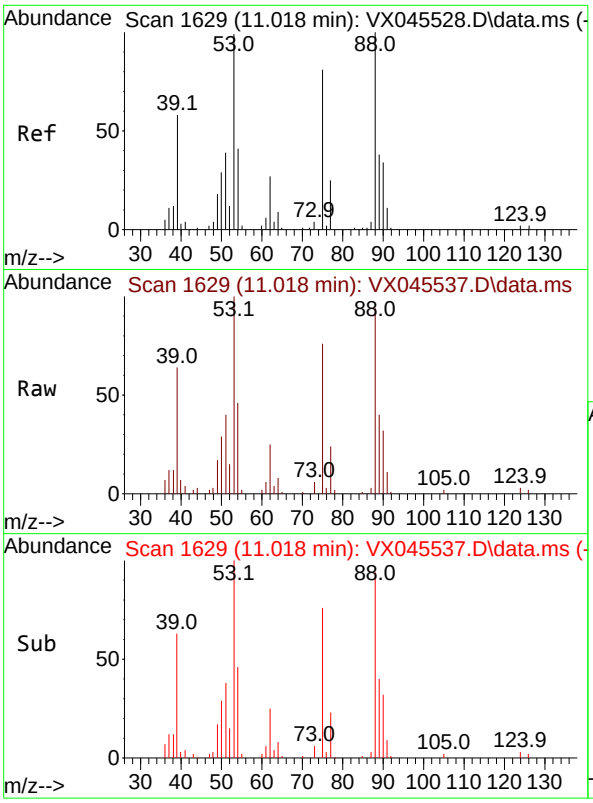


#80
1,3,5-Trimethylbenzene
Concen: 19.691 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion:105 Resp: 89596

Ion	Ratio	Lower	Upper
105	100		
120	45.2	23.0	69.0

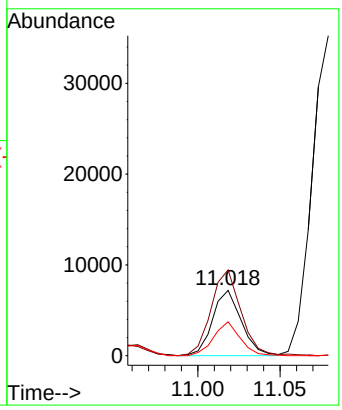




#81
trans-1,4-Dichloro-2-butene
Concen: 17.808 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion: 75 Resp: 879

Ion	Ratio	Lower	Upper
75	100		
53	136.6	101.8	152.6
89	47.6	37.2	55.8



Instrument :
MSVOA_X
ClientSampleId :
VX0402WBS01

Manual Integrations
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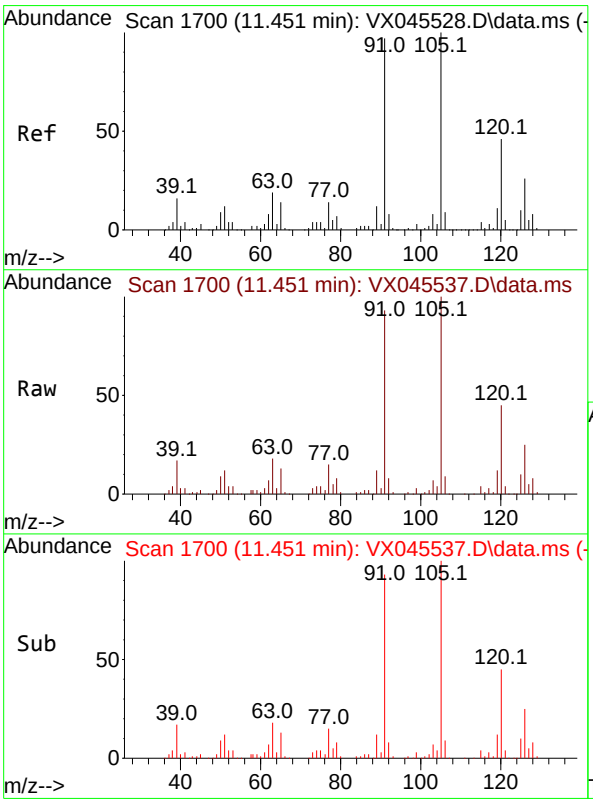
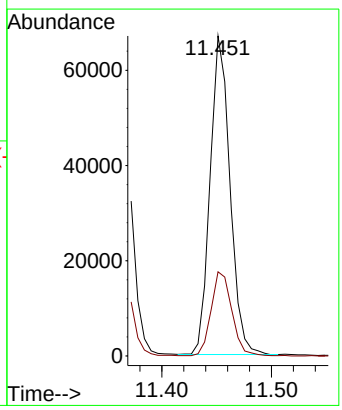
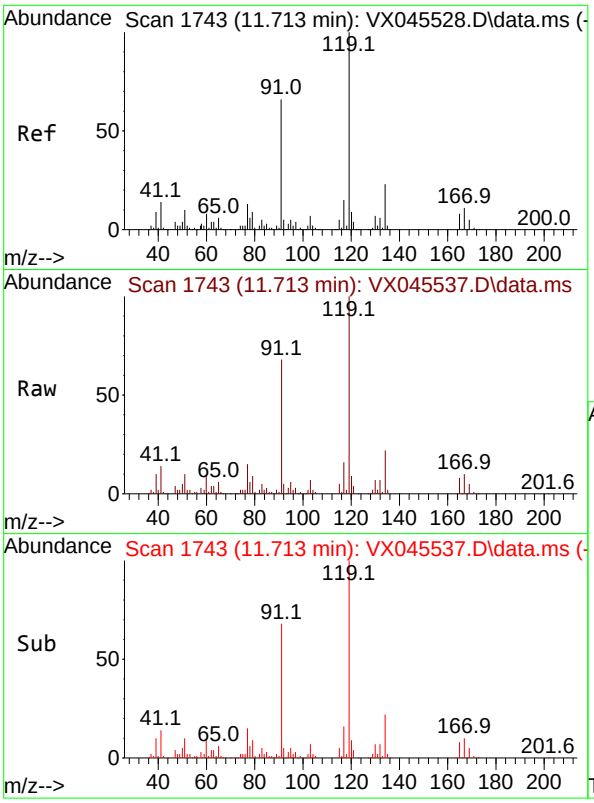


#82
4-Chlorotoluene
Concen: 18.659 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion: 91 Resp: 84294

Ion	Ratio	Lower	Upper
91	100		
126	27.7	13.3	39.9

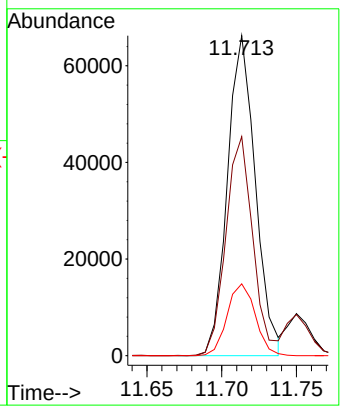




#83
tert-Butylbenzene
Concen: 19.107 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion:119 Resp: 8607

Ion	Ratio	Lower	Upper
119	100		
91	66.7	32.4	97.2
134	22.6	11.5	34.5



Instrument :
MSVOA_X
ClientSampleId :
VX0402WBS01

Manual Integrations
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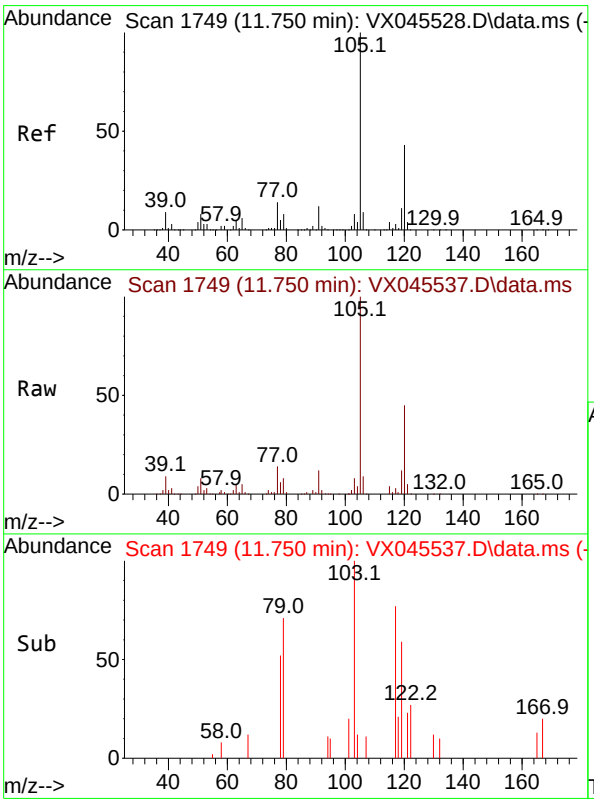
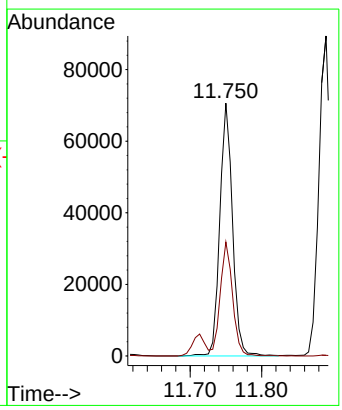
Reviewed By :John Carlone 04/03/2025
Supervised By :Mahesh Dadoda 04/03/2025

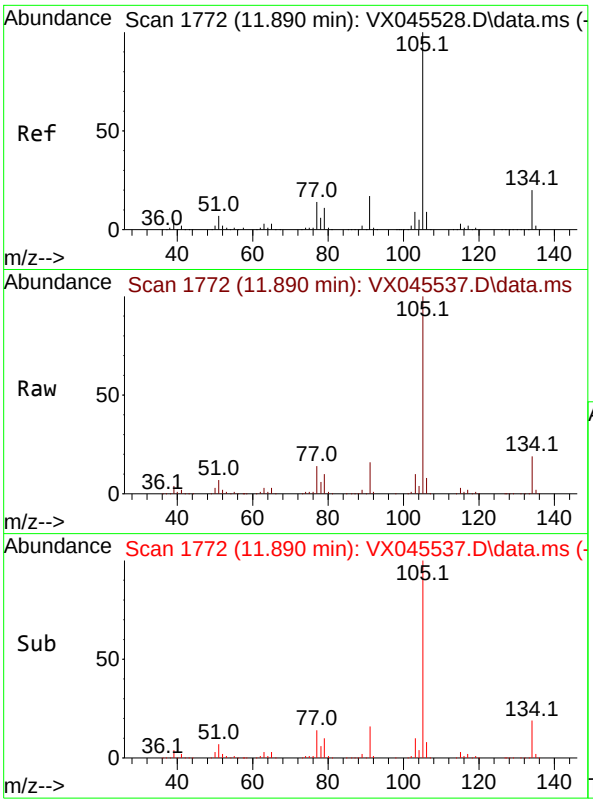


#84
1,2,4-Trimethylbenzene
Concen: 19.076 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion:105 Resp: 87116

Ion	Ratio	Lower	Upper
105	100		
120	44.0	21.4	64.3

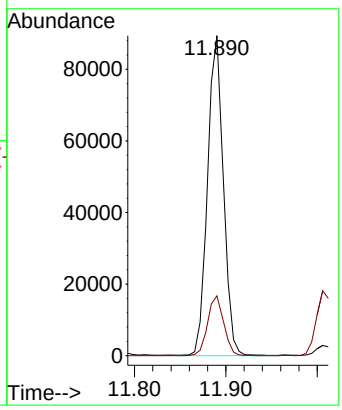




#85
sec-Butylbenzene
Concen: 19.451 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion:105 Resp: 10762

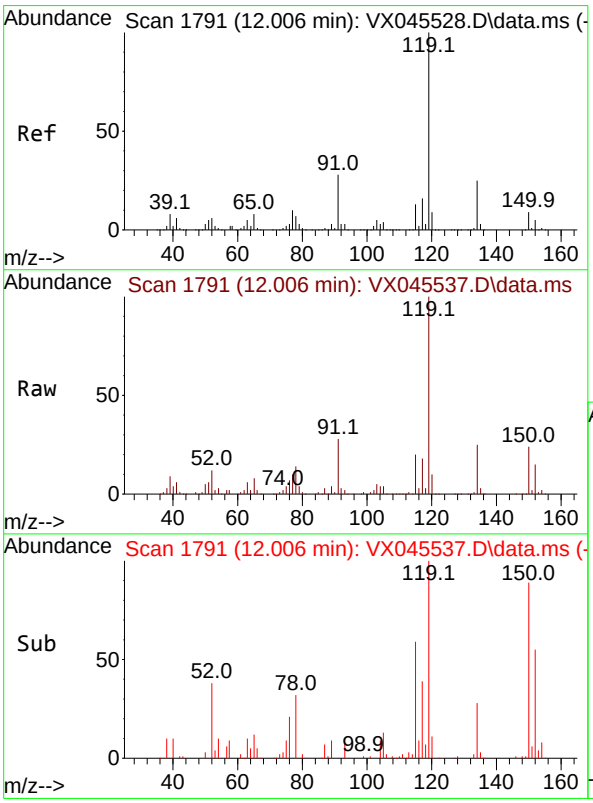
Ion	Ratio	Lower	Upper
105	100		
134	19.0	9.6	28.6



Instrument :
MSVOA_X
ClientSampleId :
VX0402WBS01

Manual Integrations
APPROVED

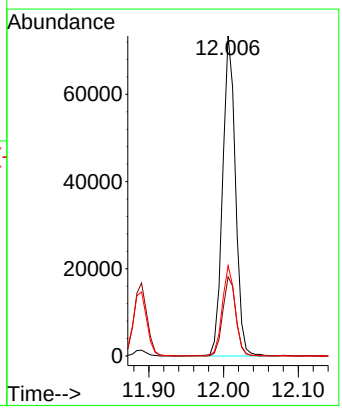
Reviewed By :John Carlone 04/03/2025
Supervised By :Mahesh Dadoda 04/03/2025

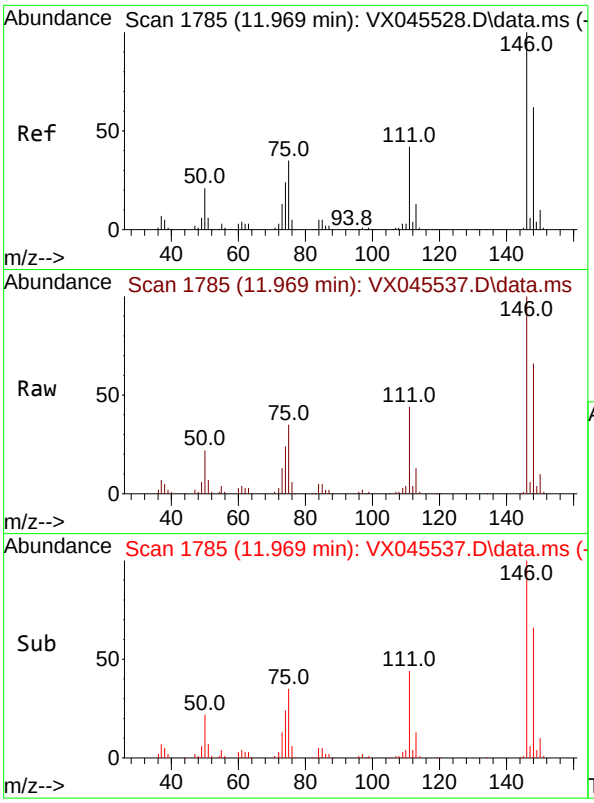


#86
p-Isopropyltoluene
Concen: 19.204 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion:119 Resp: 87600

Ion	Ratio	Lower	Upper
119	100		
134	25.1	12.6	37.8
91	28.1	13.7	41.1

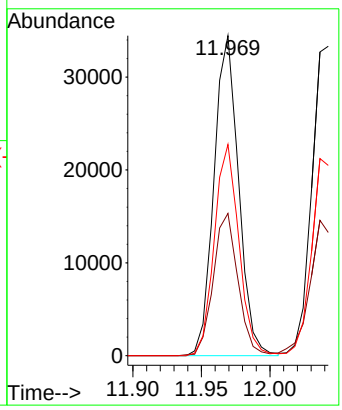




#87
1,3-Dichlorobenzene
Concen: 18.599 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion:146 Resp: 4304

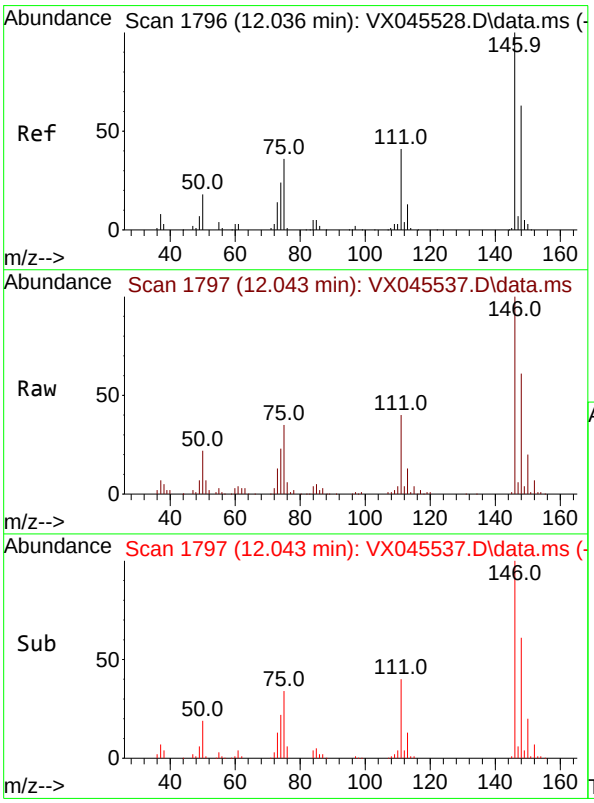
Ion	Ratio	Lower	Upper
146	100		
111	44.6	22.2	66.6
148	65.9	31.9	95.7



Instrument :
MSVOA_X
ClientSampleId :
VX0402WBS01

Manual Integrations
APPROVED

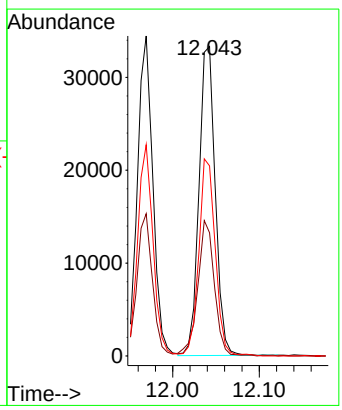
Reviewed By :John Carlone 04/03/2025
Supervised By :Mahesh Dadoda 04/03/2025

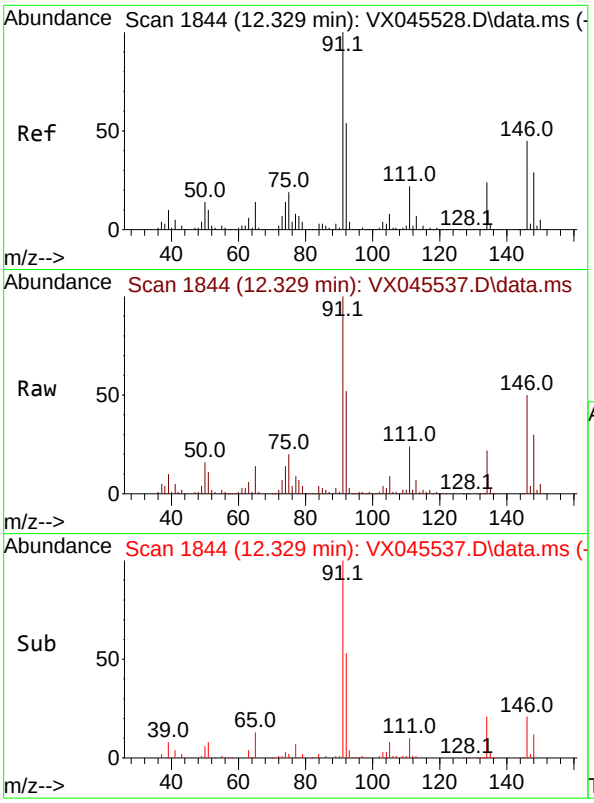


#88
1,4-Dichlorobenzene
Concen: 18.525 ug/l
RT: 12.043 min Scan# 1797
Delta R.T. 0.006 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion:146 Resp: 43463

Ion	Ratio	Lower	Upper
146	100		
111	45.0	20.9	62.8
148	64.7	31.5	94.5

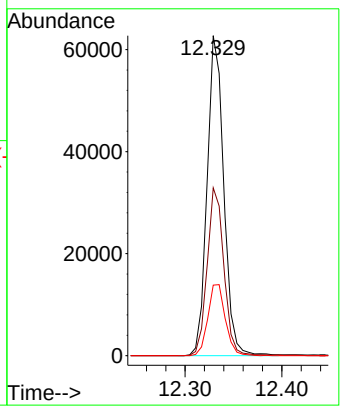




#89
n-Butylbenzene
Concen: 19.046 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion: 91 Resp: 7533

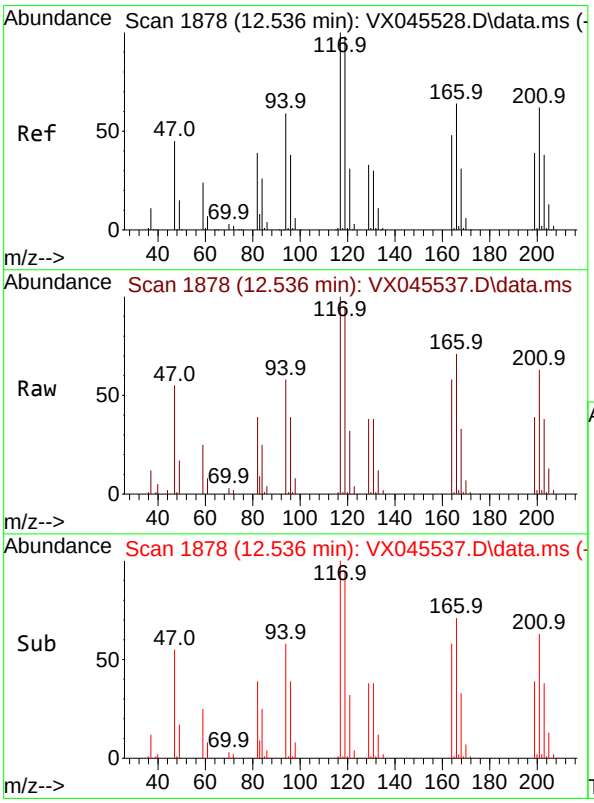
Ion	Ratio	Lower	Upper
91	100		
92	52.8	26.9	80.6
134	23.3	11.9	35.7



Instrument :
MSVOA_X
ClientSampleId :
VX0402WBS01

Manual Integrations
APPROVED

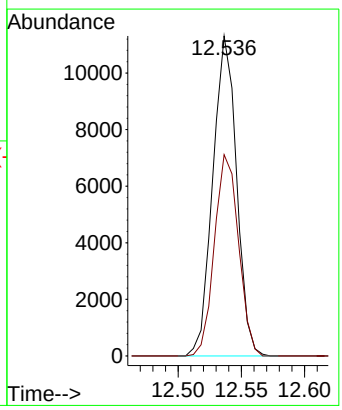
Reviewed By :John Carlone 04/03/2025
Supervised By :Mahesh Dadoda 04/03/2025

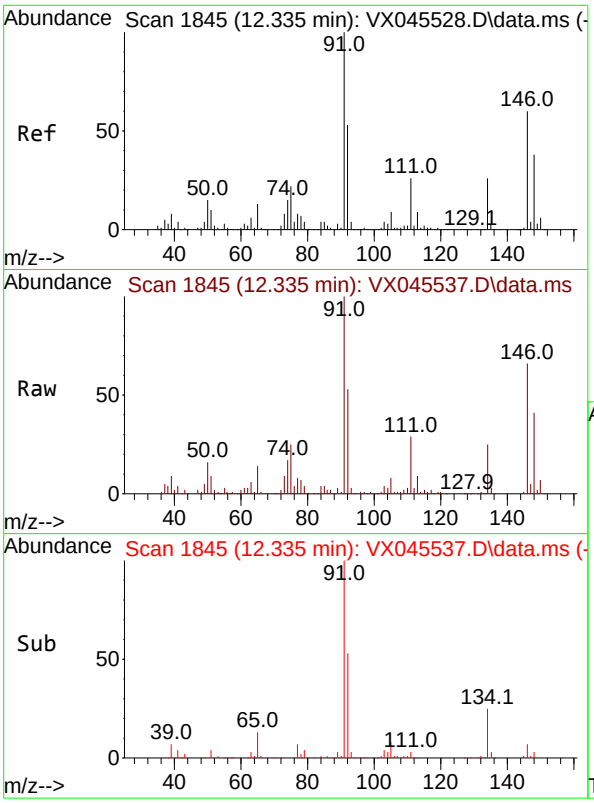


#90
Hexachloroethane
Concen: 18.834 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion:117 Resp: 14765

Ion	Ratio	Lower	Upper
117	100		
201	63.8	31.2	93.6

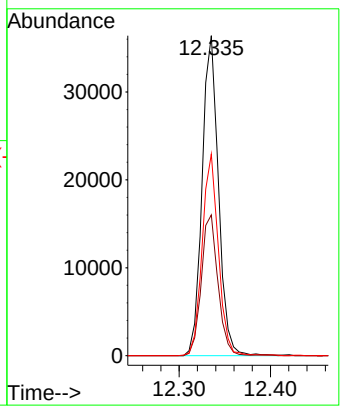




#91
1,2-Dichlorobenzene
Concen: 19.607 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion:146 Resp: 4511

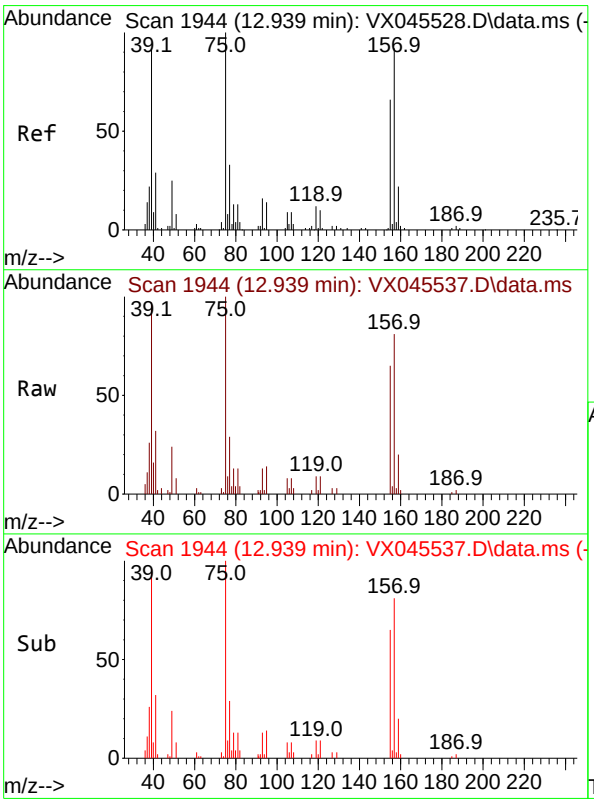
Ion	Ratio	Lower	Upper
146	100		
111	44.9	22.9	68.8
148	62.5	31.9	95.5



Instrument :
MSVOA_X
ClientSampleId :
VX0402WBS01

Manual Integrations
APPROVED

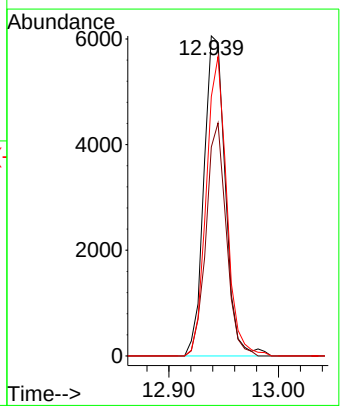
Reviewed By :John Carlone 04/03/2025
Supervised By :Mahesh Dadoda 04/03/2025

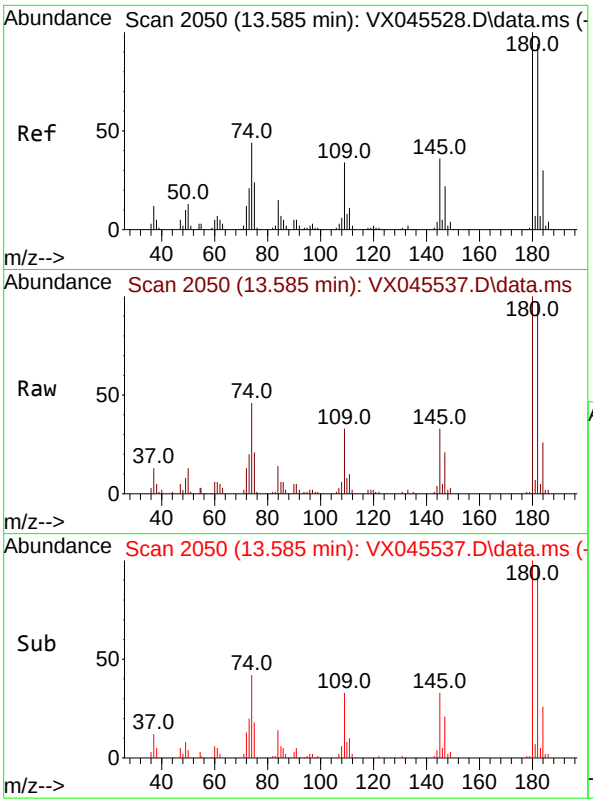


#92
1,2-Dibromo-3-Chloropropane
Concen: 20.265 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion: 75 Resp: 8192

Ion	Ratio	Lower	Upper
75	100		
155	68.8	34.9	104.7
157	89.4	44.9	134.7

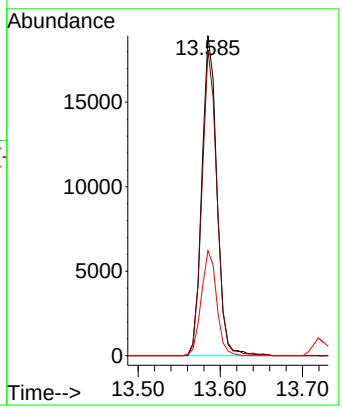




#93
1,2,4-Trichlorobenzene
Concen: 18.708 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion:180 Resp: 2396

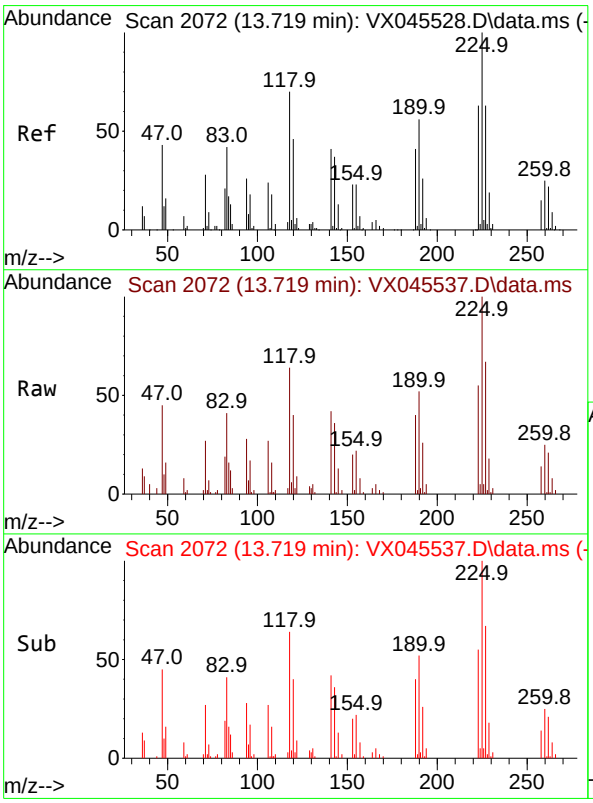
Ion	Ratio	Lower	Upper
180	100		
182	95.3	47.9	143.6
145	33.5	17.9	53.8



Instrument :
MSVOA_X
ClientSampleId :
VX0402WBS01

Manual Integrations
APPROVED

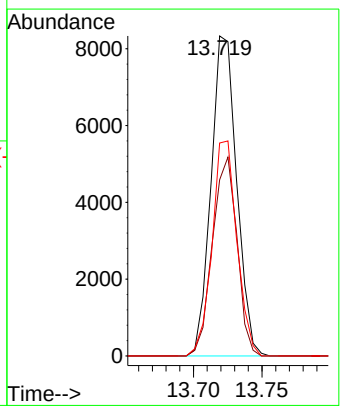
Reviewed By :John Carlone 04/03/2025
Supervised By :Mahesh Dadoda 04/03/2025

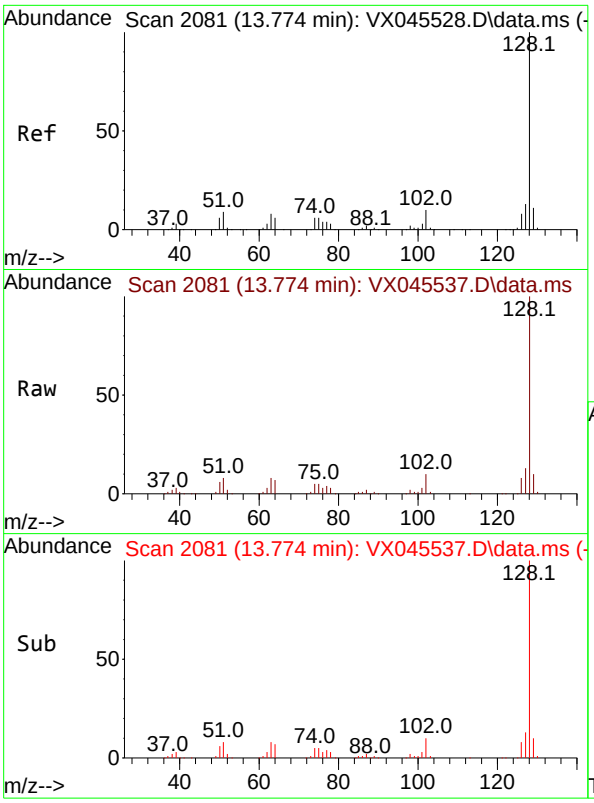


#94
Hexachlorobutadiene
Concen: 19.669 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. 0.000 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion:225 Resp: 10855

Ion	Ratio	Lower	Upper
225	100		
223	59.4	31.1	93.3
227	65.0	32.2	96.6

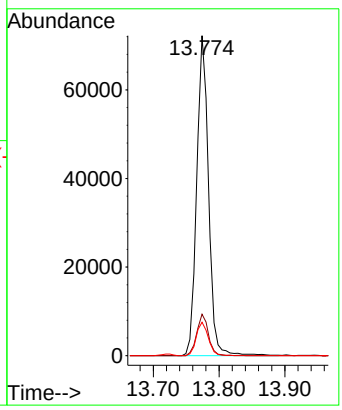




#95
Naphthalene
Concen: 18.856 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion:128 Resp: 8986

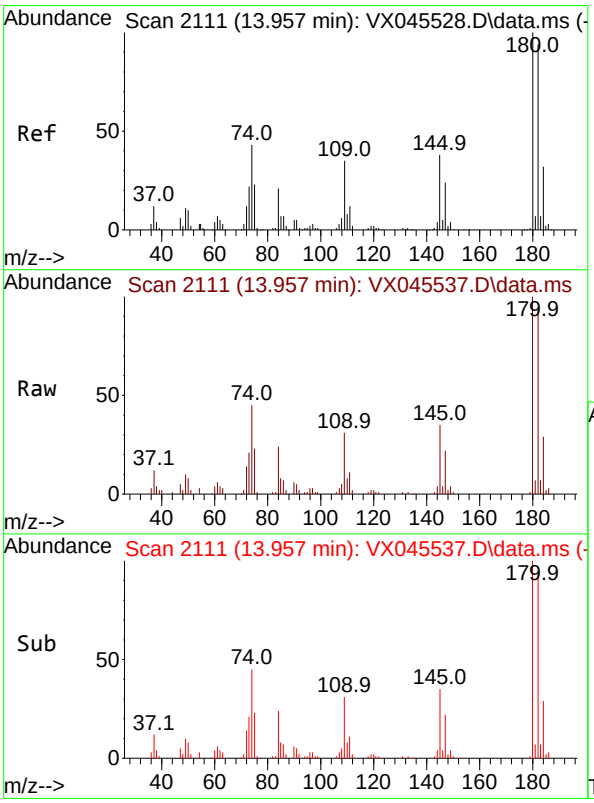
Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.3	15.5
129	10.6	8.6	12.8



Instrument :
MSVOA_X
ClientSampleId :
VX0402WBS01

Manual Integrations
APPROVED

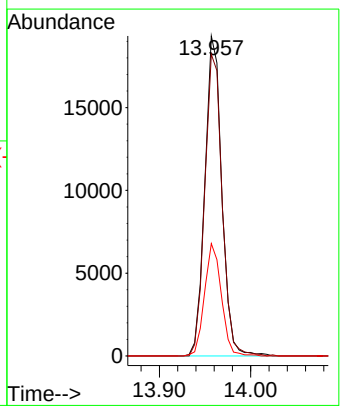
Reviewed By :John Carlone 04/03/2025
Supervised By :Mahesh Dadoda 04/03/2025



#96
1,2,3-Trichlorobenzene
Concen: 18.547 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX045537.D
Acq: 02 Apr 2025 11:16

Tgt Ion:180 Resp: 24874

Ion	Ratio	Lower	Upper
180	100		
182	96.4	47.3	141.8
145	34.9	18.2	54.6



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:	VX0403WBS01	SDG No.:	Q1697
Lab Sample ID:	VX0403WBS01	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
VX045563.D	1		04/03/25 12:08	VX040325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	18.9		0.26	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.8		0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	18.7		0.23	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	18.2		0.19	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	18.4		0.20	1.00	ug/L
71-43-2	Benzene	18.7		0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	19.6		0.22	1.00	ug/L
79-01-6	Trichloroethene	18.5		0.090	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	19.1		0.21	1.00	ug/L
127-18-4	Tetrachloroethene	18.4		0.23	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.8		70 (74) - 130 (125)	98%	SPK: 50
1868-53-7	Dibromofluoromethane	48.5		70 (75) - 130 (124)	97%	SPK: 50
2037-26-5	Toluene-d8	48.5		70 (86) - 130 (113)	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.0		70 (77) - 130 (121)	98%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	95000	5.544			
540-36-3	1,4-Difluorobenzene	168000	6.757			
3114-55-4	Chlorobenzene-d5	149000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	68900	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

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040325\
Data File : VX045563.D
Acq On : 03 Apr 2025 12:08
Operator : JC/MD
Sample : VX0403WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 04 01:19:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0403WBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/04/2025
Supervised By :Mahesh Dadoda 04/04/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	95034	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	168178	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	149052	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	68919	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	84848	48.821	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 97.640%			
35) Dibromofluoromethane	5.385	113	57839	48.473	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 96.940%			
50) Toluene-d8	8.647	98	202186	48.546	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 97.100%			
62) 4-Bromofluorobenzene	11.079	95	74358	49.015	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 98.040%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	28474	20.035	ug/l	97
3) Chloromethane	1.307	50	27632	18.925	ug/l	98
4) Vinyl Chloride	1.374	62	25260	18.904	ug/l	99
5) Bromomethane	1.593	94	11759	18.560	ug/l	97
6) Chloroethane	1.672	64	14325	20.206	ug/l	97
7) Trichlorofluoromethane	1.880	101	38645	19.395	ug/l	100
8) Diethyl Ether	2.130	74	12406	18.545	ug/l	95
9) 1,1,2-Trichlorotrifluo...	2.319	101	22653	19.402	ug/l	97
10) Methyl Iodide	2.447	142	26828	18.421	ug/l	98
11) Tert butyl alcohol	2.971	59	23342	99.939	ug/l	99
12) 1,1-Dichloroethene	2.312	96	21405	18.762	ug/l	100
13) Acrolein	2.233	56	32619	101.417	ug/l	99
14) Allyl chloride	2.660	41	40847	18.870	ug/l	99
15) Acrylonitrile	3.062	53	71197	96.568	ug/l	99
16) Acetone	2.380	43	67462	94.532	ug/l	96
17) Carbon Disulfide	2.501	76	50650	17.975	ug/l	97
18) Methyl Acetate	2.703	43	31989	19.469	ug/l	100
19) Methyl tert-butyl Ether	3.117	73	72893	18.264	ug/l	97
20) Methylene Chloride	2.782	84	25254	18.902	ug/l	94
21) trans-1,2-Dichloroethene	3.087	96	21633	18.560	ug/l	97
22) Diisopropyl ether	3.757	45	79714	18.694	ug/l #	82
23) Vinyl Acetate	3.721	43	346163	93.960	ug/l	100
24) 1,1-Dichloroethane	3.605	63	45204	18.745	ug/l	98
25) 2-Butanone	4.556	43	101576	97.237	ug/l	98
26) 2,2-Dichloropropane	4.465	77	30795	19.765	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	25877	18.223	ug/l	97
28) Bromochloromethane	4.891	49	23399	20.079	ug/l	98
29) Tetrahydrofuran	5.001	42	64526	95.274	ug/l	99
30) Chloroform	5.086	83	47720	19.231	ug/l	99
31) Cyclohexane	5.458	56	40068	18.794	ug/l	96
32) 1,1,1-Trichloroethane	5.373	97	38732	18.447	ug/l	98
36) 1,1-Dichloropropene	5.690	75	31010	19.248	ug/l	97
37) Ethyl Acetate	4.714	43	37537	18.488	ug/l	98
38) Carbon Tetrachloride	5.672	117	32889	18.889	ug/l	98
39) Methylcyclohexane	7.379	83	38109	19.297	ug/l	97
40) Benzene	6.031	78	92131	18.724	ug/l	100

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040325\
Data File : VX045563.D
Acq On : 03 Apr 2025 12:08
Operator : JC/MD
Sample : VX0403WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 04 01:19:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0403WBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/04/2025
Supervised By :Mahesh Dadoda 04/04/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.922	41	20481	19.119	ug/l		97
42) 1,2-Dichloroethane	6.086	62	39817	19.592	ug/l		99
43) Isopropyl Acetate	6.342	43	57673	18.742	ug/l		100
44) Trichloroethene	7.123	130	21580	18.452	ug/l		99
45) 1,2-Dichloropropane	7.427	63	22690	18.482	ug/l		96
46) Dibromomethane	7.580	93	18338	19.458	ug/l		100
47) Bromodichloromethane	7.818	83	35669	18.952	ug/l		93
48) Methyl methacrylate	7.696	41	29793	18.752	ug/l		98
49) 1,4-Dioxane	7.659	88	11782	409.867	ug/l		98
51) 4-Methyl-2-Pentanone	8.574	43	204092	100.048	ug/l		98
52) Toluene	8.714	92	56597	19.009	ug/l		100
53) t-1,3-Dichloropropene	8.976	75	29059	17.610	ug/l		99
54) cis-1,3-Dichloropropene	8.366	75	33695	19.051	ug/l		98
55) 1,1,2-Trichloroethane	9.147	97	22623	19.068	ug/l		97
56) Ethyl methacrylate	9.116	69	34400	18.735	ug/l		98
57) 1,3-Dichloropropane	9.305	76	39503	19.120	ug/l		98
58) 2-Chloroethyl Vinyl ether	8.238	63	84945	91.451	ug/l		100
59) 2-Hexanone	9.427	43	151035	99.982	ug/l		99
60) Dibromochloromethane	9.518	129	24684	19.084	ug/l		98
61) 1,2-Dibromoethane	9.610	107	23132	19.260	ug/l		97
64) Tetrachloroethene	9.269	164	19411	18.445	ug/l		97
65) Chlorobenzene	10.079	112	60989	19.149	ug/l		98
66) 1,1,1,2-Tetrachloroethane	10.159	131	20434	18.479	ug/l		98
67) Ethyl Benzene	10.189	91	108957	19.101	ug/l		99
68) m/p-Xylenes	10.299	106	79412	38.276	ug/l		97
69) o-Xylene	10.640	106	38939	19.052	ug/l		98
70) Styrene	10.652	104	66139	19.607	ug/l		100
71) Bromoform	10.799	173	15475	18.743	ug/l	#	100
73) Isopropylbenzene	10.957	105	103012	18.660	ug/l		99
74) N-amyl acetate	10.841	43	48409	18.332	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.207	83	36109	18.620	ug/l		100
76) 1,2,3-Trichloropropane	11.238	75	31309m	18.624	ug/l		
77) Bromobenzene	11.195	156	23469	18.399	ug/l		99
78) n-propylbenzene	11.299	91	119014	18.717	ug/l		99
79) 2-Chlorotoluene	11.360	91	75745	18.633	ug/l		100
80) 1,3,5-Trimethylbenzene	11.451	105	87968	19.270	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	8340	16.837	ug/l		92
82) 4-Chlorotoluene	11.451	91	84800	18.710	ug/l		99
83) tert-Butylbenzene	11.713	119	86089	19.049	ug/l		99
84) 1,2,4-Trimethylbenzene	11.750	105	87951	19.196	ug/l		100
85) sec-Butylbenzene	11.890	105	107693	19.401	ug/l		98
86) p-Isopropyltoluene	12.006	119	87307	19.078	ug/l		99
87) 1,3-Dichlorobenzene	11.969	146	41875	18.035	ug/l		100
88) 1,4-Dichlorobenzene	12.036	146	42877	18.215	ug/l		98
89) n-Butylbenzene	12.329	91	72973	18.388	ug/l		98
90) Hexachloroethane	12.536	117	15145	19.256	ug/l		97
91) 1,2-Dichlorobenzene	12.335	146	42284	18.317	ug/l		98
92) 1,2-Dibromo-3-Chloropr...	12.945	75	7578	18.685	ug/l		99
93) 1,2,4-Trichlorobenzene	13.585	180	22581	17.574	ug/l		97
94) Hexachlorobutadiene	13.719	225	10095	18.232	ug/l		99
95) Naphthalene	13.774	128	82961	17.350	ug/l		100
96) 1,2,3-Trichlorobenzene	13.957	180	23220	17.258	ug/l		100

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040325\
Data File : VX045563.D
Acq On : 03 Apr 2025 12:08
Operator : JC/MD
Sample : VX0403WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 04 01:19:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0403WBS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/04/2025
Supervised By :Mahesh Dadoda 04/04/2025

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\VX040325\
Data File : VX045563.D
Acq On : 03 Apr 2025 12:08
Operator : JC/MD
Sample : VX0403WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 04 01:19:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Instrument :
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ClientSampleId :
VX0403WBS01

Manual Integrations APPROVED

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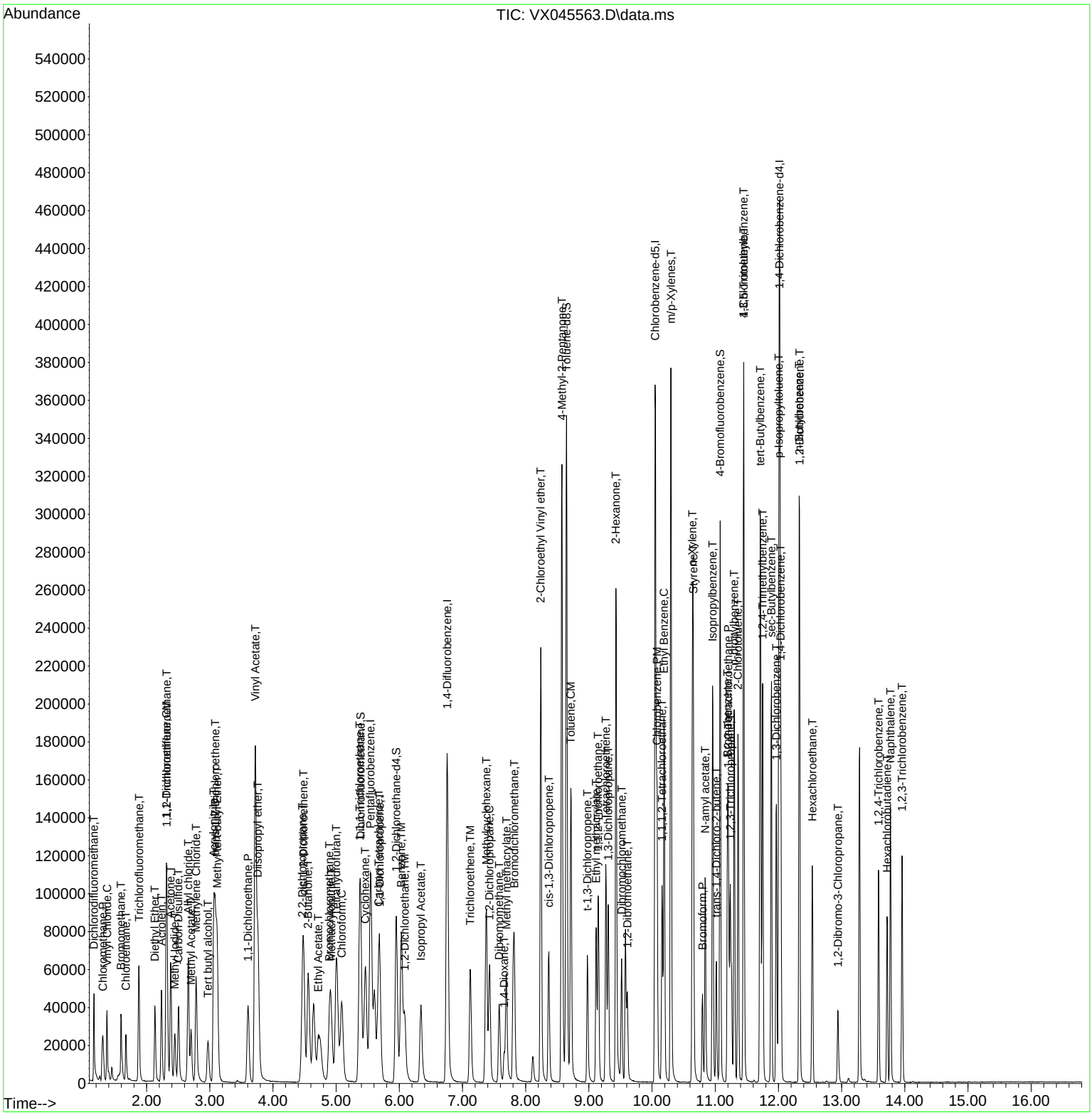
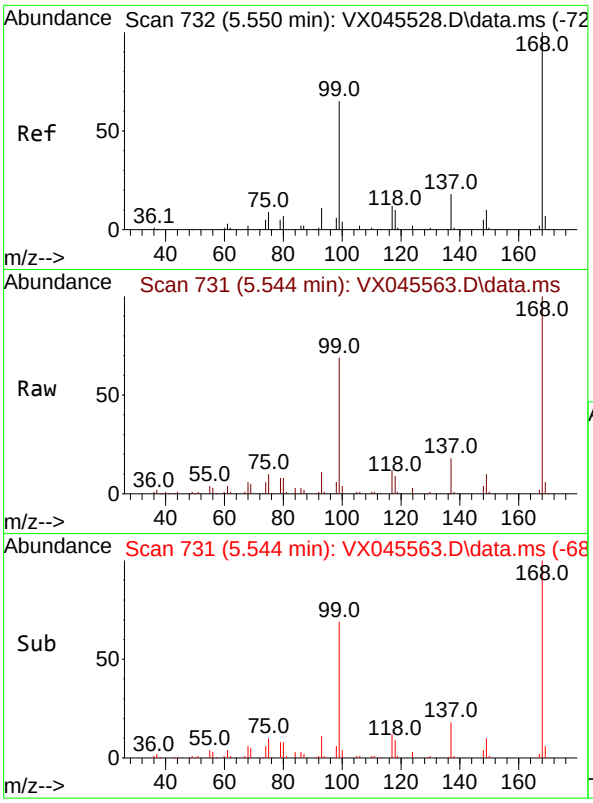
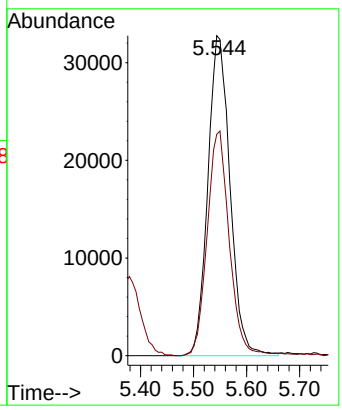




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion:168 Resp: 9503

Ion	Ratio	Lower	Upper
168	100		
99	69.2	52.3	78.5



Instrument :
MSVOA_X
ClientSampleId :
VX0403WBS01

Manual Integrations
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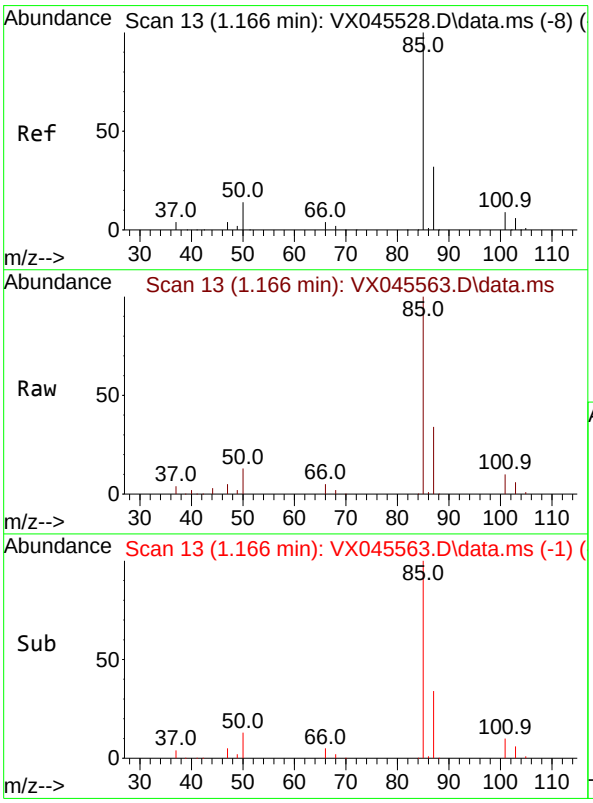
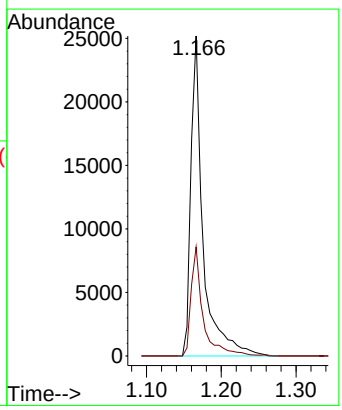
Reviewed By :Semsettin Yesilyurt 04/04/2025
Supervised By :Mahesh Dadoda 04/04/2025

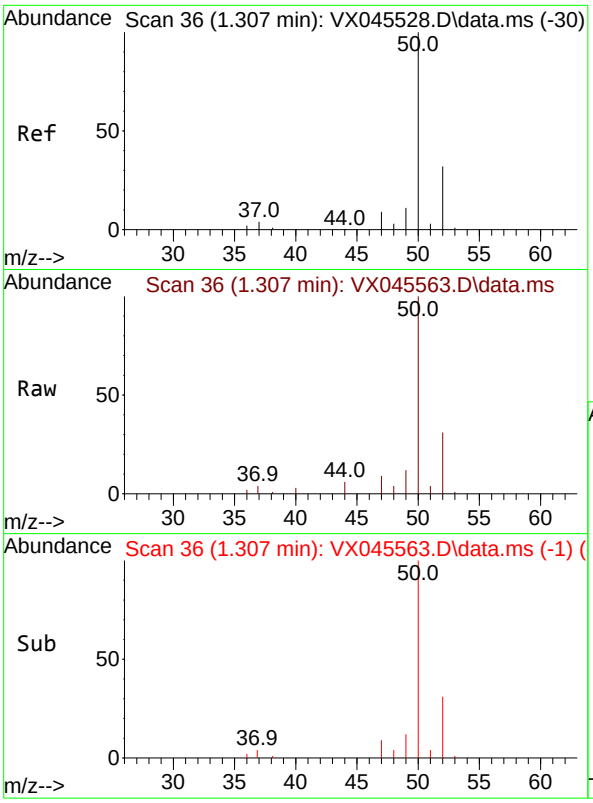


#2
Dichlorodifluoromethane
Concen: 20.035 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion: 85 Resp: 28474

Ion	Ratio	Lower	Upper
85	100		
87	34.0	16.1	48.2

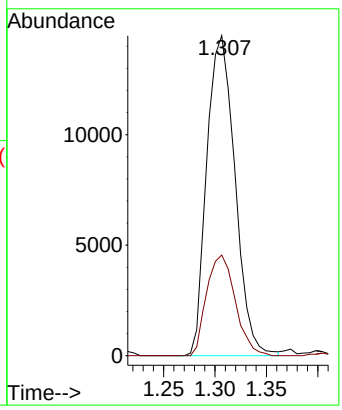




#3
Chloromethane
Concen: 18.925 ug/l
RT: 1.307 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion: 50 Resp: 2763

Ion	Ratio	Lower	Upper
50	100		
52	31.4	25.9	38.9



Instrument :
MSVOA_X
ClientSampleId :
VX0403WBS01

Manual Integrations
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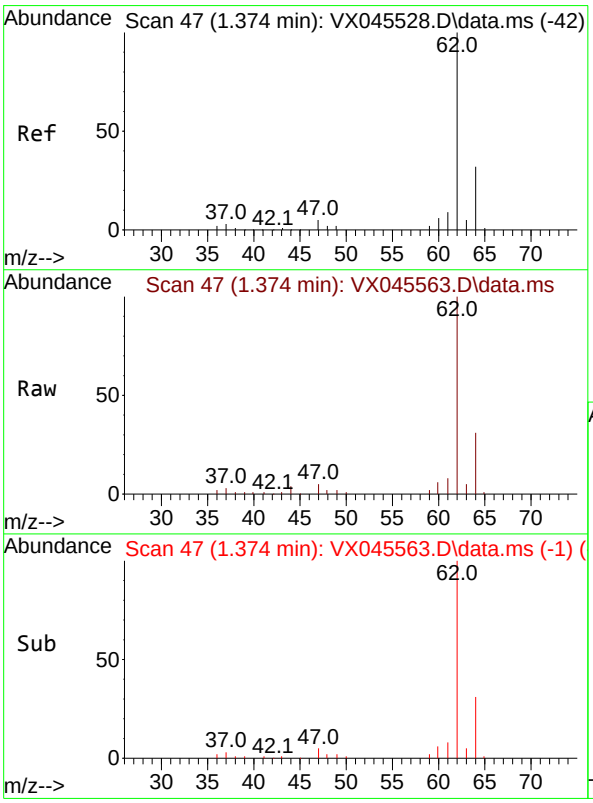
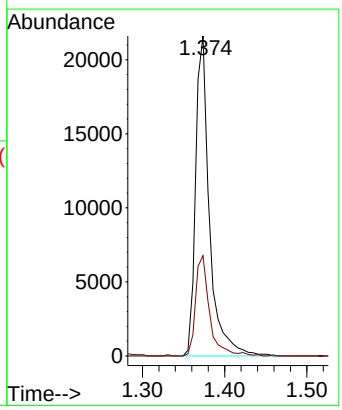
Reviewed By :Semsettin Yesilyurt 04/04/2025
Supervised By :Mahesh Dadoda 04/04/2025

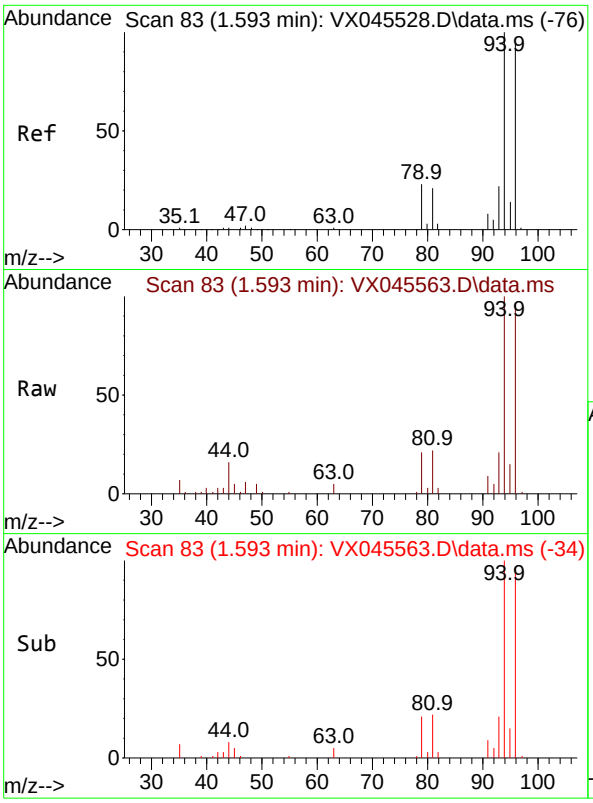


#4
Vinyl Chloride
Concen: 18.904 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion: 62 Resp: 25260

Ion	Ratio	Lower	Upper
62	100		
64	31.3	25.5	38.3

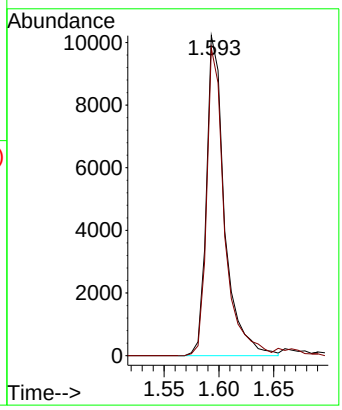




#5
Bromomethane
Concen: 18.560 ug/l
RT: 1.593 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion: 94 Resp: 1175

Ion	Ratio	Lower	Upper
94	100		
96	96.1	74.8	112.2



Instrument :
MSVOA_X
ClientSampleId :
VX0403WBS01

Manual Integrations
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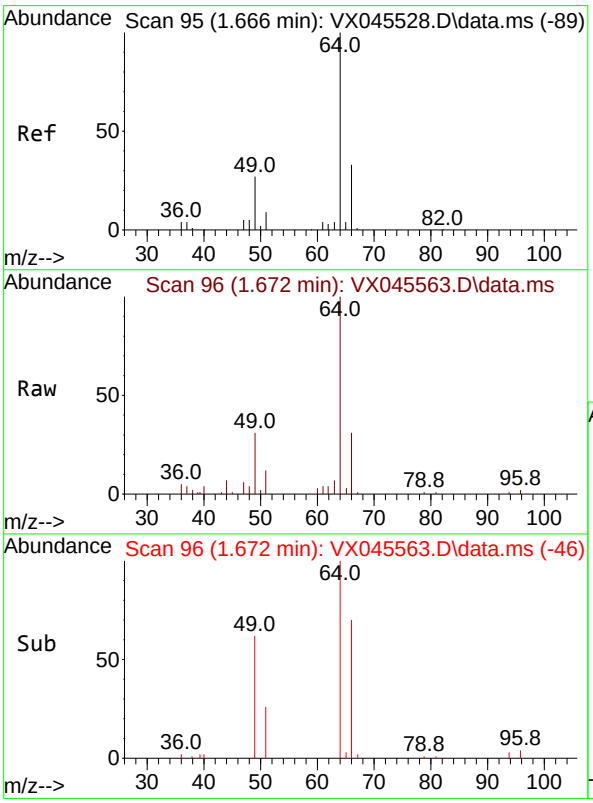
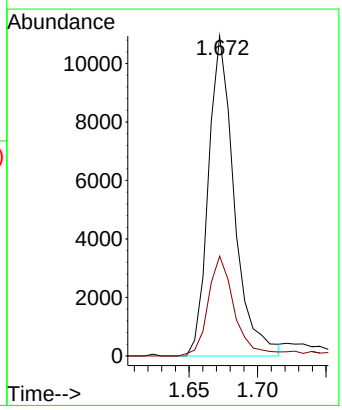
Reviewed By :Semsettin Yesilyurt 04/04/2025
Supervised By :Mahesh Dadoda 04/04/2025

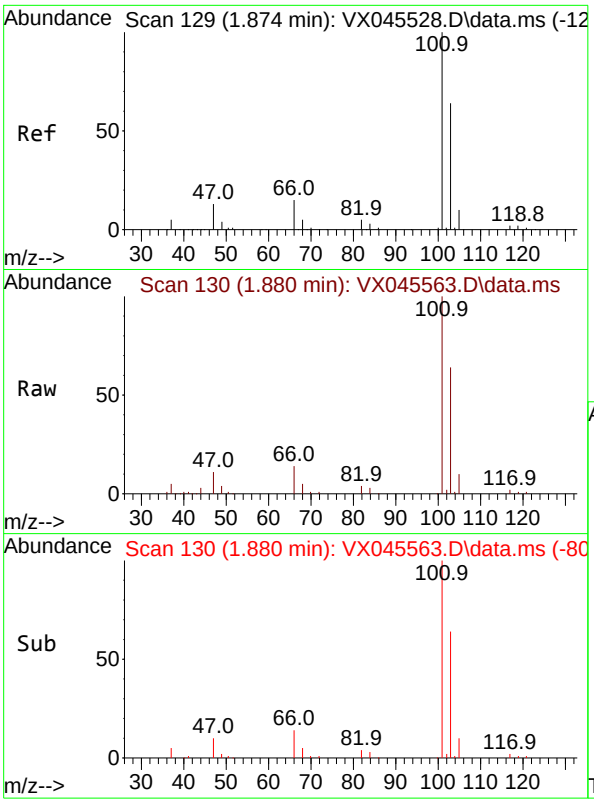


#6
Chloroethane
Concen: 20.206 ug/l
RT: 1.672 min Scan# 96
Delta R.T. 0.006 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion: 64 Resp: 14325

Ion	Ratio	Lower	Upper
64	100		
66	31.2	26.3	39.5

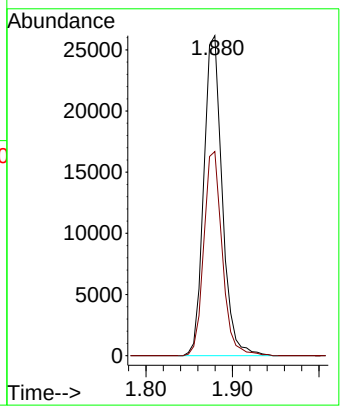




#7
Trichlorofluoromethane
Concen: 19.395 ug/l
RT: 1.880 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion:101 Resp: 3864

Ion	Ratio	Lower	Upper
101	100		
103	63.8	51.1	76.7



Instrument :
MSVOA_X
ClientSampleId :
VX0403WBS01

Manual Integrations
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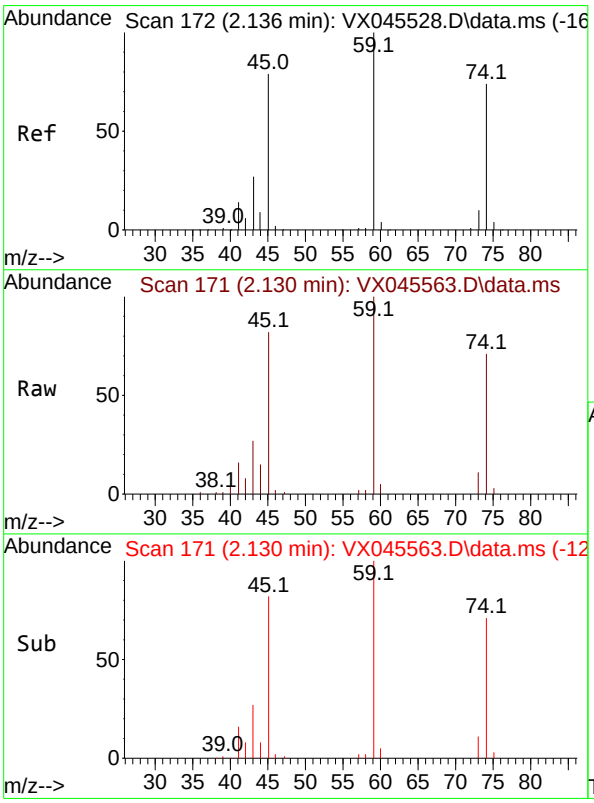
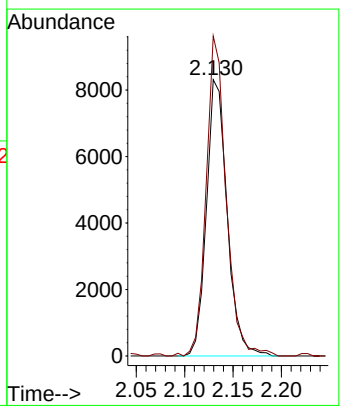
Reviewed By :Semsettin Yesilyurt 04/04/2025
Supervised By :Mahesh Dadoda 04/04/2025

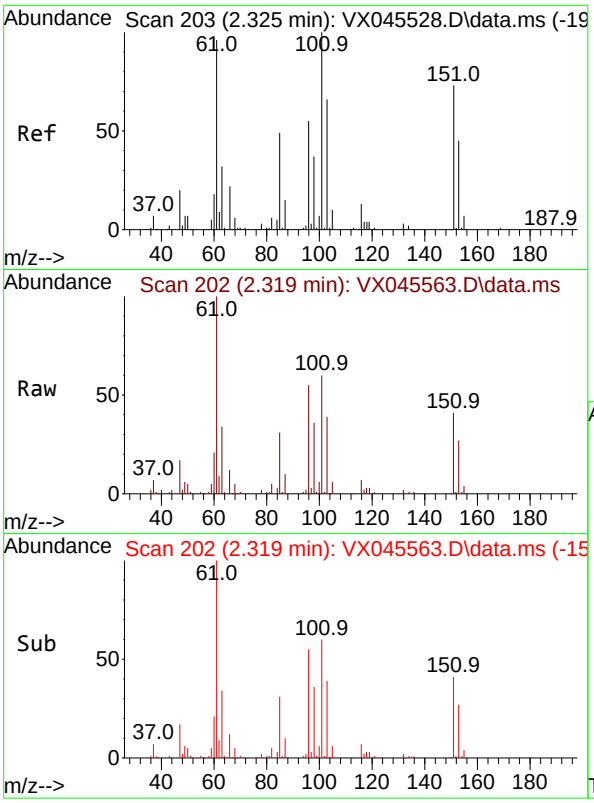


#8
Diethyl Ether
Concen: 18.545 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion: 74 Resp: 12406

Ion	Ratio	Lower	Upper
74	100		
45	111.6	53.0	159.1

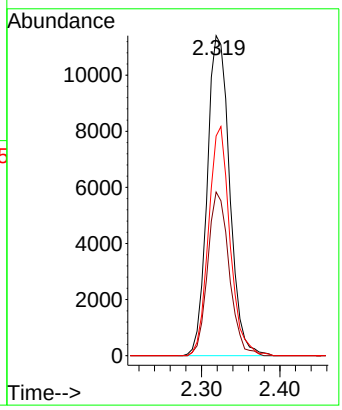




#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.402 ug/l
RT: 2.319 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion:101 Resp: 2265

Ion	Ratio	Lower	Upper
101	100		
85	49.2	38.9	58.3
151	68.5	57.5	86.3



Instrument :
MSVOA_X
ClientSampleId :
VX0403WBS01

Manual Integrations
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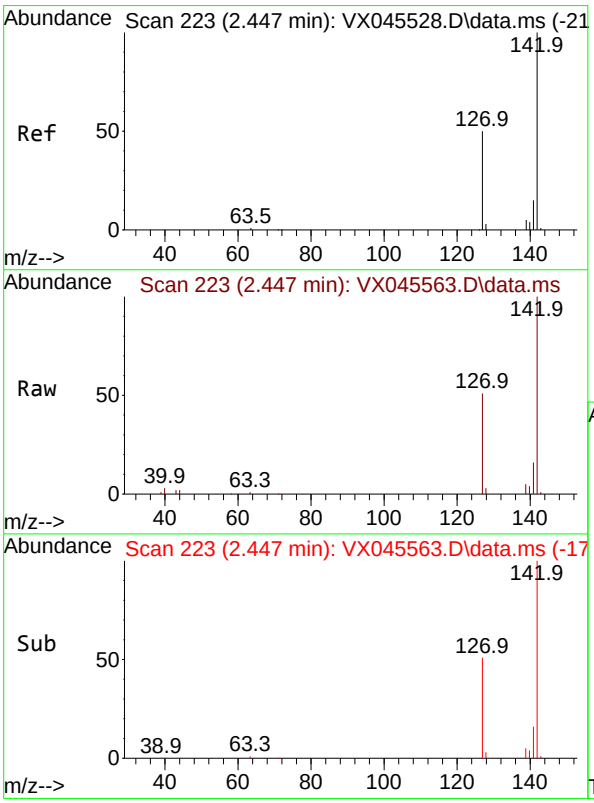
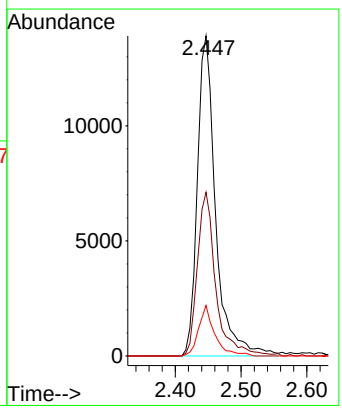
Reviewed By :Semsettin Yesilyurt 04/04/2025
Supervised By :Mahesh Dadoda 04/04/2025

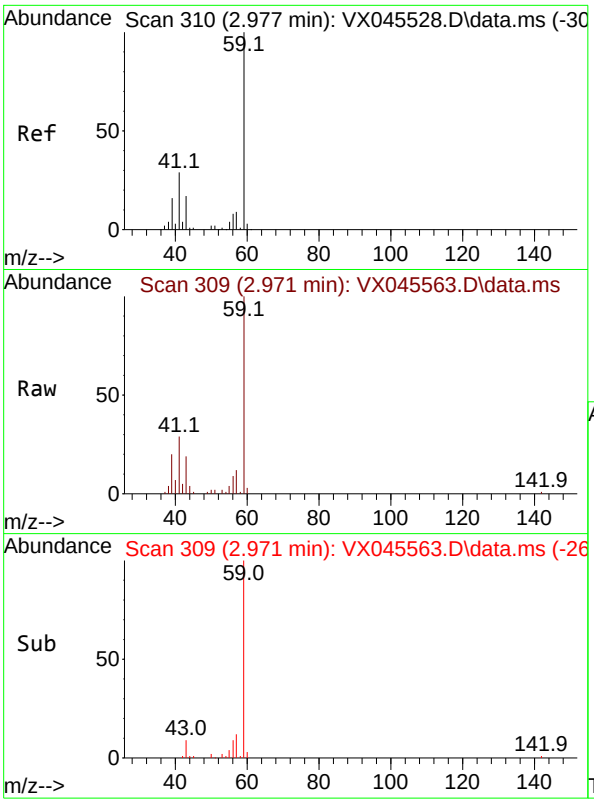


#10
Methyl Iodide
Concen: 18.421 ug/l
RT: 2.447 min Scan# 223
Delta R.T. -0.000 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion:142 Resp: 26828

Ion	Ratio	Lower	Upper
142	100		
127	51.5	40.2	60.4
141	14.0	11.7	17.5

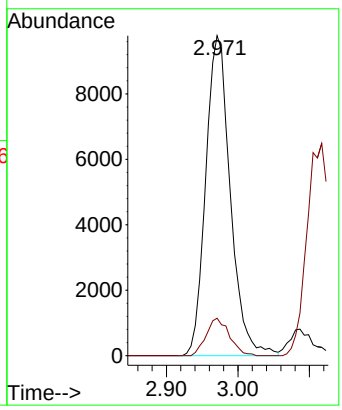




#11
Tert butyl alcohol
Concen: 99.939 ug/l
RT: 2.971 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion: 59 Resp: 2334

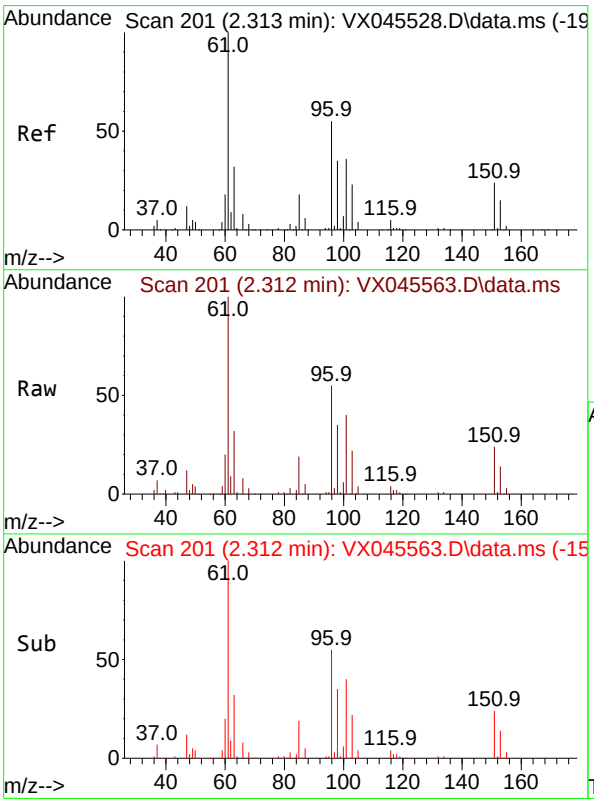
Ion	Ratio	Lower	Upper
59	100		
57	11.0	8.6	12.8



Instrument :
MSVOA_X
ClientSampleId :
VX0403WBS01

Manual Integrations
APPROVED

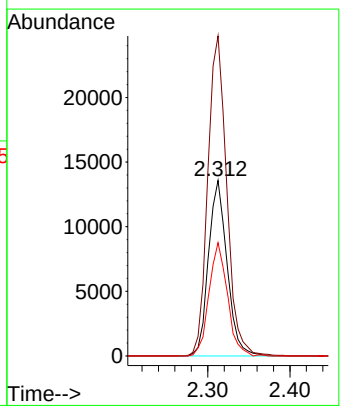
Reviewed By :Semsettin Yesilyurt 04/04/2025
Supervised By :Mahesh Dadoda 04/04/2025

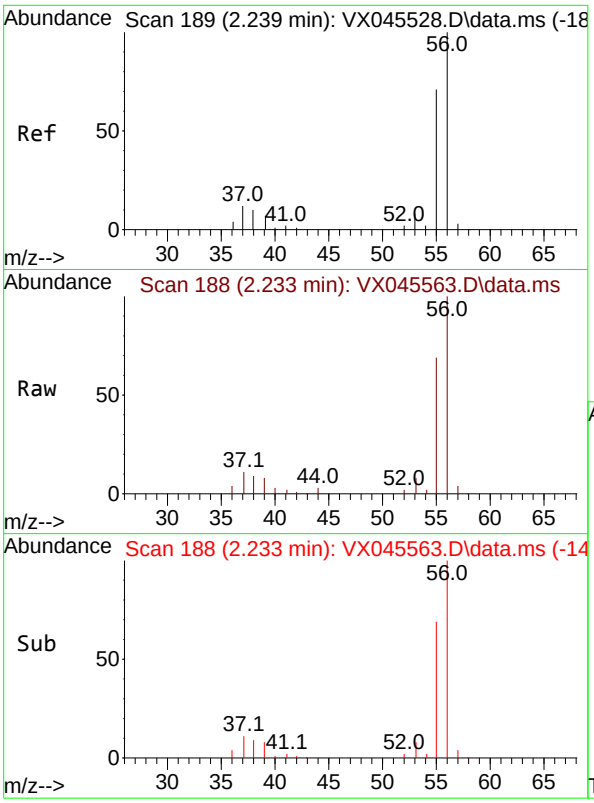


#12
1,1-Dichloroethene
Concen: 18.762 ug/l
RT: 2.312 min Scan# 201
Delta R.T. -0.000 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion: 96 Resp: 21405

Ion	Ratio	Lower	Upper
96	100		
61	182.4	145.7	218.5
98	64.6	51.6	77.4

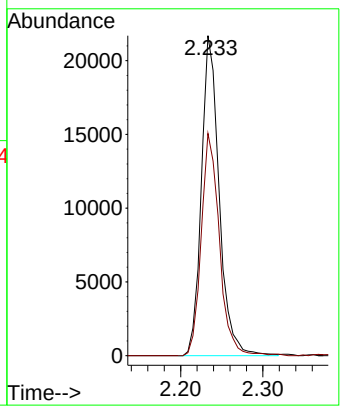




#13
Acrolein
Concen: 101.417 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion: 56 Resp: 3261

Ion	Ratio	Lower	Upper
56	100		
55	70.8	56.2	84.2



Instrument :
MSVOA_X
ClientSampleId :
VX0403WBS01

Manual Integrations
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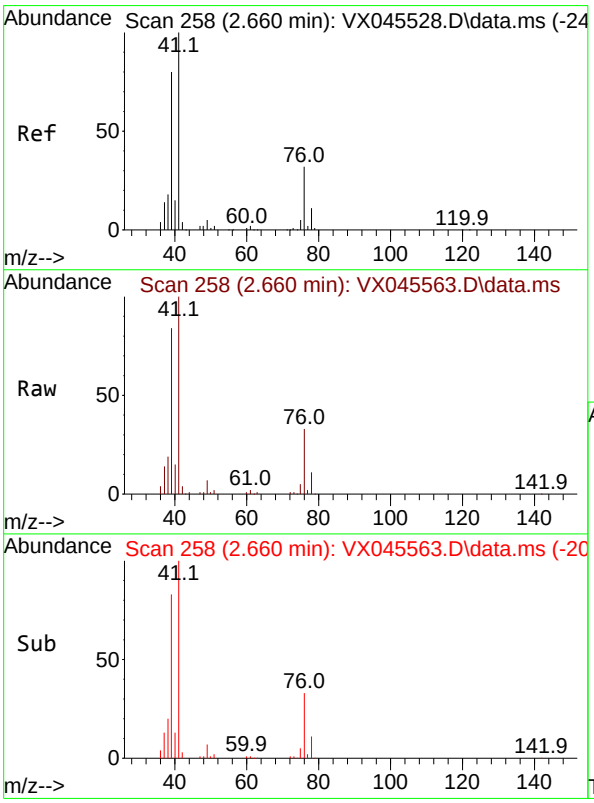
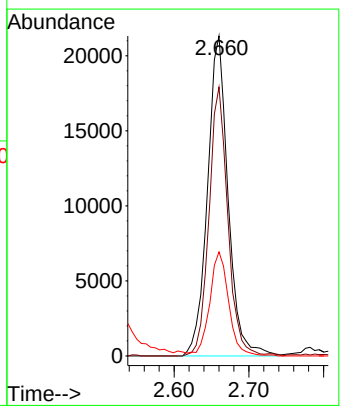
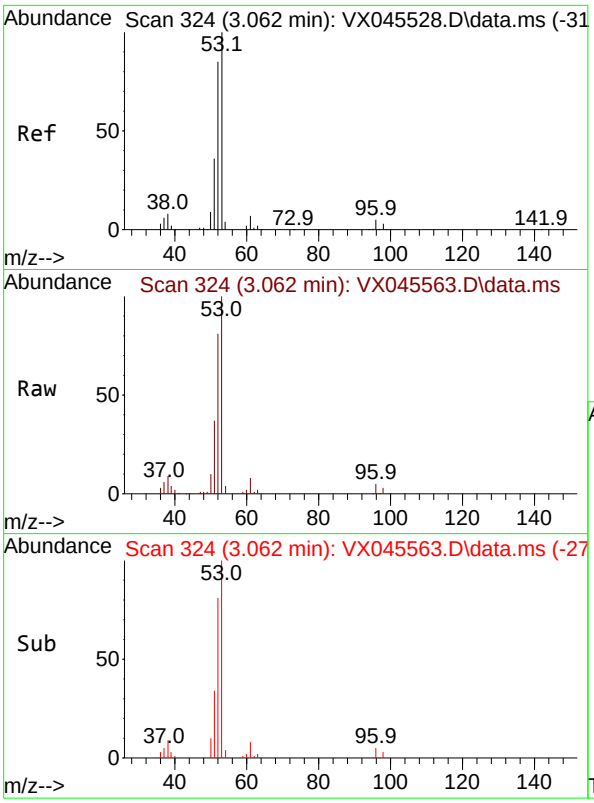


#14
Allyl chloride
Concen: 18.870 ug/l
RT: 2.660 min Scan# 258
Delta R.T. -0.000 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion: 41 Resp: 40847

Ion	Ratio	Lower	Upper
41	100		
39	76.5	60.2	90.2
76	30.1	24.6	36.8





#15
Acrylonitrile
Concen: 96.568 ug/l
RT: 3.062 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion: 53 Resp: 7119

Ion	Ratio	Lower	Upper
53	100		
52	82.7	67.4	101.2
51	37.6	29.9	44.9

Instrument :
MSVOA_X
ClientSampleId :
VX0403WBS01

Manual Integrations
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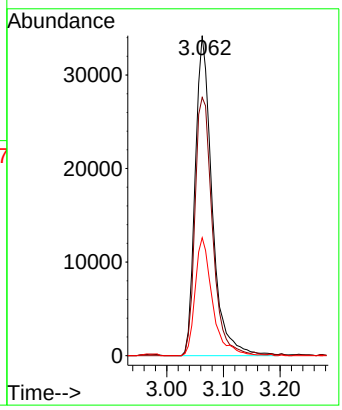
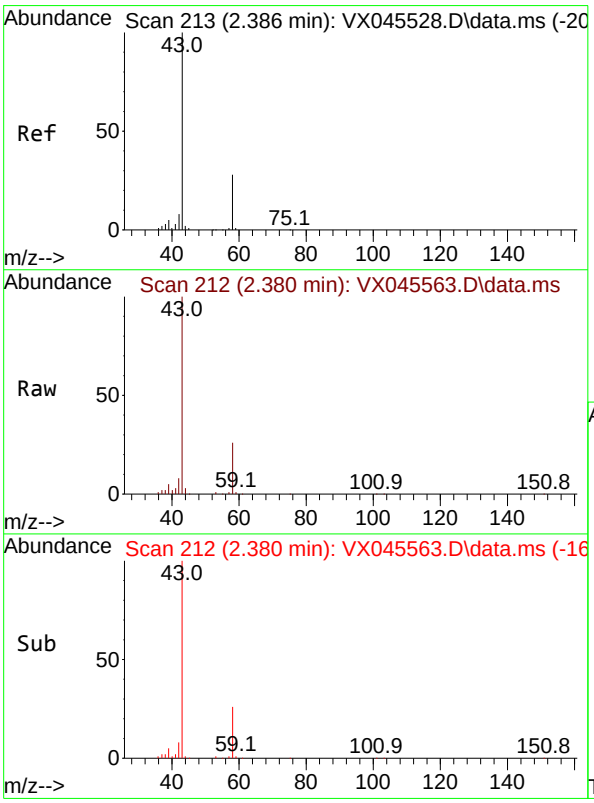
Reviewed By :Semsettin Yesilyurt 04/04/2025
Supervised By :Mahesh Dadoda 04/04/2025

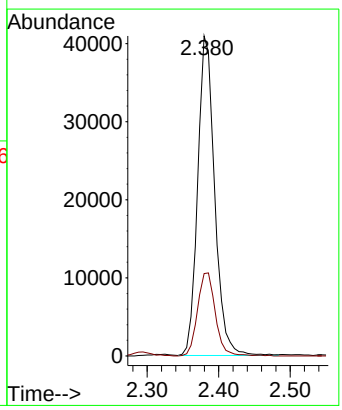


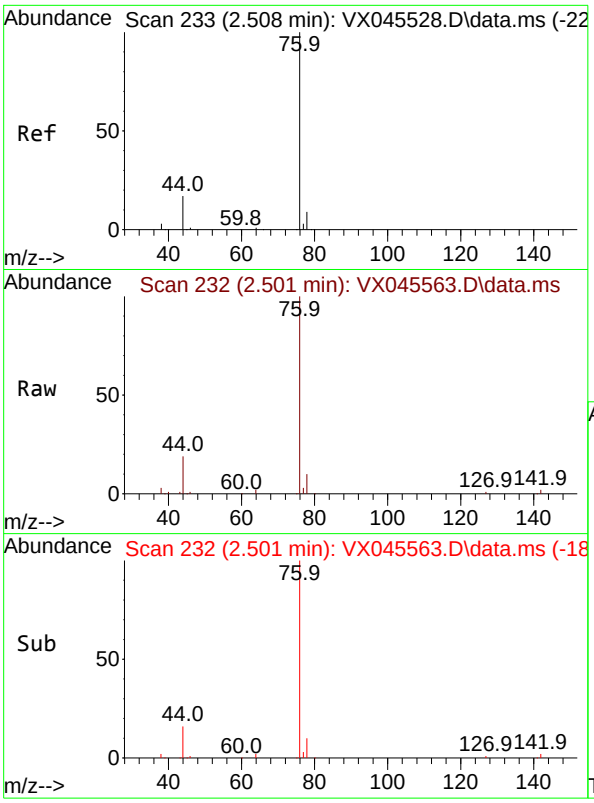


#16
Acetone
Concen: 94.532 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion: 43 Resp: 67462

Ion	Ratio	Lower	Upper
43	100		
58	25.8	22.3	33.5

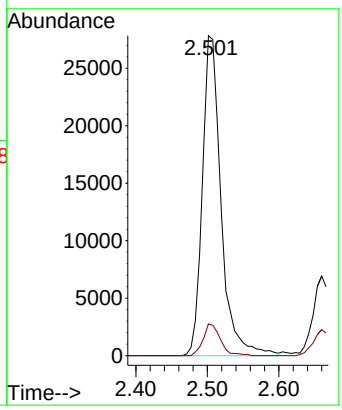




#17
Carbon Disulfide
Concen: 17.975 ug/l
RT: 2.501 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion: 76 Resp: 5065

Ion	Ratio	Lower	Upper
76	100		
78	9.9	7.0	10.6



Instrument :
MSVOA_X
ClientSampleId :
VX0403WBS01

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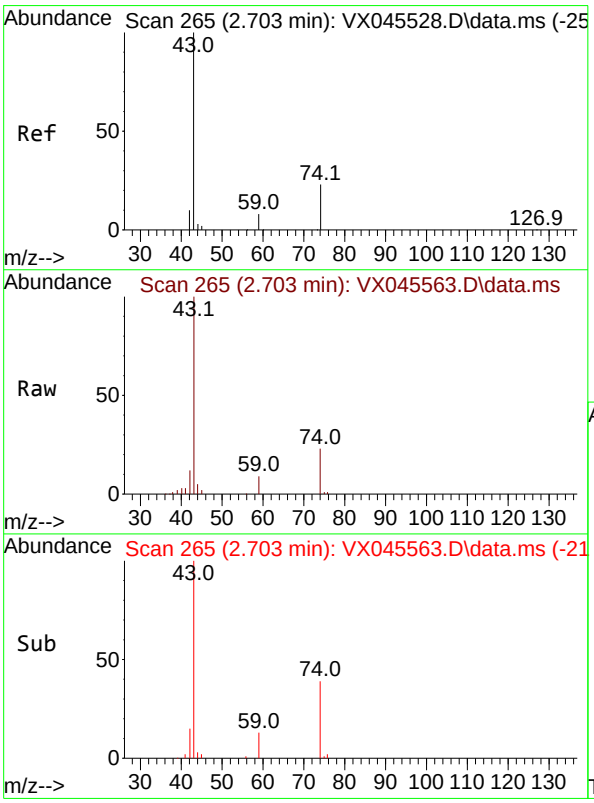
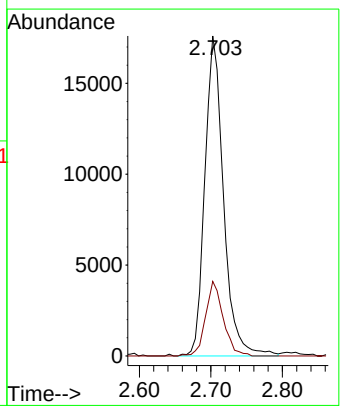
Reviewed By :Semsettin Yesilyurt 04/04/2025
Supervised By :Mahesh Dadoda 04/04/2025

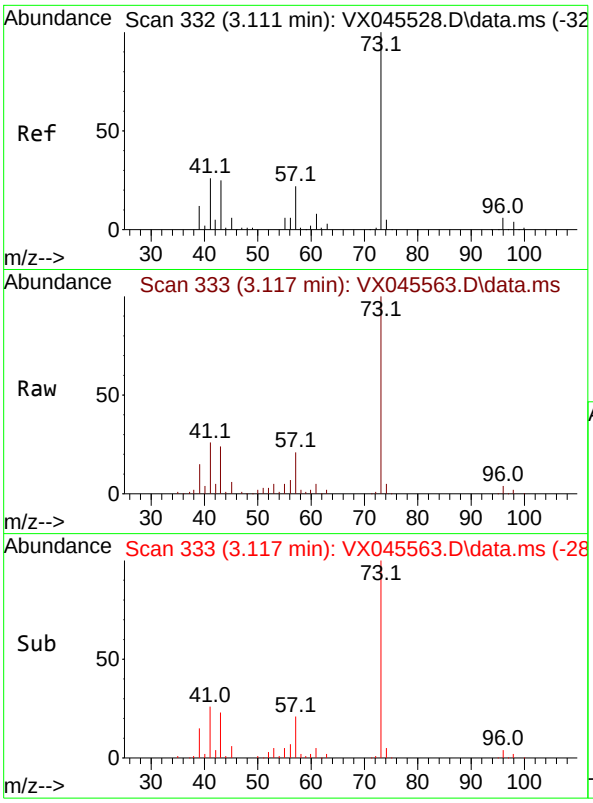


#18
Methyl Acetate
Concen: 19.469 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion: 43 Resp: 31989

Ion	Ratio	Lower	Upper
43	100		
74	22.0	17.5	26.3

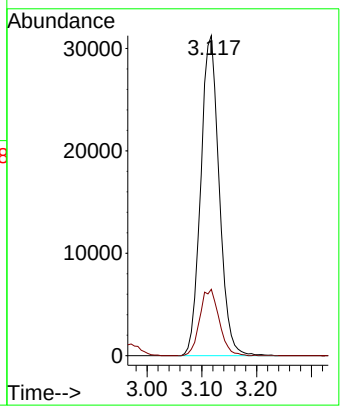




#19
Methyl tert-butyl Ether
Concen: 18.264 ug/l
RT: 3.117 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion: 73 Resp: 7289

Ion	Ratio	Lower	Upper
73	100		
57	20.8	17.6	26.4



Instrument :
MSVOA_X
ClientSampleId :
VX0403WBS01

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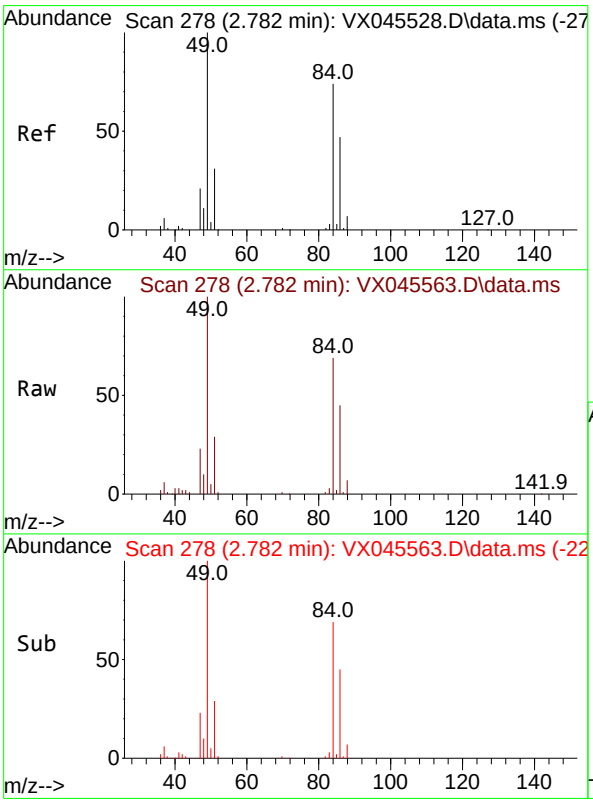
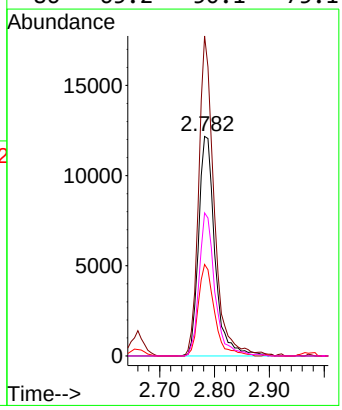
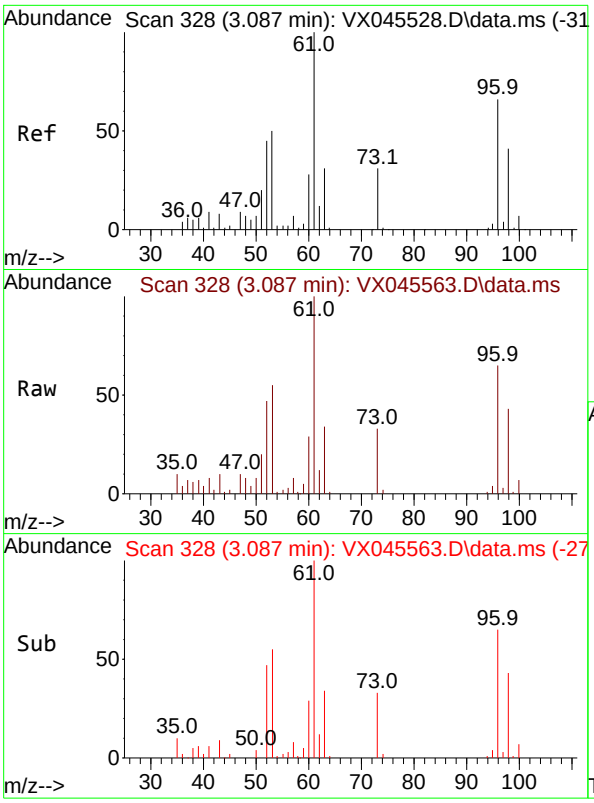


#20
Methylene Chloride
Concen: 18.902 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion: 84 Resp: 25254

Ion	Ratio	Lower	Upper
84	100		
49	145.7	107.5	161.3
51	41.7	33.0	49.6
86	65.2	50.1	75.1

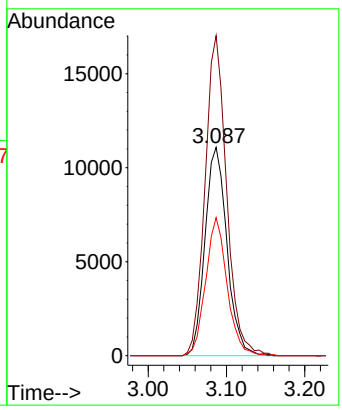




#21
trans-1,2-Dichloroethene
Concen: 18.560 ug/l
RT: 3.087 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion: 96 Resp: 2163

Ion	Ratio	Lower	Upper
96	100		
61	153.6	121.0	181.6
98	66.3	49.7	74.5



Instrument :
MSVOA_X
ClientSampleId :
VX0403WBS01

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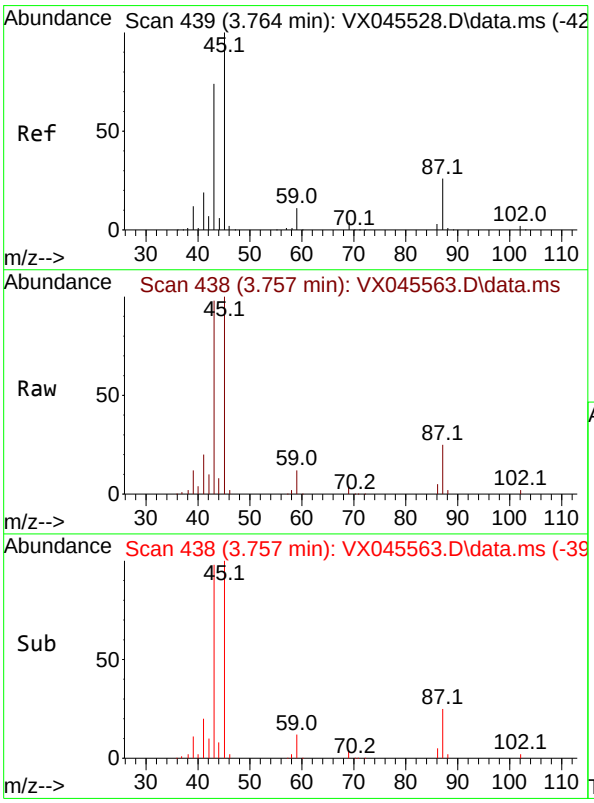
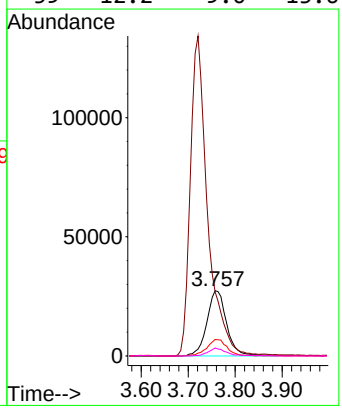
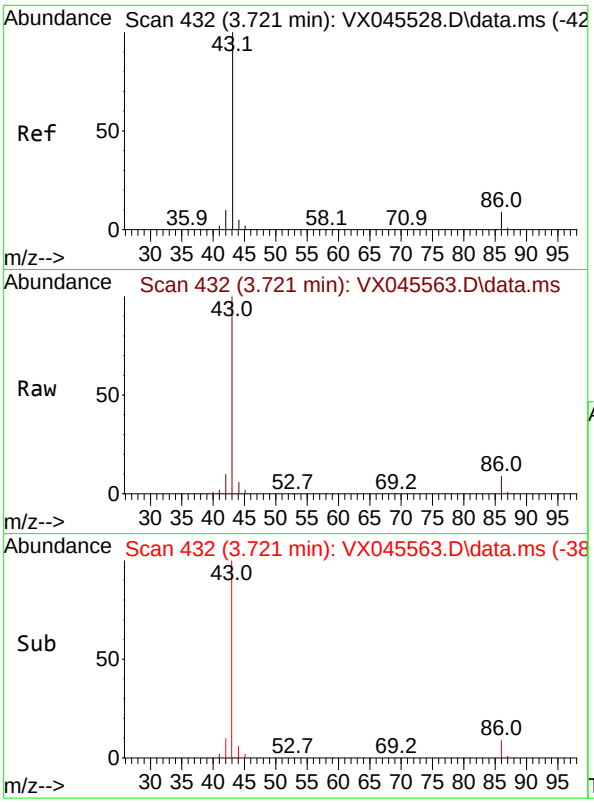


#22
Diisopropyl ether
Concen: 18.694 ug/l
RT: 3.757 min Scan# 438
Delta R.T. -0.006 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion: 45 Resp: 79714

Ion	Ratio	Lower	Upper
45	100		
43	96.4	59.3	88.9#
87	25.1	20.4	30.6
59	12.2	9.0	13.6





#23
Vinyl Acetate
Concen: 93.960 ug/l
RT: 3.721 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion: 43 Resp: 34616

Ion	Ratio	Lower	Upper
43	100		
86	9.3	7.5	11.3

Instrument :
MSVOA_X
ClientSampleId :
VX0403WBS01

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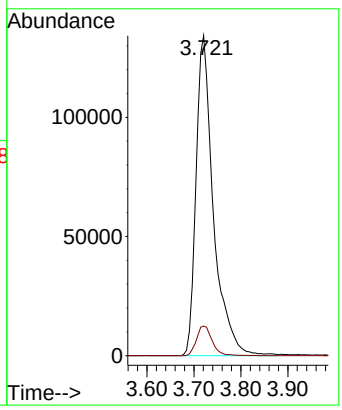
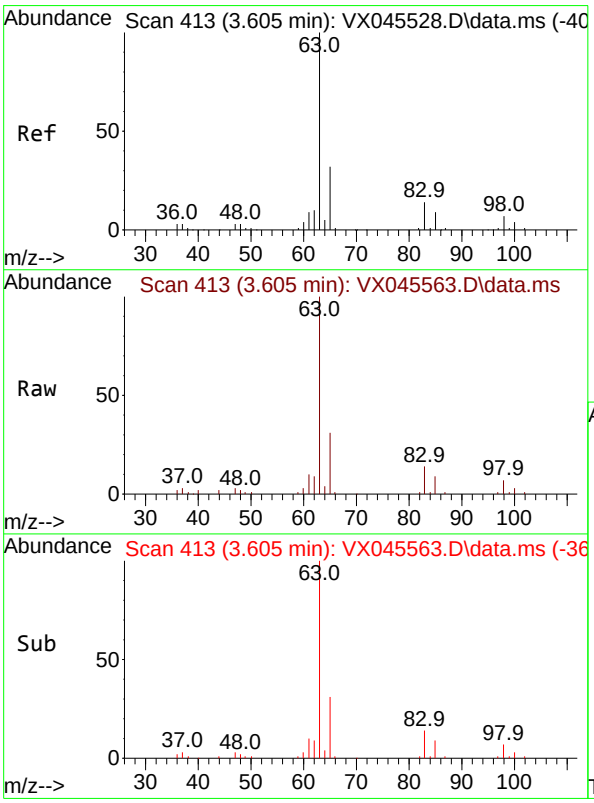
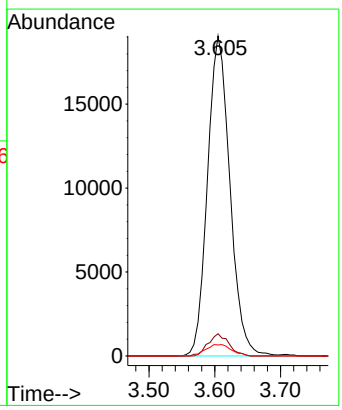


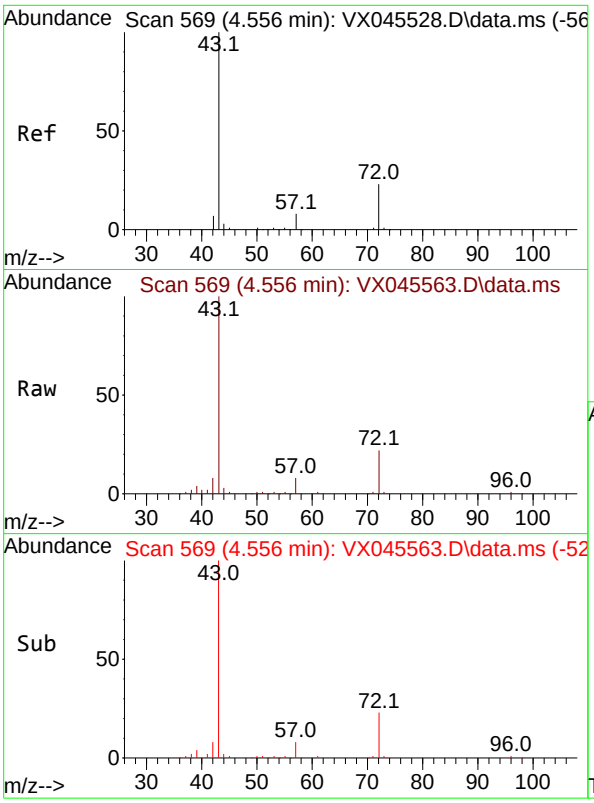


#24
1,1-Dichloroethane
Concen: 18.745 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion: 63 Resp: 45204

Ion	Ratio	Lower	Upper
63	100		
98	7.0	3.4	10.1
100	3.5	2.2	6.6

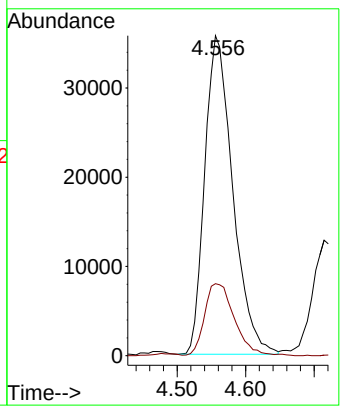




#25
2-Butanone
Concen: 97.237 ug/l
RT: 4.556 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion: 43 Resp: 10157

Ion	Ratio	Lower	Upper
43	100		
72	22.2	18.6	28.0



Instrument :
MSVOA_X
ClientSampleId :
VX0403WBS01

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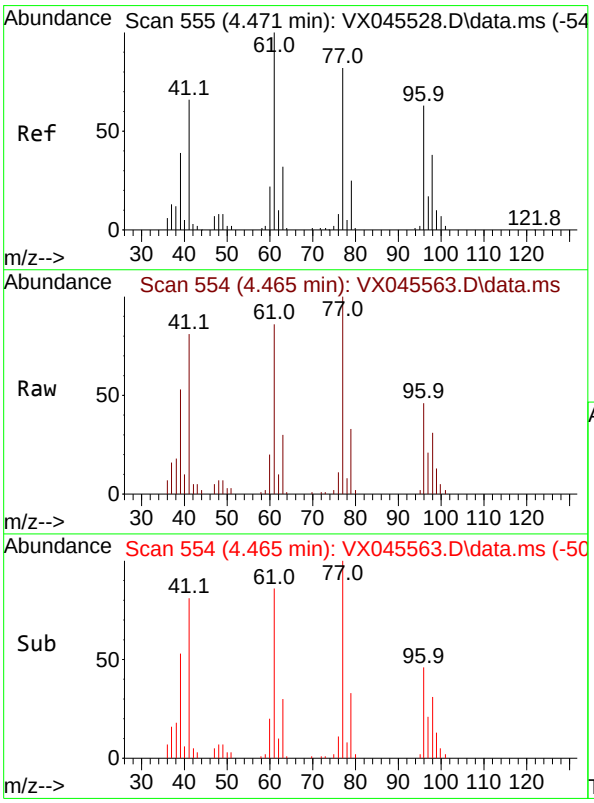
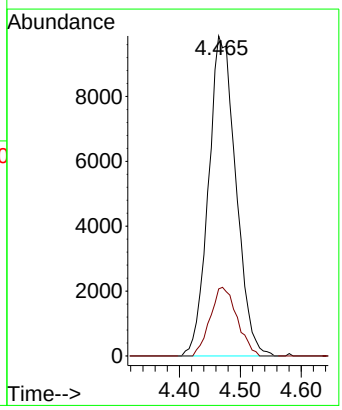
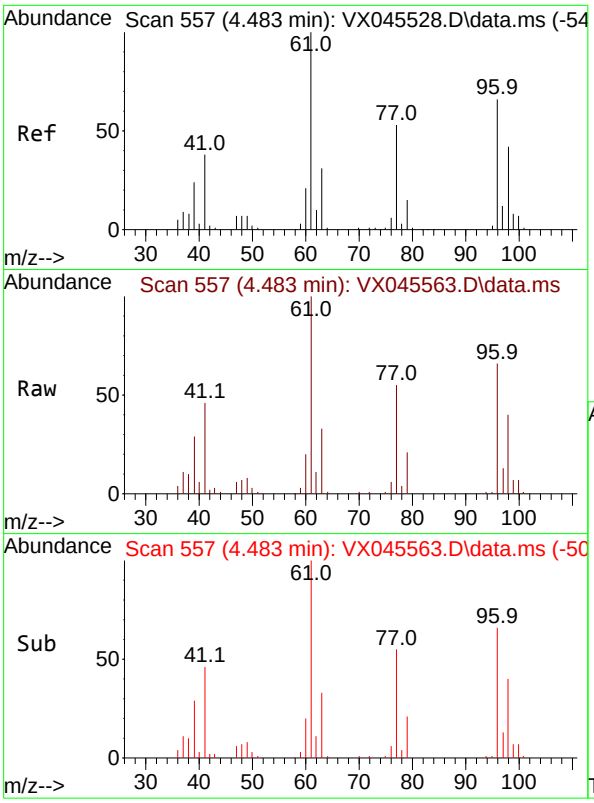


#26
2,2-Dichloropropane
Concen: 19.765 ug/l
RT: 4.465 min Scan# 554
Delta R.T. -0.006 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion: 77 Resp: 30795

Ion	Ratio	Lower	Upper
77	100		
97	21.1	10.6	31.8

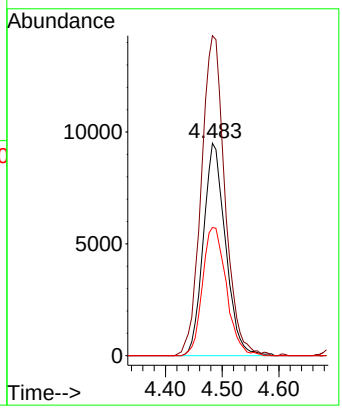




#27
cis-1,2-Dichloroethene
Concen: 18.223 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion: 96 Resp: 2587

Ion	Ratio	Lower	Upper
96	100		
61	160.4	0.0	313.2
98	64.6	0.0	126.4



Instrument :
MSVOA_X
ClientSampleId :
VX0403WBS01

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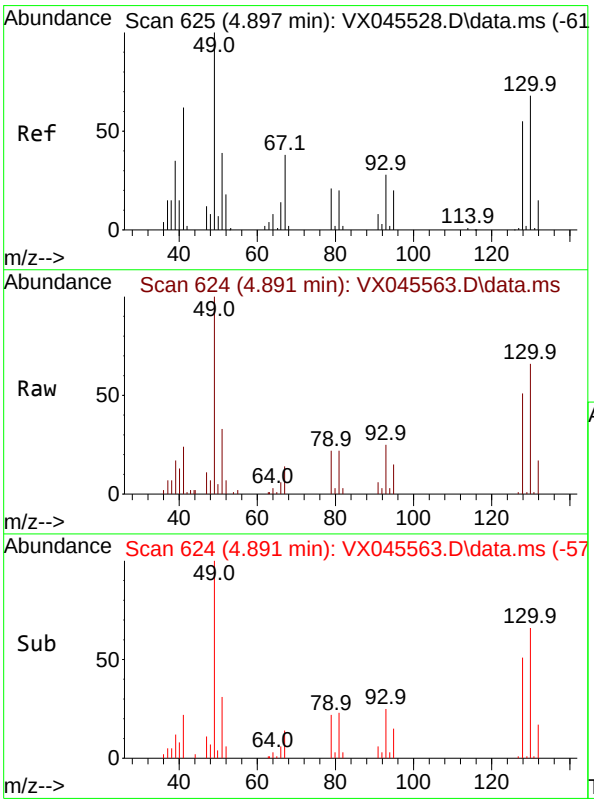
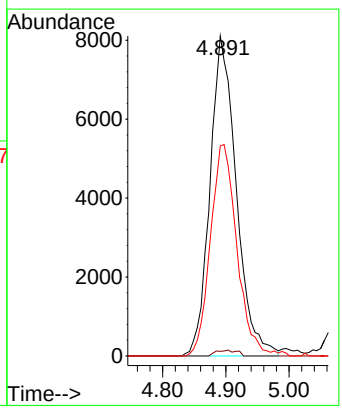
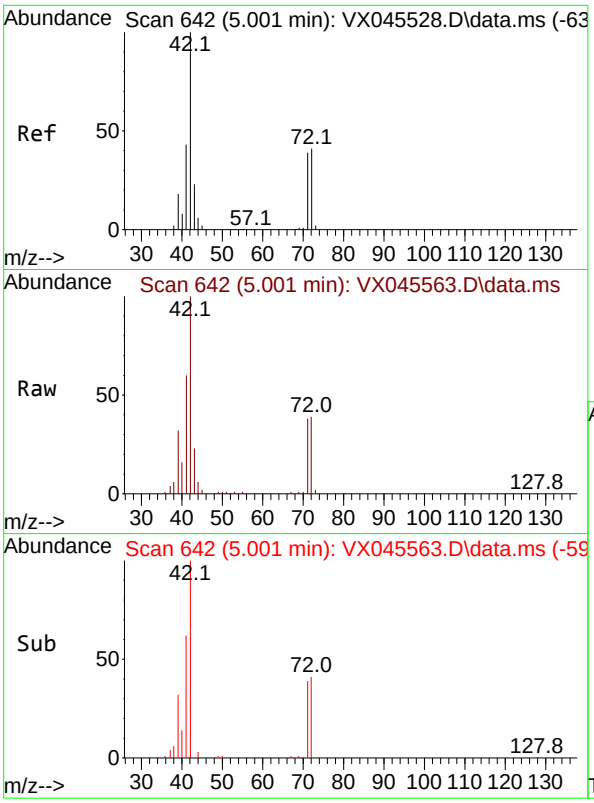


#28
Bromochloromethane
Concen: 20.079 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.006 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion: 49 Resp: 23399

Ion	Ratio	Lower	Upper
49	100		
129	1.4	0.0	3.8
130	66.7	54.6	81.8





#29
Tetrahydrofuran
Concen: 95.274 ug/l
RT: 5.001 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion: 42 Resp: 6452

Ion	Ratio	Lower	Upper
42	100		
72	42.4	33.4	50.0
71	38.4	31.4	47.0

Instrument :
MSVOA_X
ClientSampleId :
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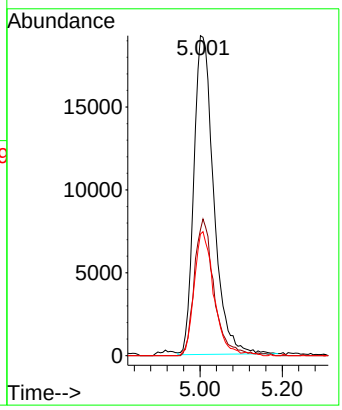
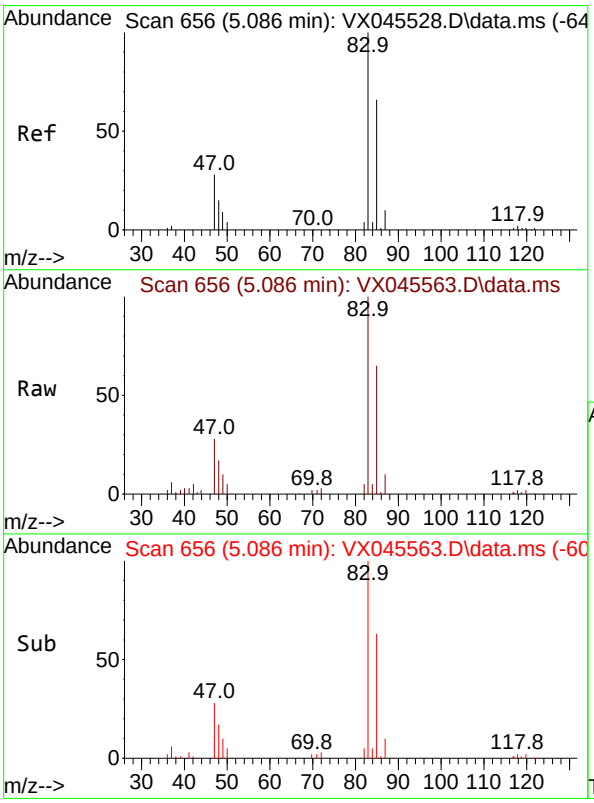
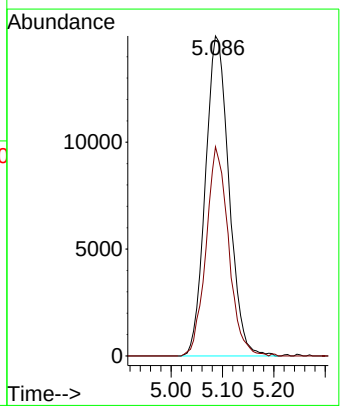


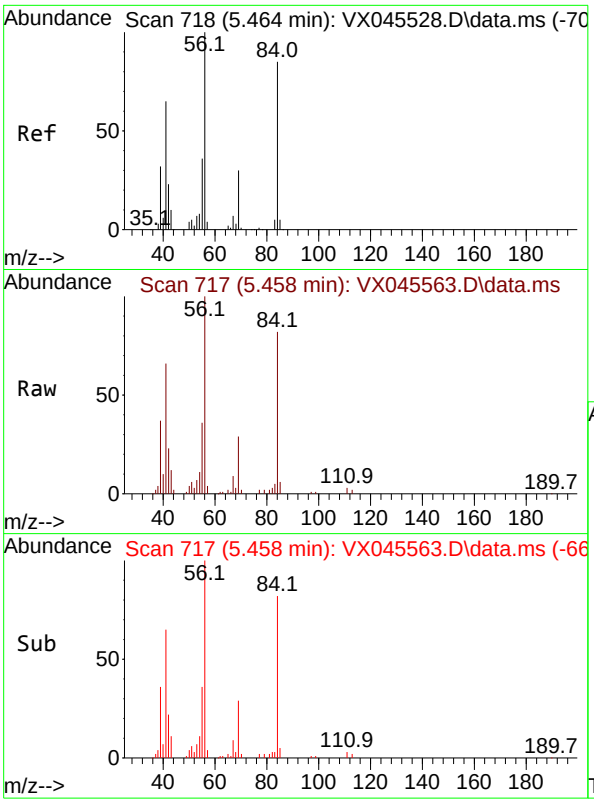


#30
Chloroform
Concen: 19.231 ug/l
RT: 5.086 min Scan# 656
Delta R.T. -0.000 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion: 83 Resp: 47720

Ion	Ratio	Lower	Upper
83	100		
85	65.3	52.8	79.2

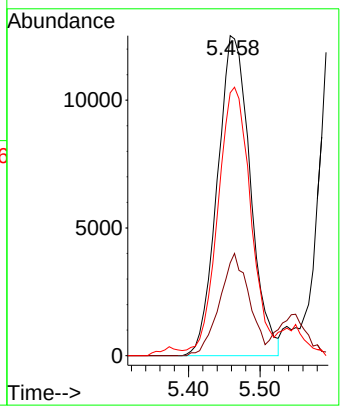




#31
Cyclohexane
Concen: 18.794 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion: 56 Resp: 4006

Ion	Ratio	Lower	Upper
56	100		
69	29.0	23.6	35.4
84	80.3	67.7	101.5



Instrument :
MSVOA_X
ClientSampleId :
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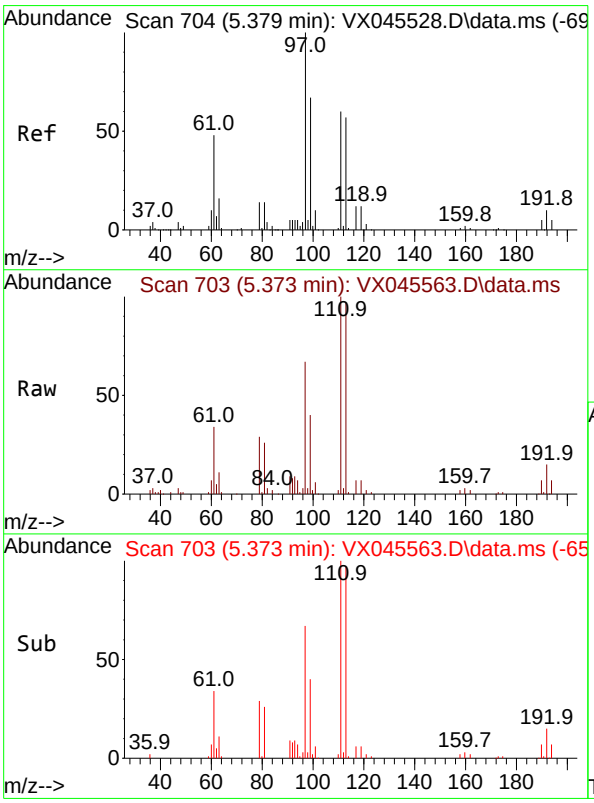
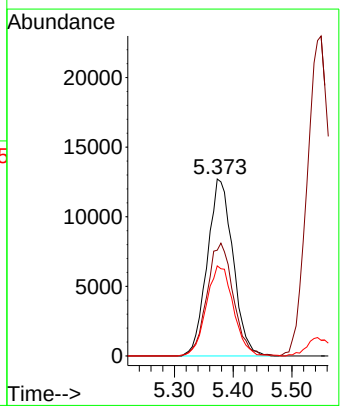
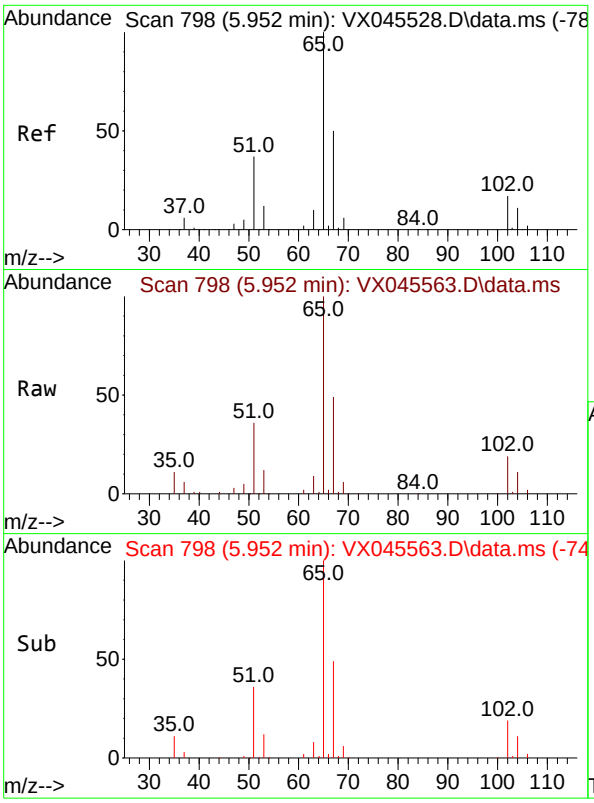


#32
1,1,1-Trichloroethane
Concen: 18.447 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.006 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion: 97 Resp: 38732

Ion	Ratio	Lower	Upper
97	100		
99	65.0	51.7	77.5
61	53.4	41.0	61.4

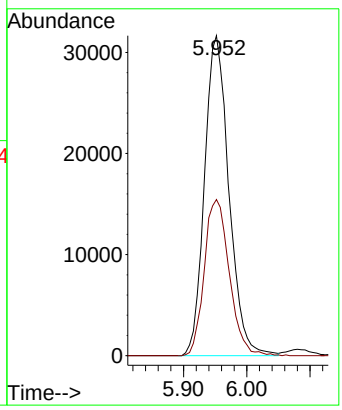




#33
1,2-Dichloroethane-d4
Concen: 48.821 ug/l
RT: 5.952 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion: 65 Resp: 8484

Ion	Ratio	Lower	Upper
65	100		
67	50.1	0.0	99.0



Instrument :
MSVOA_X
ClientSampleId :
VX0403WBS01

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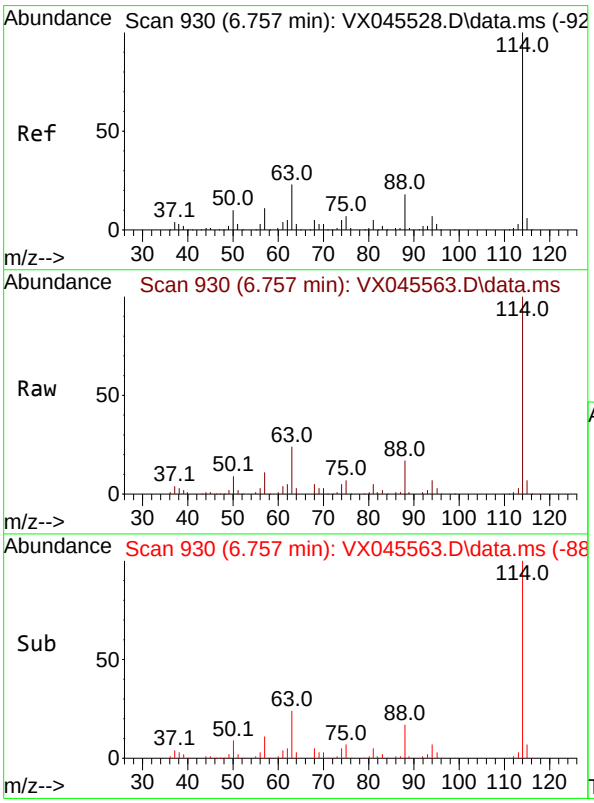
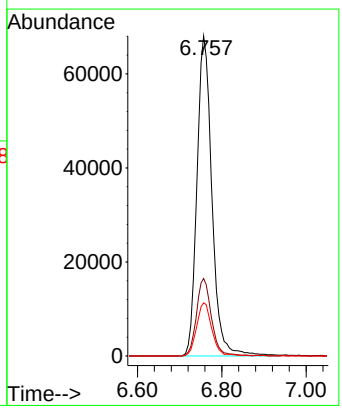
Reviewed By :Semsettin Yesilyurt 04/04/2025
Supervised By :Mahesh Dadoda 04/04/2025

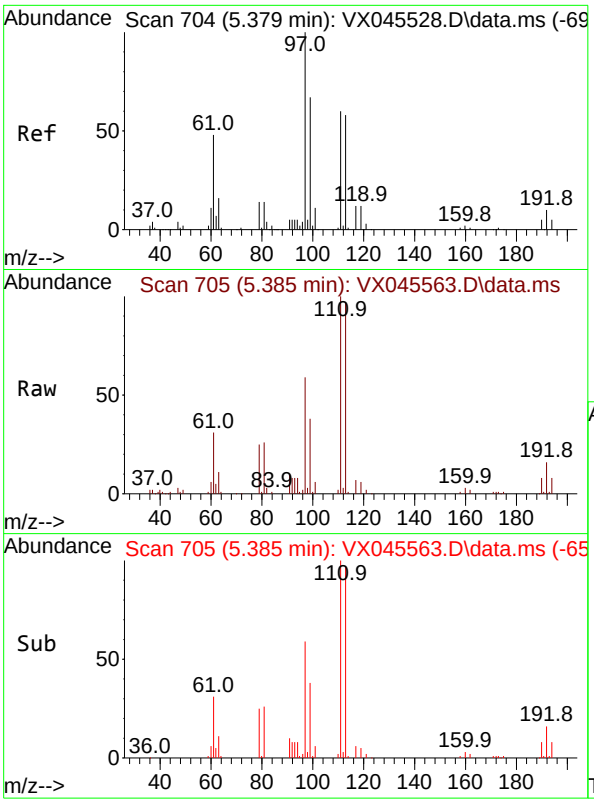


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion:114 Resp: 168178

Ion	Ratio	Lower	Upper
114	100		
63	24.2	0.0	46.8
88	16.6	0.0	35.4

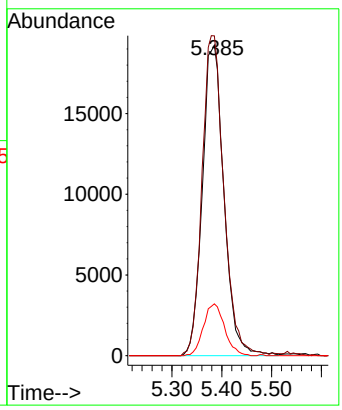




#35
Dibromofluoromethane
Concen: 48.473 ug/l
RT: 5.385 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion:113 Resp: 5783

Ion	Ratio	Lower	Upper
113	100		
111	103.7	81.8	122.6
192	16.4	13.8	20.6



Instrument :
MSVOA_X
ClientSampleId :
VX0403WBS01

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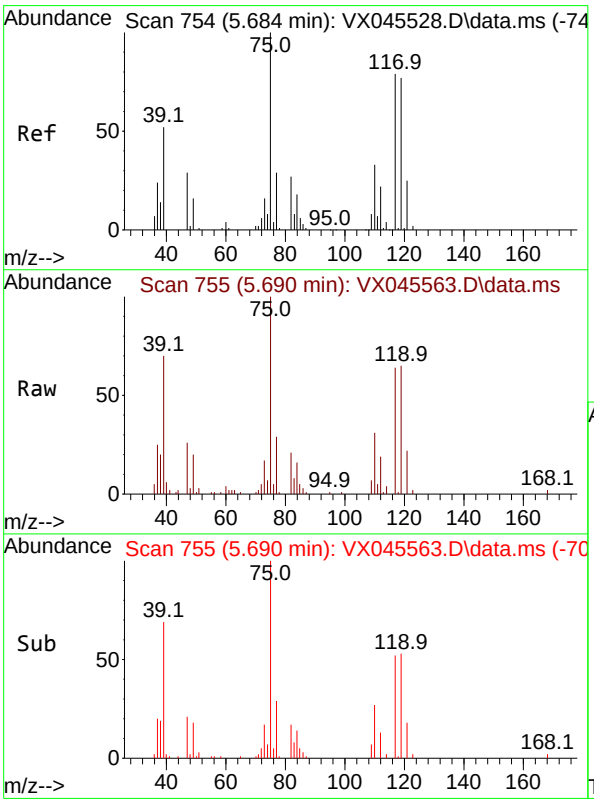
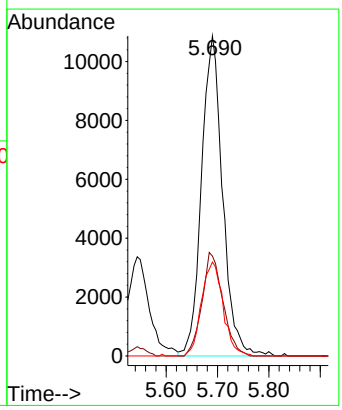
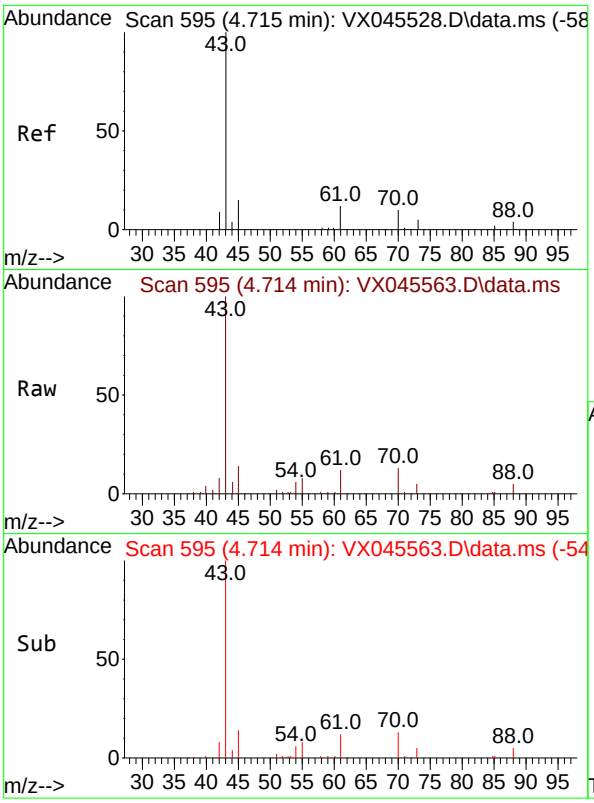


#36
1,1-Dichloropropene
Concen: 19.248 ug/l
RT: 5.690 min Scan# 755
Delta R.T. 0.006 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion: 75 Resp: 31010

Ion	Ratio	Lower	Upper
75	100		
110	31.9	16.9	50.6
77	29.9	25.0	37.4

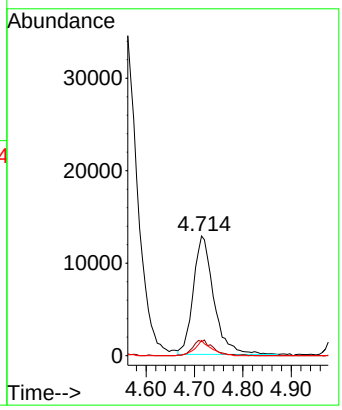




#37
Ethyl Acetate
Concen: 18.488 ug/l
RT: 4.714 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion: 43 Resp: 3753

Ion	Ratio	Lower	Upper
43	100		
61	12.9	9.9	14.9
70	10.2	7.5	11.3



Instrument :
MSVOA_X
ClientSampleId :
VX0403WBS01

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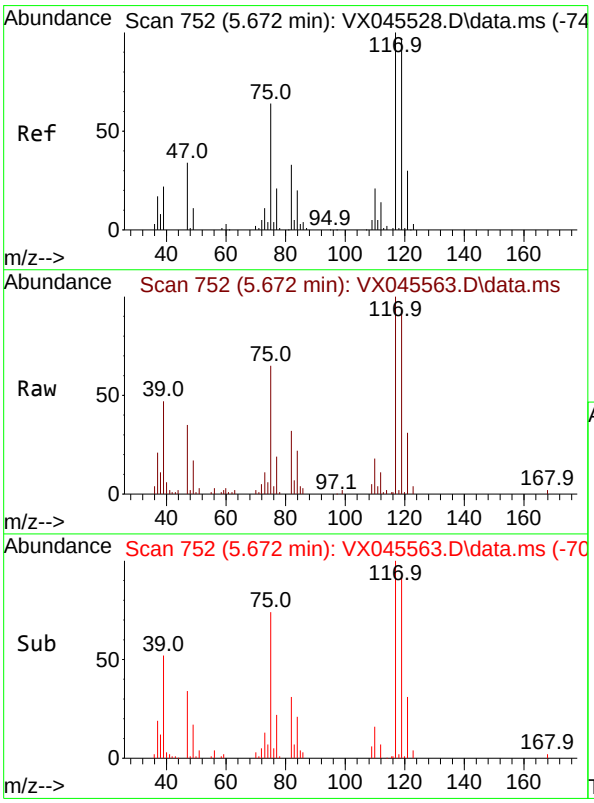
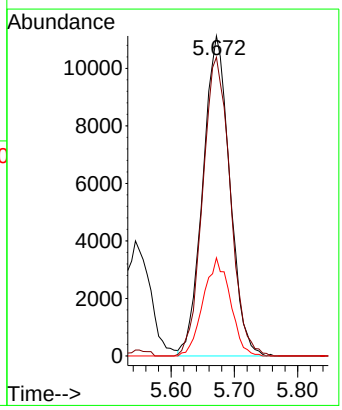
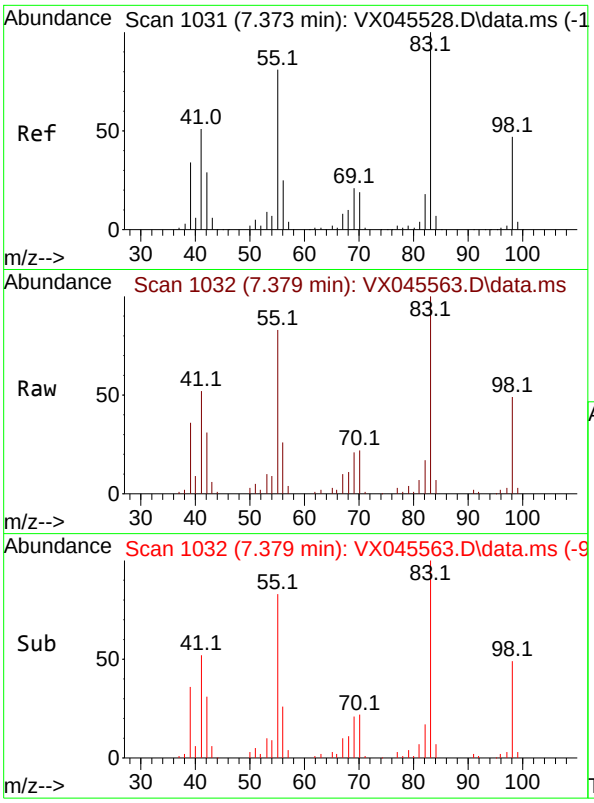


#38
Carbon Tetrachloride
Concen: 18.889 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.000 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion:117 Resp: 32889

Ion	Ratio	Lower	Upper
117	100		
119	93.3	76.9	115.3
121	30.7	24.2	36.2

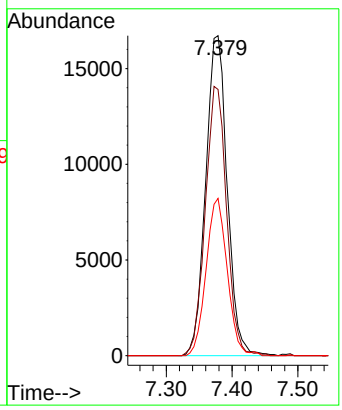




#39
Methylcyclohexane
Concen: 19.297 ug/l
RT: 7.379 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion: 83 Resp: 3810

Ion	Ratio	Lower	Upper
83	100		
55	83.2	64.9	97.3
98	49.2	37.4	56.0



Instrument :
MSVOA_X
ClientSampleId :
VX0403WBS01

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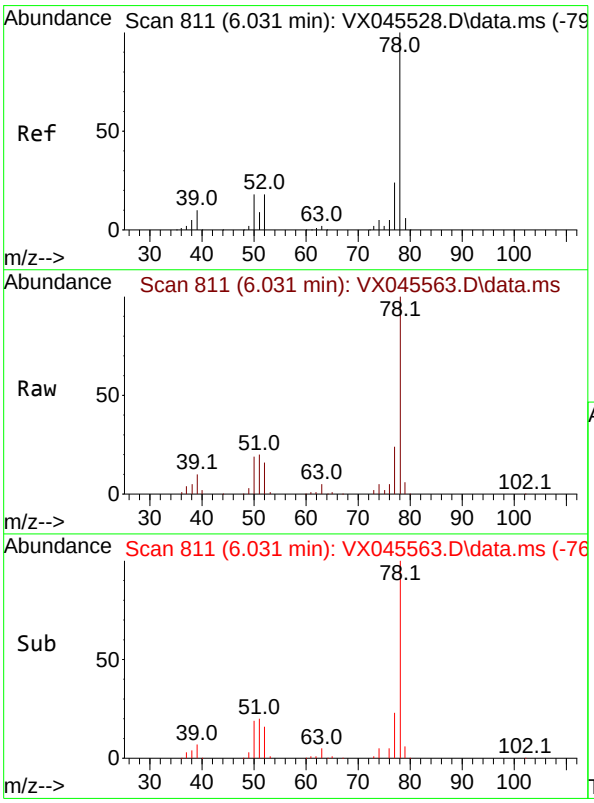
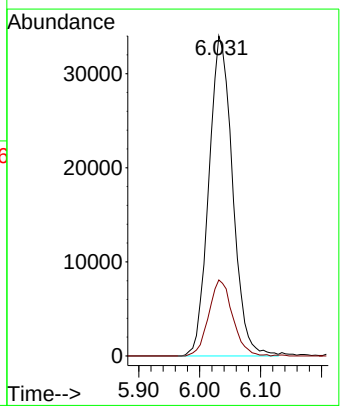
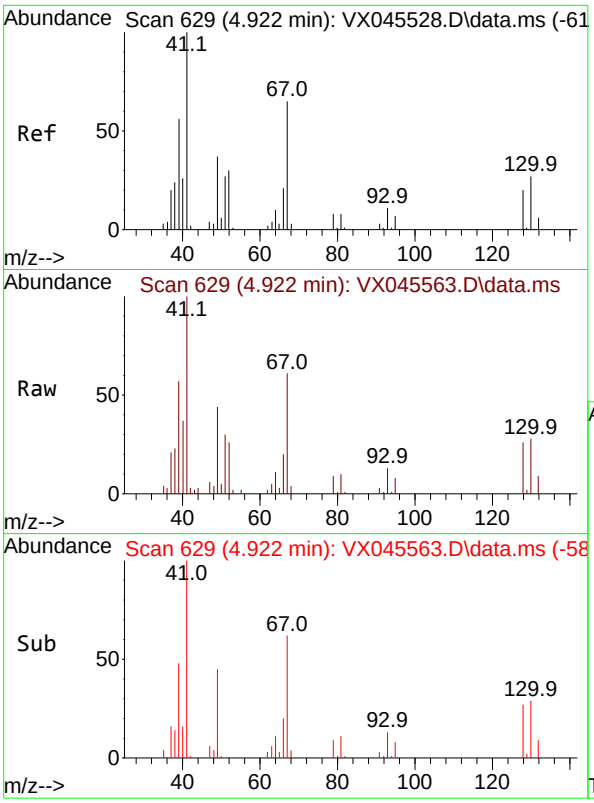


#40
Benzene
Concen: 18.724 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion: 78 Resp: 92131

Ion	Ratio	Lower	Upper
78	100		
77	23.7	19.0	28.6

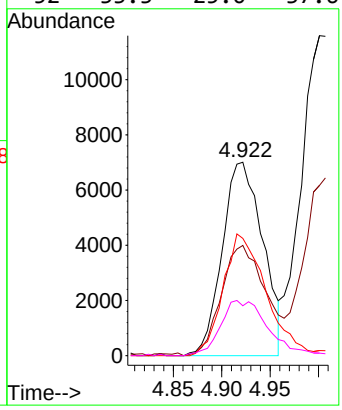




#41
Methacrylonitrile
Concen: 19.119 ug/l
RT: 4.922 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion: 41 Resp: 2048

Ion	Ratio	Lower	Upper
41	100		
39	62.8	47.0	70.6
67	67.4	53.2	79.8
52	33.3	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
VX0403WBS01

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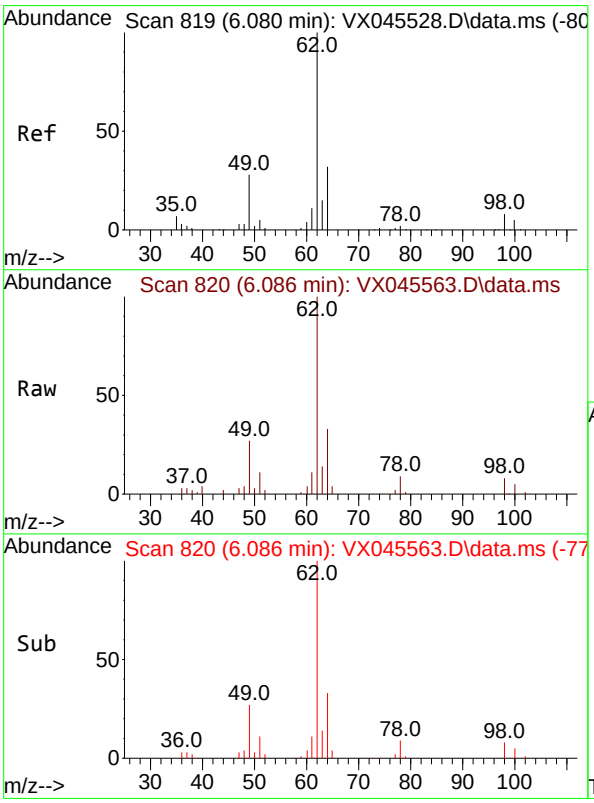
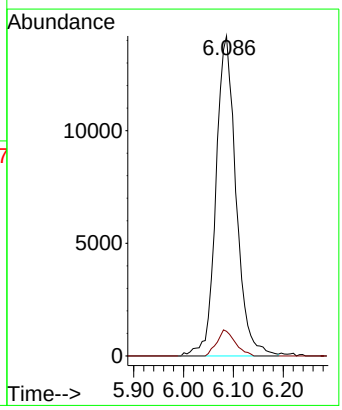
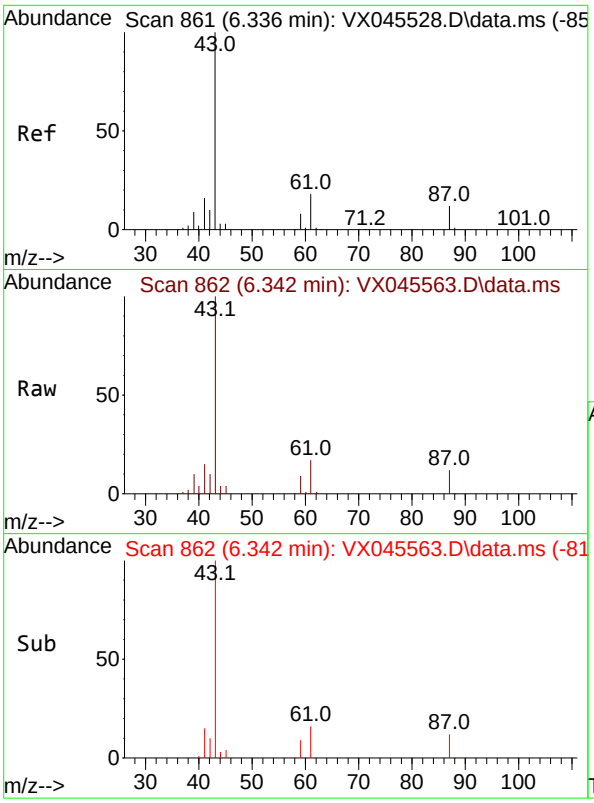


#42
1,2-Dichloroethane
Concen: 19.592 ug/l
RT: 6.086 min Scan# 820
Delta R.T. 0.006 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion: 62 Resp: 39817

Ion	Ratio	Lower	Upper
62	100		
98	7.4	0.0	15.2





#43
Isopropyl Acetate
Concen: 18.742 ug/l
RT: 6.342 min Scan# 8
Delta R.T. 0.006 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion: 43 Resp: 5767

Ion	Ratio	Lower	Upper
43	100		
61	17.6	14.1	21.1
87	11.5	9.2	13.8

Instrument :
MSVOA_X
ClientSampleId :
VX0403WBS01

Manual Integrations
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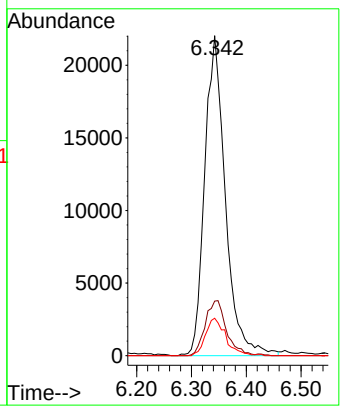
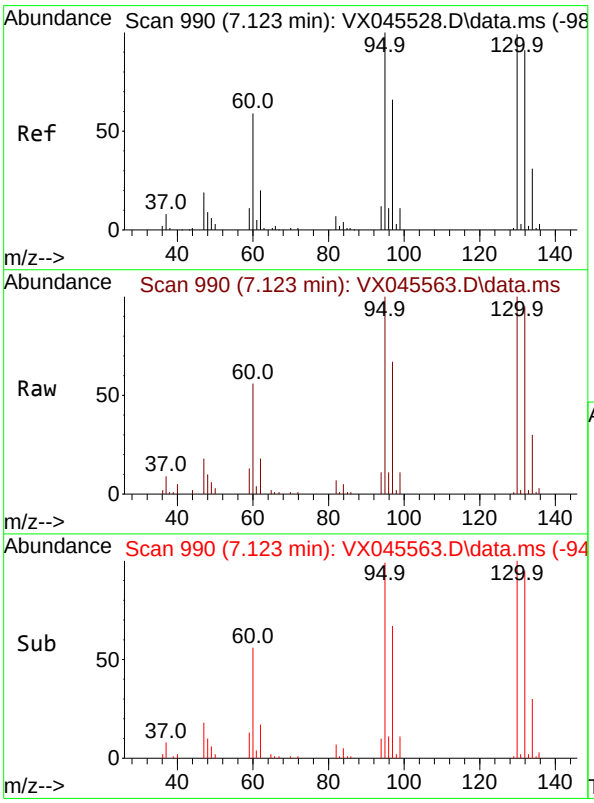
Reviewed By :Semsettin Yesilyurt 04/04/2025
Supervised By :Mahesh Dadoda 04/04/2025

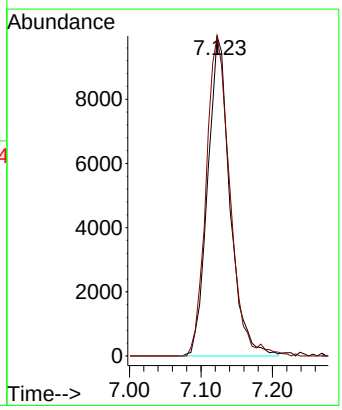


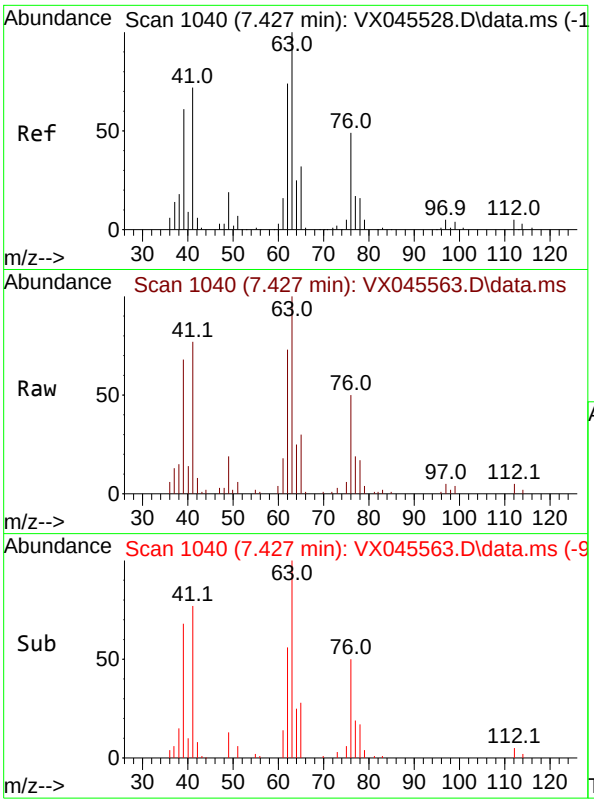


#44
Trichloroethene
Concen: 18.452 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion:130 Resp: 21580

Ion	Ratio	Lower	Upper
130	100		
95	99.7	0.0	202.0

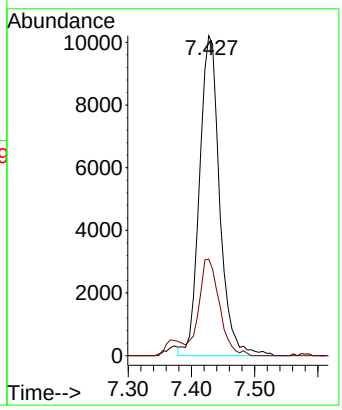




#45
1,2-Dichloropropane
Concen: 18.482 ug/l
RT: 7.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion: 63 Resp: 2269

Ion	Ratio	Lower	Upper
63	100		
65	30.2	25.8	38.6



Instrument :
MSVOA_X
ClientSampleId :
VX0403WBS01

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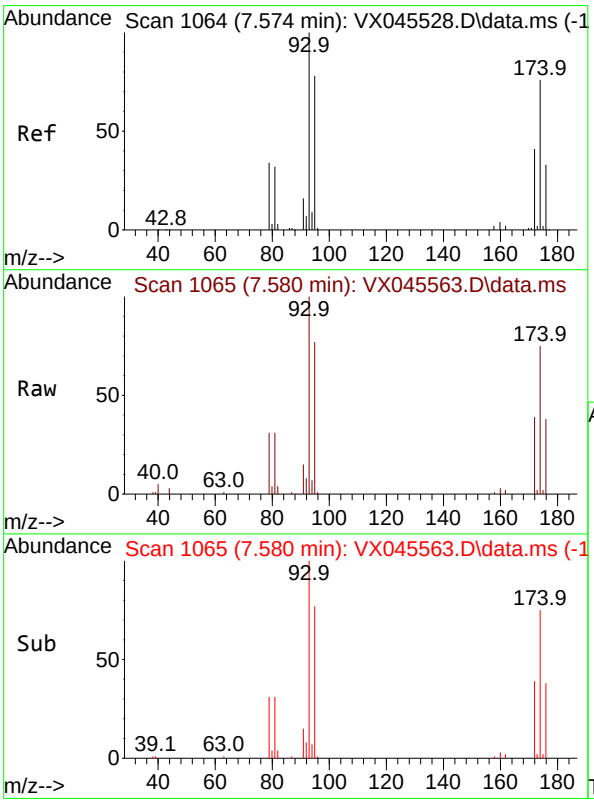
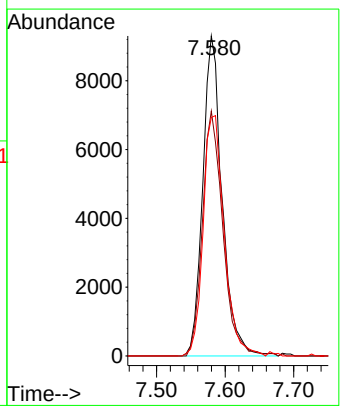
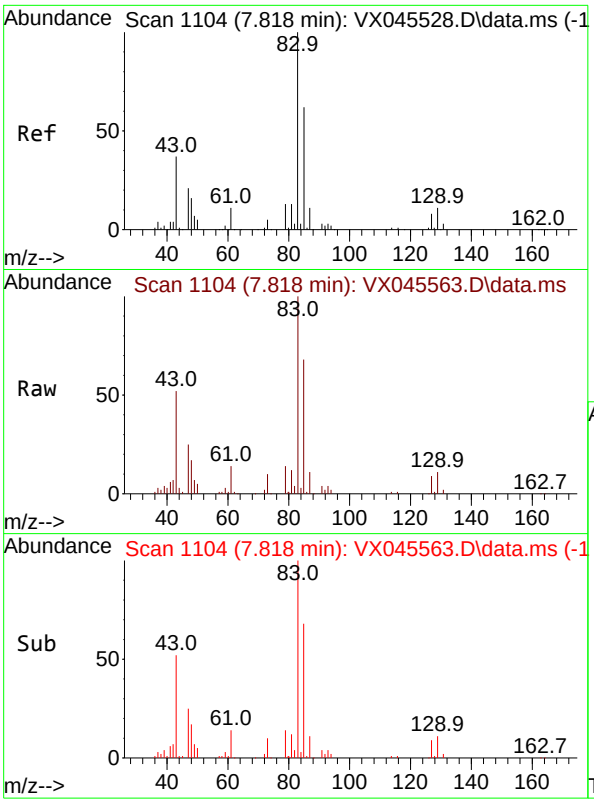


#46
Dibromomethane
Concen: 19.458 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. 0.006 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion: 93 Resp: 18338

Ion	Ratio	Lower	Upper
93	100		
95	80.8	64.8	97.2
174	81.4	65.4	98.0

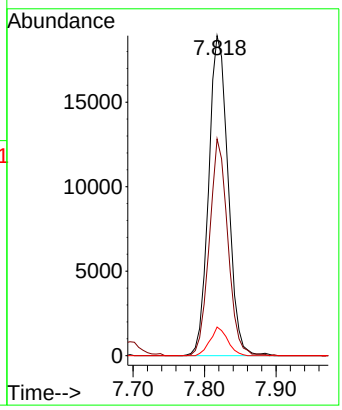




#47
Bromodichloromethane
Concen: 18.952 ug/l
RT: 7.818 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion: 83 Resp: 3566

Ion	Ratio	Lower	Upper
83	100		
85	67.7	49.7	74.5
127	9.0	6.1	9.1



Instrument :
MSVOA_X
ClientSampleId :
VX0403WBS01

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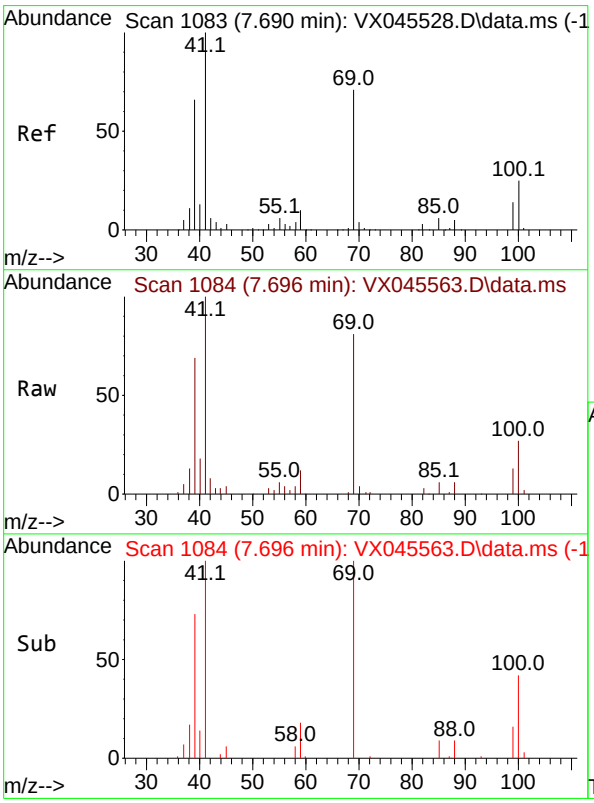
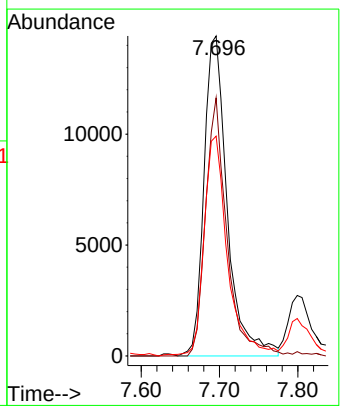
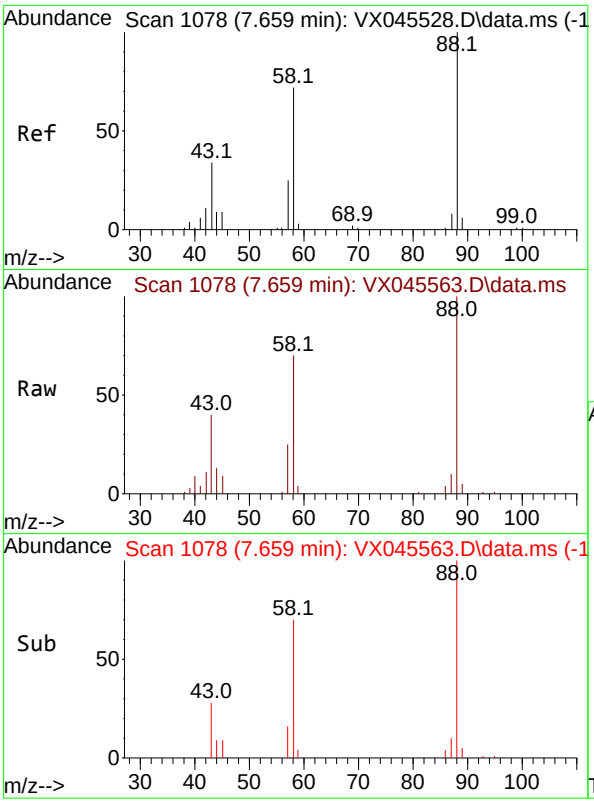


#48
Methyl methacrylate
Concen: 18.752 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. 0.006 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion: 41 Resp: 29793

Ion	Ratio	Lower	Upper
41	100		
69	73.8	58.2	87.2
39	68.7	53.6	80.4

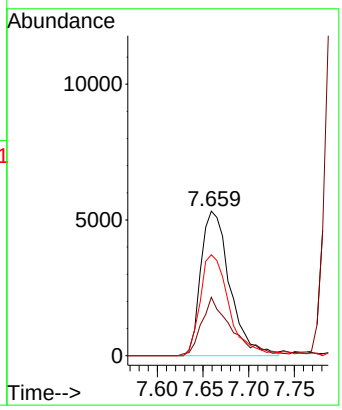




#49
1,4-Dioxane
Concen: 409.867 ug/l
RT: 7.659 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion: 88 Resp: 1178

Ion	Ratio	Lower	Upper
88	100		
43	41.6	32.2	48.4
58	71.8	58.6	88.0



Instrument :
MSVOA_X
ClientSampleId :
VX0403WBS01

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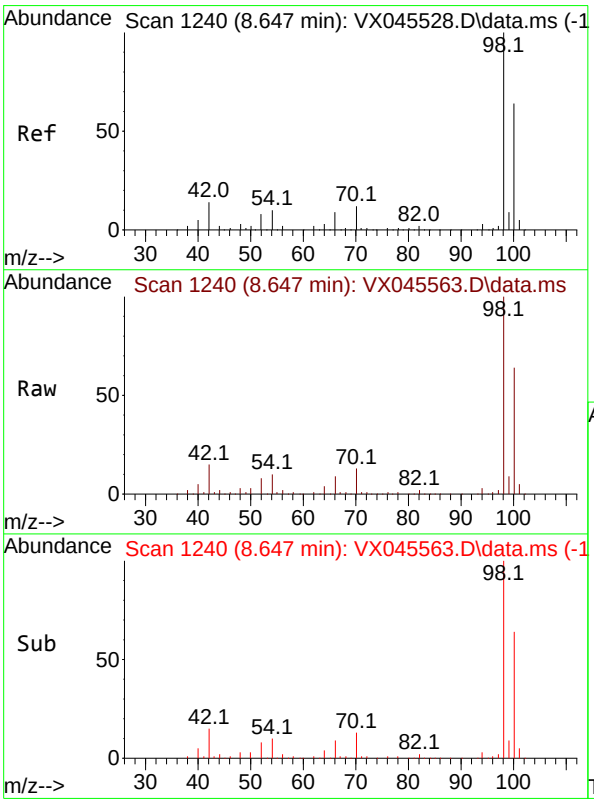
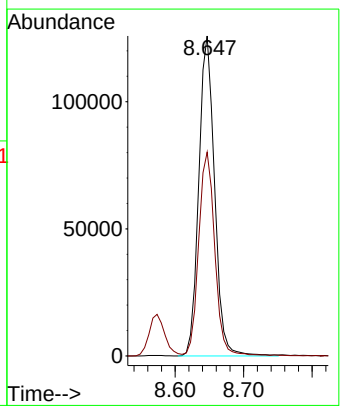
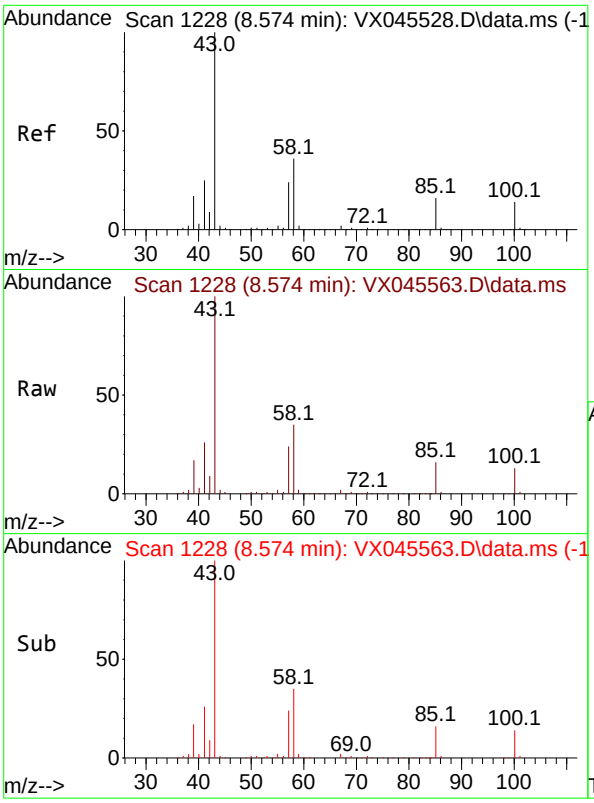


#50
Toluene-d8
Concen: 48.546 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion: 98 Resp: 202186

Ion	Ratio	Lower	Upper
98	100		
100	64.9	52.2	78.4

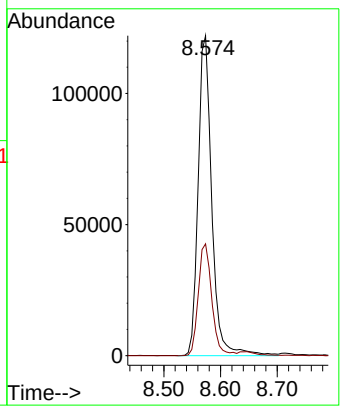




#51
4-Methyl-2-Pentanone
Concen: 100.048 ug/l
RT: 8.574 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion: 43 Resp: 20409

Ion	Ratio	Lower	Upper
43	100		
58	34.7	28.5	42.7



Instrument :
MSVOA_X
ClientSampleId :
VX0403WBS01

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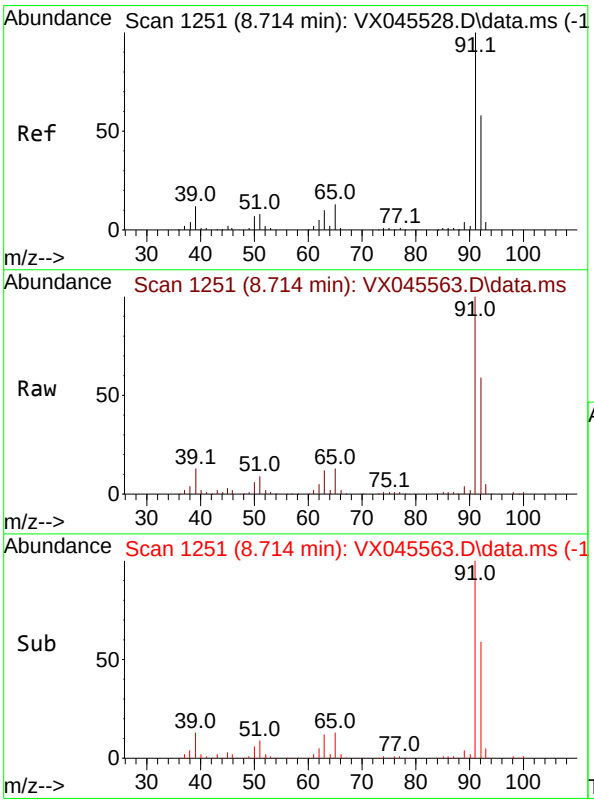
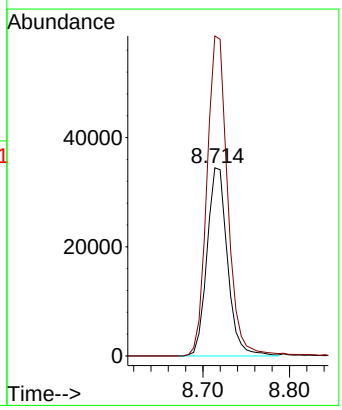
Reviewed By :Semsettin Yesilyurt 04/04/2025
Supervised By :Mahesh Dadoda 04/04/2025

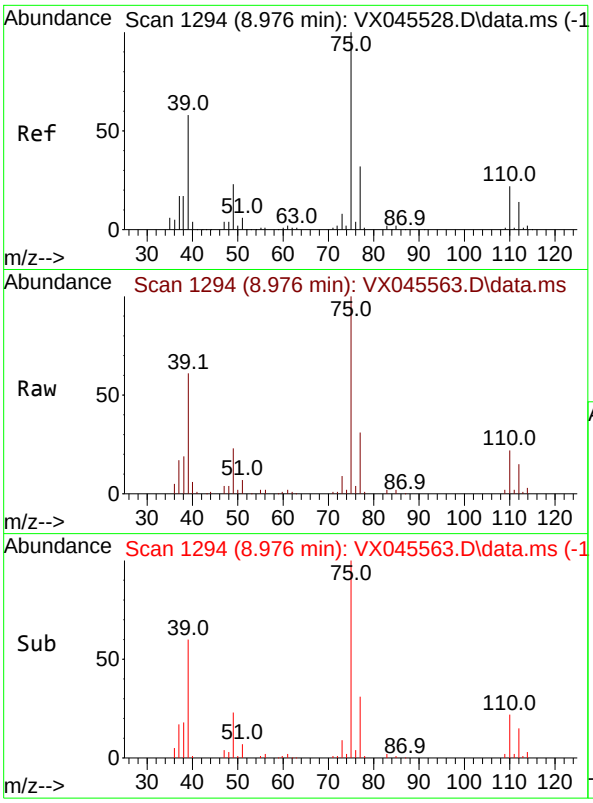


#52
Toluene
Concen: 19.009 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion: 92 Resp: 56597

Ion	Ratio	Lower	Upper
92	100		
91	173.1	138.7	208.1

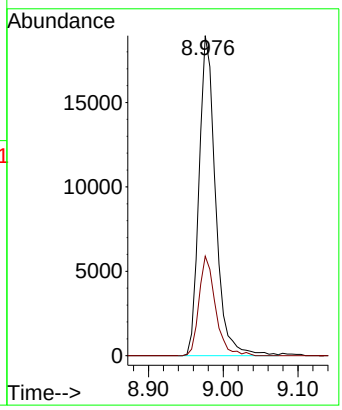




#53
t-1,3-Dichloropropene
Concen: 17.610 ug/l
RT: 8.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion: 75 Resp: 2905

Ion	Ratio	Lower	Upper
75	100		
77	31.1	25.4	38.0



Instrument :
MSVOA_X
ClientSampleId :
VX0403WBS01

Manual Integrations
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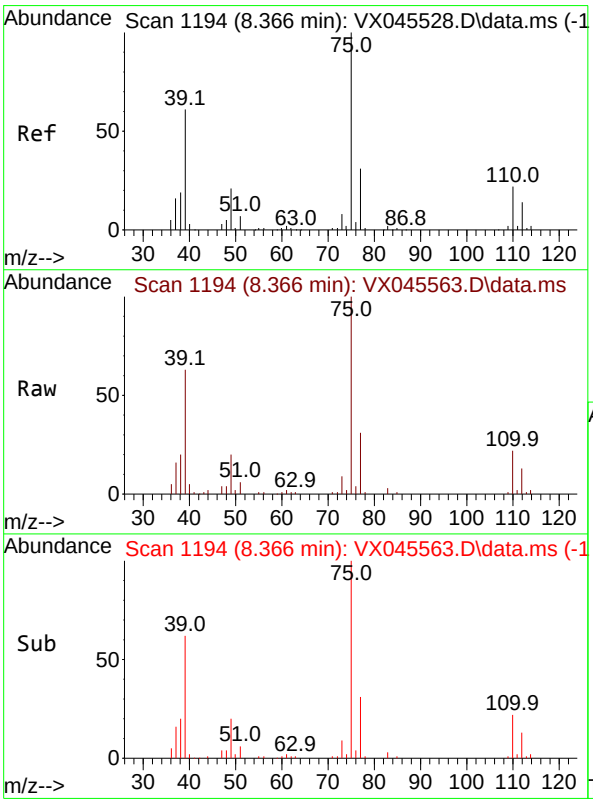
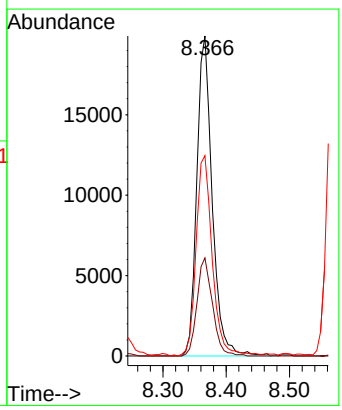
Reviewed By :Semsettin Yesilyurt 04/04/2025
Supervised By :Mahesh Dadoda 04/04/2025

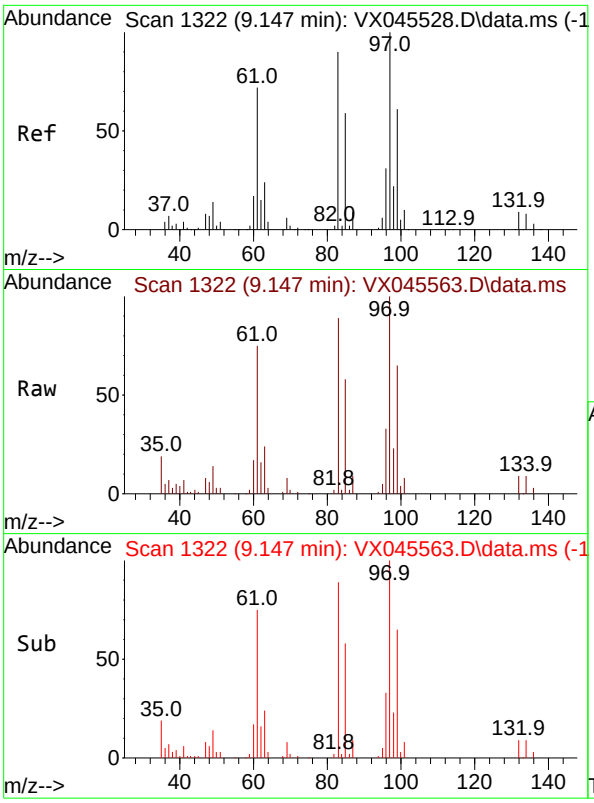


#54
cis-1,3-Dichloropropene
Concen: 19.051 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.000 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion: 75 Resp: 33695

Ion	Ratio	Lower	Upper
75	100		
77	30.7	24.6	36.8
39	62.6	48.4	72.6

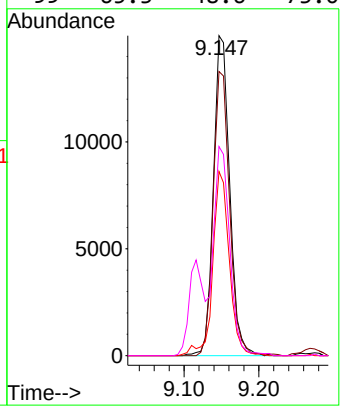




#55
1,1,2-Trichloroethane
Concen: 19.068 ug/l
RT: 9.147 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion: 97 Resp: 2262

Ion	Ratio	Lower	Upper
97	100		
83	88.8	71.8	107.8
85	57.6	47.0	70.6
99	65.3	48.6	73.0



Instrument :
MSVOA_X
ClientSampleId :
VX0403WBS01

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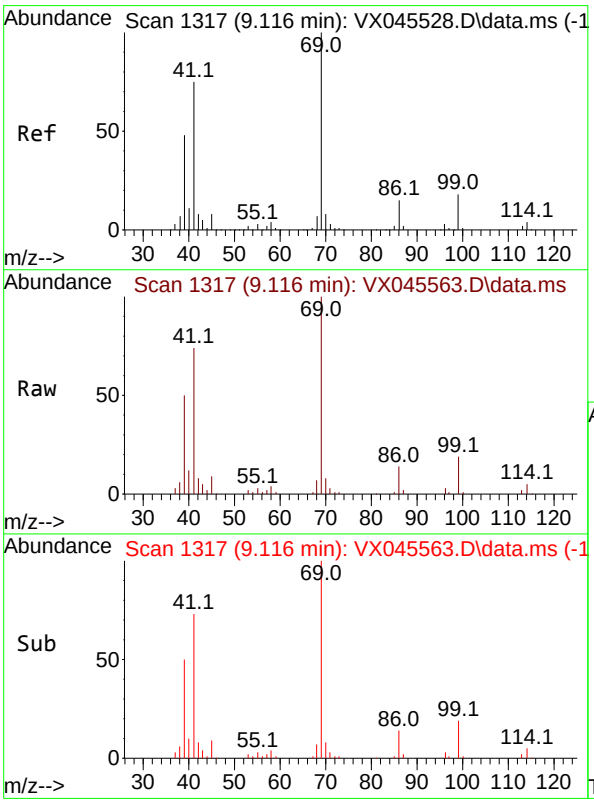
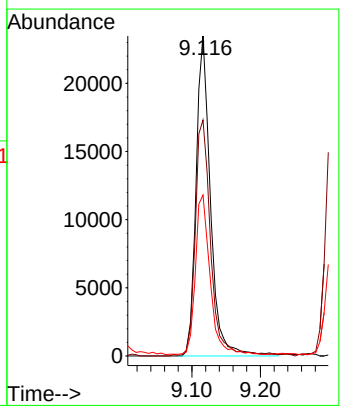
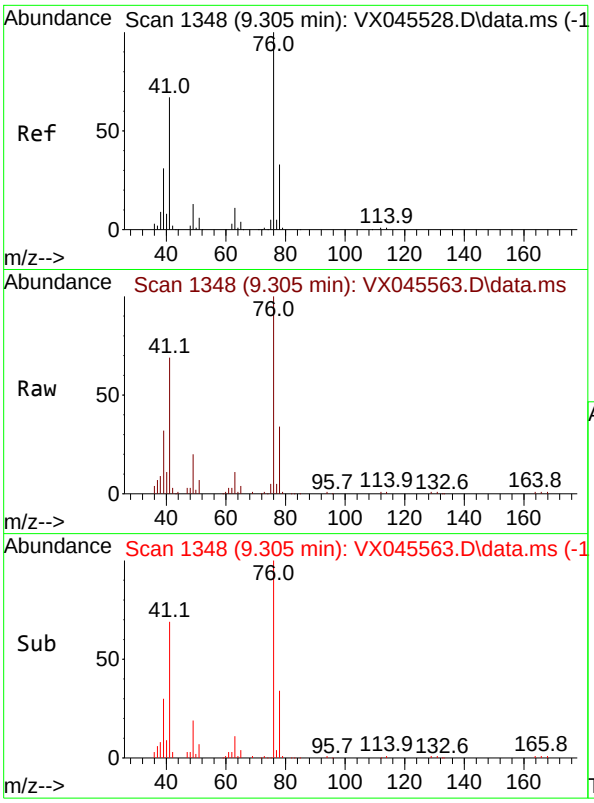


#56
Ethyl methacrylate
Concen: 18.735 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion: 69 Resp: 34400

Ion	Ratio	Lower	Upper
69	100		
41	78.9	61.3	91.9
39	51.1	40.2	60.2

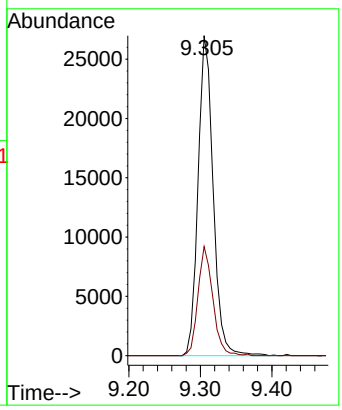




#57
1,3-Dichloropropane
Concen: 19.120 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion: 76 Resp: 3950

Ion	Ratio	Lower	Upper
76	100		
78	33.8	26.0	39.0



Instrument :
MSVOA_X
ClientSampleId :
VX0403WBS01

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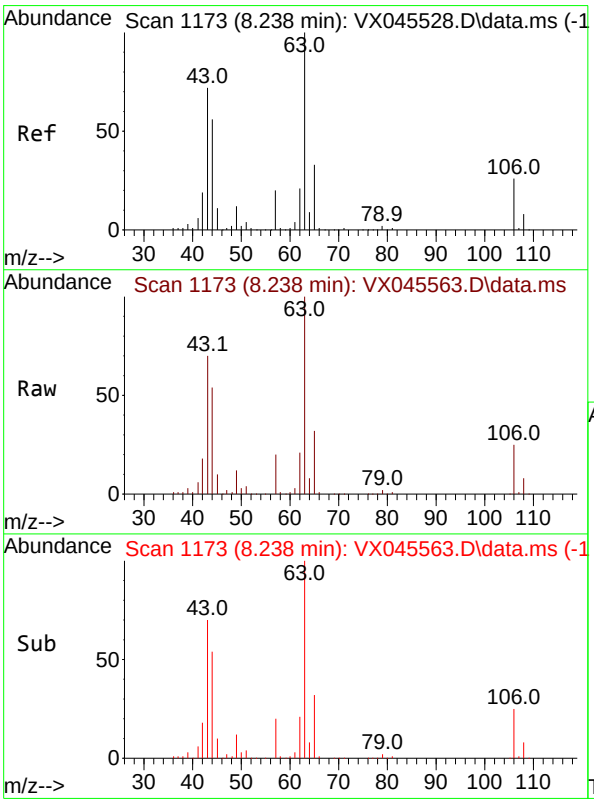
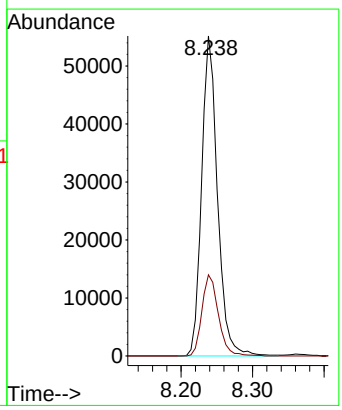
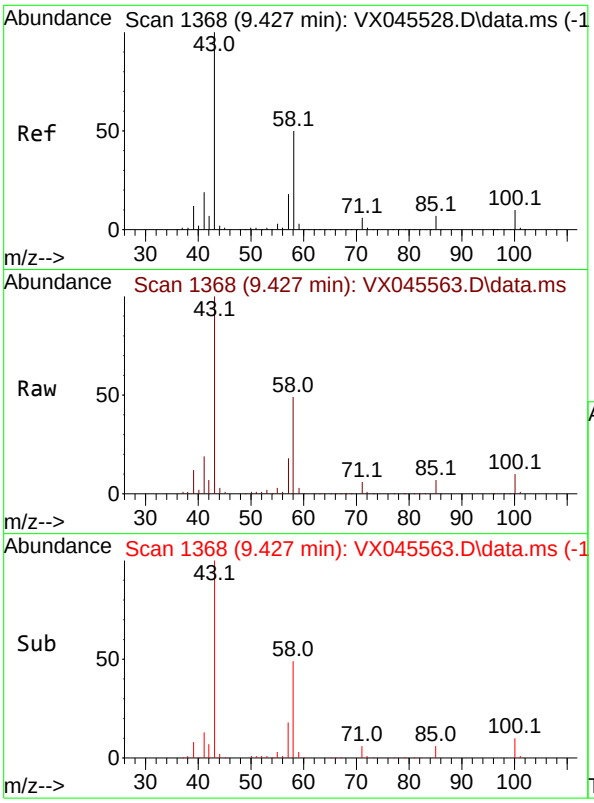


#58
2-Chloroethyl Vinyl ether
Concen: 91.451 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion: 63 Resp: 84945

Ion	Ratio	Lower	Upper
63	100		
106	26.3	21.0	31.6

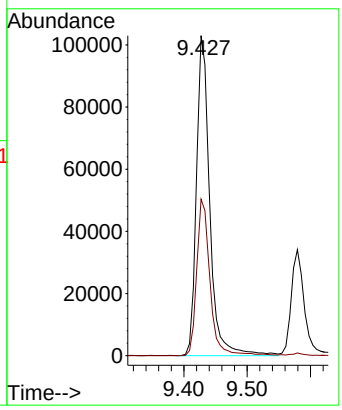




#59
2-Hexanone
Concen: 99.982 ug/l
RT: 9.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion: 43 Resp: 15103

Ion	Ratio	Lower	Upper
43	100		
58	48.9	24.9	74.6



Instrument :
MSVOA_X
ClientSampleId :
VX0403WBS01

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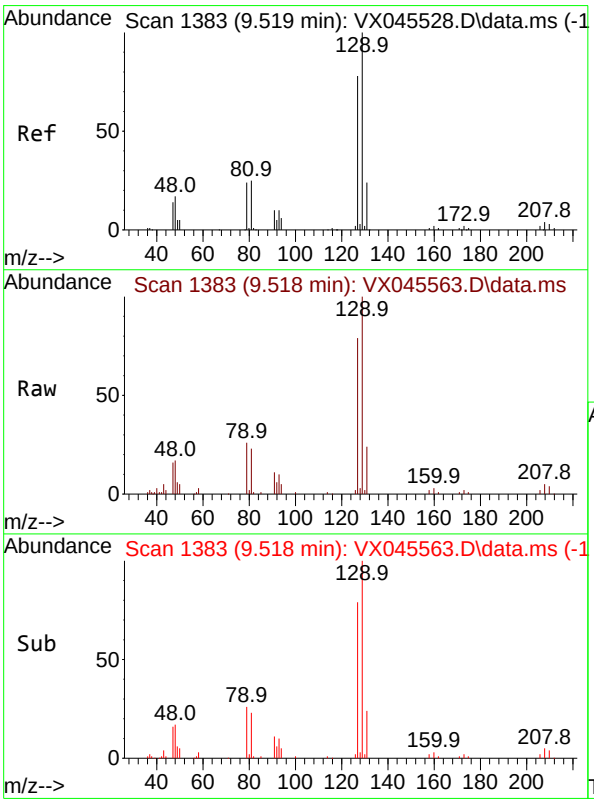
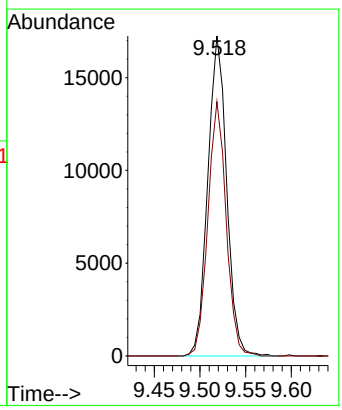
Supervised By :Mahesh Dadoda 04/04/2025

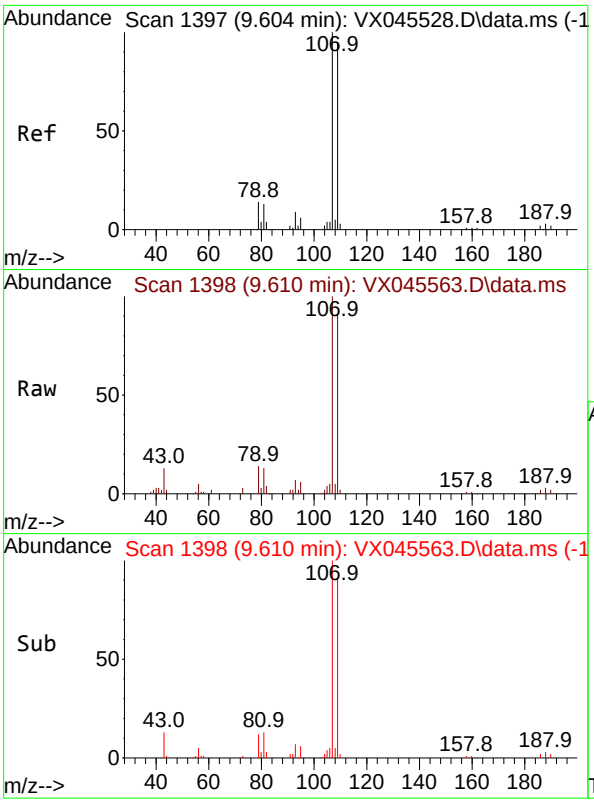


#60
Dibromochloromethane
Concen: 19.084 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion:129 Resp: 24684

Ion	Ratio	Lower	Upper
129	100		
127	76.9	39.4	118.2

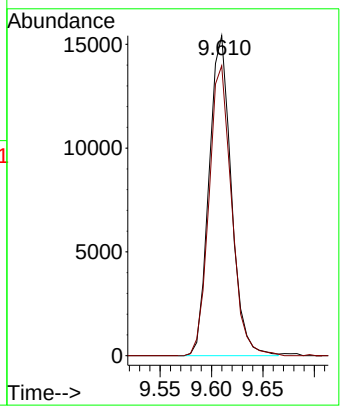




#61
1,2-Dibromoethane
Concen: 19.260 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion:107 Resp: 2313

Ion	Ratio	Lower	Upper
107	100		
109	92.1	75.7	113.5



Instrument :
MSVOA_X
ClientSampleId :
VX0403WBS01

Manual Integrations
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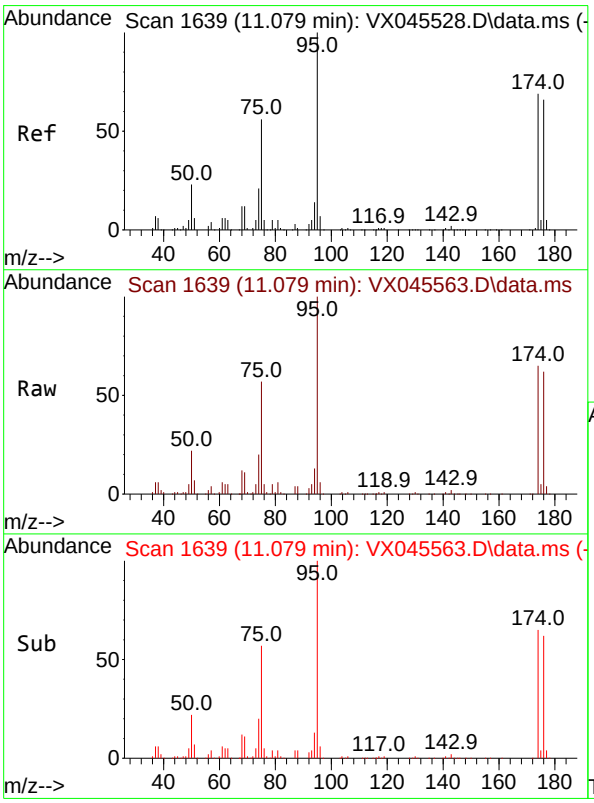
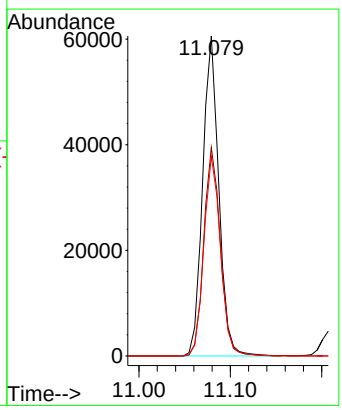
Reviewed By :Semsettin Yesilyurt 04/04/2025
Supervised By :Mahesh Dadoda 04/04/2025

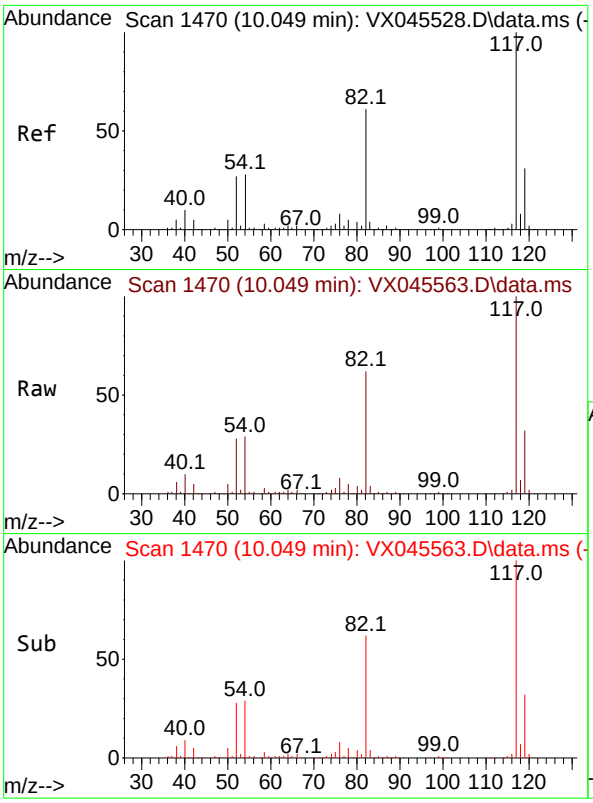


#62
4-Bromofluorobenzene
Concen: 49.015 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion: 95 Resp: 74358

Ion	Ratio	Lower	Upper
95	100		
174	67.0	0.0	135.8
176	64.3	0.0	131.4

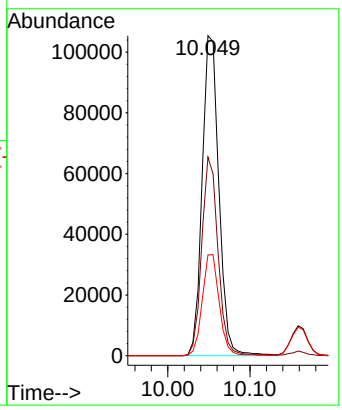




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion:117 Resp: 14905

Ion	Ratio	Lower	Upper
117	100		
82	62.1	49.2	73.8
119	31.5	25.1	37.7



Instrument :
MSVOA_X
ClientSampleId :
VX0403WBS01

Manual Integrations
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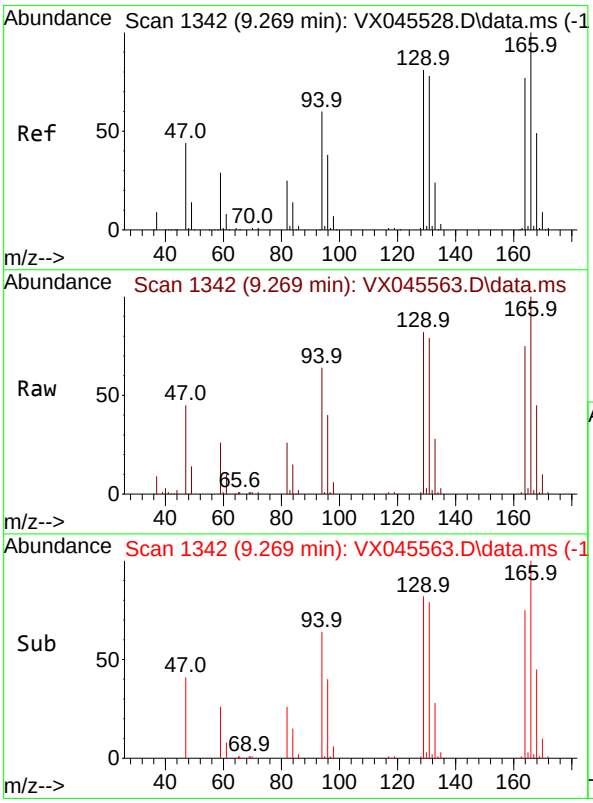
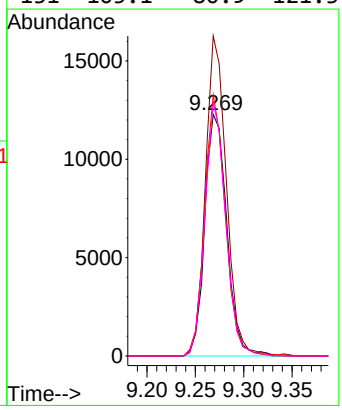
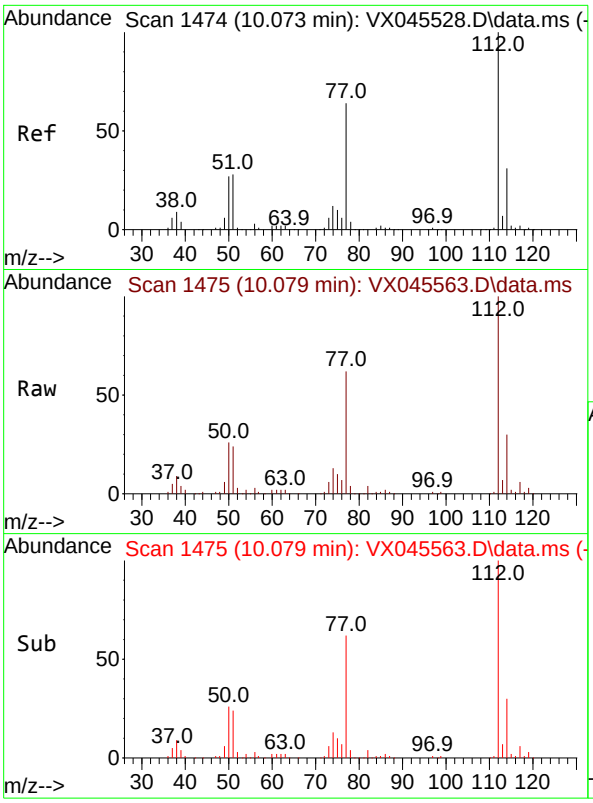


#64
Tetrachloroethene
Concen: 18.445 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion:164 Resp: 19411

Ion	Ratio	Lower	Upper
164	100		
166	132.5	103.8	155.8
129	108.1	84.3	126.5
131	105.1	80.9	121.3

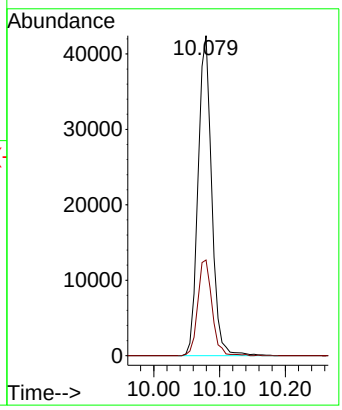




#65
Chlorobenzene
Concen: 19.149 ug/l
RT: 10.079 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion:112 Resp: 6098

Ion	Ratio	Lower	Upper
112	100		
114	29.9	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
VX0403WBS01

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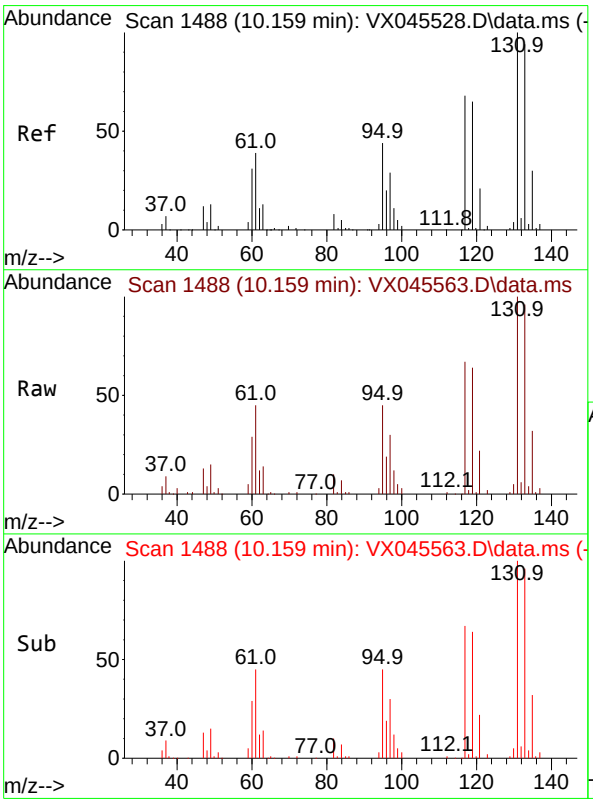
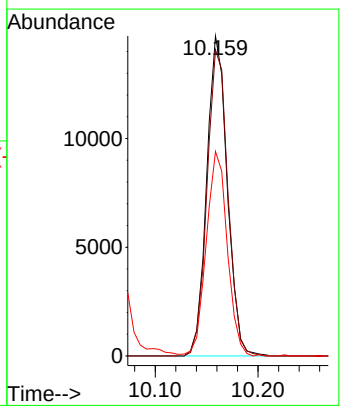
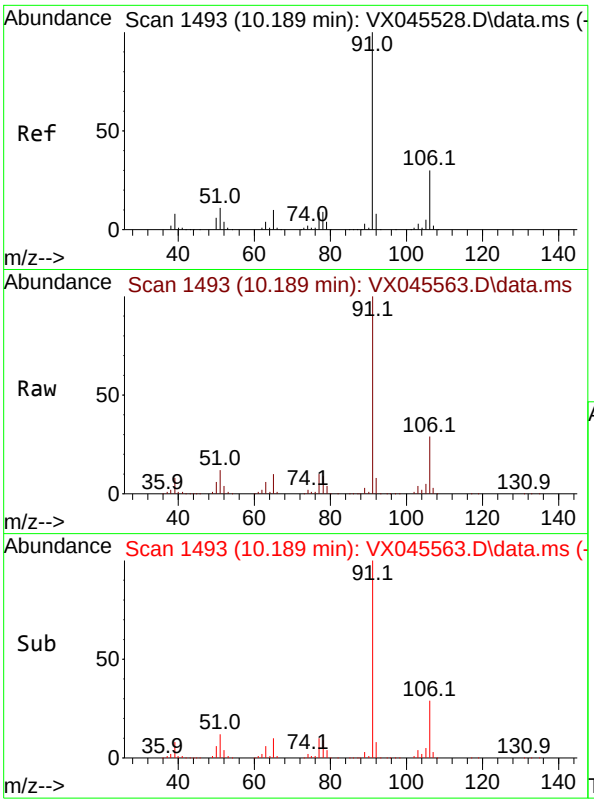


#66
1,1,1,2-Tetrachloroethane
Concen: 18.479 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion:131 Resp: 20434

Ion	Ratio	Lower	Upper
131	100		
133	97.1	47.5	142.5
119	65.3	32.9	98.6





#67
Ethyl Benzene
Concen: 19.101 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion: 91 Resp: 10895

Ion	Ratio	Lower	Upper
91	100		
106	28.9	23.7	35.5

Instrument :
MSVOA_X
ClientSampleId :
VX0403WBS01

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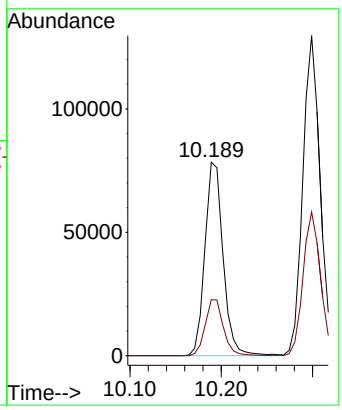
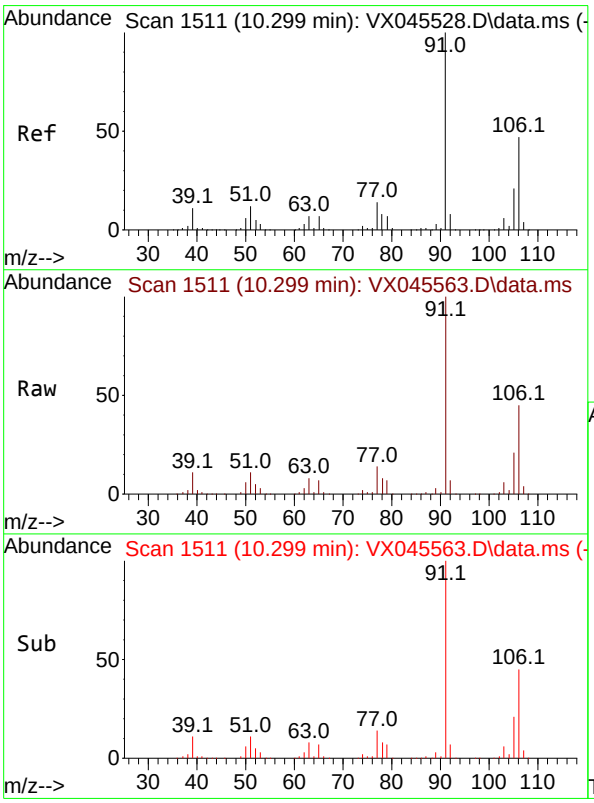
Reviewed By :Semsettin Yesilyurt 04/04/2025
Supervised By :Mahesh Dadoda 04/04/2025

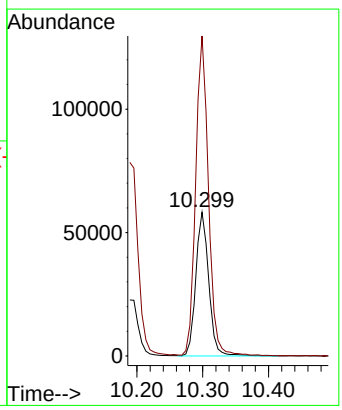


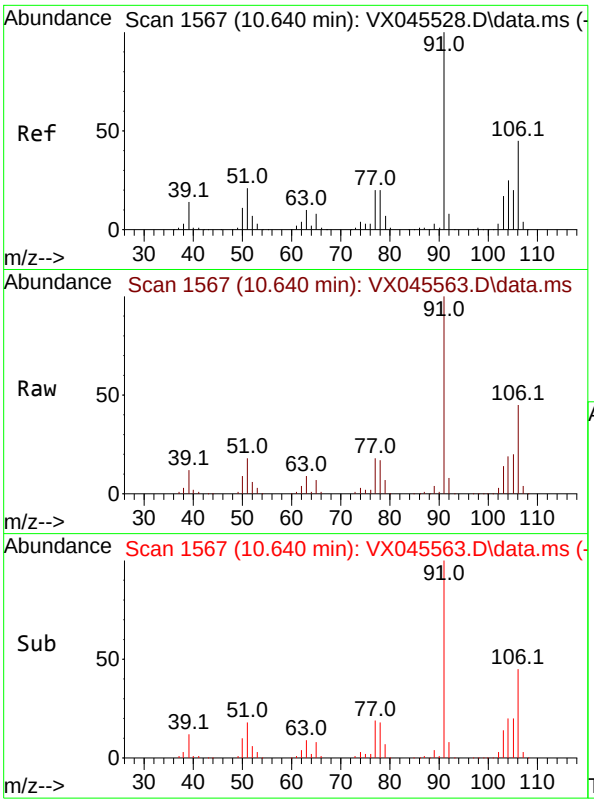


#68
m/p-Xylenes
Concen: 38.276 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion:106 Resp: 79412

Ion	Ratio	Lower	Upper
106	100		
91	220.3	172.6	258.8

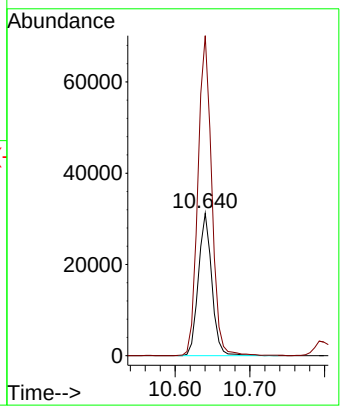




#69
o-Xylene
Concen: 19.052 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion:106 Resp: 3893

Ion	Ratio	Lower	Upper
106	100		
91	230.5	113.6	340.6



Instrument :
MSVOA_X
ClientSampleId :
VX0403WBS01

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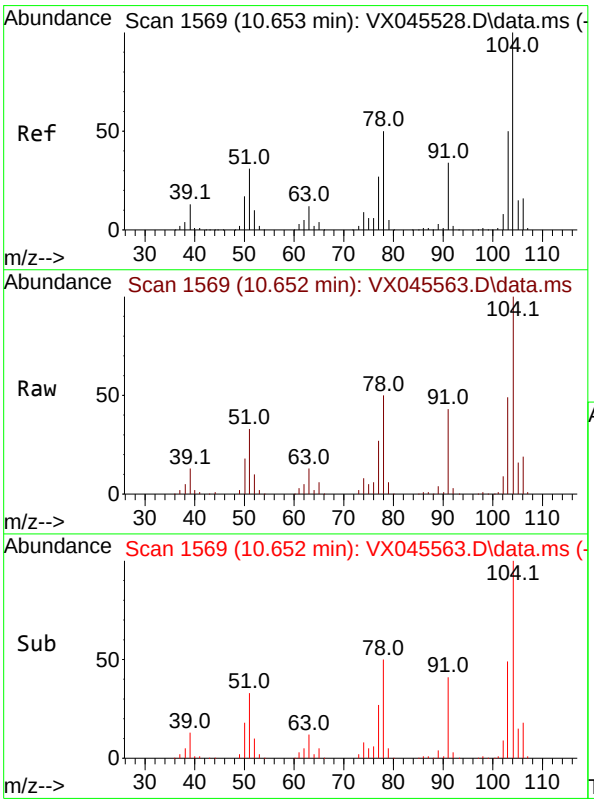
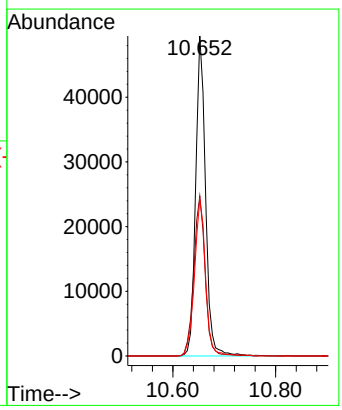
Reviewed By :Semsettin Yesilyurt 04/04/2025
Supervised By :Mahesh Dadoda 04/04/2025

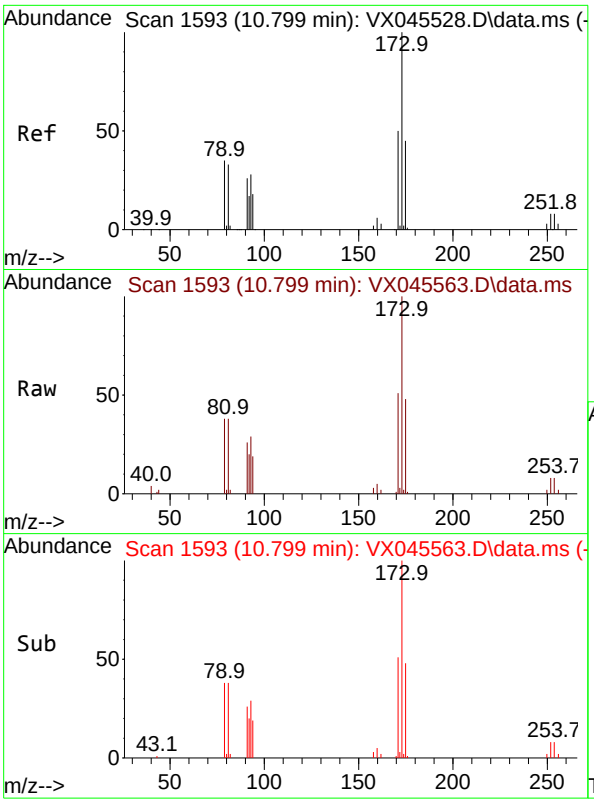


#70
Styrene
Concen: 19.607 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion:104 Resp: 66139

Ion	Ratio	Lower	Upper
104	100		
78	57.2	45.4	68.2
103	55.0	43.8	65.8

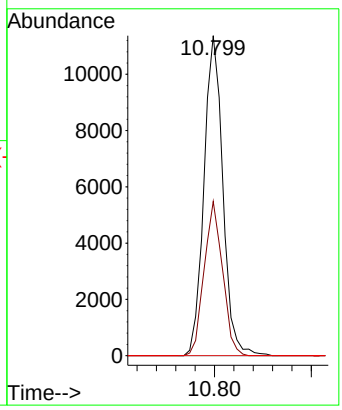




#71
Bromoform
Concen: 18.743 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion:173 Resp: 1547

Ion	Ratio	Lower	Upper
173	100		
175	46.9	23.4	70.2
254	0.0	0.0	0.0



Instrument :
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ClientSampleId :
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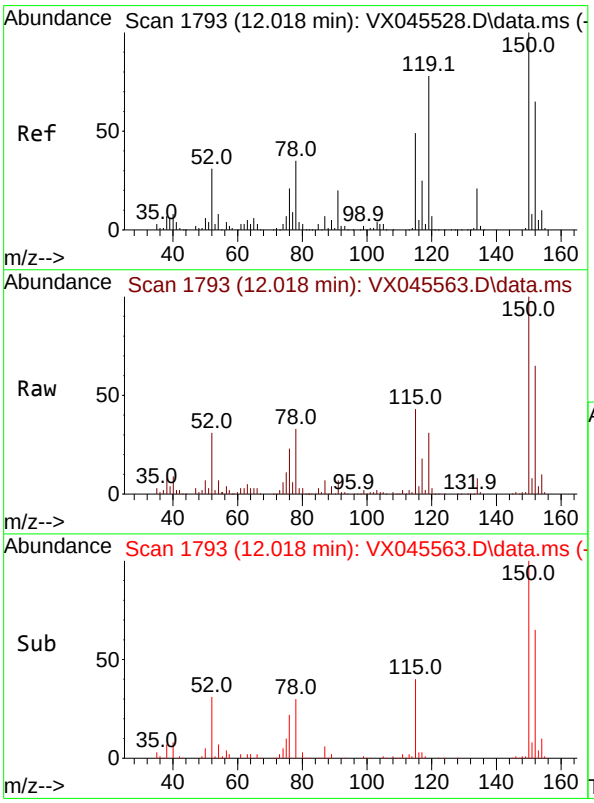
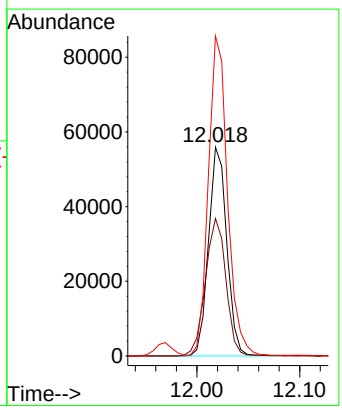
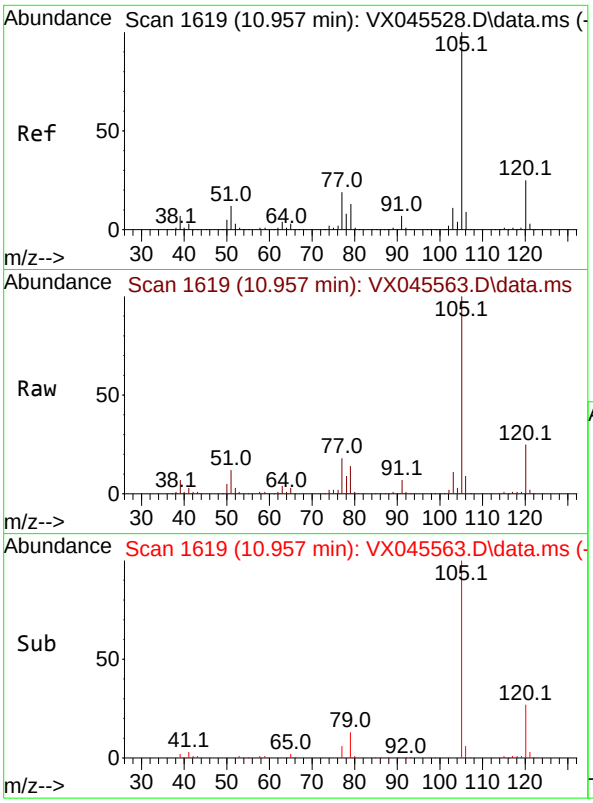


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion:152 Resp: 68919

Ion	Ratio	Lower	Upper
152	100		
115	74.1	46.9	140.7
150	160.0	0.0	349.4

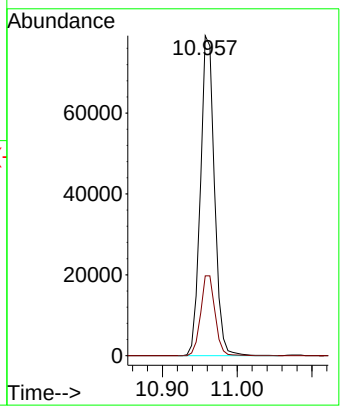




#73
Isopropylbenzene
Concen: 18.660 ug/l
RT: 10.957 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion:105 Resp: 10301

Ion	Ratio	Lower	Upper
105	100		
120	25.6	12.7	38.0



Instrument :
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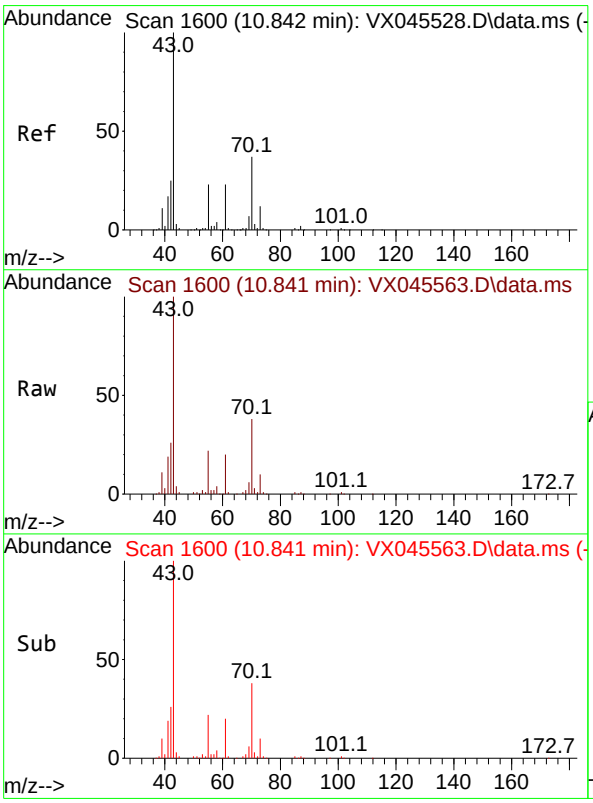
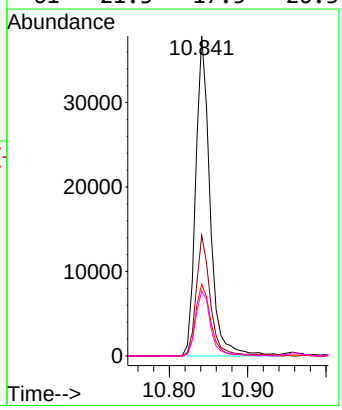
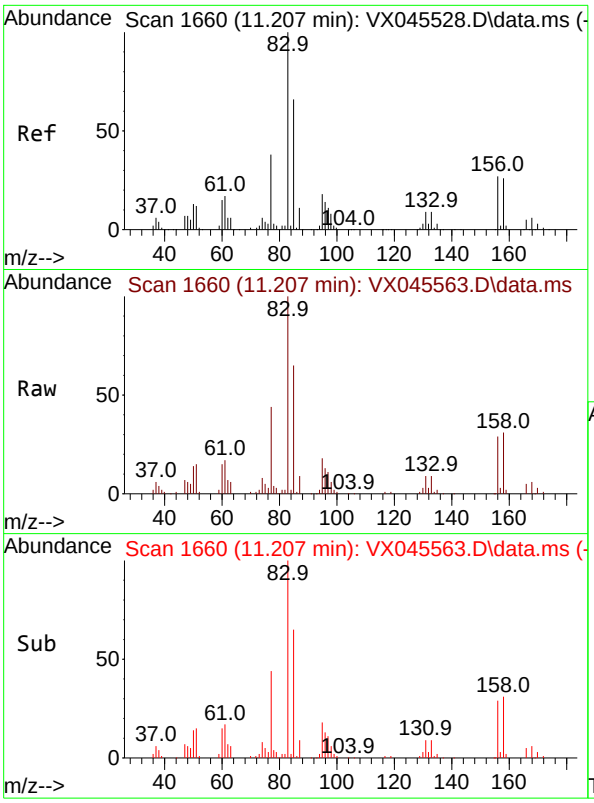


#74
N-amyl acetate
Concen: 18.332 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion: 43 Resp: 48409

Ion	Ratio	Lower	Upper
43	100		
70	37.3	30.1	45.1
55	23.8	18.3	27.5
61	21.3	17.5	26.3

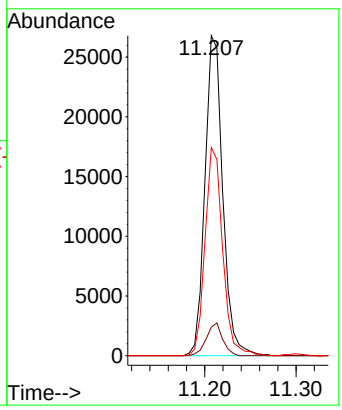




#75
1,1,2,2-Tetrachloroethane
Concen: 18.620 ug/l
RT: 11.207 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion: 83 Resp: 3610

Ion	Ratio	Lower	Upper
83	100		
131	9.3	4.7	14.1
85	64.4	32.4	97.2



Instrument :
MSVOA_X
ClientSampleId :
VX0403WBS01

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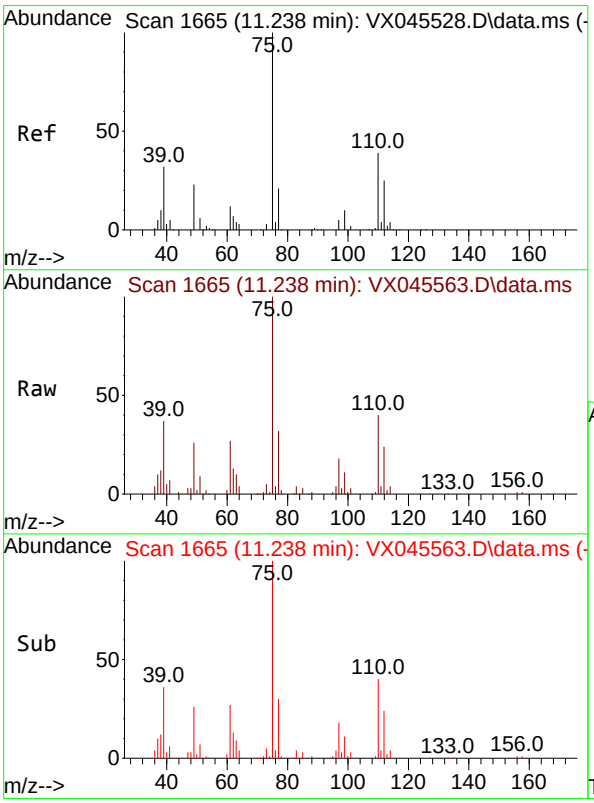
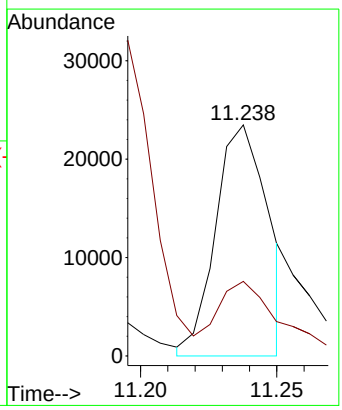
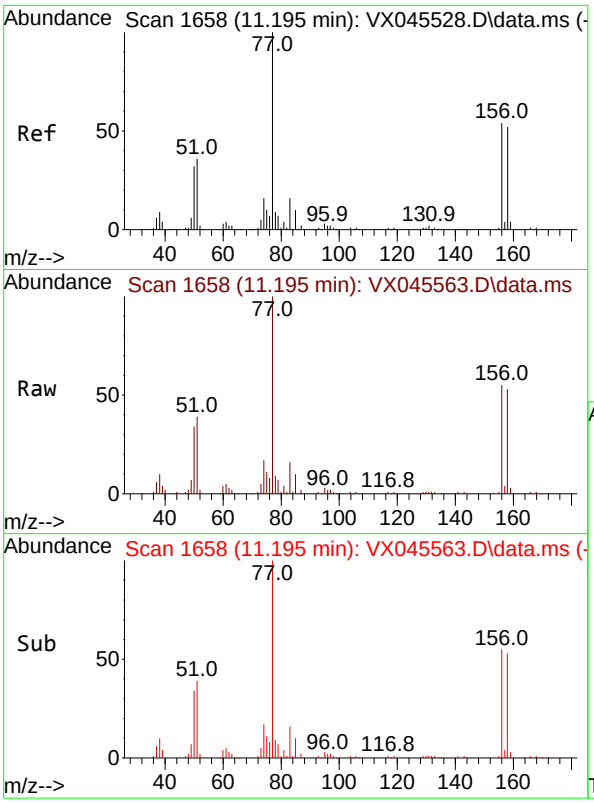


#76
1,2,3-Trichloropropane
Concen: 18.624 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion: 75 Resp: 31309

Ion	Ratio	Lower	Upper
75	100		
77	39.3	20.0	59.9

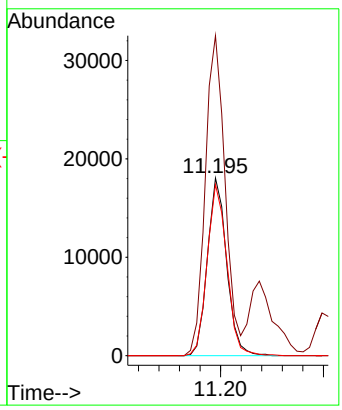




#77
Bromobenzene
Concen: 18.399 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion:156 Resp: 2346

Ion	Ratio	Lower	Upper
156	100		
77	185.2	92.6	277.8
158	98.8	48.1	144.4



Instrument :
MSVOA_X
ClientSampleId :
VX0403WBS01

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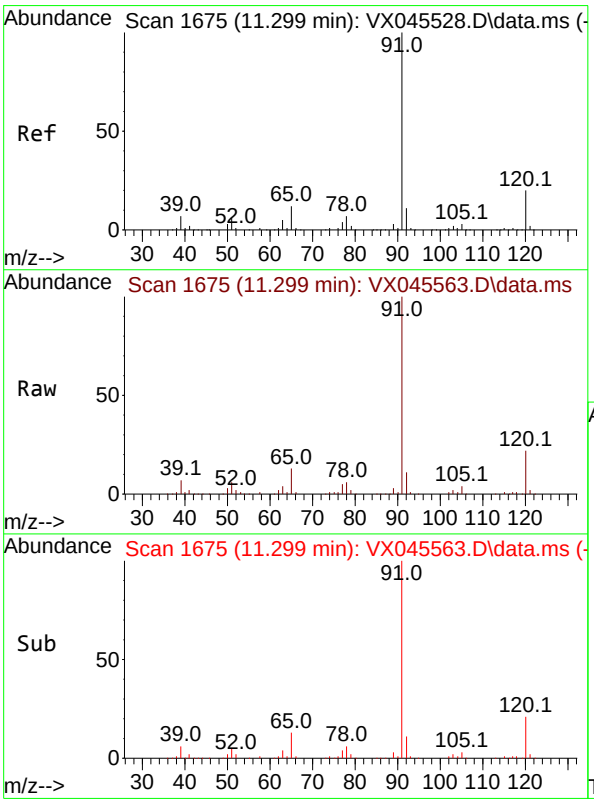
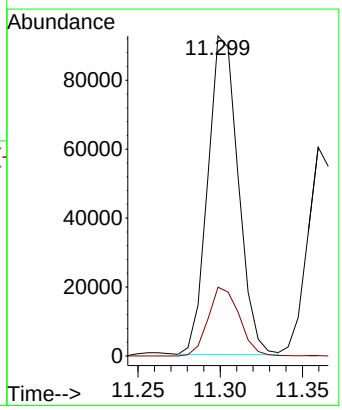
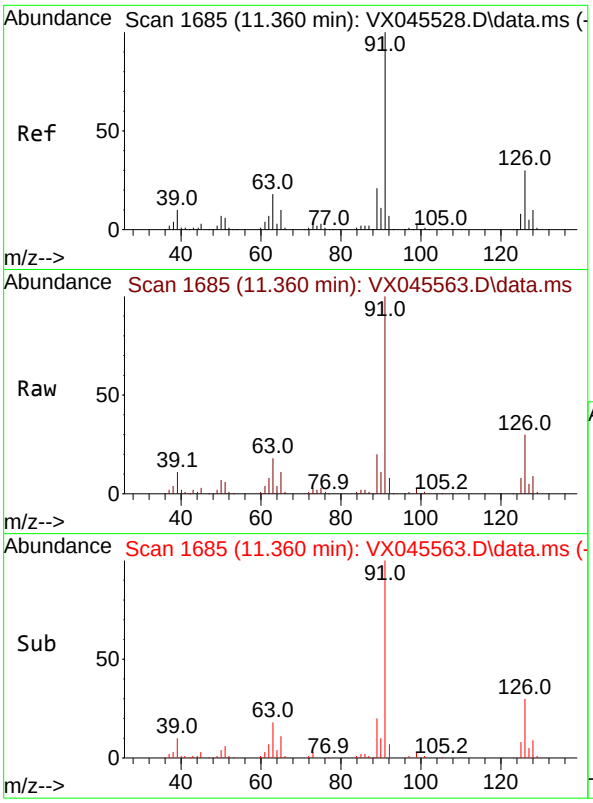


#78
n-propylbenzene
Concen: 18.717 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. -0.000 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion: 91 Resp: 119014

Ion	Ratio	Lower	Upper
91	100		
120	22.1	10.8	32.3

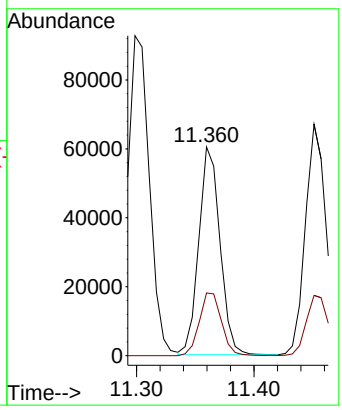




#79
2-Chlorotoluene
Concen: 18.633 ug/l
RT: 11.360 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion: 91 Resp: 7574

Ion	Ratio	Lower	Upper
91	100		
126	31.6	15.8	47.4



Instrument :
MSVOA_X
ClientSampleId :
VX0403WBS01

Manual Integrations
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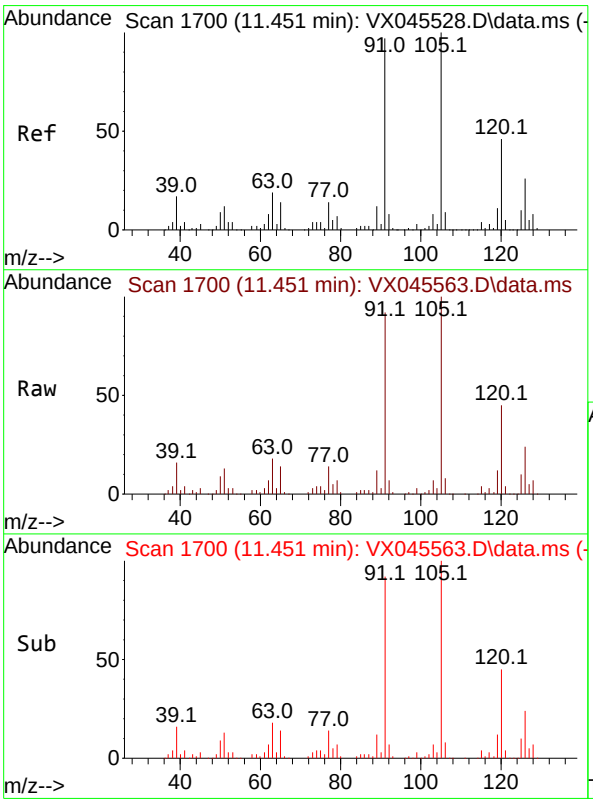
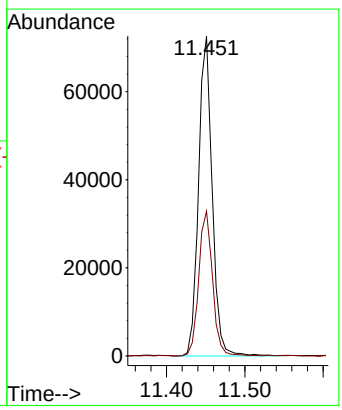
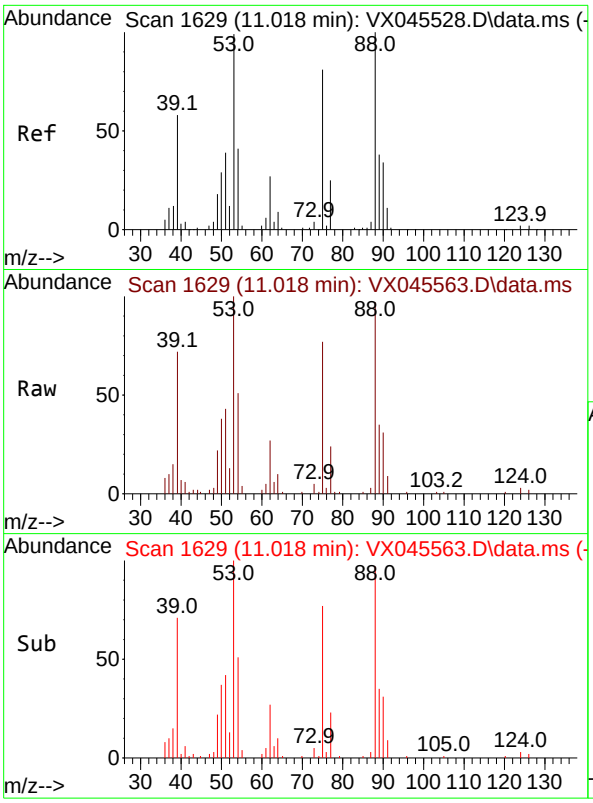


#80
1,3,5-Trimethylbenzene
Concen: 19.270 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion:105 Resp: 87968

Ion	Ratio	Lower	Upper
105	100		
120	45.8	23.0	69.0





#81
trans-1,4-Dichloro-2-butene
Concen: 16.837 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion: 75 Resp: 834

Ion	Ratio	Lower	Upper
75	100		
53	138.6	101.8	152.6
89	48.0	37.2	55.8

Instrument :
MSVOA_X
ClientSampleId :
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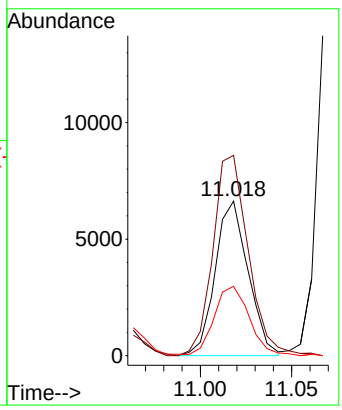
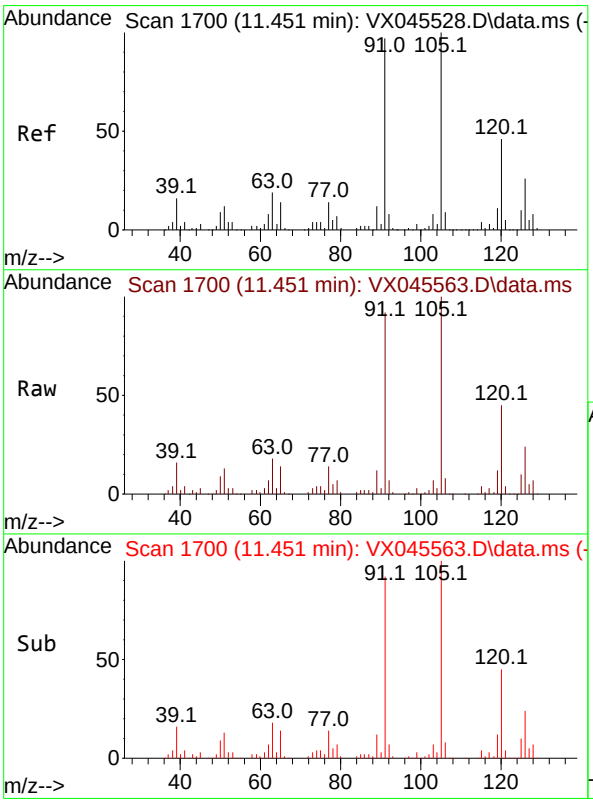
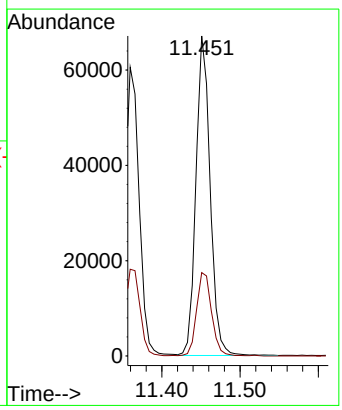


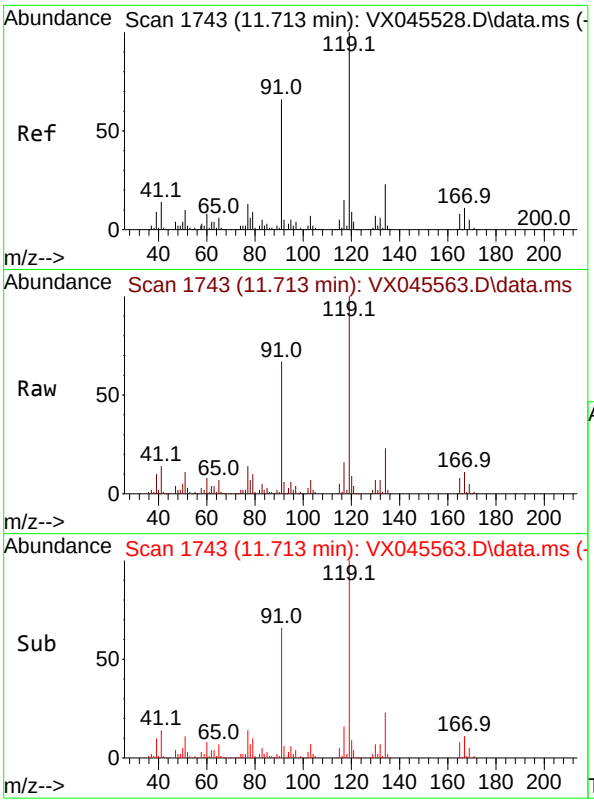


#82
4-Chlorotoluene
Concen: 18.710 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion: 91 Resp: 84800

Ion	Ratio	Lower	Upper
91	100		
126	27.2	13.3	39.9

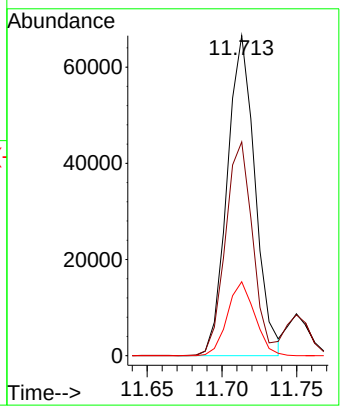




#83
tert-Butylbenzene
Concen: 19.049 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion:119 Resp: 8608

Ion	Ratio	Lower	Upper
119	100		
91	66.2	32.4	97.2
134	22.7	11.5	34.5



Instrument :
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ClientSampleId :
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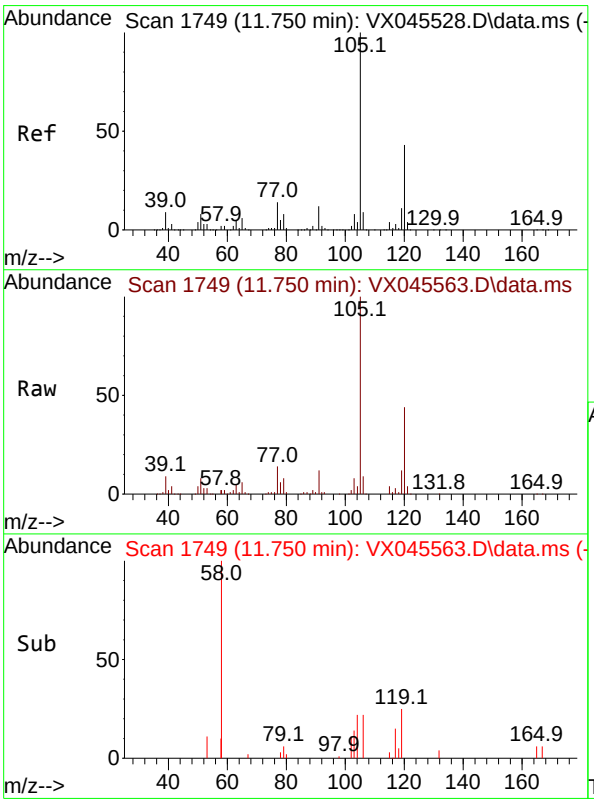
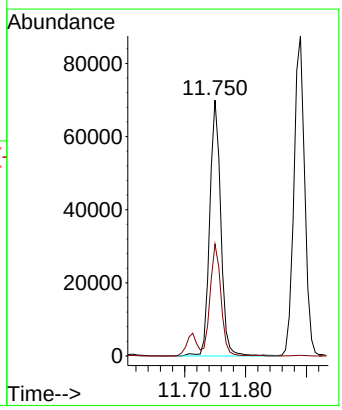
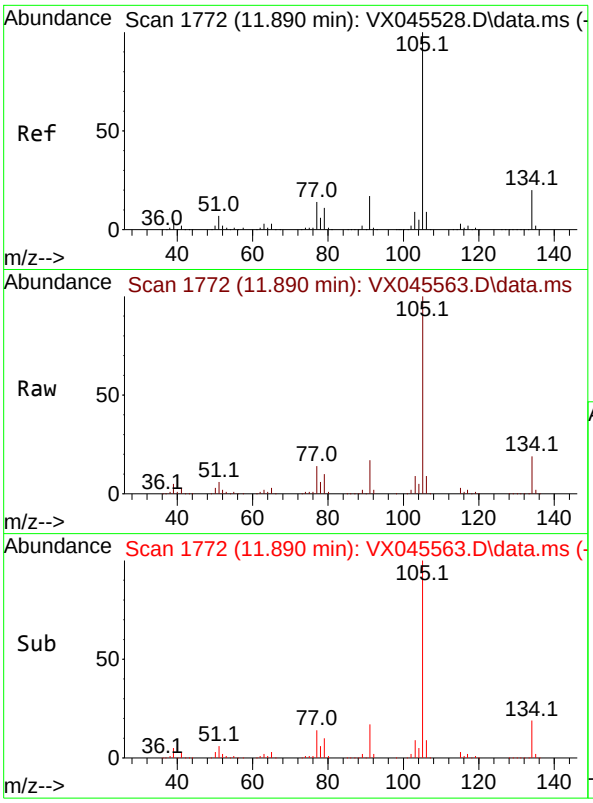


#84
1,2,4-Trimethylbenzene
Concen: 19.196 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion:105 Resp: 87951

Ion	Ratio	Lower	Upper
105	100		
120	43.2	21.4	64.3





#85
sec-Butylbenzene
Concen: 19.401 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion:105 Resp: 10769

Ion	Ratio	Lower	Upper
105	100		
134	18.1	9.6	28.6

Instrument :
MSVOA_X
ClientSampleId :
VX0403WBS01

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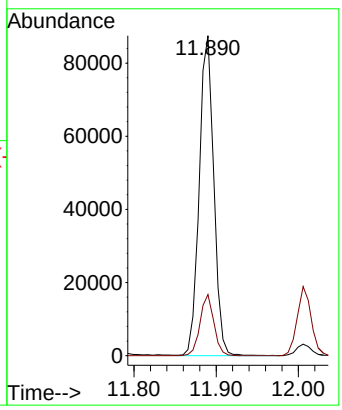
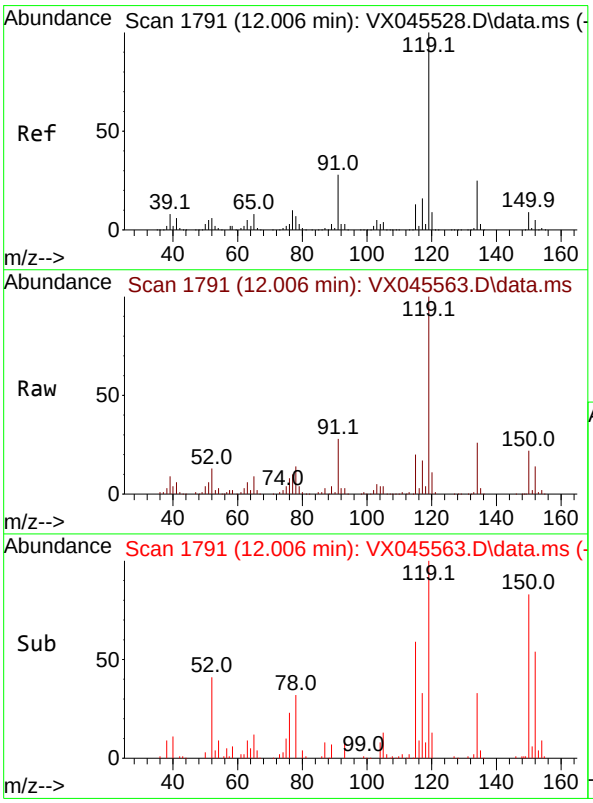
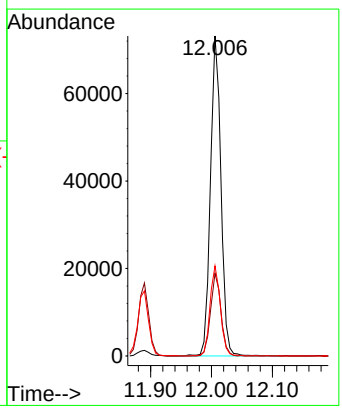


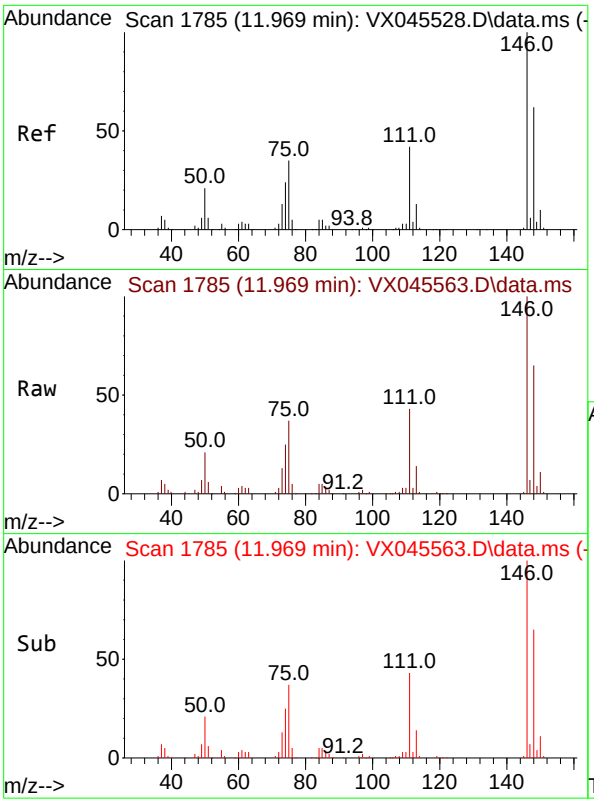


#86
p-Isopropyltoluene
Concen: 19.078 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion:119 Resp: 87307

Ion	Ratio	Lower	Upper
119	100		
134	25.7	12.6	37.8
91	27.8	13.7	41.1

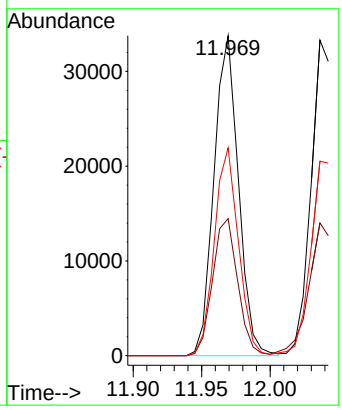




#87
1,3-Dichlorobenzene
Concen: 18.035 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion:146 Resp: 4187

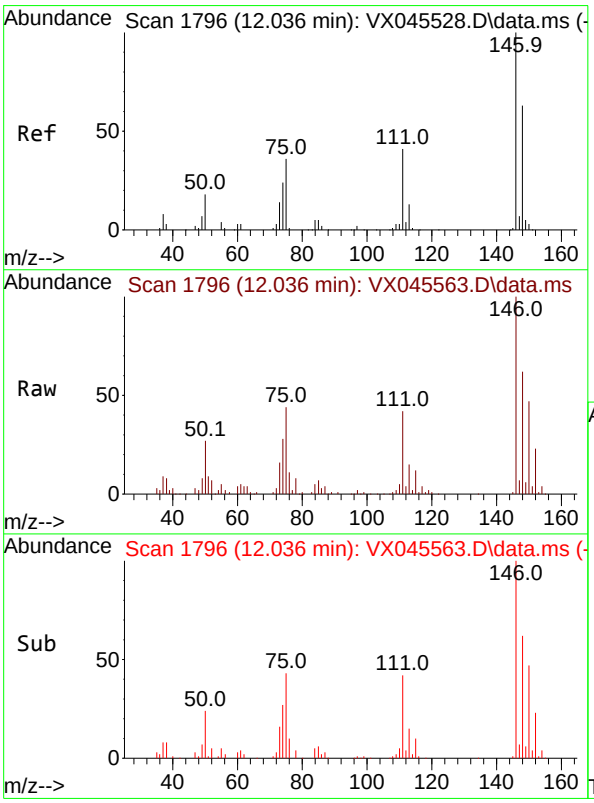
Ion	Ratio	Lower	Upper
146	100		
111	44.1	22.2	66.6
148	64.2	31.9	95.7



Instrument :
MSVOA_X
ClientSampleId :
VX0403WBS01

Manual Integrations
APPROVED

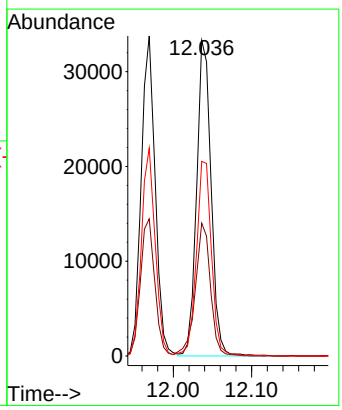
Reviewed By :Semsettin Yesilyurt 04/04/2025
Supervised By :Mahesh Dadoda 04/04/2025

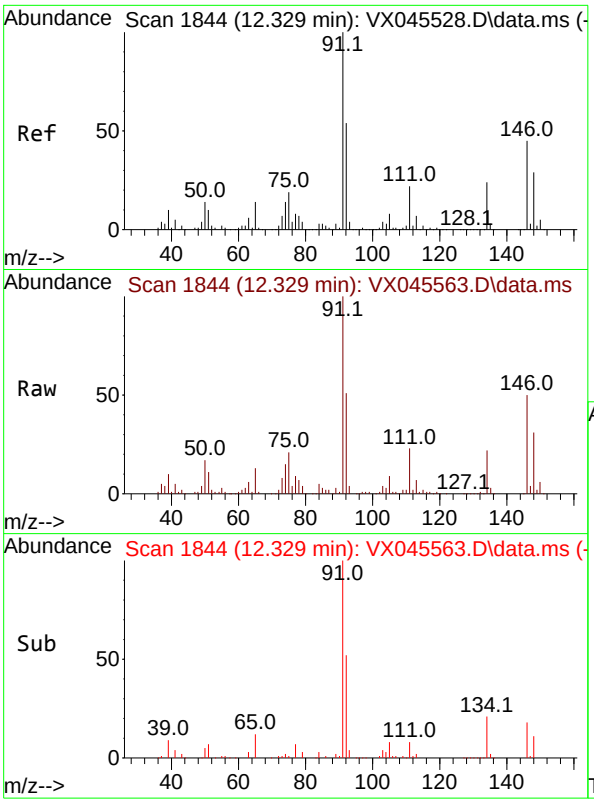


#88
1,4-Dichlorobenzene
Concen: 18.215 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. -0.000 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion:146 Resp: 42877

Ion	Ratio	Lower	Upper
146	100		
111	44.2	20.9	62.8
148	64.3	31.5	94.5

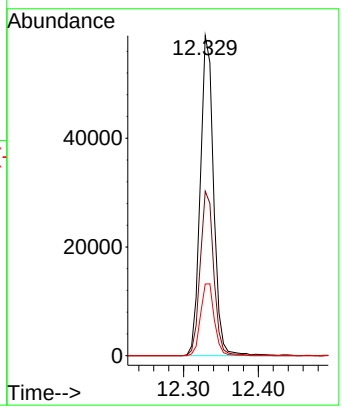




#89
n-Butylbenzene
Concen: 18.388 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion: 91 Resp: 7297

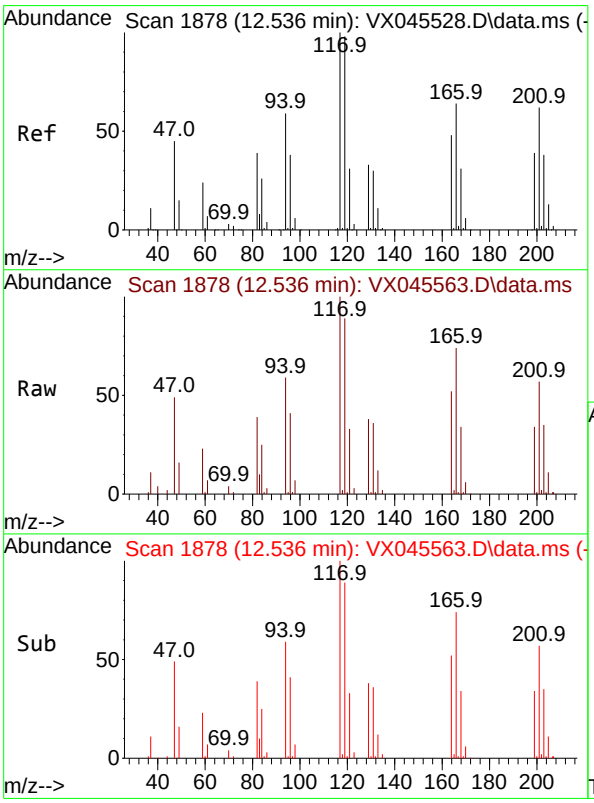
Ion	Ratio	Lower	Upper
91	100		
92	52.2	26.9	80.6
134	23.2	11.9	35.7



Instrument :
MSVOA_X
ClientSampleId :
VX0403WBS01

Manual Integrations
APPROVED

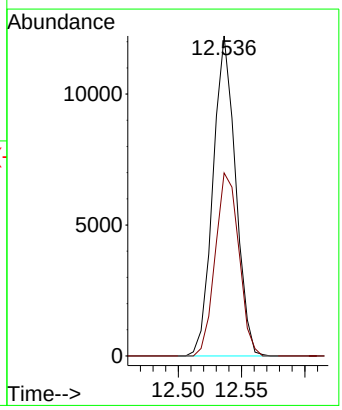
Reviewed By :Semsettin Yesilyurt 04/04/2025
Supervised By :Mahesh Dadoda 04/04/2025

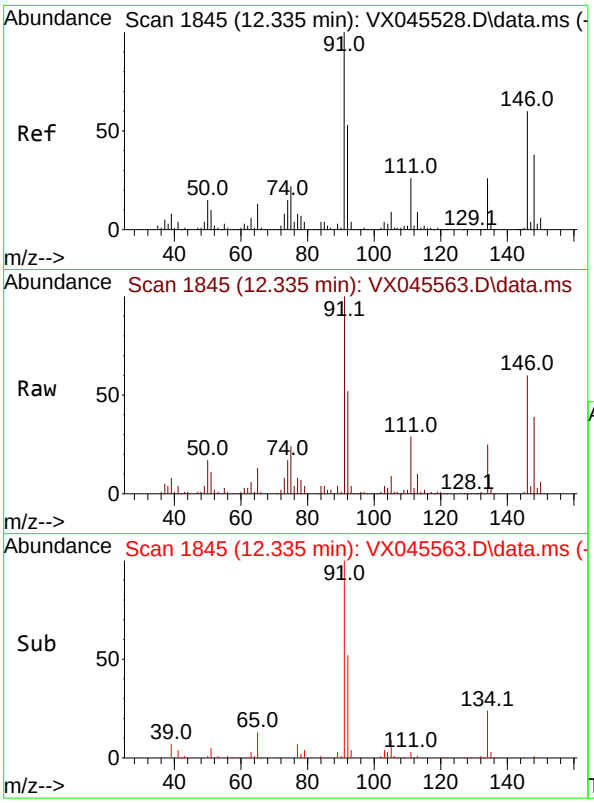


#90
Hexachloroethane
Concen: 19.256 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion:117 Resp: 15145

Ion	Ratio	Lower	Upper
117	100		
201	59.8	31.2	93.6

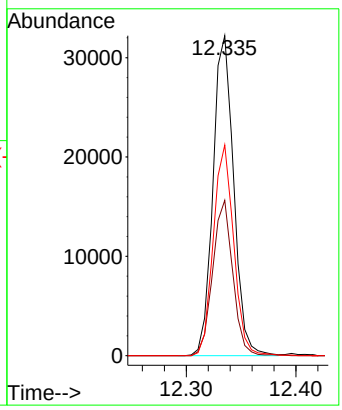




#91
1,2-Dichlorobenzene
Concen: 18.317 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion:146 Resp: 4228

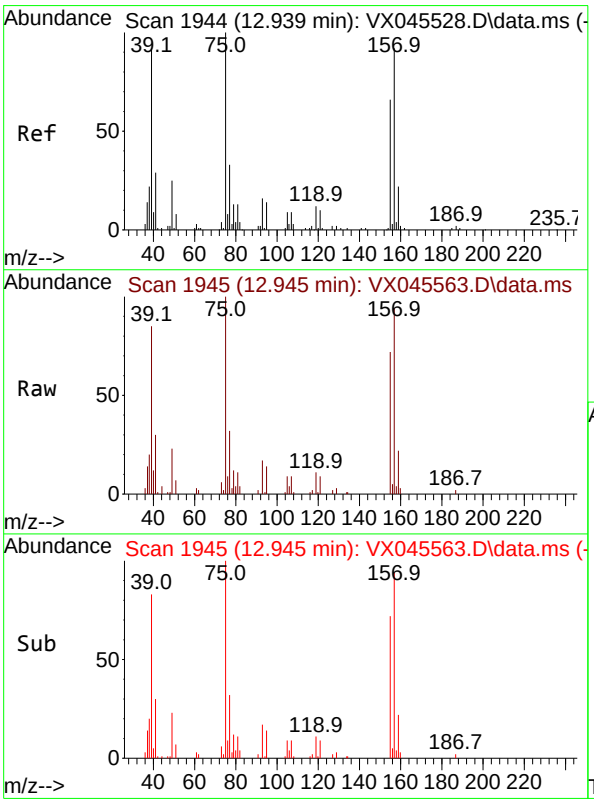
Ion	Ratio	Lower	Upper
146	100		
111	47.0	22.9	68.8
148	64.9	31.9	95.5



Instrument :
MSVOA_X
ClientSampleId :
VX0403WBS01

Manual Integrations
APPROVED

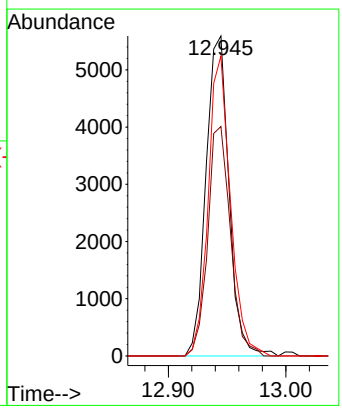
Reviewed By :Semsettin Yesilyurt 04/04/2025
Supervised By :Mahesh Dadoda 04/04/2025

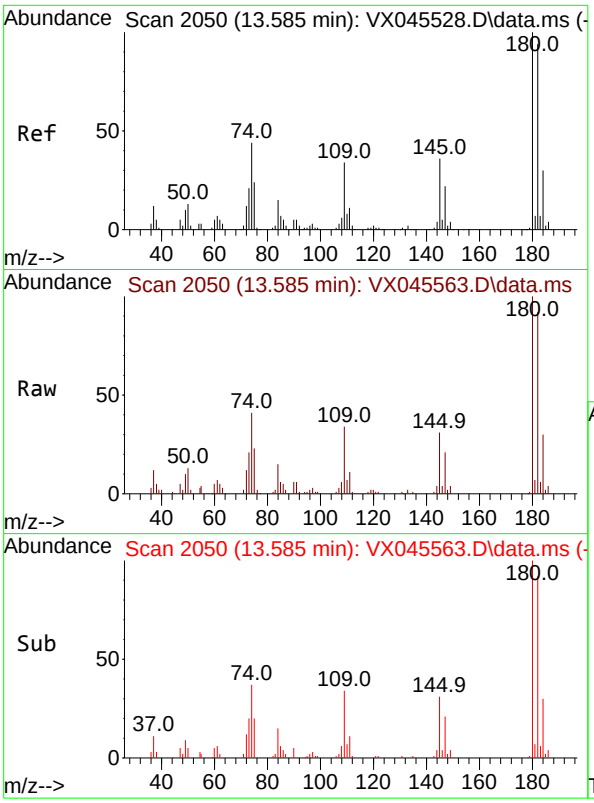


#92
1,2-Dibromo-3-Chloropropane
Concen: 18.685 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. 0.006 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion: 75 Resp: 7578

Ion	Ratio	Lower	Upper
75	100		
155	71.2	34.9	104.7
157	90.8	44.9	134.7

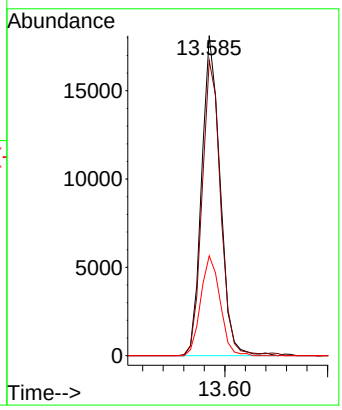




#93
1,2,4-Trichlorobenzene
Concen: 17.574 ug/l
RT: 13.585 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion:180 Resp: 2258

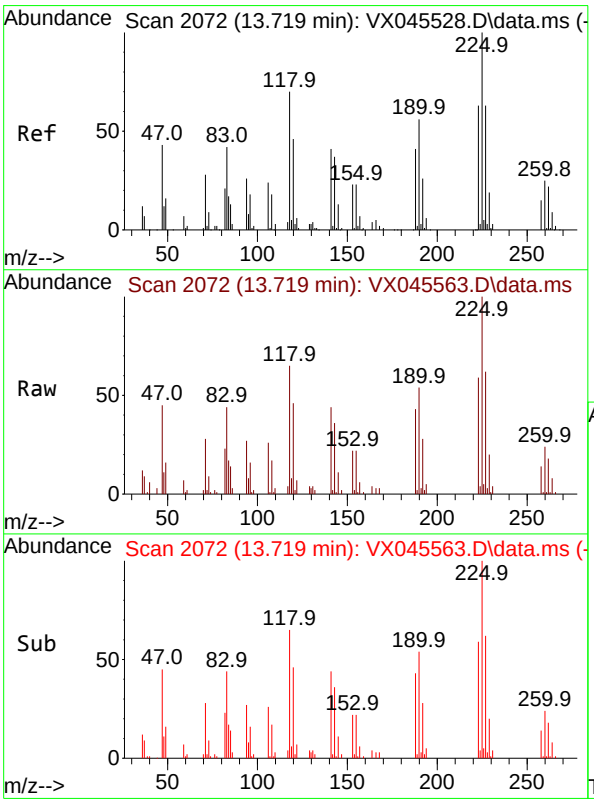
Ion	Ratio	Lower	Upper
180	100		
182	93.5	47.9	143.6
145	32.7	17.9	53.8



Instrument :
MSVOA_X
ClientSampleId :
VX0403WBS01

Manual Integrations
APPROVED

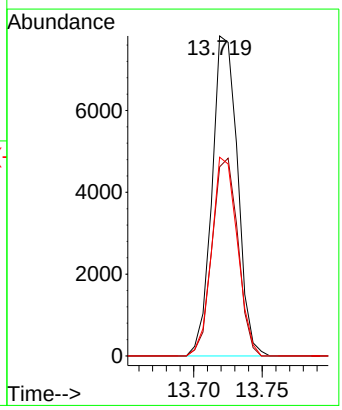
Reviewed By :Semsettin Yesilyurt 04/04/2025
Supervised By :Mahesh Dadoda 04/04/2025

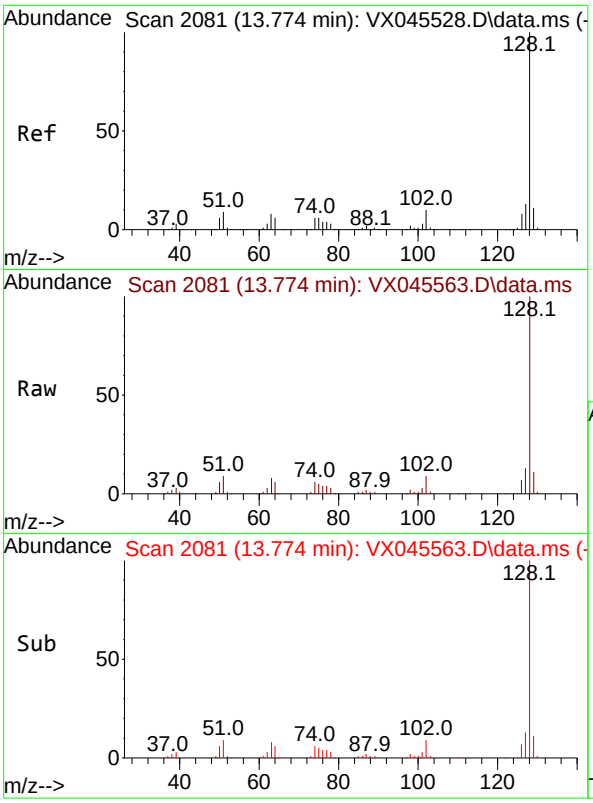


#94
Hexachlorobutadiene
Concen: 18.232 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. -0.000 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion:225 Resp: 10095

Ion	Ratio	Lower	Upper
225	100		
223	62.5	31.1	93.3
227	62.8	32.2	96.6

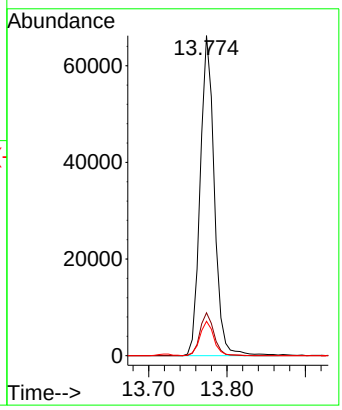




#95
Naphthalene
Concen: 17.350 ug/l
RT: 13.774 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion:128 Resp: 8296

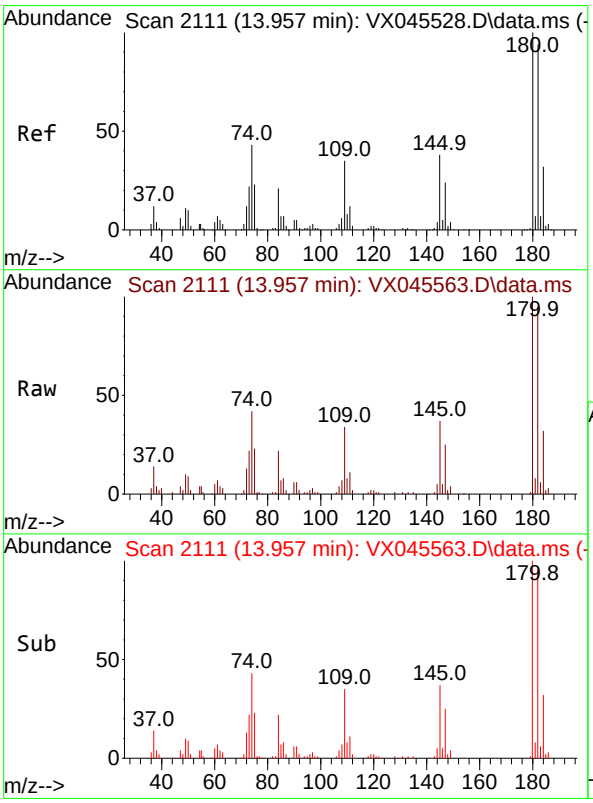
Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.3	15.5
129	10.8	8.6	12.8



Instrument :
MSVOA_X
ClientSampleId :
VX0403WBS01

Manual Integrations
APPROVED

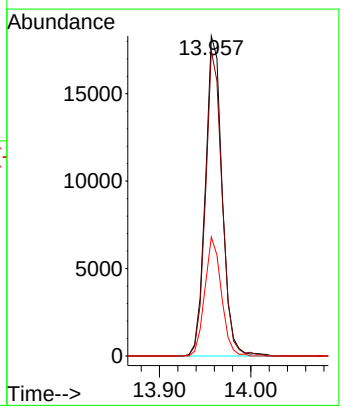
Reviewed By :Semsettin Yesilyurt 04/04/2025
Supervised By :Mahesh Dadoda 04/04/2025



#96
1,2,3-Trichlorobenzene
Concen: 17.258 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VX045563.D
Acq: 03 Apr 2025 12:08

Tgt Ion:180 Resp: 23220

Ion	Ratio	Lower	Upper
180	100		
182	94.4	47.3	141.8
145	36.6	18.2	54.6



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:	VX0402WBSD01	SDG No.:	Q1697
Lab Sample ID:	VX0402WBSD01	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
VX045538.D	1		04/02/25 11:44	VX040225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	18.3		0.26	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.4		0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	18.2		0.23	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	18.2		0.19	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	18.7		0.20	1.00	ug/L
71-43-2	Benzene	19.0		0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	19.7		0.22	1.00	ug/L
79-01-6	Trichloroethene	18.7		0.090	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	19.7		0.21	1.00	ug/L
127-18-4	Tetrachloroethene	19.0		0.23	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.0		70 (74) - 130 (125)	100%	SPK: 50
1868-53-7	Dibromofluoromethane	49.9		70 (75) - 130 (124)	100%	SPK: 50
2037-26-5	Toluene-d8	50.1		70 (86) - 130 (113)	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.8		70 (77) - 130 (121)	102%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	93800	5.544			
540-36-3	1,4-Difluorobenzene	163000	6.757			
3114-55-4	Chlorobenzene-d5	143000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	66300	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

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045538.D
Acq On : 02 Apr 2025 11:44
Operator : JC/MD
Sample : VX0402WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 03 01:48:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0402WBSD01

Manual Integrations APPROVED
Reviewed By :John Carlone 04/03/2025
Supervised By :Mahesh Dadoda 04/03/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	93800	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	163478	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	142767	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	66275	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	85730	49.978	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 99.960%			
35) Dibromofluoromethane	5.379	113	57850	49.876	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 99.760%			
50) Toluene-d8	8.647	98	202885	50.114	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.220%			
62) 4-Bromofluorobenzene	11.079	95	74958	50.831	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 101.660%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	28237	20.129	ug/l	97
3) Chloromethane	1.307	50	26820	18.610	ug/l	99
4) Vinyl Chloride	1.374	62	24088	18.264	ug/l	99
5) Bromomethane	1.593	94	10937	17.490	ug/l	100
6) Chloroethane	1.666	64	13544	19.356	ug/l	98
7) Trichlorofluoromethane	1.873	101	37016	18.822	ug/l	95
8) Diethyl Ether	2.136	74	12134	18.377	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.319	101	22759	19.749	ug/l	96
10) Methyl Iodide	2.440	142	25733	17.902	ug/l	99
11) Tert butyl alcohol	2.977	59	23194	100.611	ug/l	99
12) 1,1-Dichloroethene	2.306	96	20667	18.353	ug/l	99
13) Acrolein	2.233	56	32852	103.485	ug/l	99
14) Allyl chloride	2.654	41	40356	18.888	ug/l	99
15) Acrylonitrile	3.062	53	71661	98.476	ug/l	100
16) Acetone	2.380	43	68206	96.832	ug/l	99
17) Carbon Disulfide	2.501	76	51286	18.440	ug/l	98
18) Methyl Acetate	2.703	43	31604	19.488	ug/l	99
19) Methyl tert-butyl Ether	3.111	73	75422	19.147	ug/l	100
20) Methylene Chloride	2.782	84	24807	18.812	ug/l	98
21) trans-1,2-Dichloroethene	3.081	96	21165	18.398	ug/l	99
22) Diisopropyl ether	3.763	45	79017	18.774	ug/l	98
23) Vinyl Acetate	3.721	43	357094	98.202	ug/l	99
24) 1,1-Dichloroethane	3.605	63	43351	18.213	ug/l	99
25) 2-Butanone	4.556	43	103578	100.458	ug/l	98
26) 2,2-Dichloropropane	4.464	77	30350	19.735	ug/l	98
27) cis-1,2-Dichloroethene	4.483	96	25473	18.174	ug/l	97
28) Bromochloromethane	4.885	49	22022	19.146	ug/l	98
29) Tetrahydrofuran	5.001	42	66414	99.352	ug/l	99
30) Chloroform	5.086	83	46260	18.888	ug/l	96
31) Cyclohexane	5.458	56	39024	18.546	ug/l	95
32) 1,1,1-Trichloroethane	5.373	97	38708	18.678	ug/l	98
36) 1,1-Dichloropropene	5.684	75	28644	18.290	ug/l	99
37) Ethyl Acetate	4.714	43	37414	18.958	ug/l	98
38) Carbon Tetrachloride	5.665	117	31939	18.871	ug/l	97
39) Methylcyclohexane	7.379	83	38282	19.942	ug/l	97
40) Benzene	6.031	78	90807	18.986	ug/l	100

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045538.D
Acq On : 02 Apr 2025 11:44
Operator : JC/MD
Sample : VX0402WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 03 01:48:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0402WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 04/03/2025
Supervised By :Mahesh Dadoda 04/03/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.916	41	21150	20.311	ug/l		98
42) 1,2-Dichloroethane	6.080	62	38844	19.663	ug/l		99
43) Isopropyl Acetate	6.336	43	59822	19.999	ug/l		99
44) Trichloroethene	7.123	130	21235	18.679	ug/l		91
45) 1,2-Dichloropropane	7.421	63	22900	19.189	ug/l		95
46) Dibromomethane	7.580	93	17742	19.367	ug/l		96
47) Bromodichloromethane	7.818	83	35019	19.141	ug/l		98
48) Methyl methacrylate	7.690	41	30328	19.637	ug/l		98
49) 1,4-Dioxane	7.659	88	12427	444.734	ug/l		99
51) 4-Methyl-2-Pentanone	8.573	43	208922	105.361	ug/l		99
52) Toluene	8.714	92	54303	18.763	ug/l		100
53) t-1,3-Dichloropropene	8.976	75	29413	18.242	ug/l		98
54) cis-1,3-Dichloropropene	8.360	75	34155	19.867	ug/l		93
55) 1,1,2-Trichloroethane	9.153	97	22669	19.656	ug/l		97
56) Ethyl methacrylate	9.116	69	35872	20.098	ug/l		99
57) 1,3-Dichloropropane	9.305	76	39713	19.775	ug/l		100
58) 2-Chloroethyl Vinyl ether	8.238	63	95458	105.724	ug/l		99
59) 2-Hexanone	9.427	43	154672	105.333	ug/l		100
60) Dibromochloromethane	9.518	129	25325	20.142	ug/l		95
61) 1,2-Dibromoethane	9.610	107	22924	19.636	ug/l		99
64) Tetrachloroethene	9.268	164	19167	19.015	ug/l		91
65) Chlorobenzene	10.079	112	59090	19.369	ug/l		97
66) 1,1,1,2-Tetrachloroethane	10.159	131	20588	19.438	ug/l		97
67) Ethyl Benzene	10.189	91	107012	19.586	ug/l		96
68) m/p-Xylenes	10.299	106	78342	39.423	ug/l		99
69) o-Xylene	10.640	106	38430	19.631	ug/l		97
70) Styrene	10.652	104	63808	19.748	ug/l		100
71) Bromoform	10.799	173	15687	19.836	ug/l	#	97
73) Isopropylbenzene	10.957	105	101744	19.166	ug/l		100
74) N-amyl acetate	10.841	43	49916	19.657	ug/l		99
75) 1,1,2,2-Tetrachloroethane	11.207	83	36579	19.615	ug/l		99
76) 1,2,3-Trichloropropane	11.238	75	31588m	19.540	ug/l		
77) Bromobenzene	11.195	156	23119	18.848	ug/l		99
78) n-propylbenzene	11.305	91	117276	19.179	ug/l		100
79) 2-Chlorotoluene	11.360	91	74347	19.019	ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	86019	19.595	ug/l		99
81) trans-1,4-Dichloro-2-b...	11.018	75	9156	19.222	ug/l		96
82) 4-Chlorotoluene	11.451	91	82413	18.909	ug/l		98
83) tert-Butylbenzene	11.713	119	85024	19.563	ug/l		99
84) 1,2,4-Trimethylbenzene	11.750	105	85641	19.437	ug/l		99
85) sec-Butylbenzene	11.890	105	105051	19.680	ug/l		100
86) p-Isopropyltoluene	12.006	119	85554	19.440	ug/l		100
87) 1,3-Dichlorobenzene	11.969	146	42452	19.013	ug/l		99
88) 1,4-Dichlorobenzene	12.042	146	42495	18.773	ug/l		98
89) n-Butylbenzene	12.329	91	75804	19.864	ug/l		98
90) Hexachloroethane	12.536	117	14245	18.835	ug/l		98
91) 1,2-Dichlorobenzene	12.335	146	42474	19.134	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.945	75	7810	20.025	ug/l		96
93) 1,2,4-Trichlorobenzene	13.585	180	23455	18.982	ug/l		99
94) Hexachlorobutadiene	13.725	225	9904	18.601	ug/l		95
95) Naphthalene	13.774	128	88498	19.246	ug/l		99
96) 1,2,3-Trichlorobenzene	13.963	180	24776	19.149	ug/l		98

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045538.D
Acq On : 02 Apr 2025 11:44
Operator : JC/MD
Sample : VX0402WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 03 01:48:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0402WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 04/03/2025
Supervised By :Mahesh Dadoda 04/03/2025

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\VX040225\
Data File : VX045538.D
Acq On : 02 Apr 2025 11:44
Operator : JC/MD
Sample : VX0402WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 03 01:48:07 2025
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Manual Integrations APPROVED

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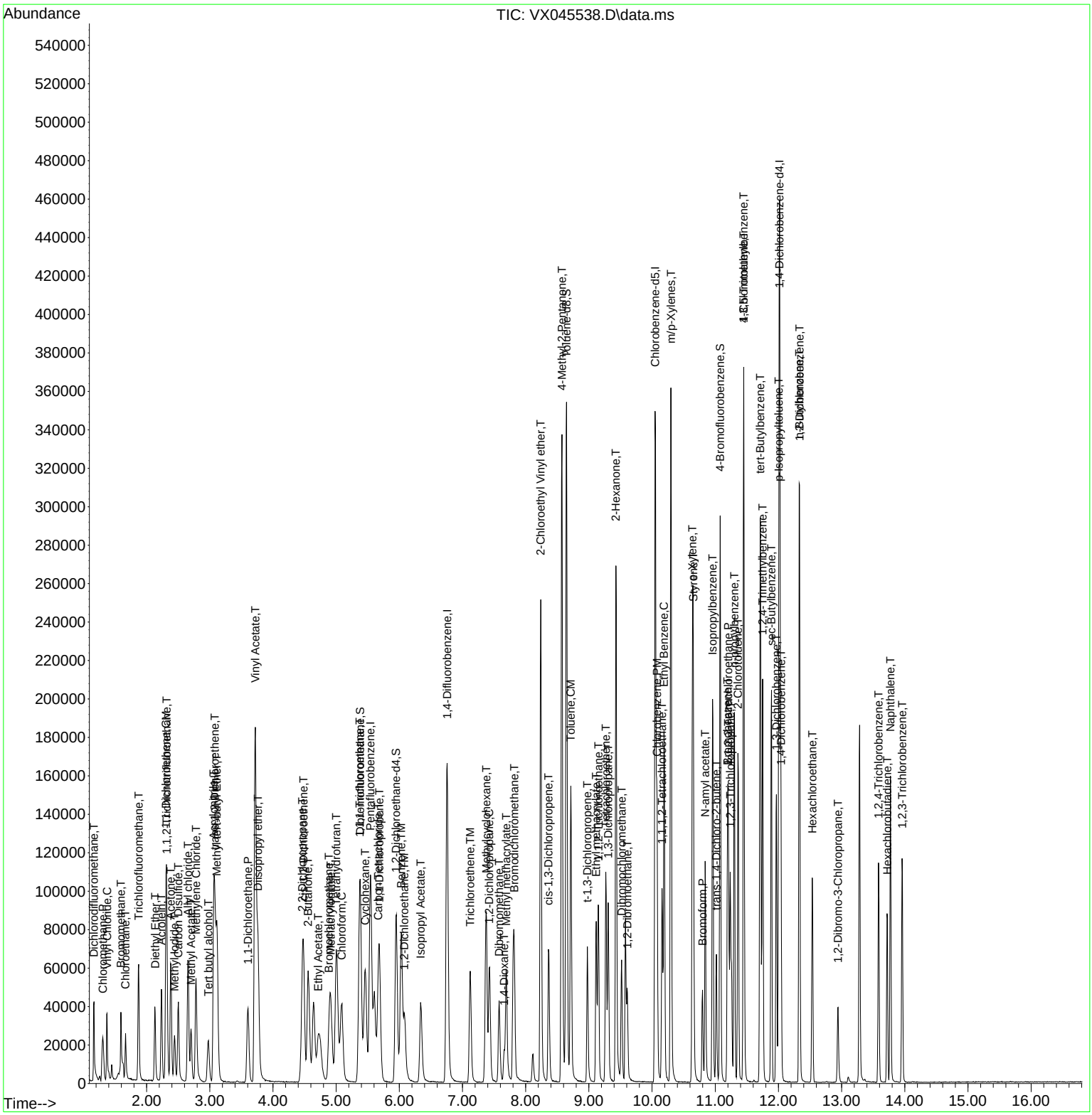
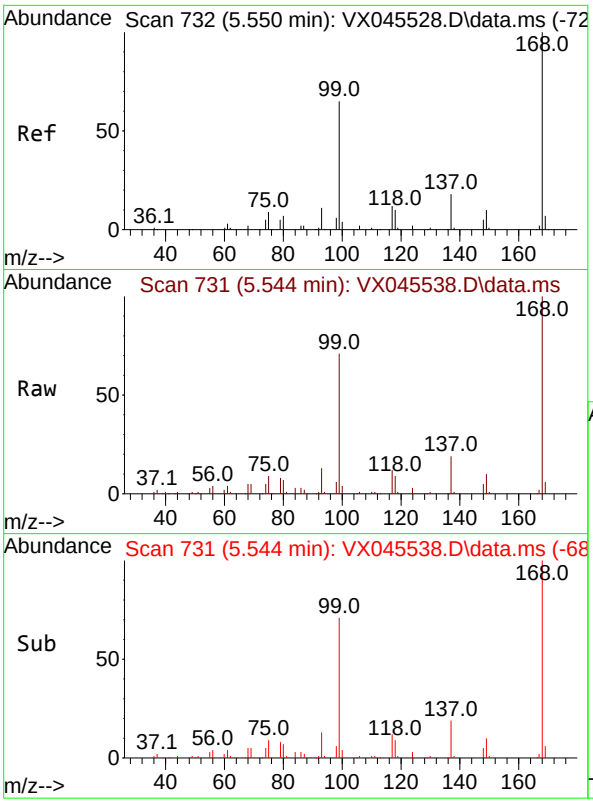
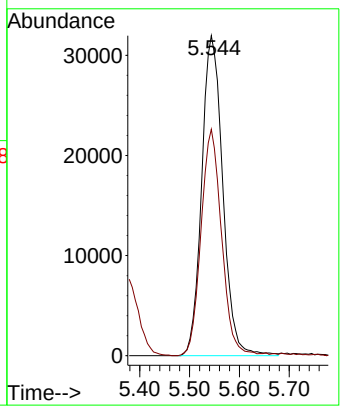




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion:168 Resp: 9380

Ion	Ratio	Lower	Upper
168	100		
99	70.8	52.3	78.5



Instrument :
MSVOA_X
ClientSampleId :
VX0402WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/03/2025
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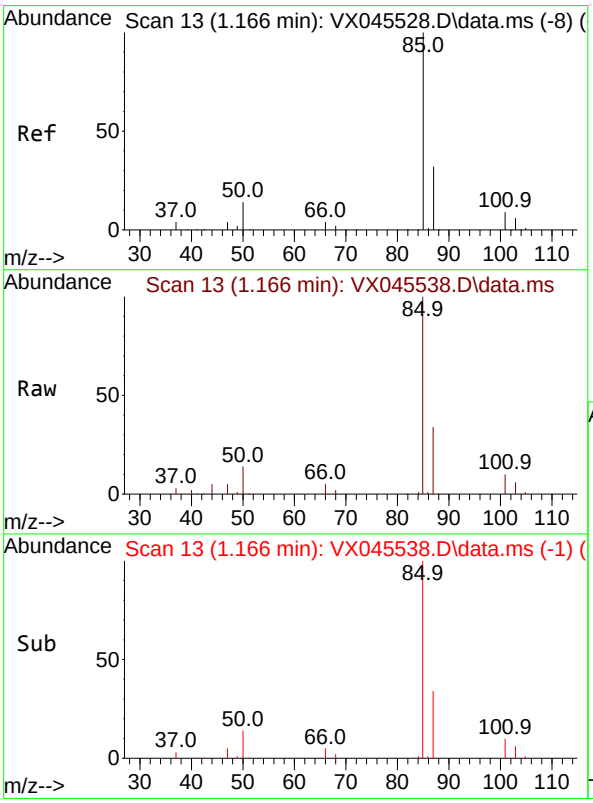
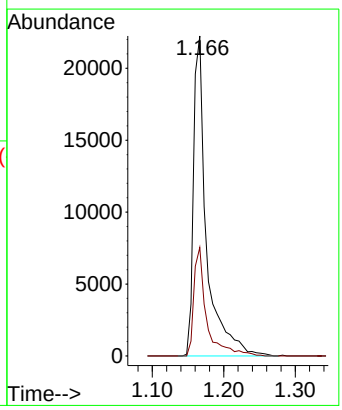
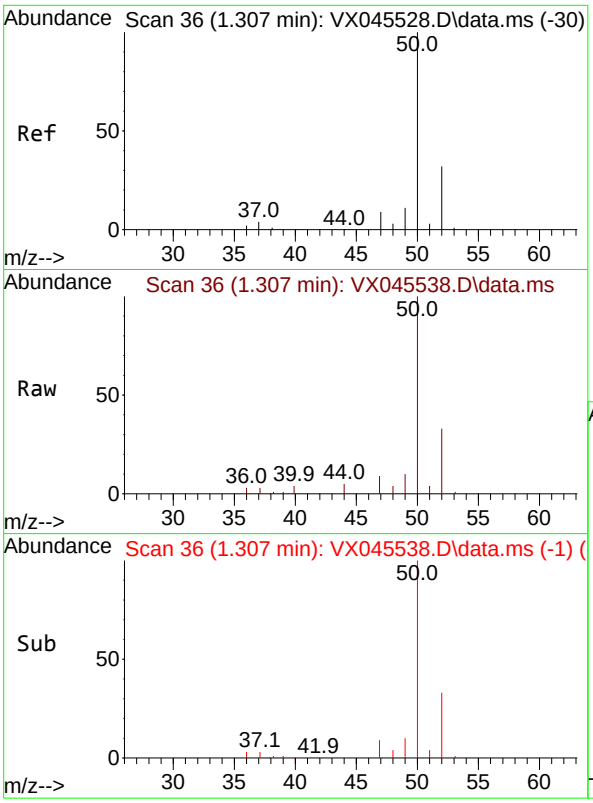


#2
Dichlorodifluoromethane
Concen: 20.129 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion: 85 Resp: 28237

Ion	Ratio	Lower	Upper
85	100		
87	33.9	16.1	48.2

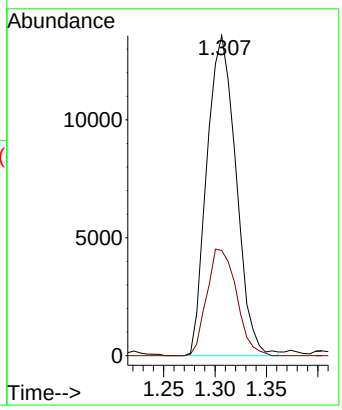




#3
Chloromethane
Concen: 18.610 ug/l
RT: 1.307 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion: 50 Resp: 2682

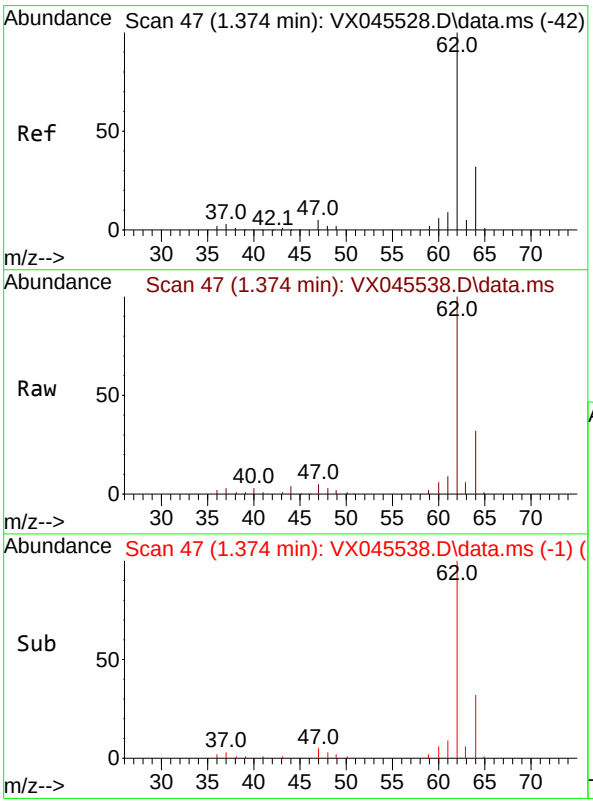
Ion	Ratio	Lower	Upper
50	100		
52	32.9	25.9	38.9



Instrument :
MSVOA_X
ClientSampleId :
VX0402WBSD01

Manual Integrations
APPROVED

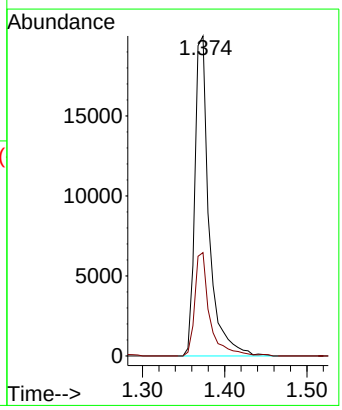
Reviewed By :John Carlone 04/03/2025
Supervised By :Mahesh Dadoda 04/03/2025

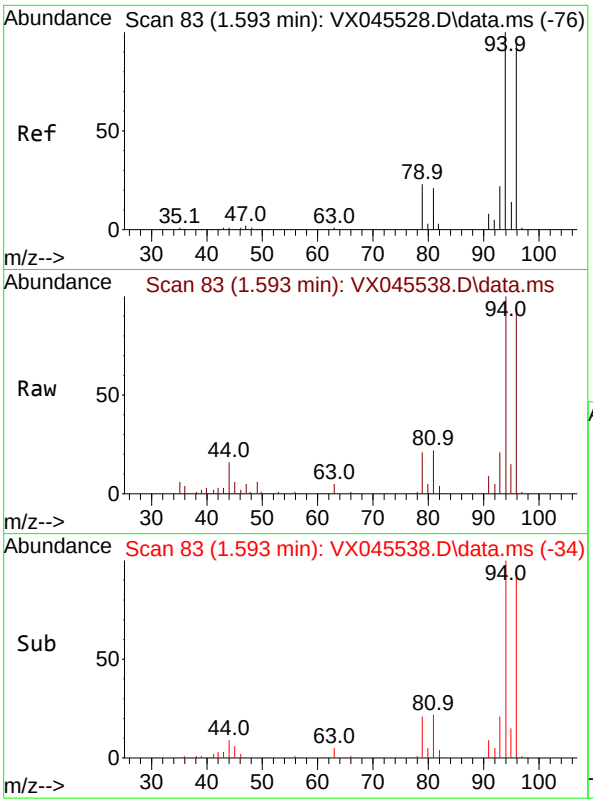


#4
Vinyl Chloride
Concen: 18.264 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion: 62 Resp: 24088

Ion	Ratio	Lower	Upper
62	100		
64	32.3	25.5	38.3

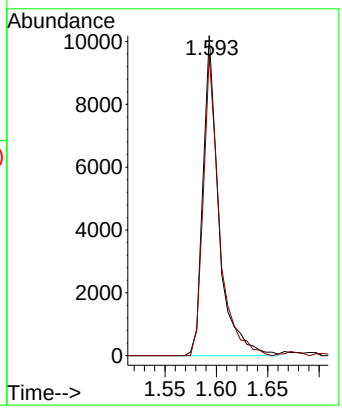




#5
Bromomethane
Concen: 17.490 ug/l
RT: 1.593 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion: 94 Resp: 1093

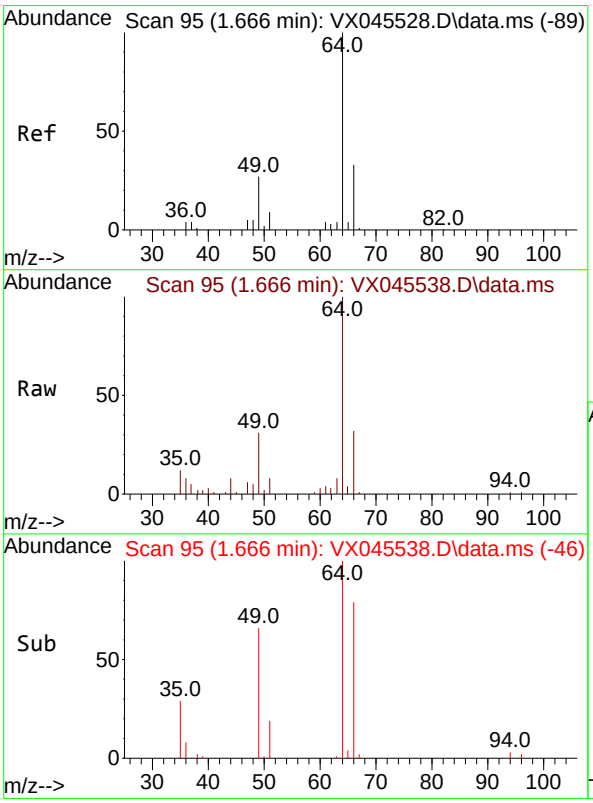
Ion	Ratio	Lower	Upper
94	100		
96	93.8	74.8	112.2



Instrument :
MSVOA_X
ClientSampleId :
VX0402WBSD01

Manual Integrations
APPROVED

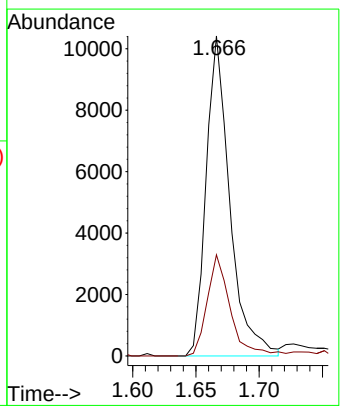
Reviewed By :John Carlone 04/03/2025
Supervised By :Mahesh Dadoda 04/03/2025

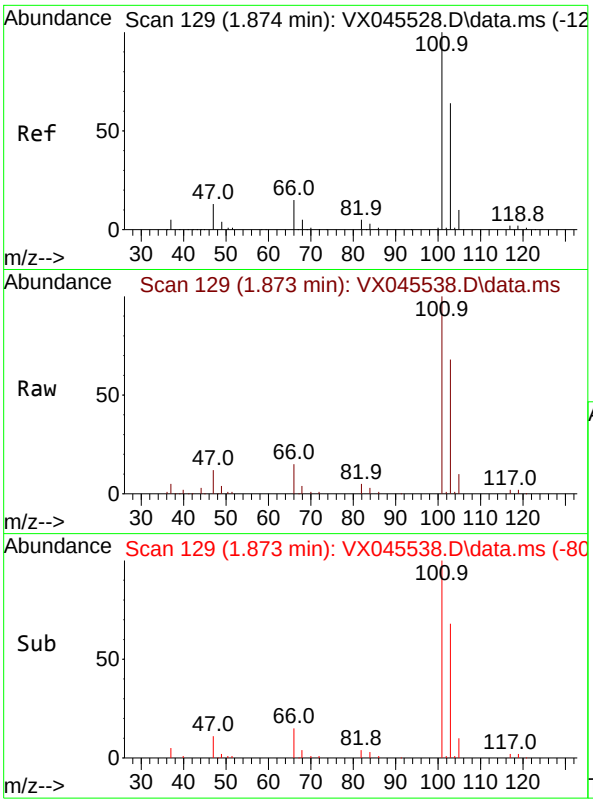


#6
Chloroethane
Concen: 19.356 ug/l
RT: 1.666 min Scan# 95
Delta R.T. -0.000 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion: 64 Resp: 13544

Ion	Ratio	Lower	Upper
64	100		
66	31.6	26.3	39.5

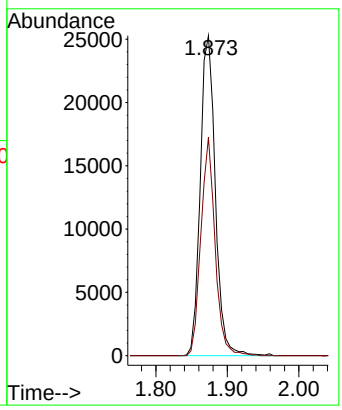




#7
Trichlorofluoromethane
Concen: 18.822 ug/l
RT: 1.873 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion:101 Resp: 3701

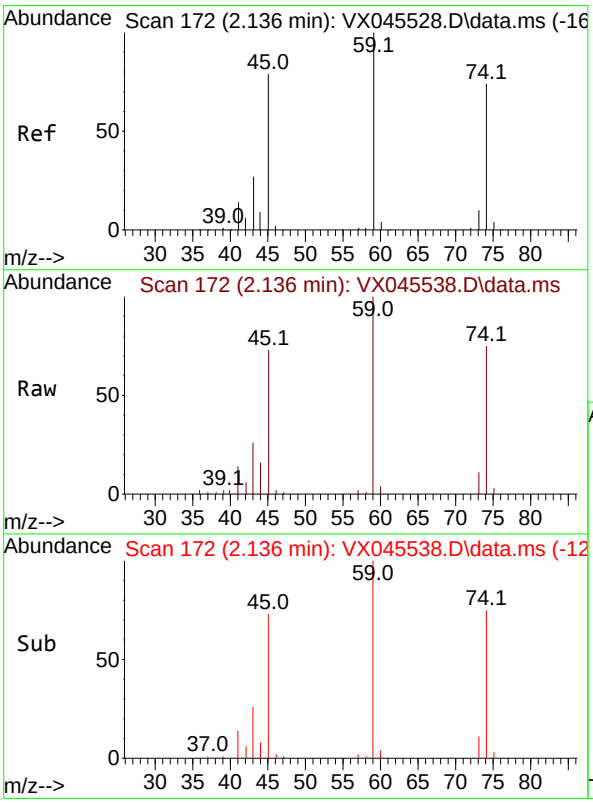
Ion	Ratio	Lower	Upper
101	100		
103	68.2	51.1	76.7



Instrument :
MSVOA_X
ClientSampleId :
VX0402WBSD01

Manual Integrations
APPROVED

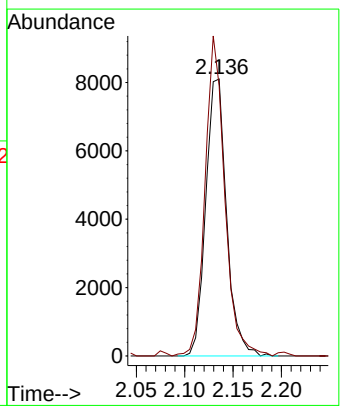
Reviewed By :John Carlone 04/03/2025
Supervised By :Mahesh Dadoda 04/03/2025

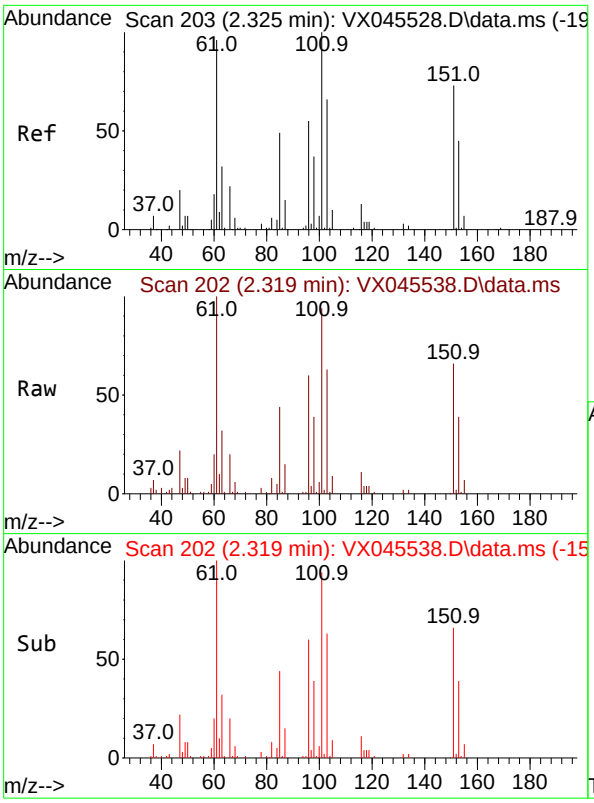


#8
Diethyl Ether
Concen: 18.377 ug/l
RT: 2.136 min Scan# 172
Delta R.T. -0.000 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion: 74 Resp: 12134

Ion	Ratio	Lower	Upper
74	100		
45	108.9	53.0	159.1





#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.749 ug/l
RT: 2.319 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

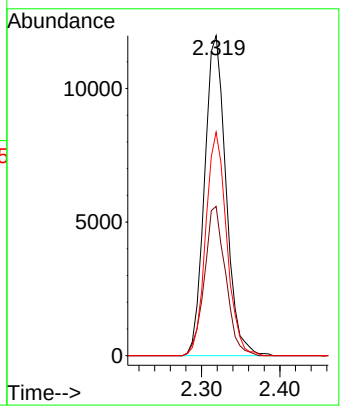
Tgt Ion:101 Resp: 2275

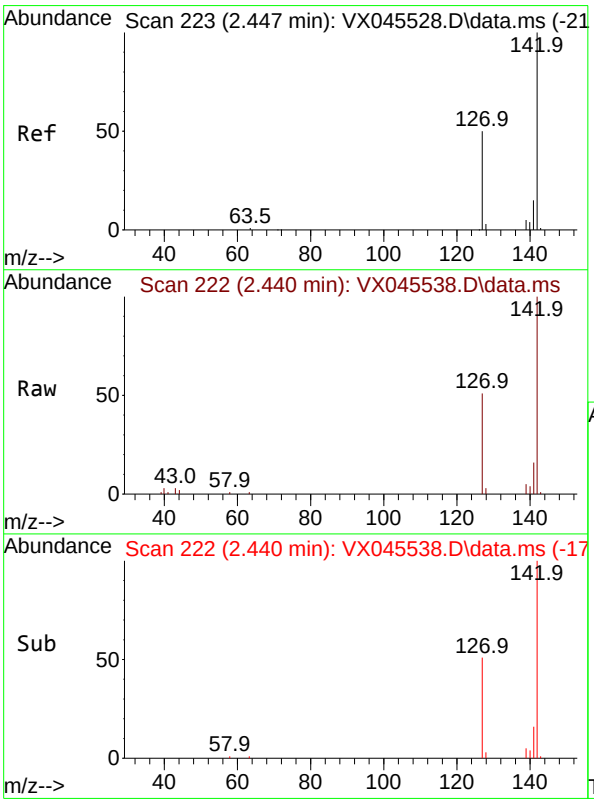
Ion	Ratio	Lower	Upper
101	100		
85	46.2	38.9	58.3
151	68.3	57.5	86.3

Instrument :
MSVOA_X
ClientSampleId :
VX0402WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/03/2025
Supervised By :Mahesh Dadoda 04/03/2025

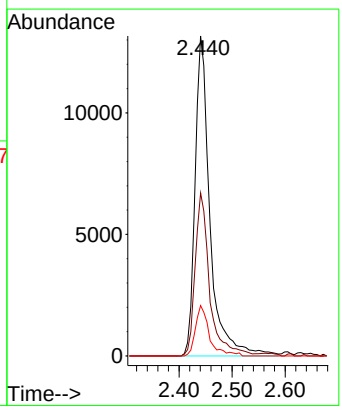


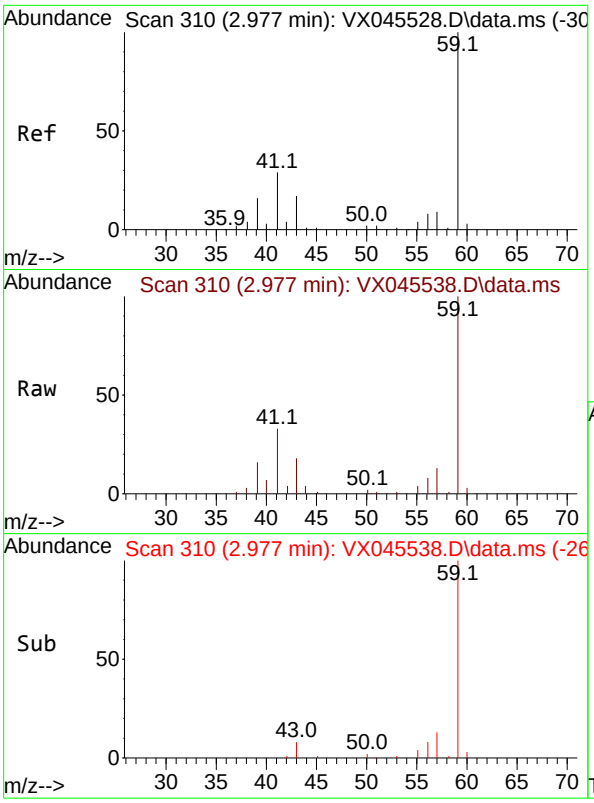


#10
Methyl Iodide
Concen: 17.902 ug/l
RT: 2.440 min Scan# 222
Delta R.T. -0.006 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion:142 Resp: 25733

Ion	Ratio	Lower	Upper
142	100		
127	49.6	40.2	60.4
141	14.8	11.7	17.5

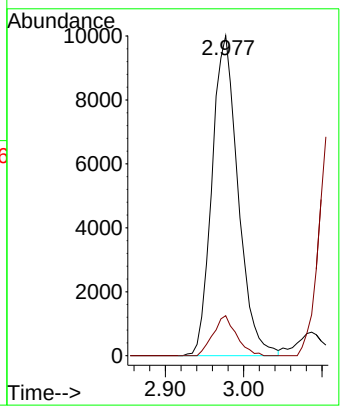




#11
Tert butyl alcohol
Concen: 100.611 ug/l
RT: 2.977 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion: 59 Resp: 2319

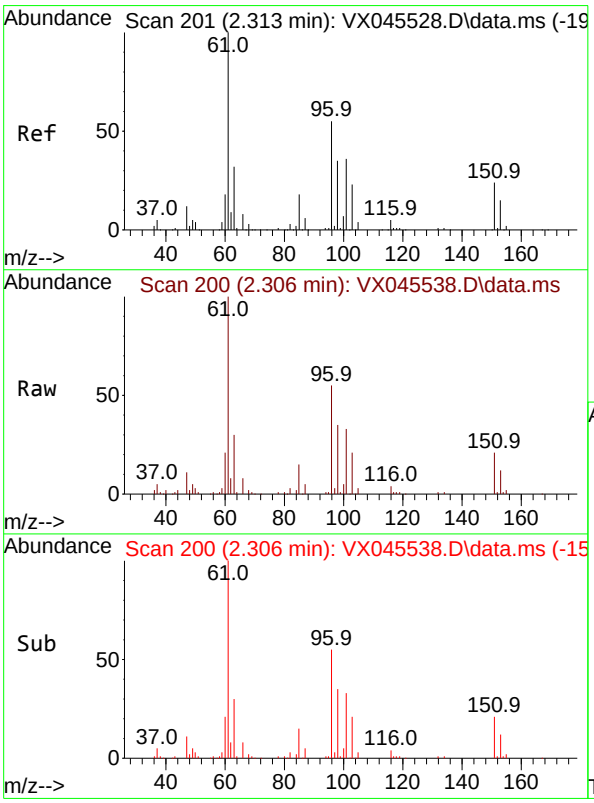
Ion	Ratio	Lower	Upper
59	100		
57	11.1	8.6	12.8



Instrument :
MSVOA_X
ClientSampleId :
VX0402WBSD01

Manual Integrations
APPROVED

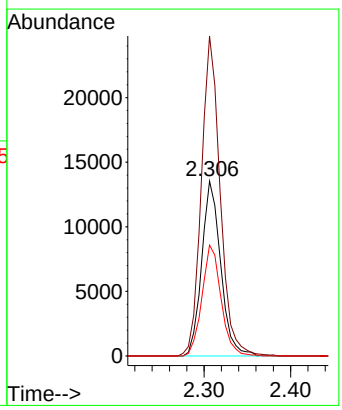
Reviewed By :John Carlone 04/03/2025
Supervised By :Mahesh Dadoda 04/03/2025

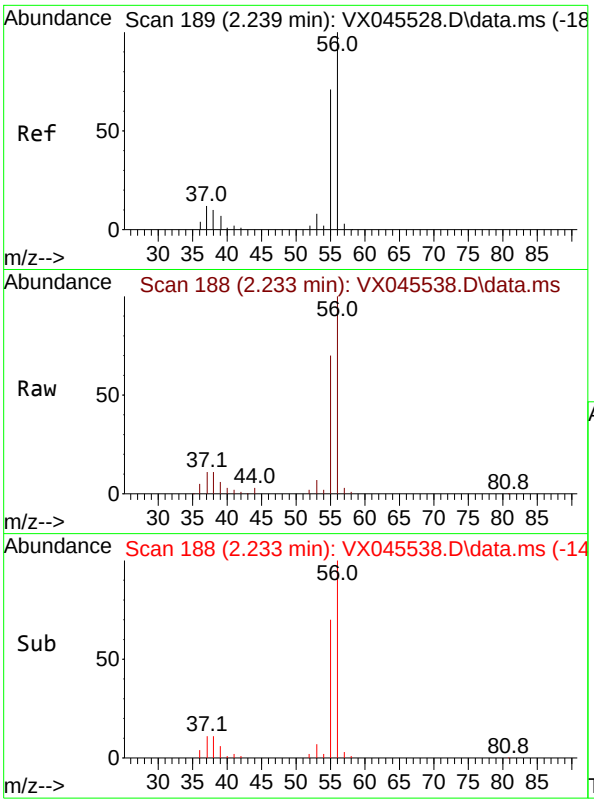


#12
1,1-Dichloroethene
Concen: 18.353 ug/l
RT: 2.306 min Scan# 200
Delta R.T. -0.006 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion: 96 Resp: 20667

Ion	Ratio	Lower	Upper
96	100		
61	183.0	145.7	218.5
98	63.4	51.6	77.4

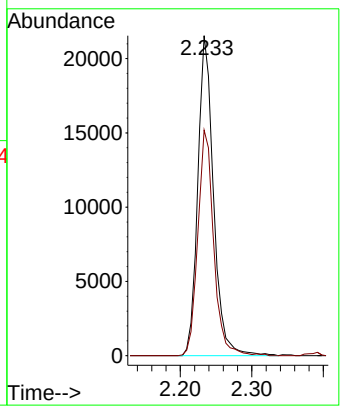




#13
Acrolein
Concen: 103.485 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion: 56 Resp: 3285

Ion	Ratio	Lower	Upper
56	100		
55	71.0	56.2	84.2



Instrument :
MSVOA_X
ClientSampleId :
VX0402WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/03/2025
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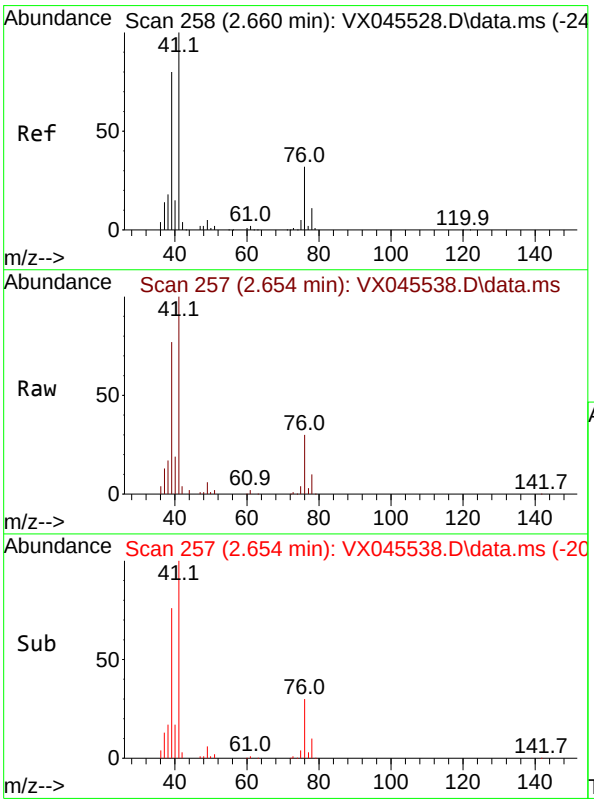
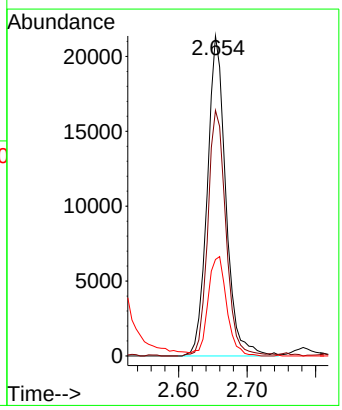
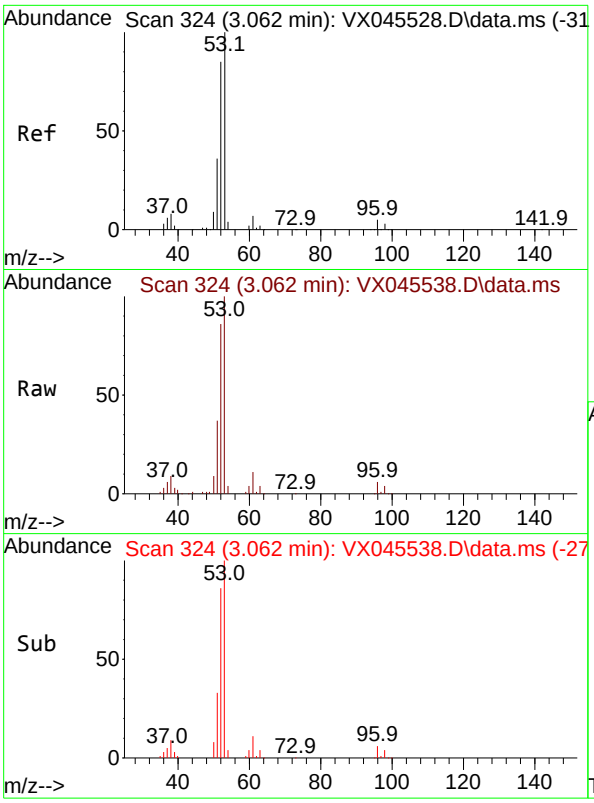


#14
Allyl chloride
Concen: 18.888 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.006 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion: 41 Resp: 40356

Ion	Ratio	Lower	Upper
41	100		
39	74.9	60.2	90.2
76	31.2	24.6	36.8





#15
Acrylonitrile
Concen: 98.476 ug/l
RT: 3.062 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

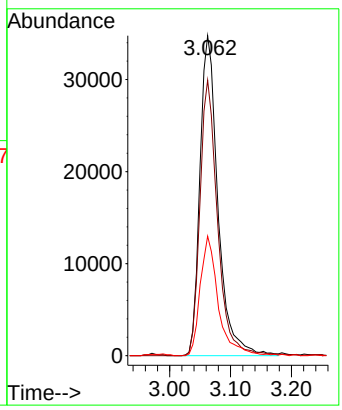
Tgt Ion: 53 Resp: 7166

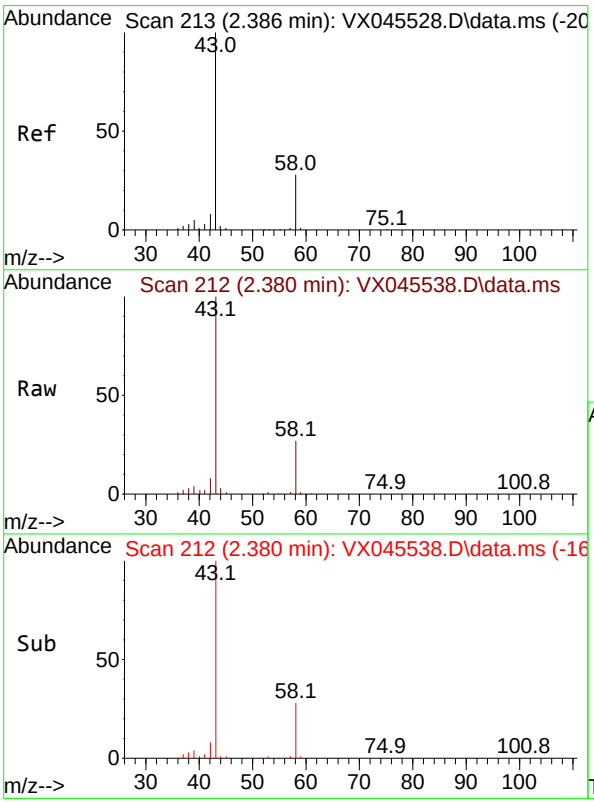
Ion	Ratio	Lower	Upper
53	100		
52	84.2	67.4	101.2
51	37.7	29.9	44.9

Instrument :
MSVOA_X
ClientSampleId :
VX0402WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/03/2025
Supervised By :Mahesh Dadoda 04/03/2025

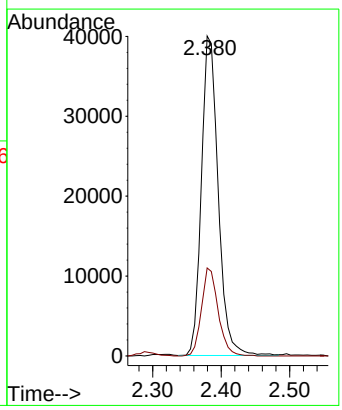


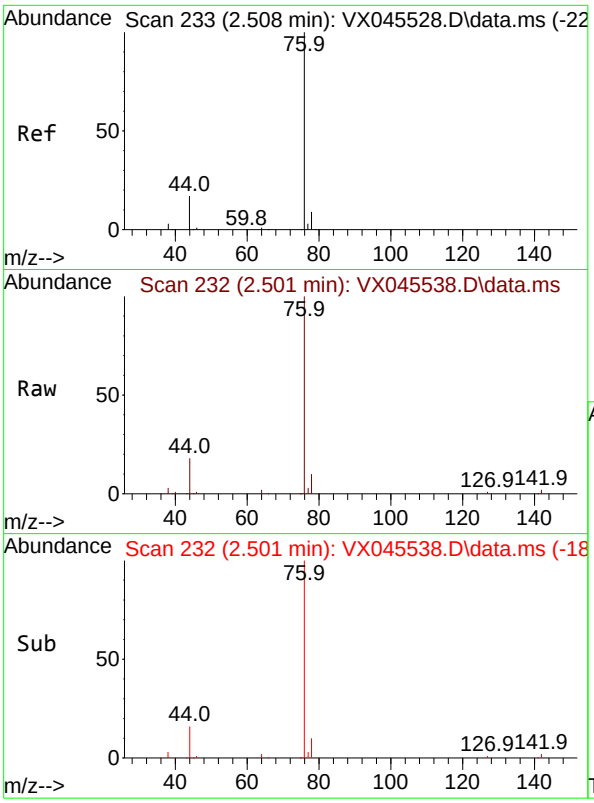


#16
Acetone
Concen: 96.832 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion: 43 Resp: 68206

Ion	Ratio	Lower	Upper
43	100		
58	27.5	22.3	33.5





#17
Carbon Disulfide
Concen: 18.440 ug/l
RT: 2.501 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion: 76 Resp: 5128

Ion	Ratio	Lower	Upper
76	100		
78	9.6	7.0	10.6

Instrument :
MSVOA_X
ClientSampleId :
VX0402WBSD01

Manual Integrations
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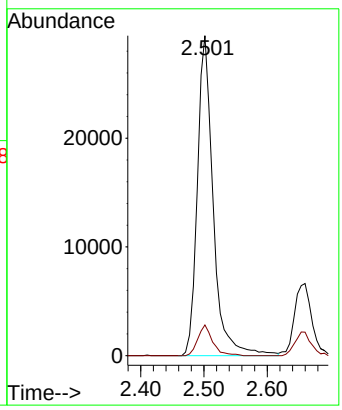
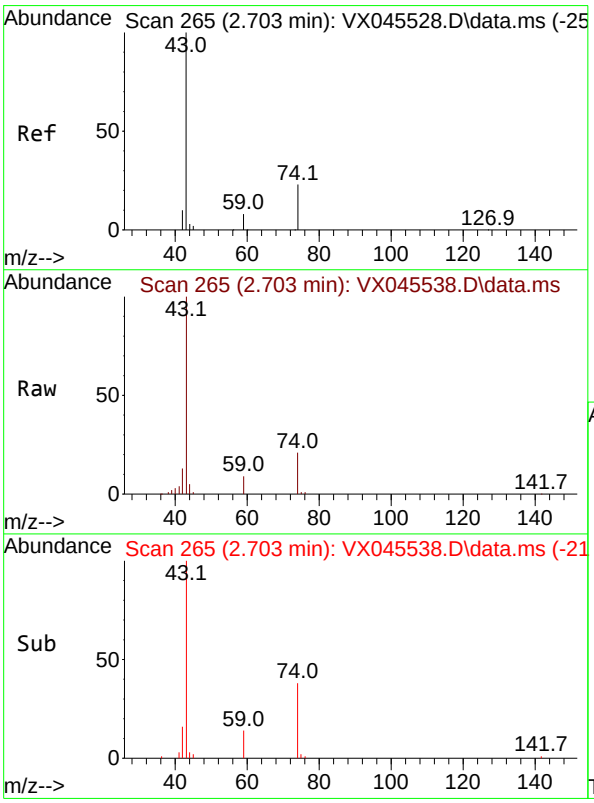
Reviewed By :John Carlone 04/03/2025
Supervised By :Mahesh Dadoda 04/03/2025

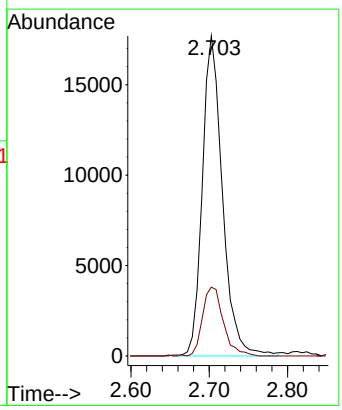


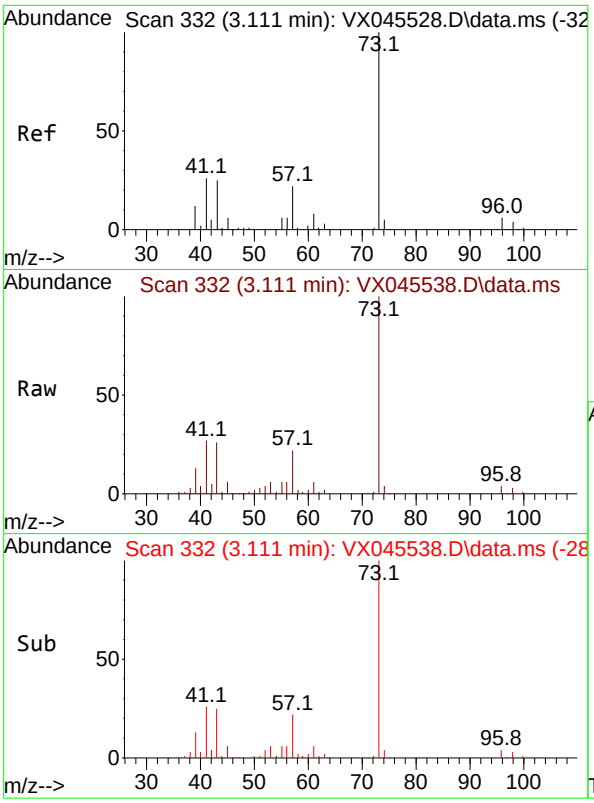


#18
Methyl Acetate
Concen: 19.488 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion: 43 Resp: 31604

Ion	Ratio	Lower	Upper
43	100		
74	22.3	17.5	26.3

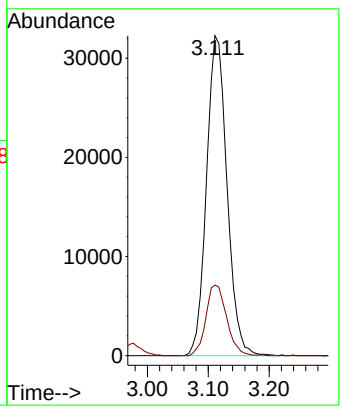




#19
Methyl tert-butyl Ether
Concen: 19.147 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion: 73 Resp: 7542

Ion	Ratio	Lower	Upper
73	100		
57	22.1	17.6	26.4



Instrument :
MSVOA_X
ClientSampleId :
VX0402WBSD01

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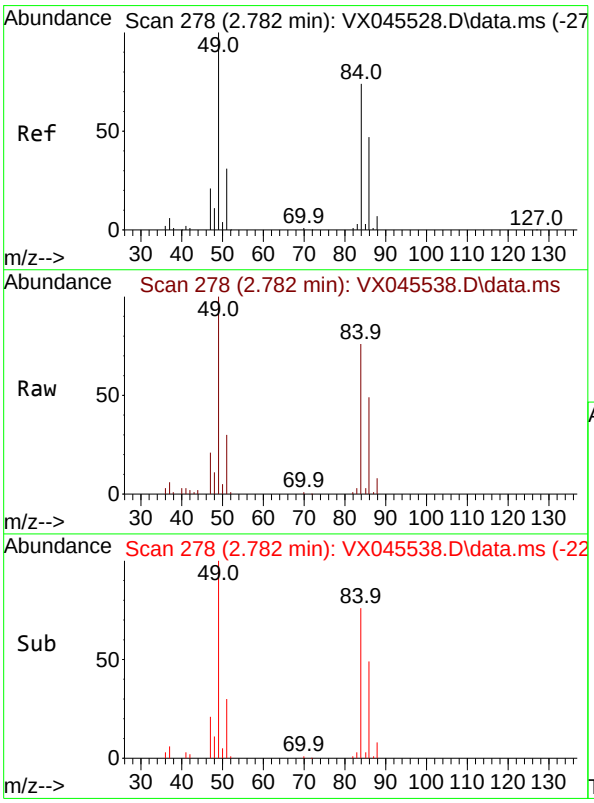
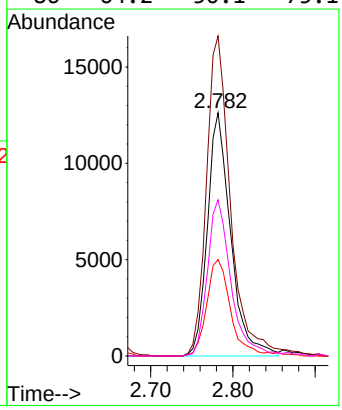
Reviewed By :John Carlone 04/03/2025
Supervised By :Mahesh Dadoda 04/03/2025

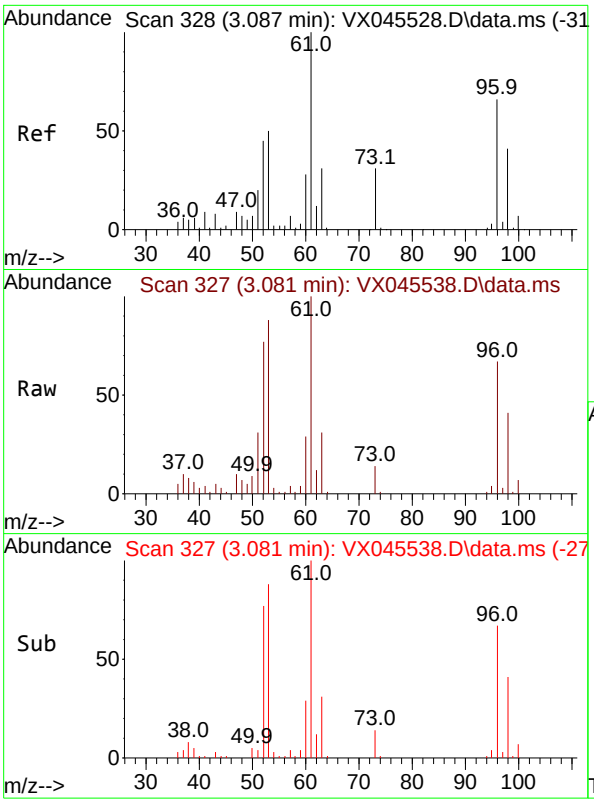


#20
Methylene Chloride
Concen: 18.812 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion: 84 Resp: 24807

Ion	Ratio	Lower	Upper
84	100		
49	131.6	107.5	161.3
51	39.7	33.0	49.6
86	64.2	50.1	75.1

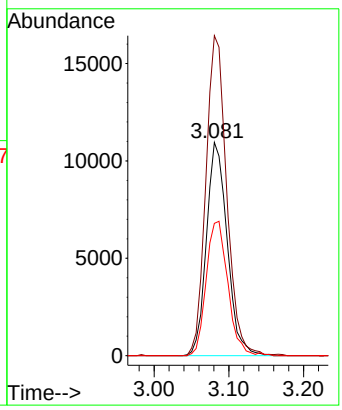




#21
trans-1,2-Dichloroethene
Concen: 18.398 ug/l
RT: 3.081 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion: 96 Resp: 2116

Ion	Ratio	Lower	Upper
96	100		
61	150.1	121.0	181.6
98	62.0	49.7	74.5



Instrument :
MSVOA_X
ClientSampleId :
VX0402WBSD01

Manual Integrations
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Reviewed By :John Carlone 04/03/2025
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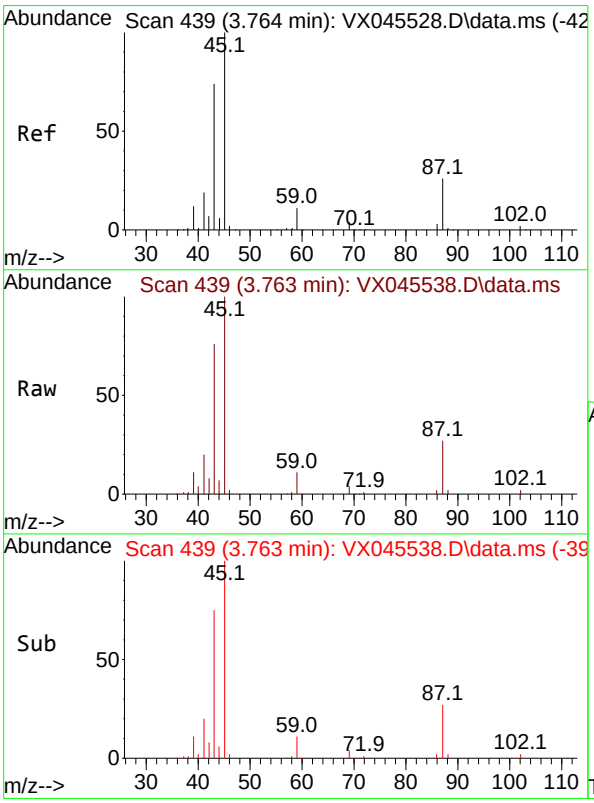
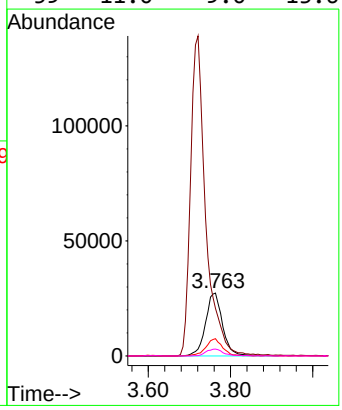
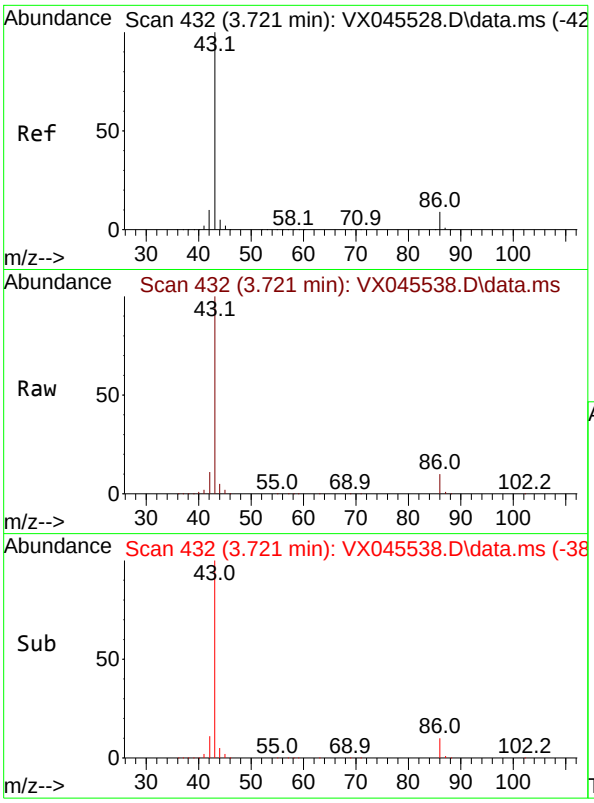


#22
Diisopropyl ether
Concen: 18.774 ug/l
RT: 3.763 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion: 45 Resp: 79017

Ion	Ratio	Lower	Upper
45	100		
43	75.2	59.3	88.9
87	27.4	20.4	30.6
59	11.0	9.0	13.6





#23
Vinyl Acetate
Concen: 98.202 ug/l
RT: 3.721 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion: 43 Resp: 35709

Ion	Ratio	Lower	Upper
43	100		
86	9.7	7.5	11.3

Instrument :
MSVOA_X
ClientSampleId :
VX0402WBSD01

Manual Integrations
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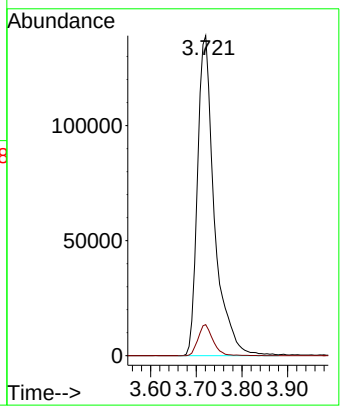
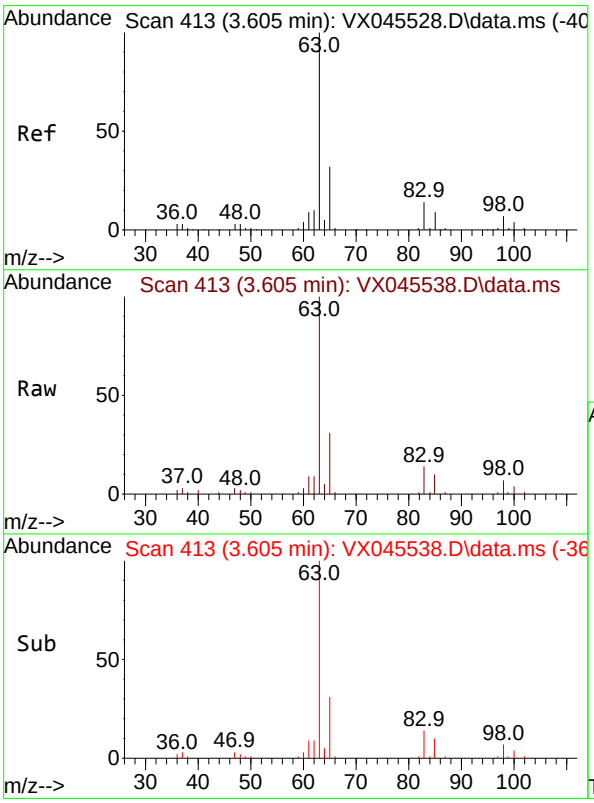
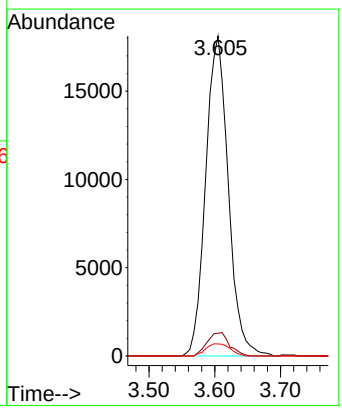


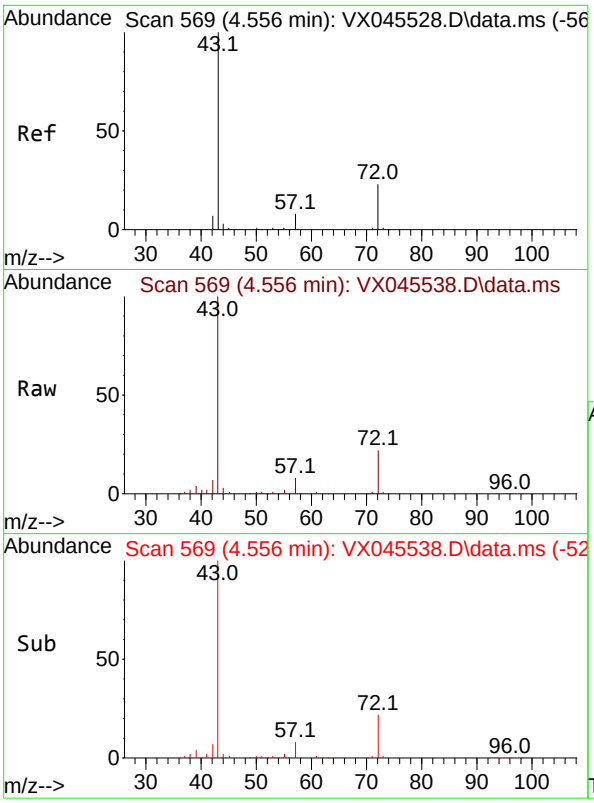


#24
1,1-Dichloroethane
Concen: 18.213 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion: 63 Resp: 43351

Ion	Ratio	Lower	Upper
63	100		
98	7.1	3.4	10.1
100	3.8	2.2	6.6

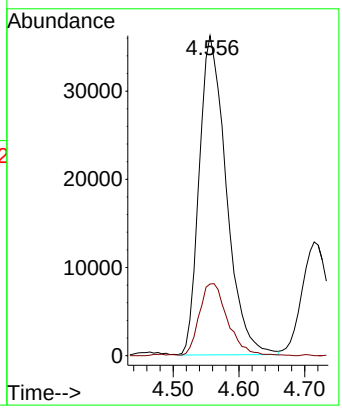




#25
2-Butanone
Concen: 100.458 ug/l
RT: 4.556 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion: 43 Resp: 10357

Ion	Ratio	Lower	Upper
43	100		
72	22.3	18.6	28.0



Instrument :
MSVOA_X
ClientSampleId :
VX0402WBSD01

Manual Integrations
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Reviewed By :John Carlone 04/03/2025
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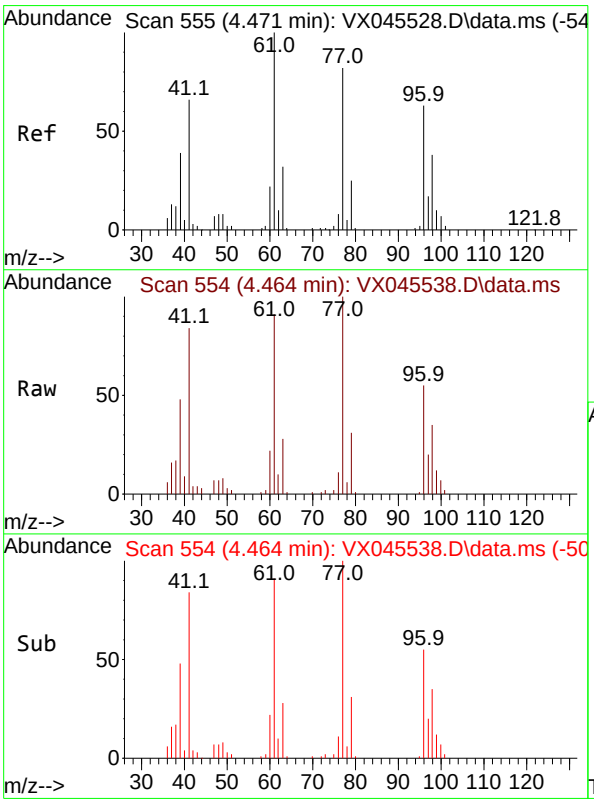
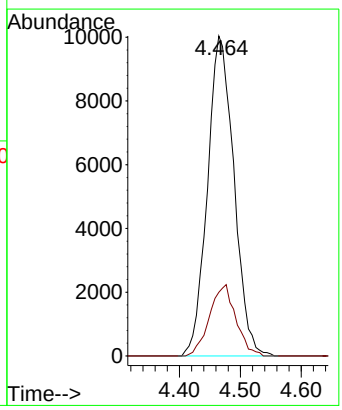
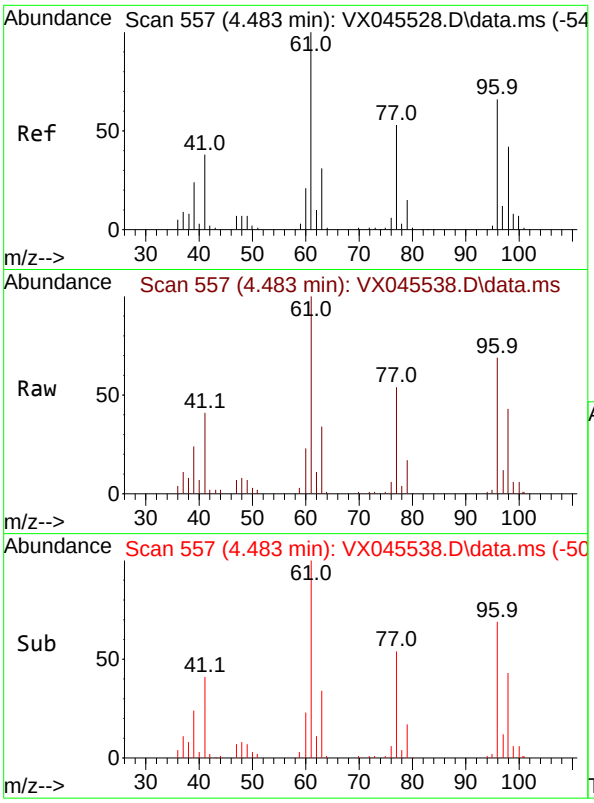


#26
2,2-Dichloropropane
Concen: 19.735 ug/l
RT: 4.464 min Scan# 554
Delta R.T. -0.006 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion: 77 Resp: 30350

Ion	Ratio	Lower	Upper
77	100		
97	22.1	10.6	31.8

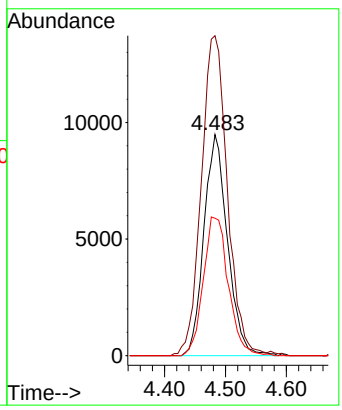




#27
cis-1,2-Dichloroethene
Concen: 18.174 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion: 96 Resp: 2547

Ion	Ratio	Lower	Upper
96	100		
61	160.5	0.0	313.2
98	66.6	0.0	126.4



Instrument :
MSVOA_X
ClientSampleId :
VX0402WBSD01

Manual Integrations
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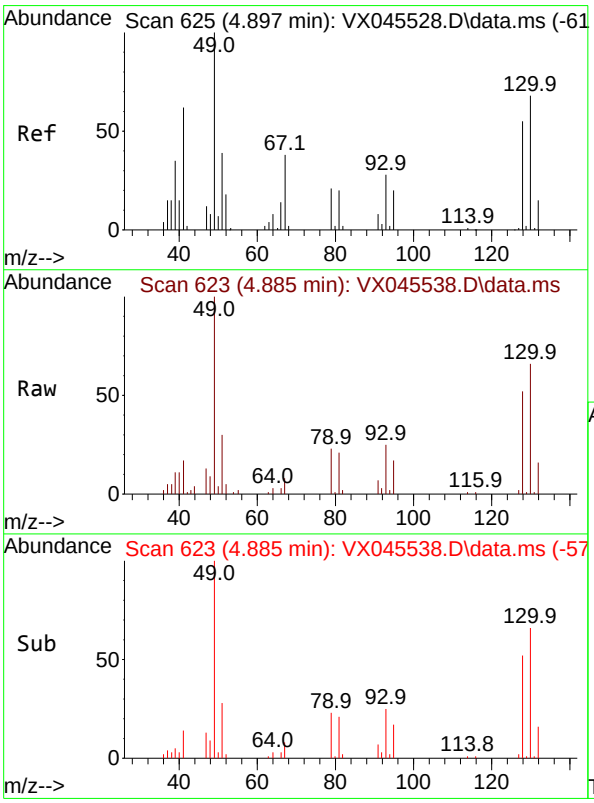
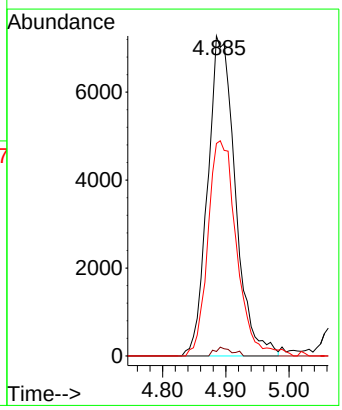
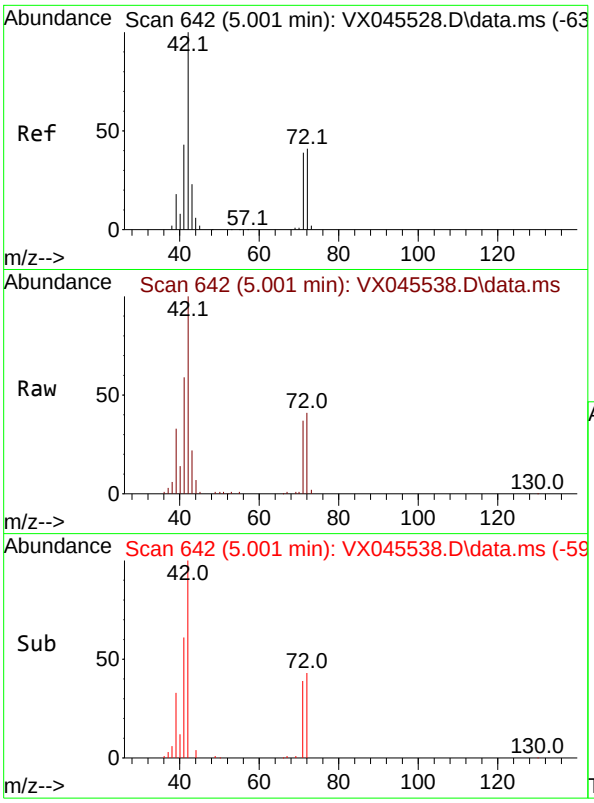


#28
Bromochloromethane
Concen: 19.146 ug/l
RT: 4.885 min Scan# 623
Delta R.T. -0.012 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion: 49 Resp: 22022

Ion	Ratio	Lower	Upper
49	100		
129	1.7	0.0	3.8
130	70.0	54.6	81.8

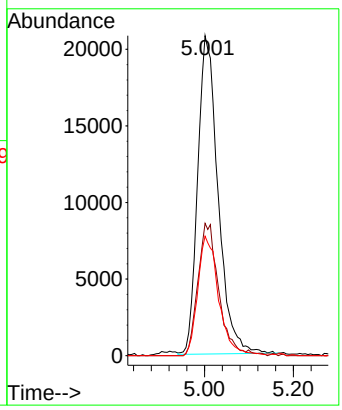




#29
Tetrahydrofuran
Concen: 99.352 ug/l
RT: 5.001 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion: 42 Resp: 6641

Ion	Ratio	Lower	Upper
42	100		
72	41.8	33.4	50.0
71	38.4	31.4	47.0



Instrument :
MSVOA_X
ClientSampleId :
VX0402WBSD01

Manual Integrations
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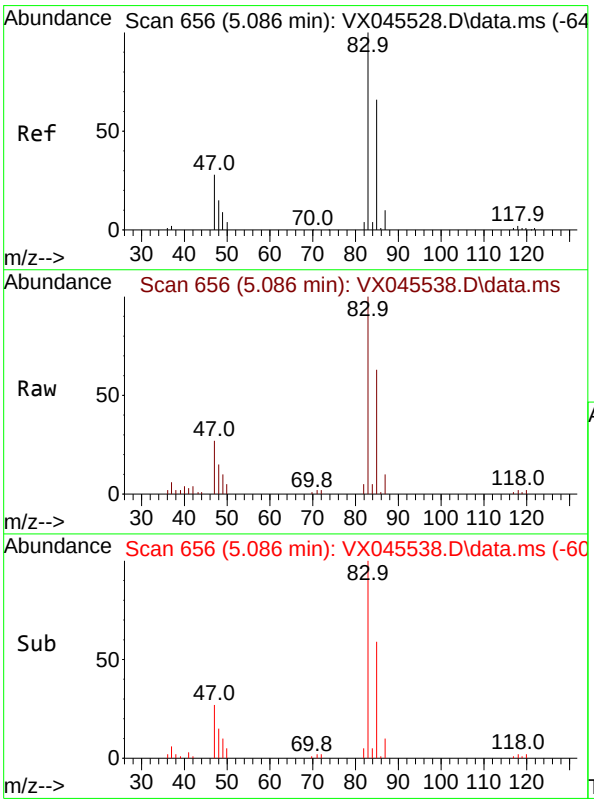
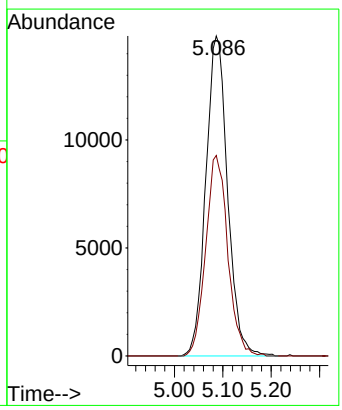
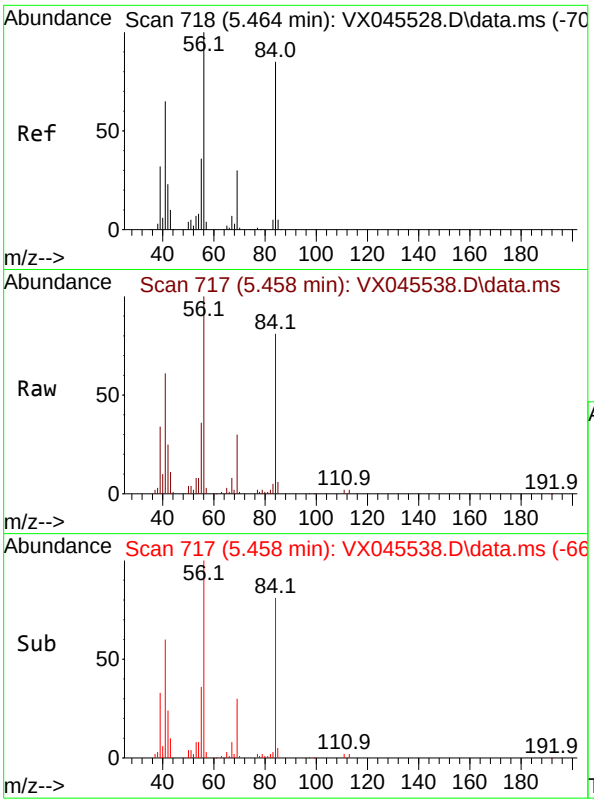


#30
Chloroform
Concen: 18.888 ug/l
RT: 5.086 min Scan# 656
Delta R.T. -0.000 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion: 83 Resp: 46260

Ion	Ratio	Lower	Upper
83	100		
85	62.6	52.8	79.2

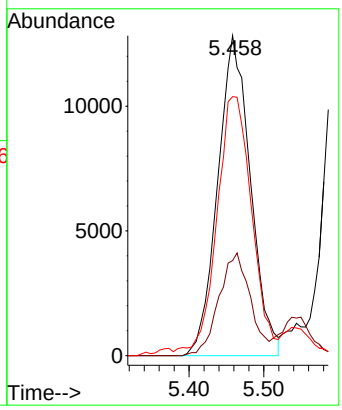




#31
Cyclohexane
Concen: 18.546 ug/l
RT: 5.458 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion: 56 Resp: 3902

Ion	Ratio	Lower	Upper
56	100		
69	29.7	23.6	35.4
84	78.8	67.7	101.5



Instrument :
MSVOA_X
ClientSampleId :
VX0402WBSD01

Manual Integrations
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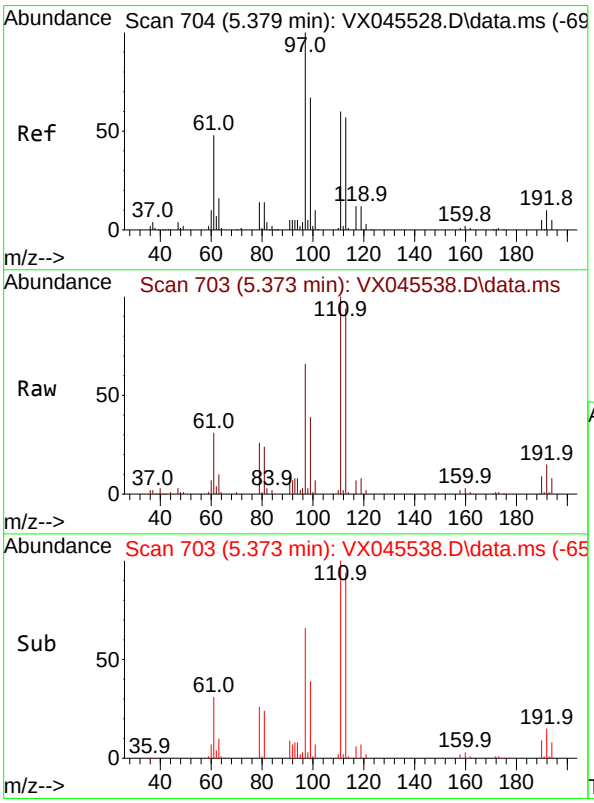
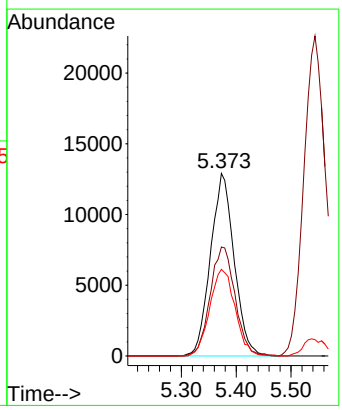
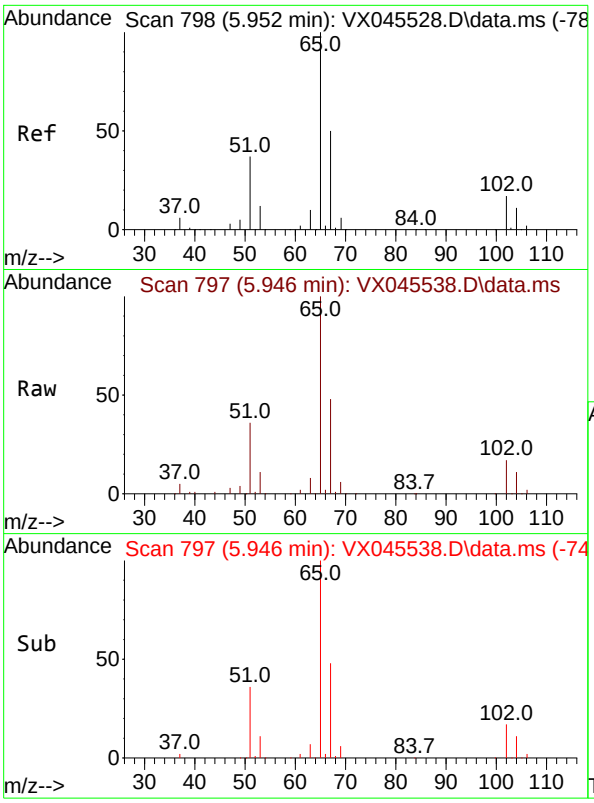


#32
1,1,1-Trichloroethane
Concen: 18.678 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.006 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion: 97 Resp: 38708

Ion	Ratio	Lower	Upper
97	100		
99	62.6	51.7	77.5
61	50.8	41.0	61.4

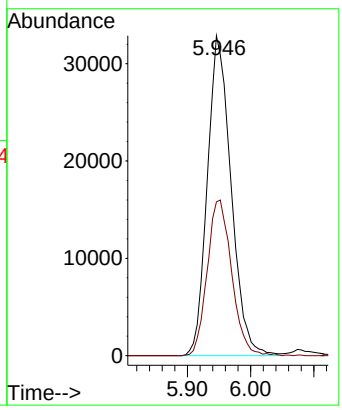




#33
1,2-Dichloroethane-d4
Concen: 49.978 ug/l
RT: 5.946 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion: 65 Resp: 8573

Ion	Ratio	Lower	Upper
65	100		
67	50.0	0.0	99.0



Instrument :
MSVOA_X
ClientSampleId :
VX0402WBSD01

Manual Integrations
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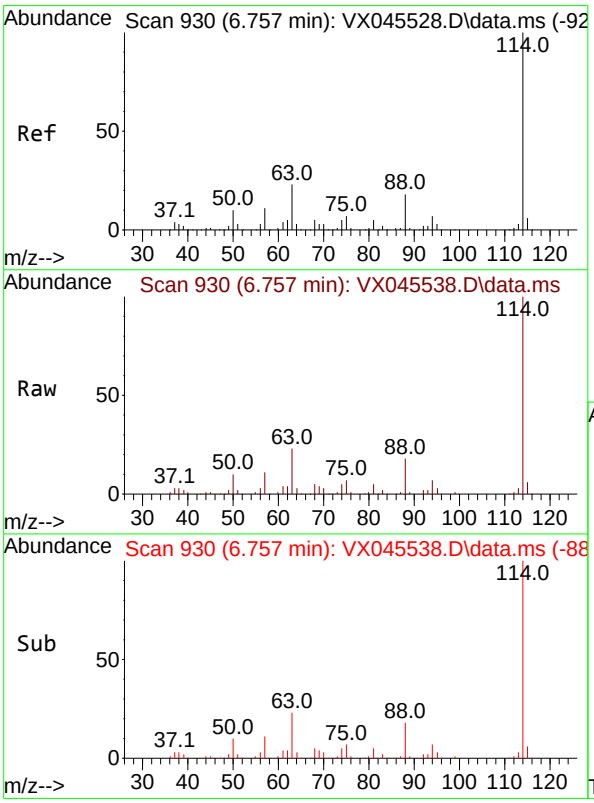
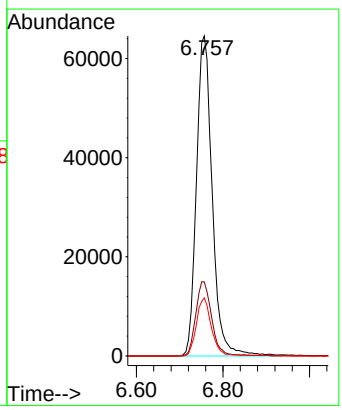
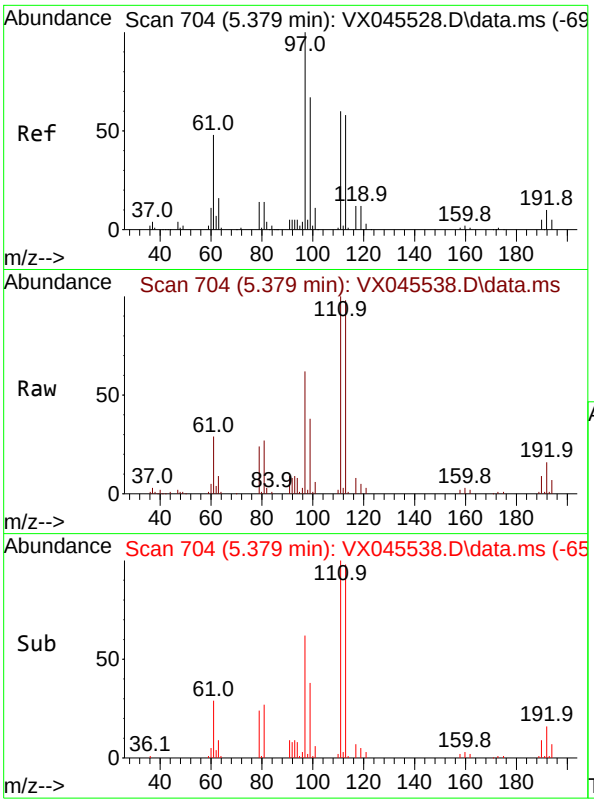


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion:114 Resp: 163478

Ion	Ratio	Lower	Upper
114	100		
63	23.2	0.0	46.8
88	18.2	0.0	35.4

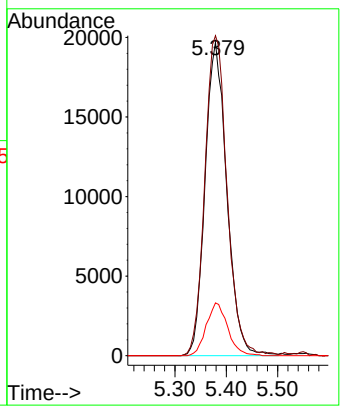




#35
Dibromofluoromethane
Concen: 49.876 ug/l
RT: 5.379 min Scan# 7(
Delta R.T. -0.000 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion:113 Resp: 5785(

Ion	Ratio	Lower	Upper
113	100		
111	104.7	81.8	122.6
192	16.6	13.8	20.6



Instrument :
MSVOA_X
ClientSampleId :
VX0402WBSD01

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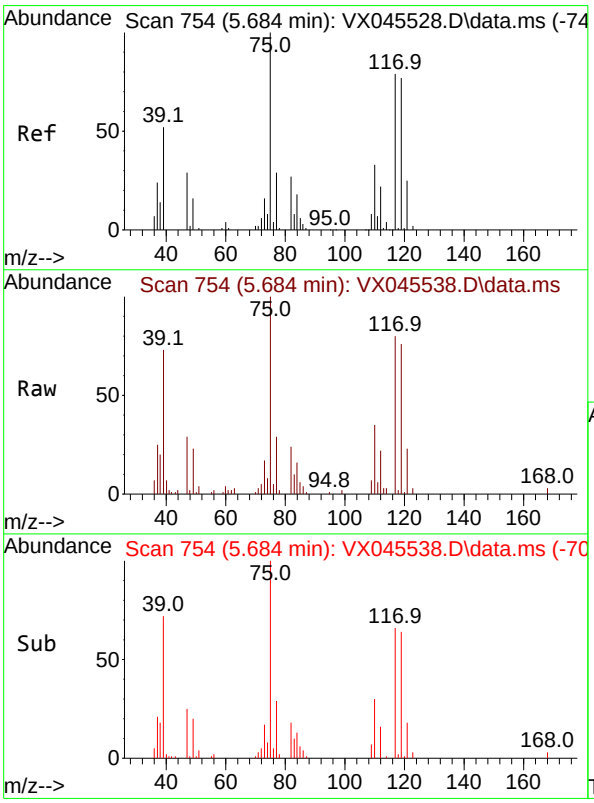
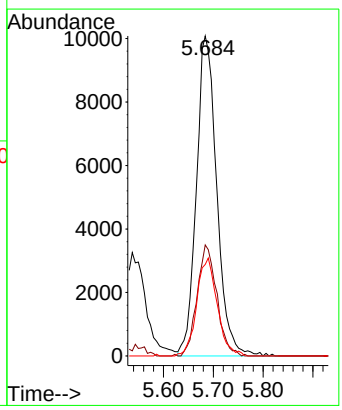
Reviewed By :John Carlone 04/03/2025
Supervised By :Mahesh Dadoda 04/03/2025

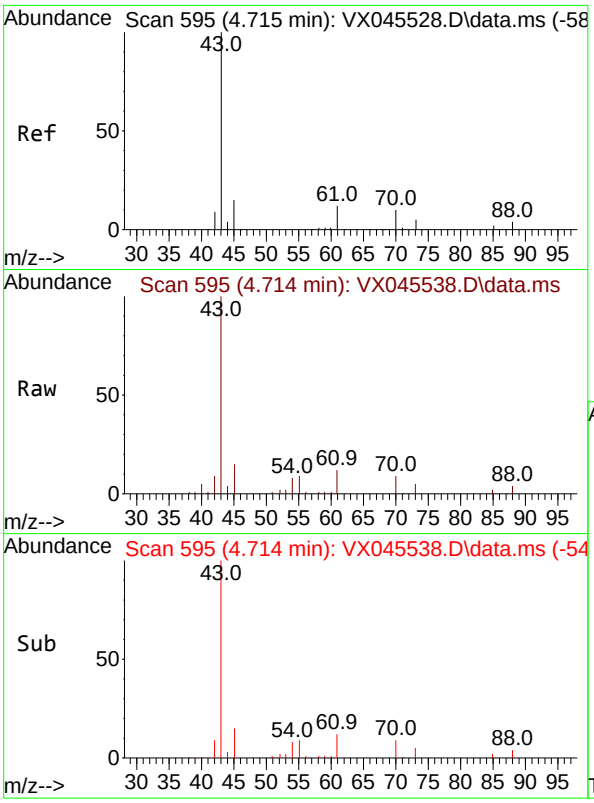


#36
1,1-Dichloropropene
Concen: 18.290 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.000 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion: 75 Resp: 28644

Ion	Ratio	Lower	Upper
75	100		
110	33.5	16.9	50.6
77	30.7	25.0	37.4

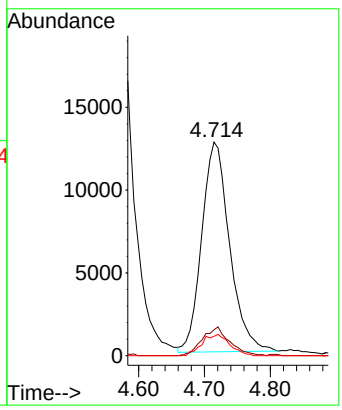




#37
Ethyl Acetate
Concen: 18.958 ug/l
RT: 4.714 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion: 43 Resp: 3741

Ion	Ratio	Lower	Upper
43	100		
61	13.3	9.9	14.9
70	10.1	7.5	11.3



Instrument :
MSVOA_X
ClientSampleId :
VX0402WBSD01

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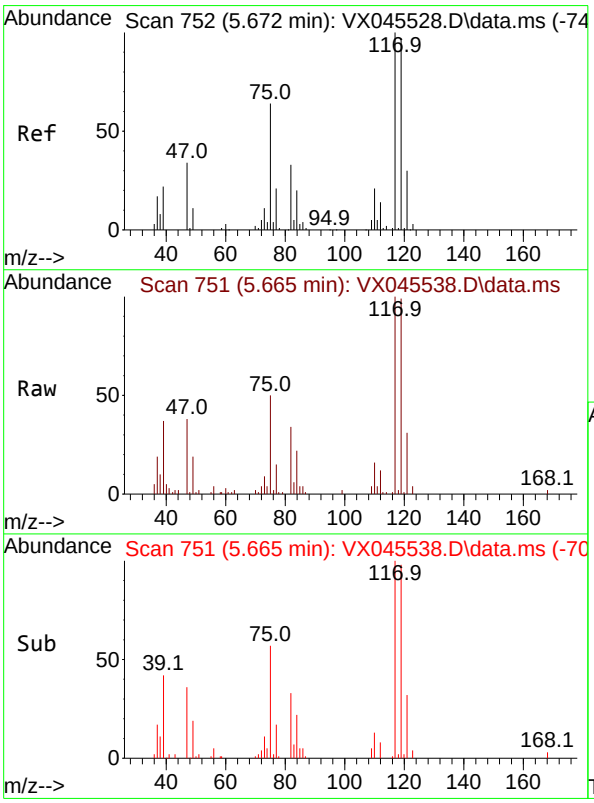
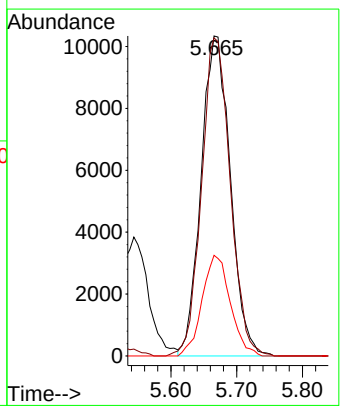
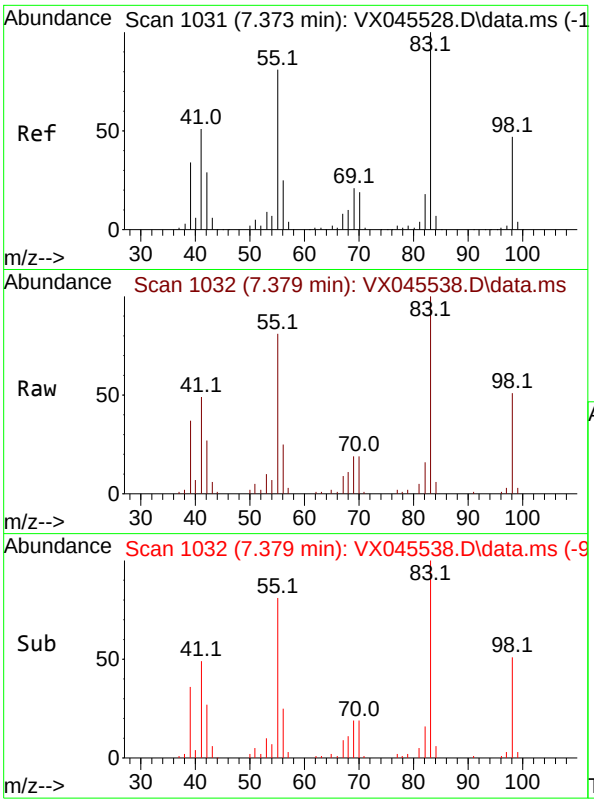


#38
Carbon Tetrachloride
Concen: 18.871 ug/l
RT: 5.665 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion:117 Resp: 31939

Ion	Ratio	Lower	Upper
117	100		
119	99.4	76.9	115.3
121	31.4	24.2	36.2

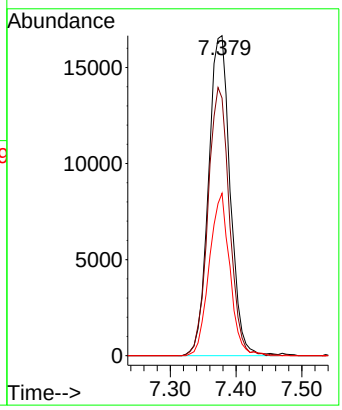




#39
Methylcyclohexane
Concen: 19.942 ug/l
RT: 7.379 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion: 83 Resp: 3828

Ion	Ratio	Lower	Upper
83	100		
55	80.5	64.9	97.3
98	50.8	37.4	56.0



Instrument :
MSVOA_X
ClientSampleId :
VX0402WBSD01

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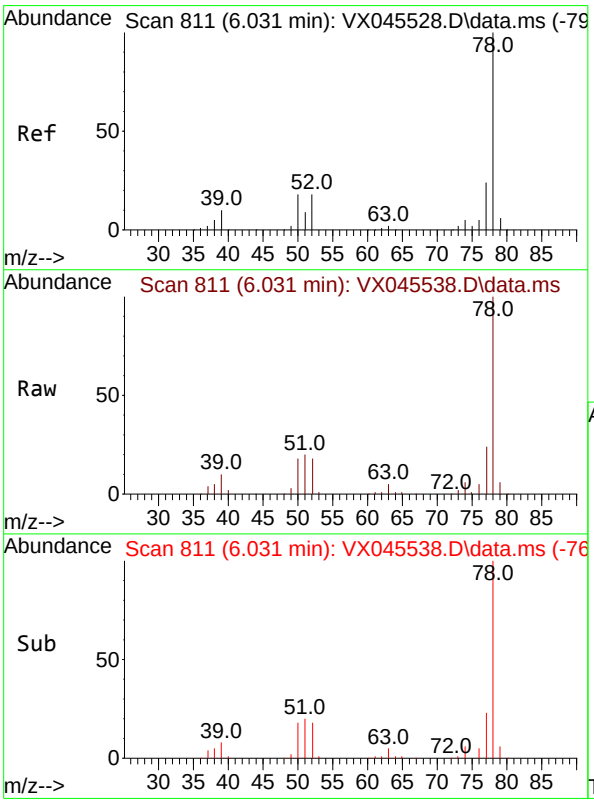
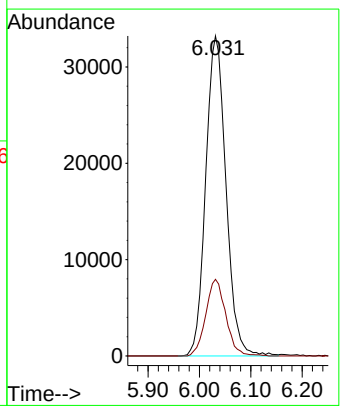
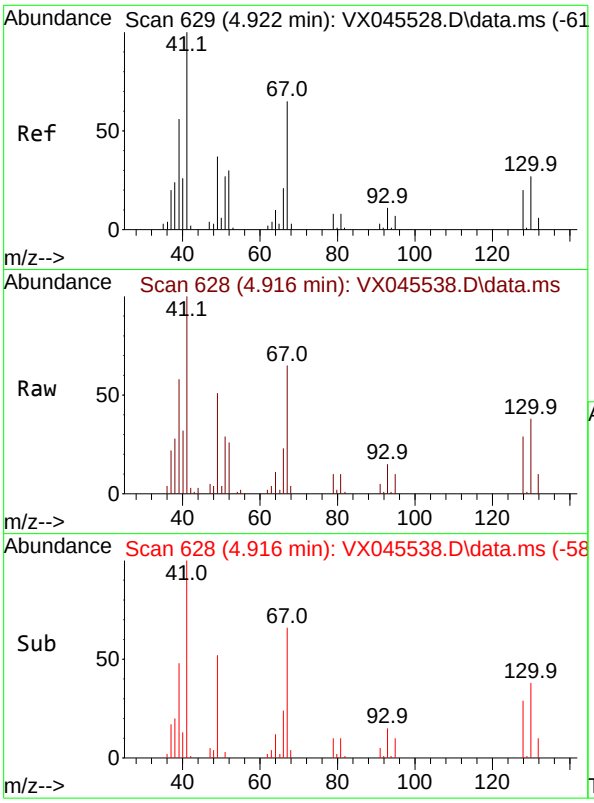


#40
Benzene
Concen: 18.986 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion: 78 Resp: 90807

Ion	Ratio	Lower	Upper
78	100		
77	23.9	19.0	28.6

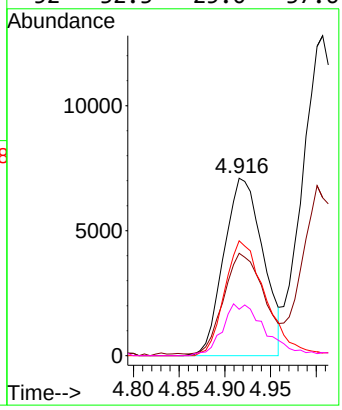




#41
Methacrylonitrile
Concen: 20.311 ug/l
RT: 4.916 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion: 41 Resp: 2115

Ion	Ratio	Lower	Upper
41	100		
39	57.7	47.0	70.6
67	68.2	53.2	79.8
52	32.3	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
VX0402WBSD01

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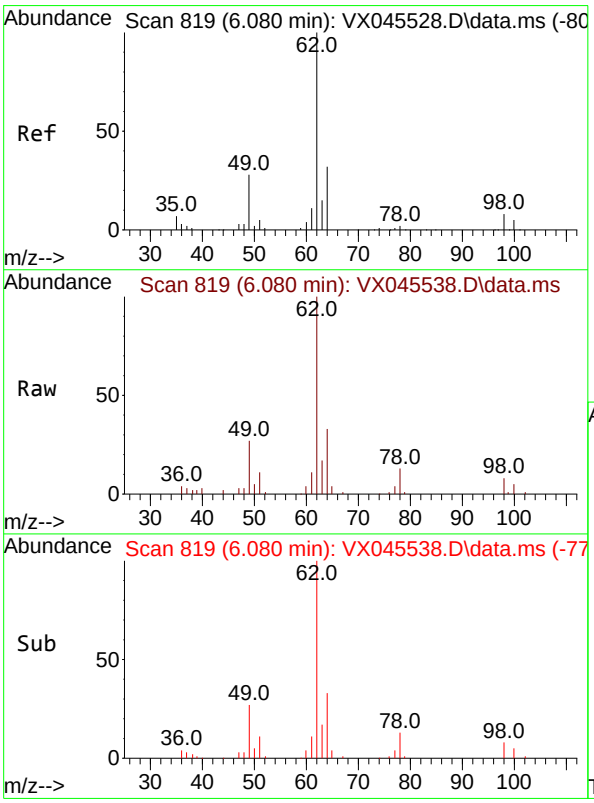
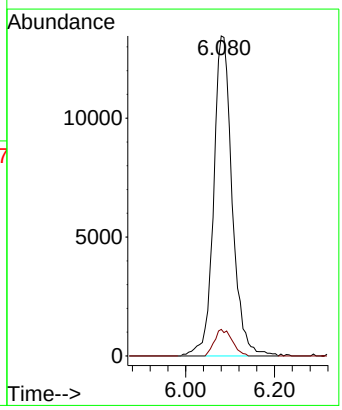
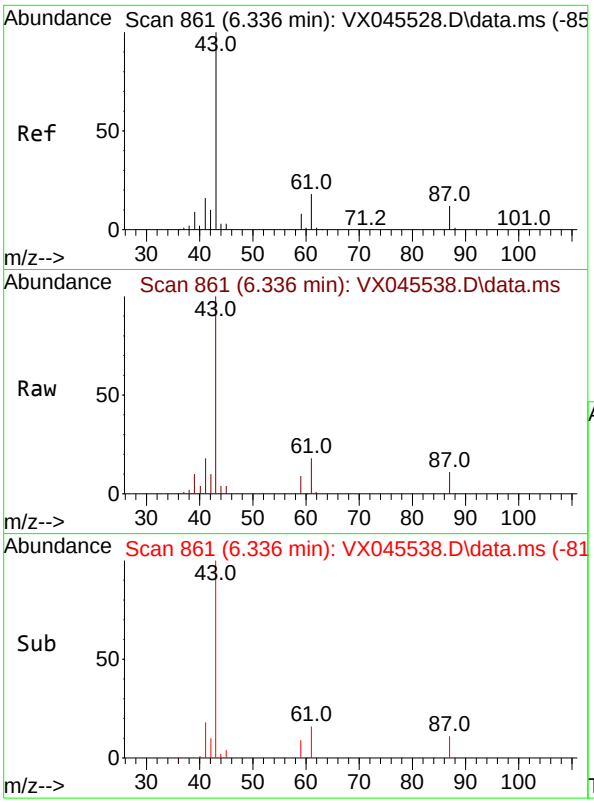


#42
1,2-Dichloroethane
Concen: 19.663 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.000 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion: 62 Resp: 38844

Ion	Ratio	Lower	Upper
62	100		
98	8.0	0.0	15.2





#43
Isopropyl Acetate
Concen: 19.999 ug/l
RT: 6.336 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion: 43 Resp: 5982

Ion	Ratio	Lower	Upper
43	100		
61	17.8	14.1	21.1
87	11.2	9.2	13.8

Instrument :
MSVOA_X
ClientSampleId :
VX0402WBSD01

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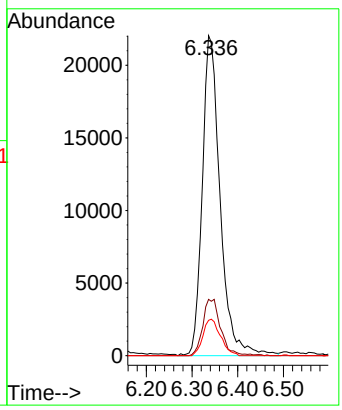
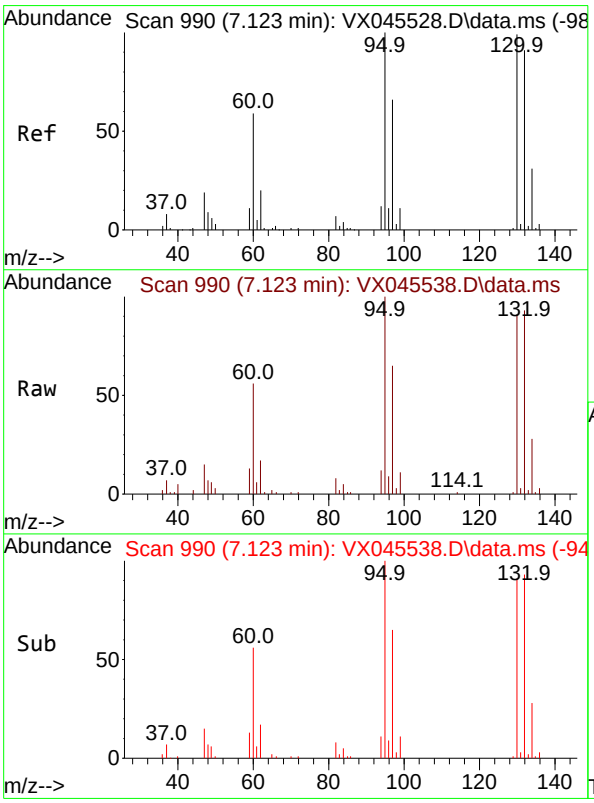
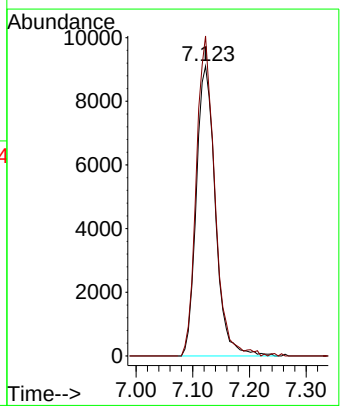


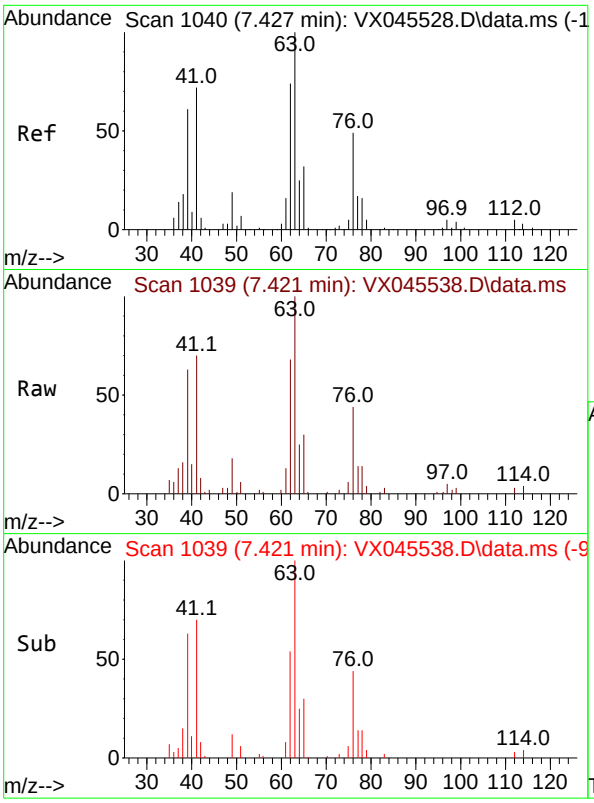


#44
Trichloroethene
Concen: 18.679 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion:130 Resp: 21235

Ion	Ratio	Lower	Upper
130	100		
95	110.4	0.0	202.0

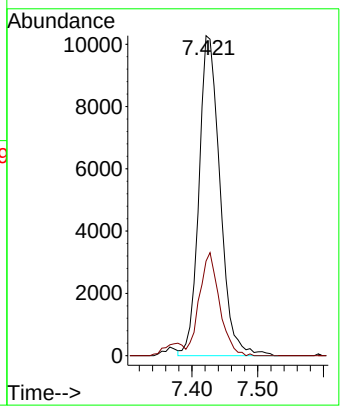




#45
1,2-Dichloropropane
Concen: 19.189 ug/l
RT: 7.421 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion: 63 Resp: 2290

Ion	Ratio	Lower	Upper
63	100		
65	29.6	25.8	38.6



Instrument :
MSVOA_X
ClientSampleId :
VX0402WBSD01

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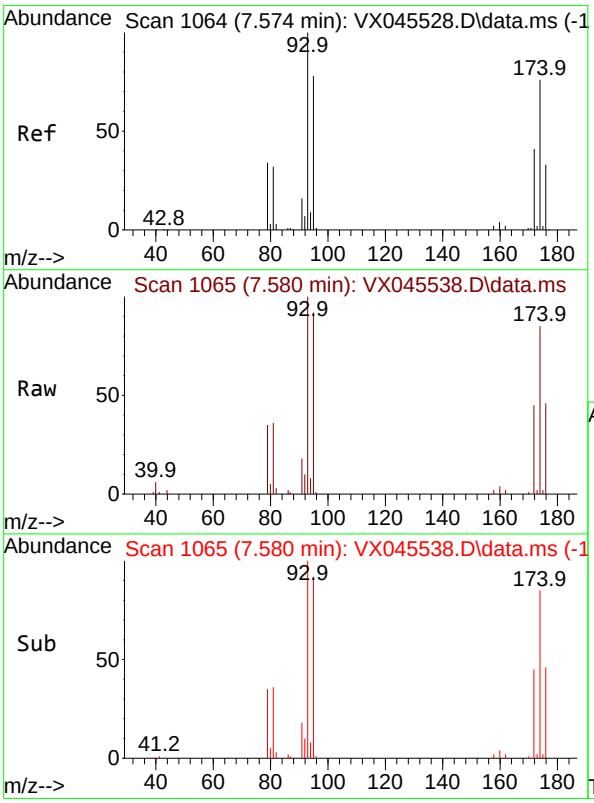
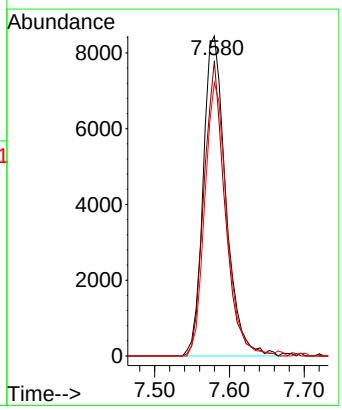
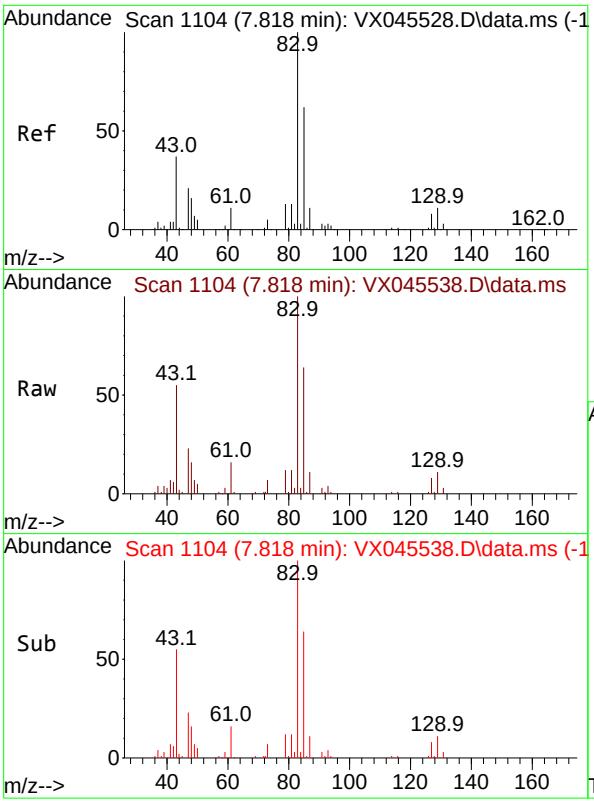


#46
Dibromomethane
Concen: 19.367 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. 0.006 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion: 93 Resp: 17742

Ion	Ratio	Lower	Upper
93	100		
95	85.6	64.8	97.2
174	83.6	65.4	98.0

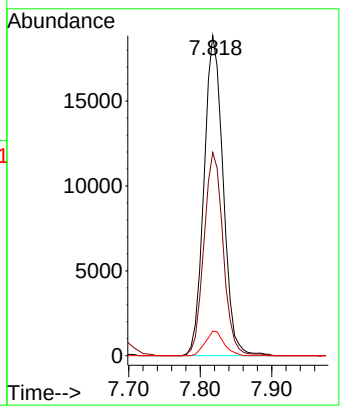




#47
Bromodichloromethane
Concen: 19.141 ug/l
RT: 7.818 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion: 83 Resp: 3501

Ion	Ratio	Lower	Upper
83	100		
85	63.5	49.7	74.5
127	7.6	6.1	9.1



Instrument :
MSVOA_X
ClientSampleId :
VX0402WBSD01

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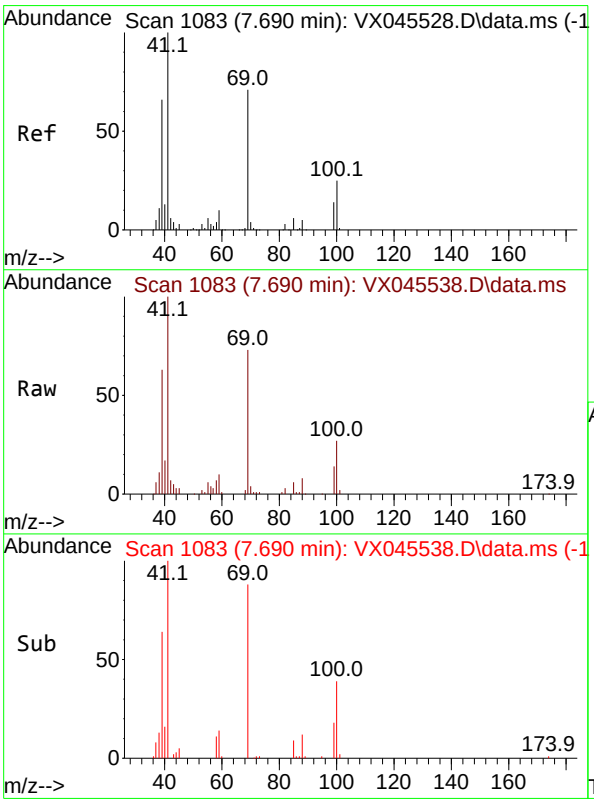
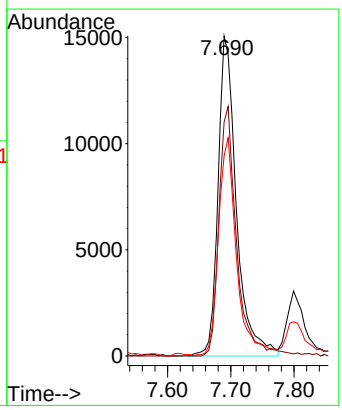
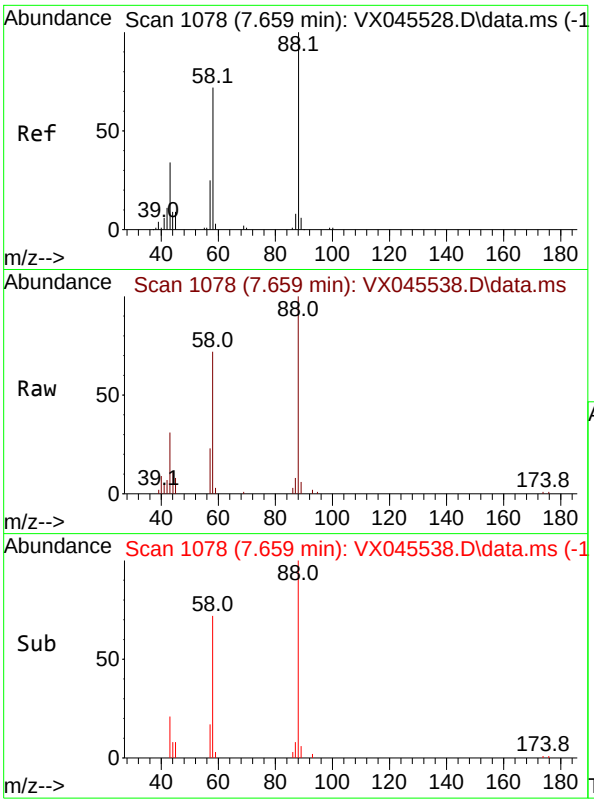


#48
Methyl methacrylate
Concen: 19.637 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. -0.000 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion: 41 Resp: 30328

Ion	Ratio	Lower	Upper
41	100		
69	75.4	58.2	87.2
39	67.2	53.6	80.4

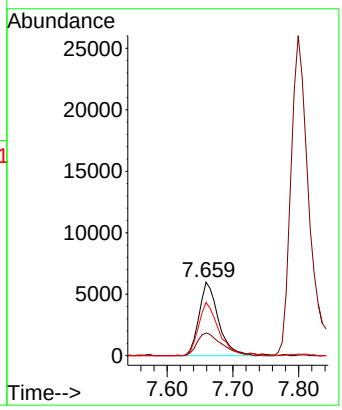




#49
1,4-Dioxane
Concen: 444.734 ug/l
RT: 7.659 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion: 88 Resp: 1242

Ion	Ratio	Lower	Upper
88	100		
43	39.0	32.2	48.4
58	72.8	58.6	88.0



Instrument :
MSVOA_X
ClientSampleId :
VX0402WBSD01

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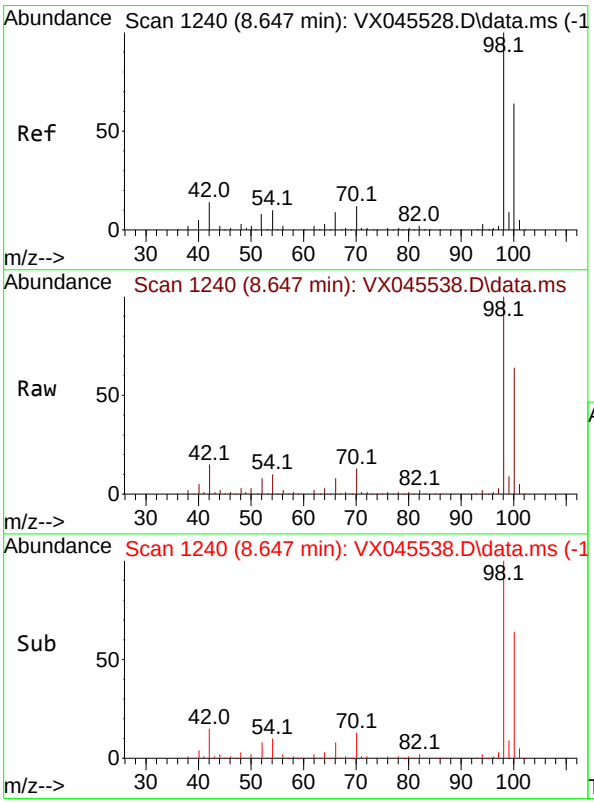
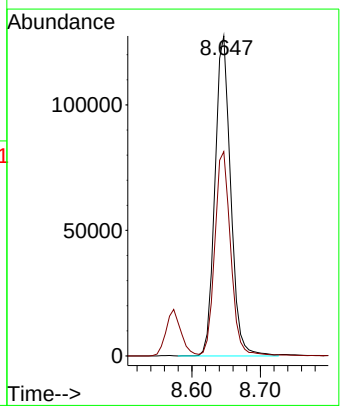
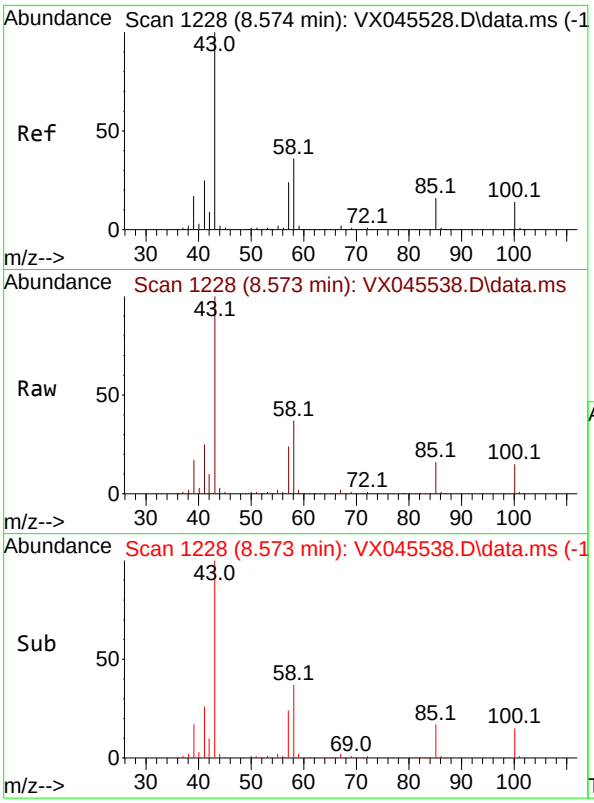


#50
Toluene-d8
Concen: 50.114 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion: 98 Resp: 202885

Ion	Ratio	Lower	Upper
98	100		
100	64.7	52.2	78.4

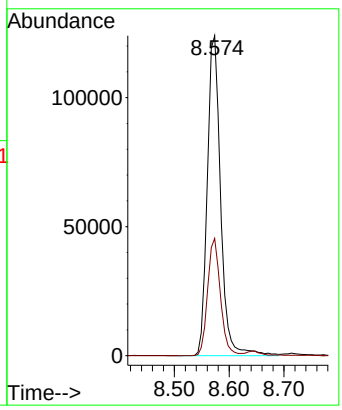




#51
4-Methyl-2-Pentanone
Concen: 105.361 ug/l
RT: 8.573 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion: 43 Resp: 20892

Ion	Ratio	Lower	Upper
43	100		
58	35.2	28.5	42.7



Instrument :
MSVOA_X
ClientSampleId :
VX0402WBSD01

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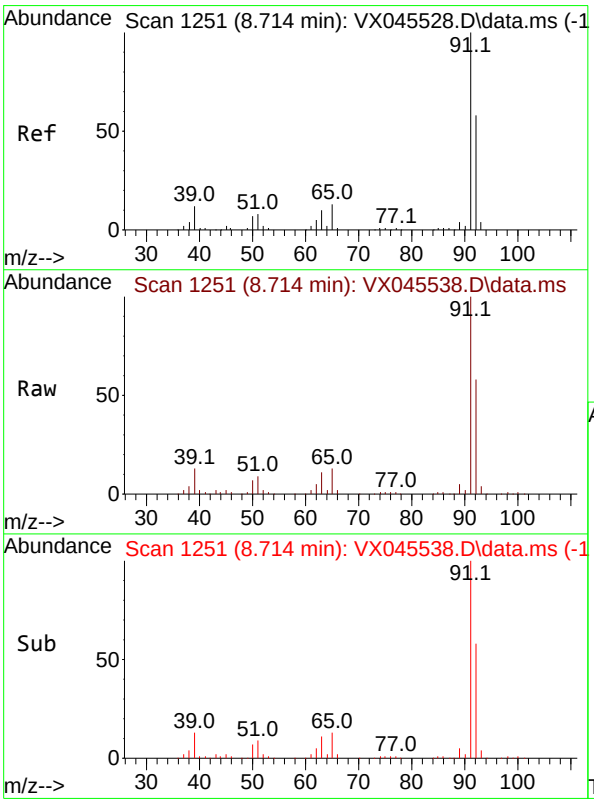
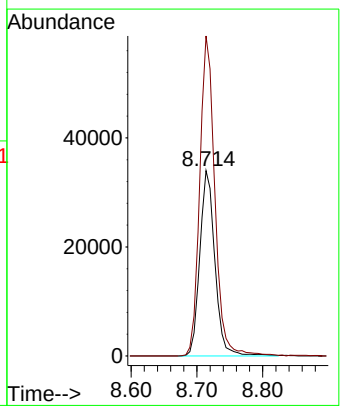
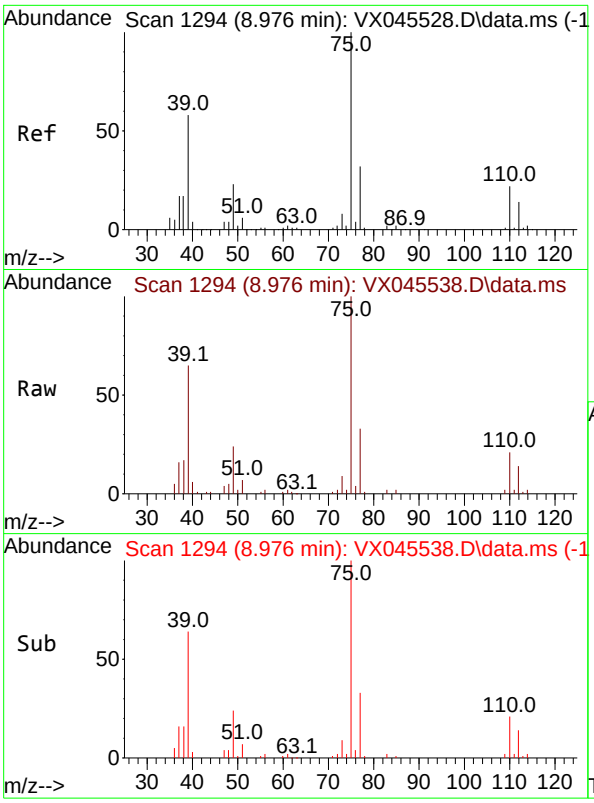


#52
Toluene
Concen: 18.763 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion: 92 Resp: 54303

Ion	Ratio	Lower	Upper
92	100		
91	173.2	138.7	208.1

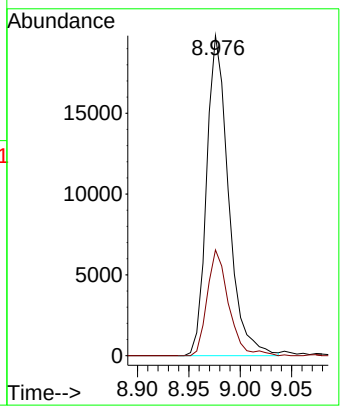




#53
t-1,3-Dichloropropene
Concen: 18.242 ug/l
RT: 8.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion: 75 Resp: 2941

Ion	Ratio	Lower	Upper
75	100		
77	33.1	25.4	38.0



Instrument :
MSVOA_X
ClientSampleId :
VX0402WBSD01

Manual Integrations
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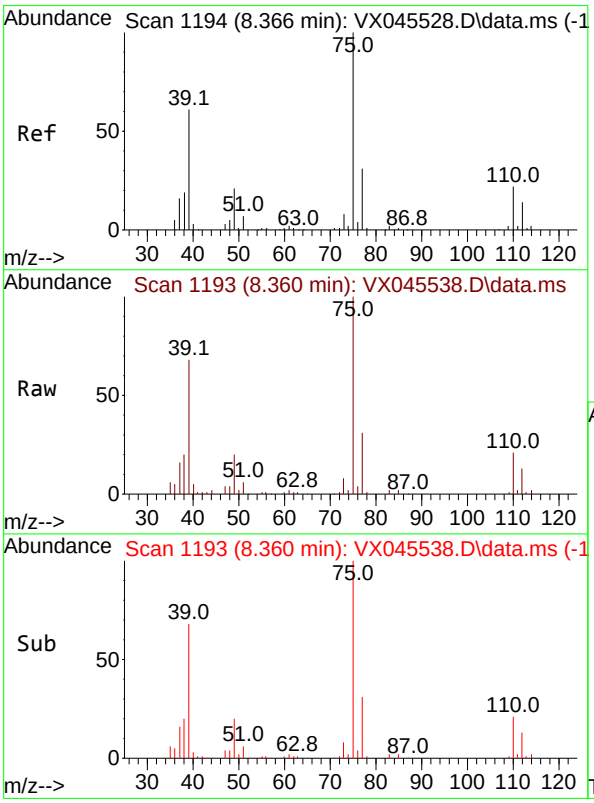
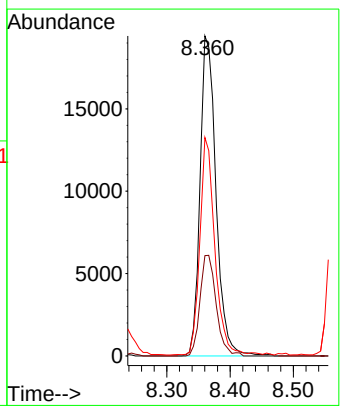
Reviewed By :John Carlone 04/03/2025
Supervised By :Mahesh Dadoda 04/03/2025

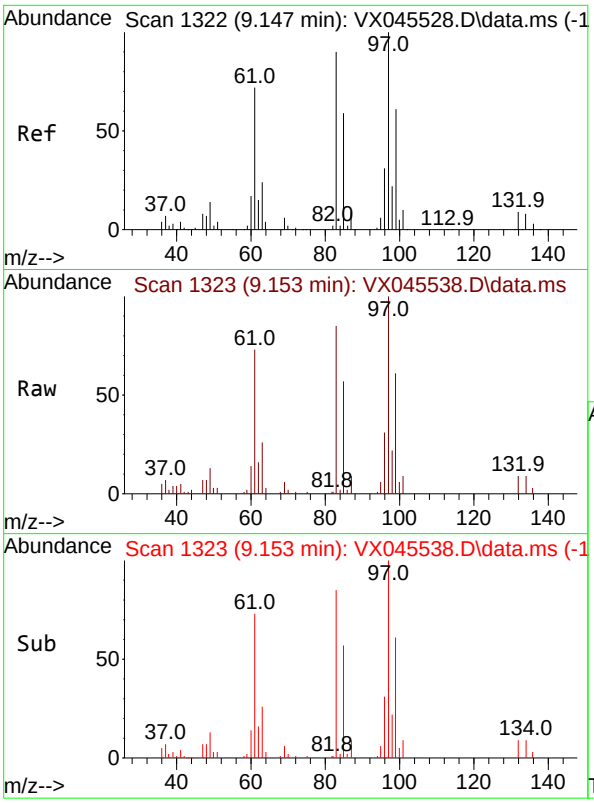


#54
cis-1,3-Dichloropropene
Concen: 19.867 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. -0.006 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion: 75 Resp: 34155

Ion	Ratio	Lower	Upper
75	100		
77	31.3	24.6	36.8
39	67.8	48.4	72.6

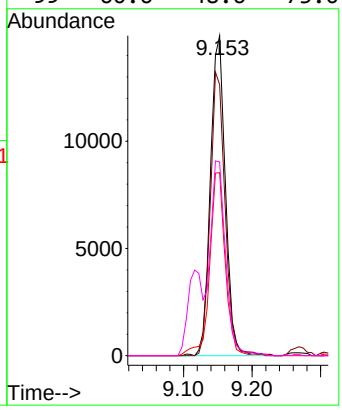




#55
1,1,2-Trichloroethane
Concen: 19.656 ug/l
RT: 9.153 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion: 97 Resp: 2266

Ion	Ratio	Lower	Upper
97	100		
83	84.7	71.8	107.8
85	57.2	47.0	70.6
99	60.6	48.6	73.0



Instrument :
MSVOA_X
ClientSampleId :
VX0402WBSD01

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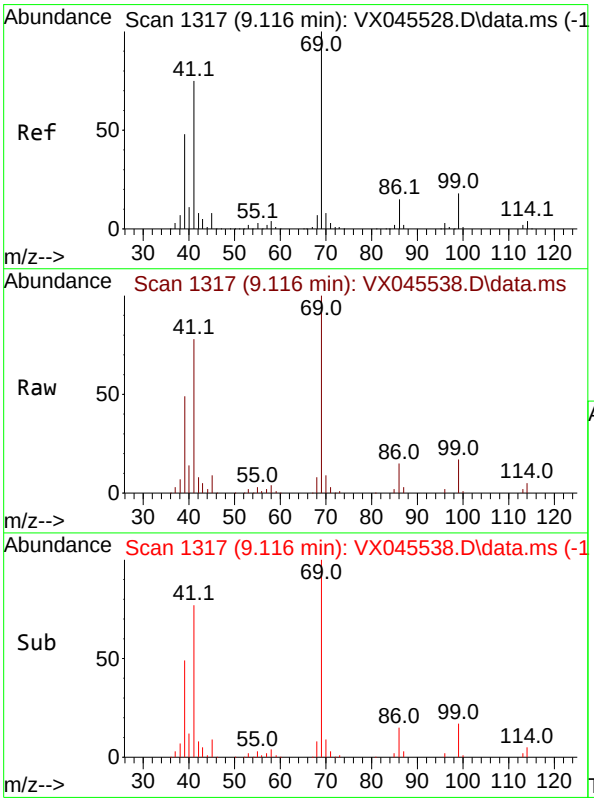
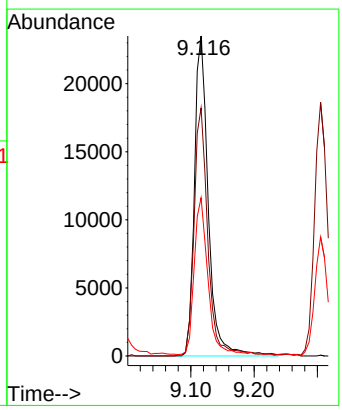
Reviewed By :John Carlone 04/03/2025
Supervised By :Mahesh Dadoda 04/03/2025

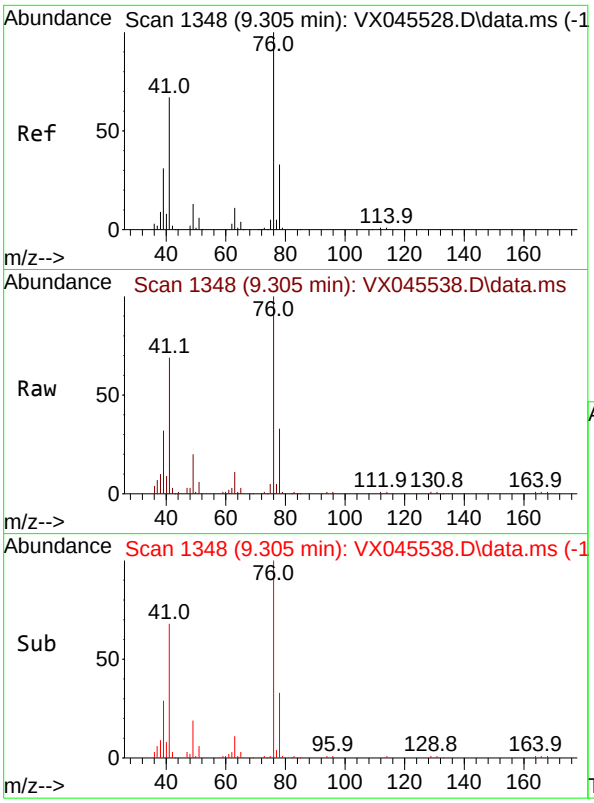


#56
Ethyl methacrylate
Concen: 20.098 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion: 69 Resp: 35872

Ion	Ratio	Lower	Upper
69	100		
41	77.1	61.3	91.9
39	49.5	40.2	60.2

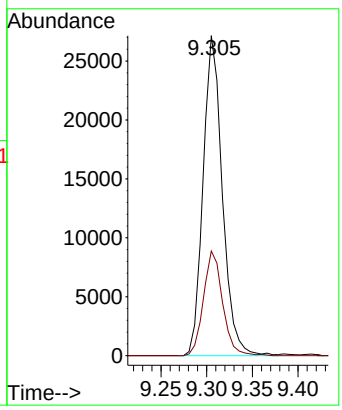




#57
1,3-Dichloropropane
Concen: 19.775 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion: 76 Resp: 3971

Ion	Ratio	Lower	Upper
76	100		
78	32.5	26.0	39.0



Instrument :
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ClientSampleId :
VX0402WBSD01

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Reviewed By :John Carlone 04/03/2025
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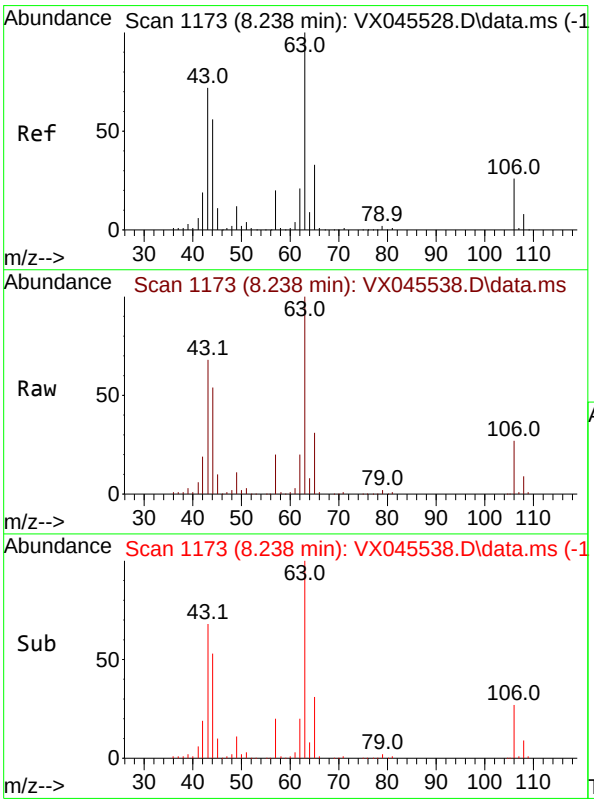
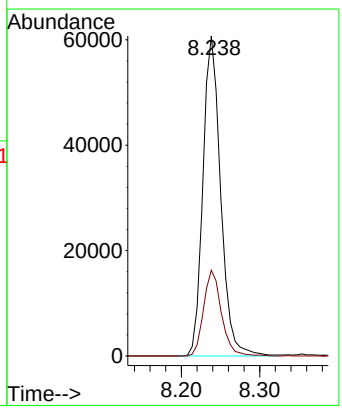
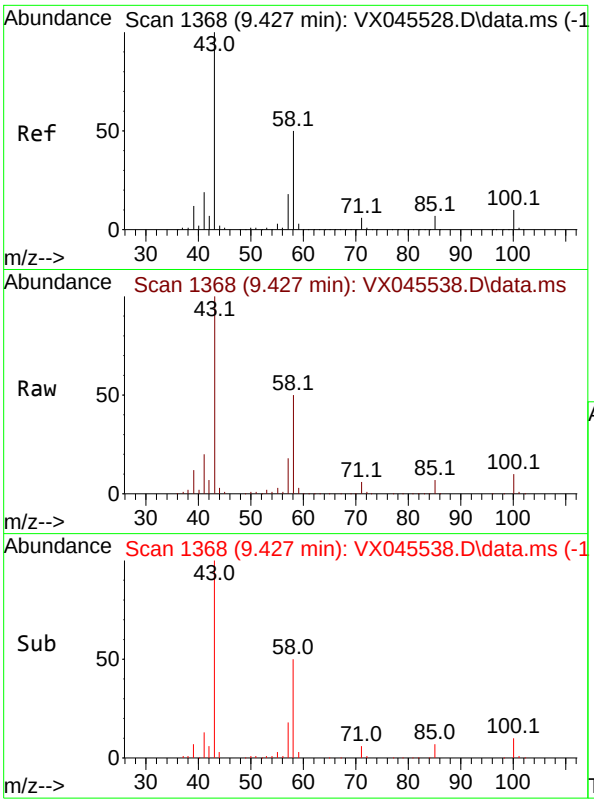


#58
2-Chloroethyl Vinyl ether
Concen: 105.724 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion: 63 Resp: 95458

Ion	Ratio	Lower	Upper
63	100		
106	26.8	21.0	31.6

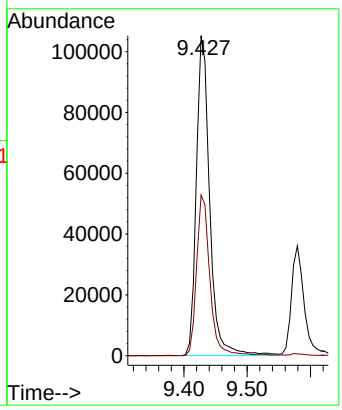




#59
2-Hexanone
Concen: 105.333 ug/l
RT: 9.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion: 43 Resp: 15467

Ion	Ratio	Lower	Upper
43	100		
58	49.8	24.9	74.6



Instrument :
MSVOA_X
ClientSampleId :
VX0402WBSD01

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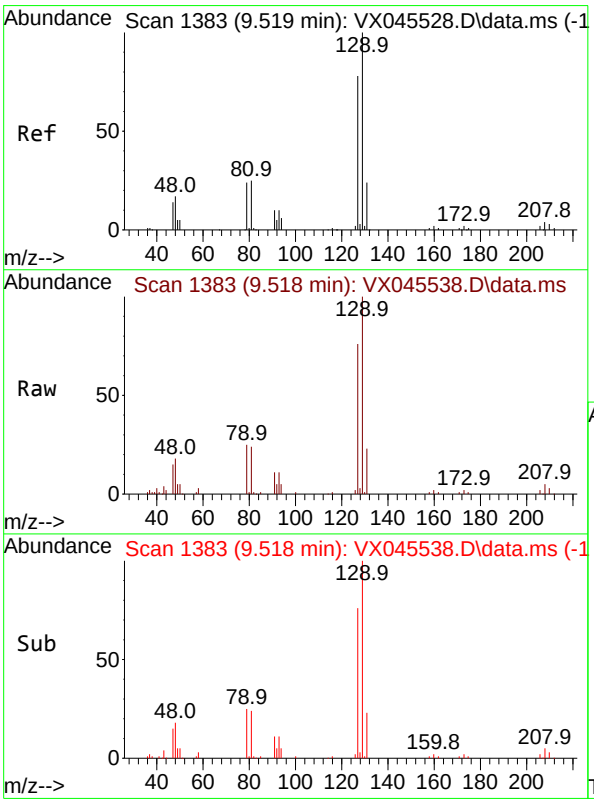
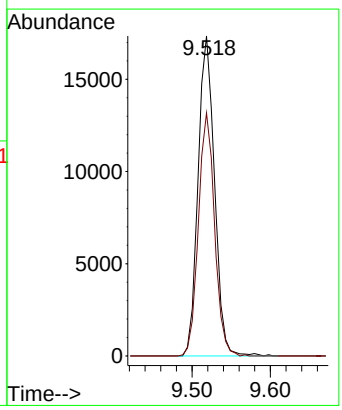
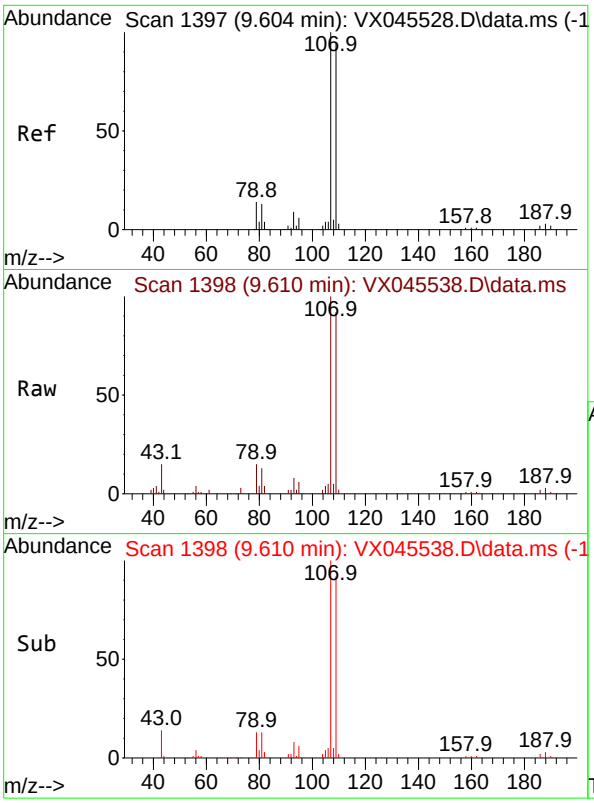


#60
Dibromochloromethane
Concen: 20.142 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion:129 Resp: 25325

Ion	Ratio	Lower	Upper
129	100		
127	74.7	39.4	118.2

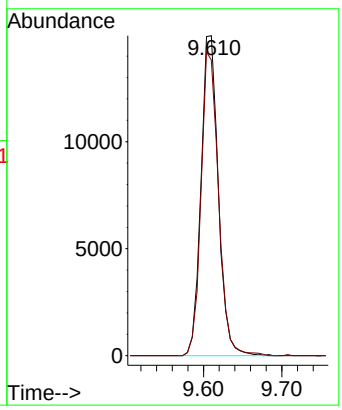




#61
1,2-Dibromoethane
Concen: 19.636 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion:107 Resp: 2292

Ion	Ratio	Lower	Upper
107	100		
109	95.8	75.7	113.5



Instrument :
MSVOA_X
ClientSampleId :
VX0402WBSD01

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Reviewed By :John Carlone 04/03/2025
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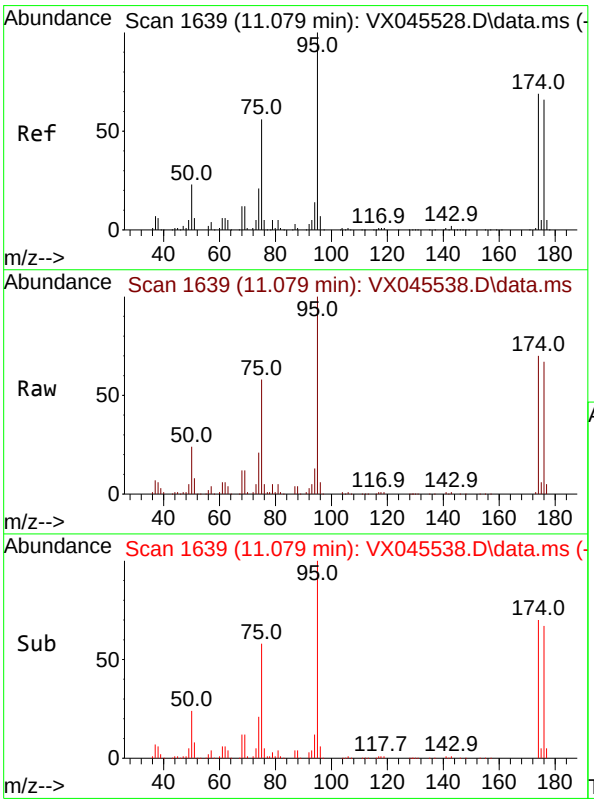
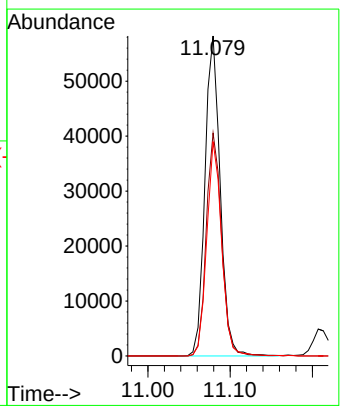
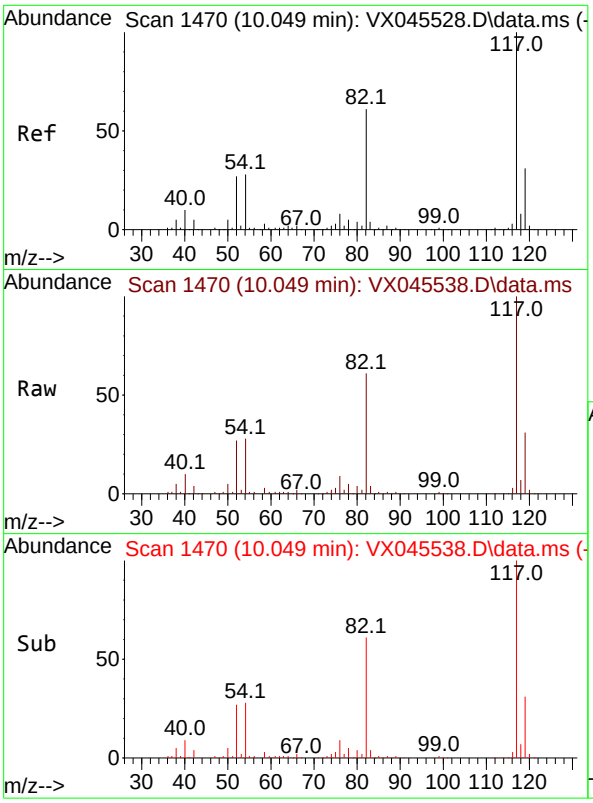


#62
4-Bromofluorobenzene
Concen: 50.831 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion: 95 Resp: 74958

Ion	Ratio	Lower	Upper
95	100		
174	69.6	0.0	135.8
176	65.4	0.0	131.4

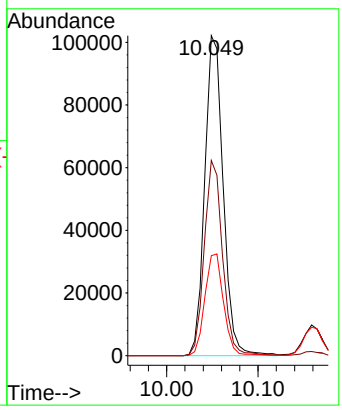




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion:117 Resp: 14276

Ion	Ratio	Lower	Upper
117	100		
82	61.0	49.2	73.8
119	31.2	25.1	37.7



Instrument :
MSVOA_X
ClientSampleId :
VX0402WBSD01

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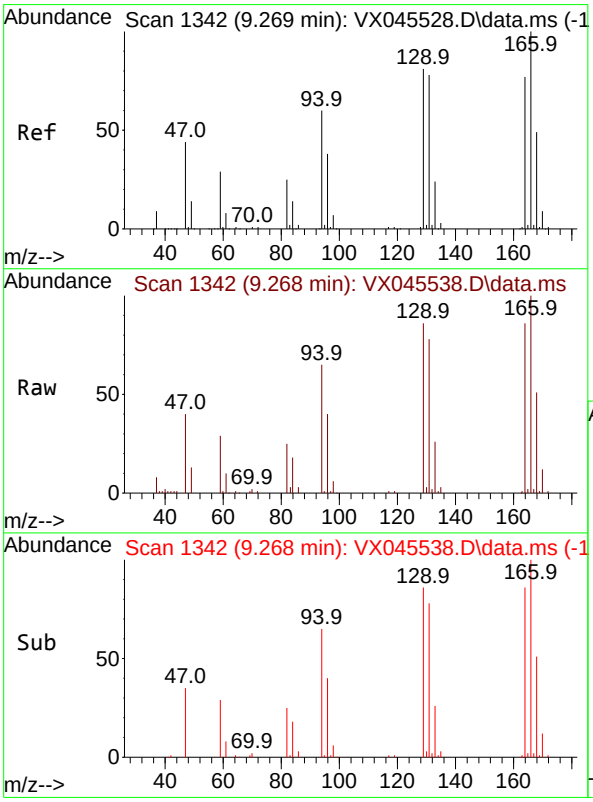
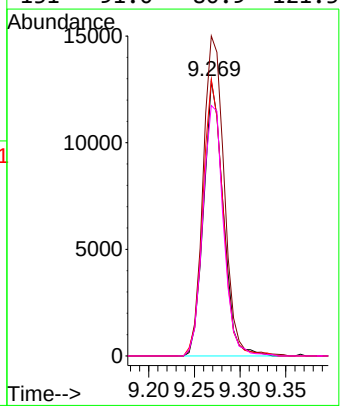
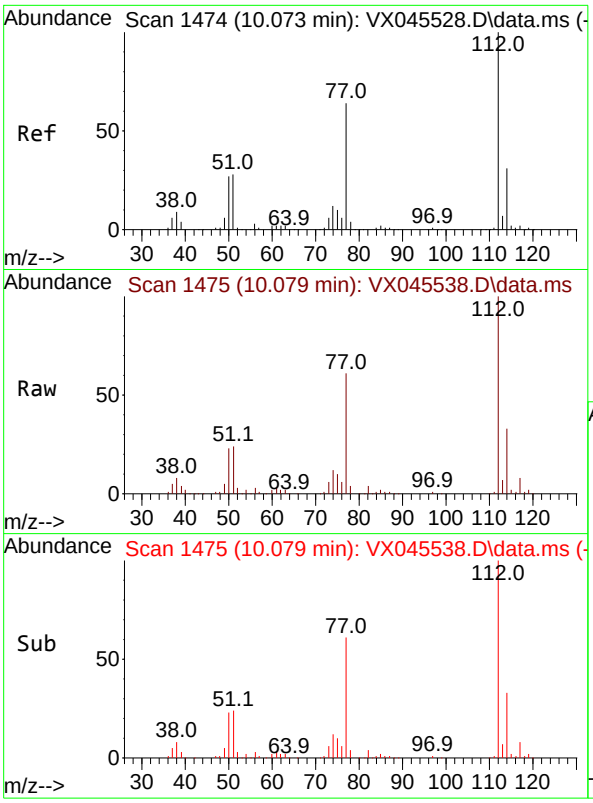


#64
Tetrachloroethene
Concen: 19.015 ug/l
RT: 9.268 min Scan# 1342
Delta R.T. -0.001 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion:164 Resp: 19167

Ion	Ratio	Lower	Upper
164	100		
166	116.3	103.8	155.8
129	100.5	84.3	126.5
131	91.0	80.9	121.3

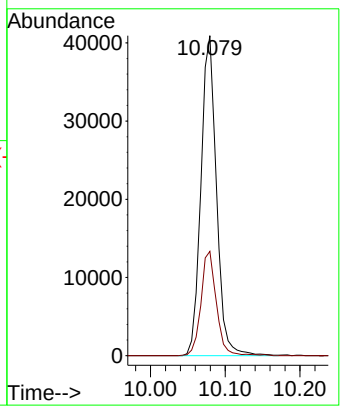




#65
Chlorobenzene
Concen: 19.369 ug/l
RT: 10.079 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion:112 Resp: 5909

Ion	Ratio	Lower	Upper
112	100		
114	32.6	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
VX0402WBSD01

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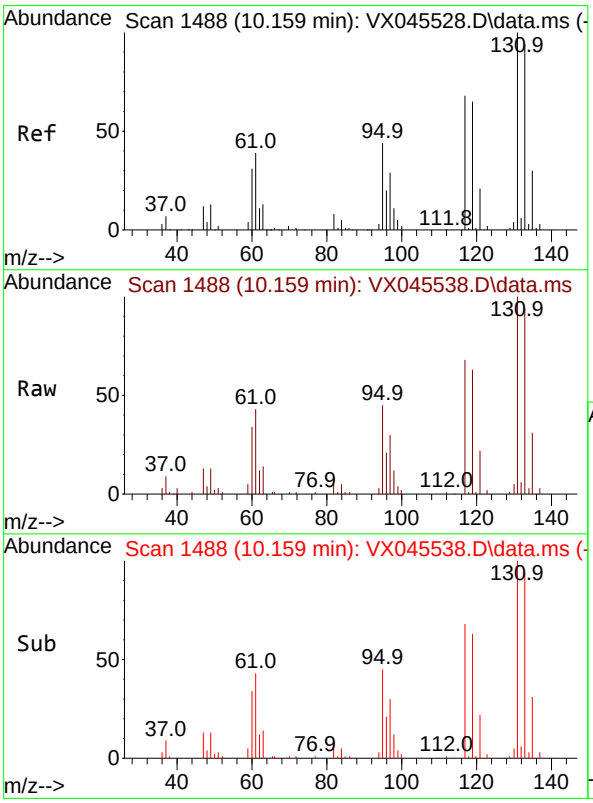
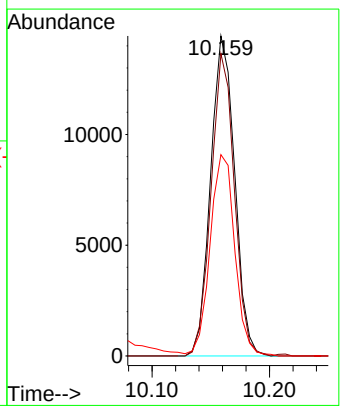
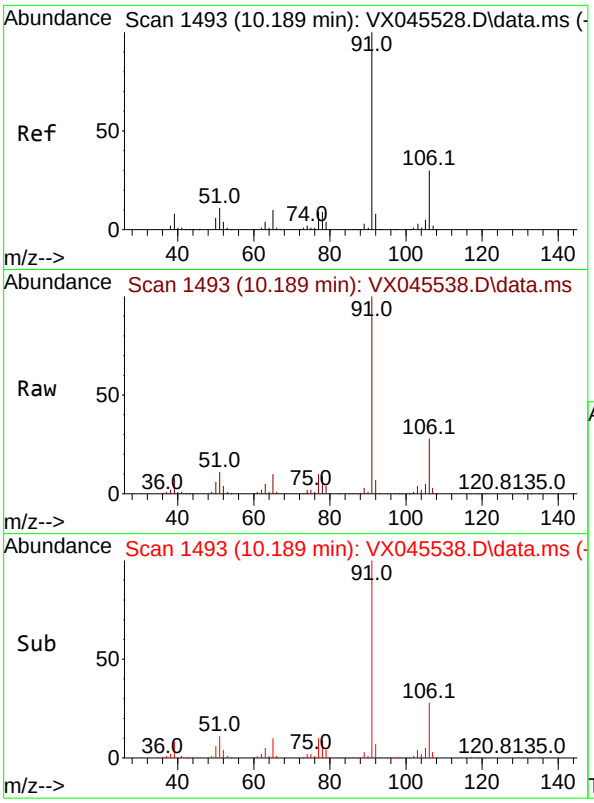


#66
1,1,1,2-Tetrachloroethane
Concen: 19.438 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion:131 Resp: 20588

Ion	Ratio	Lower	Upper
131	100		
133	91.3	47.5	142.5
119	64.4	32.9	98.6

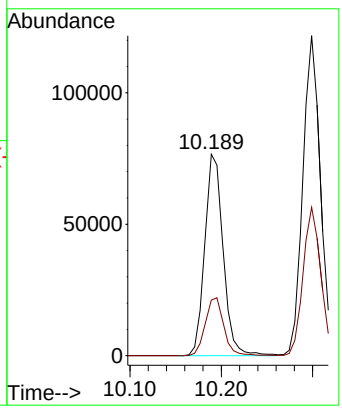




#67
Ethyl Benzene
Concen: 19.586 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion: 91 Resp: 10701

Ion	Ratio	Lower	Upper
91	100		
106	27.5	23.7	35.5



Instrument :
MSVOA_X
ClientSampleId :
VX0402WBSD01

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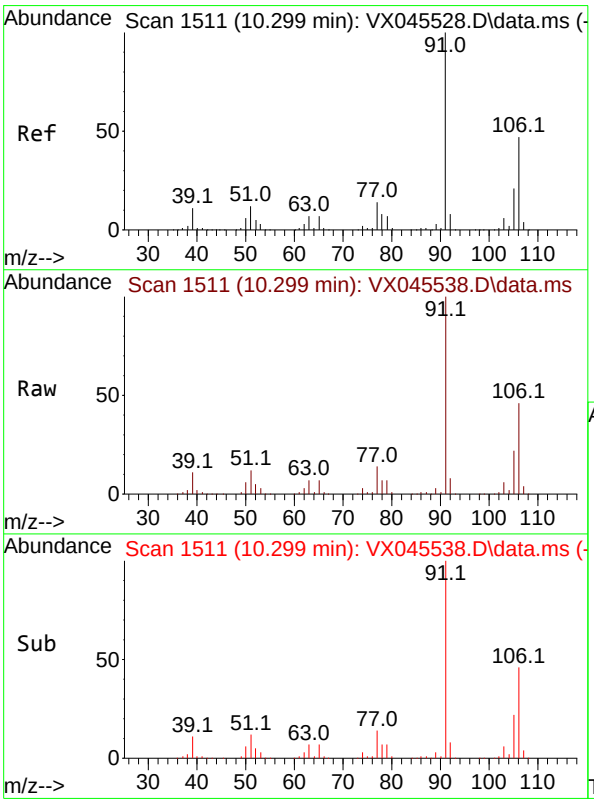
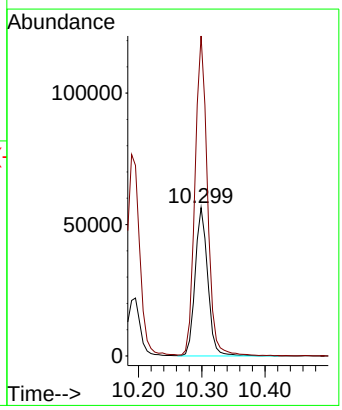
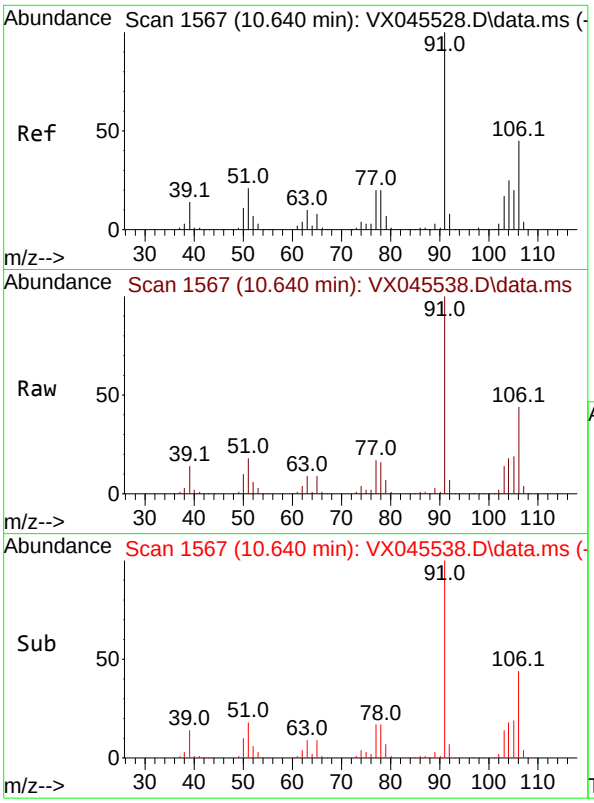


#68
m/p-Xylenes
Concen: 39.423 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion:106 Resp: 78342

Ion	Ratio	Lower	Upper
106	100		
91	213.4	172.6	258.8

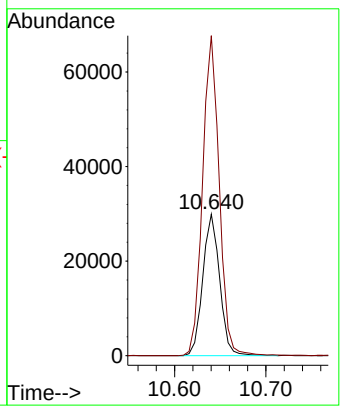




#69
o-Xylene
Concen: 19.631 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion:106 Resp: 3843

Ion	Ratio	Lower	Upper
106	100		
91	223.0	113.6	340.6



Instrument :
MSVOA_X
ClientSampleId :
VX0402WBSD01

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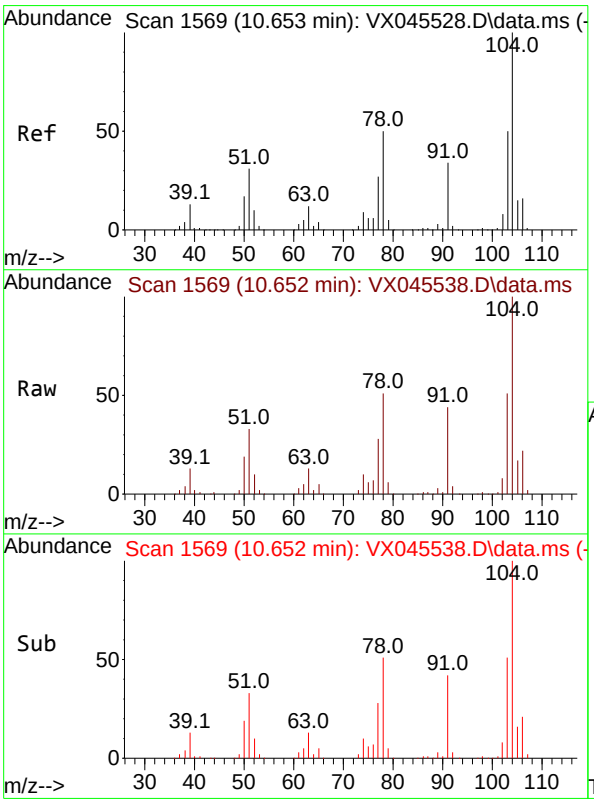
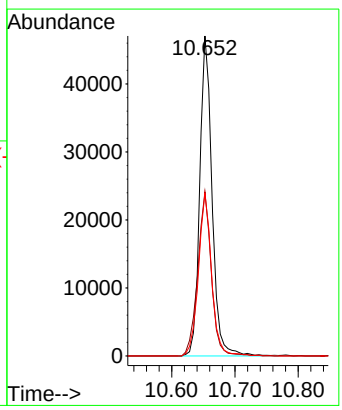
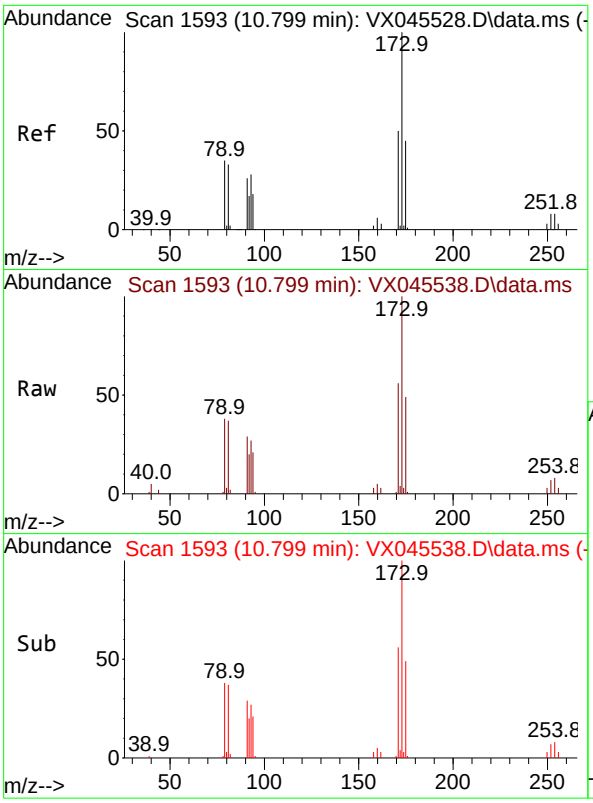


#70
Styrene
Concen: 19.748 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion:104 Resp: 63808

Ion	Ratio	Lower	Upper
104	100		
78	56.7	45.4	68.2
103	54.7	43.8	65.8

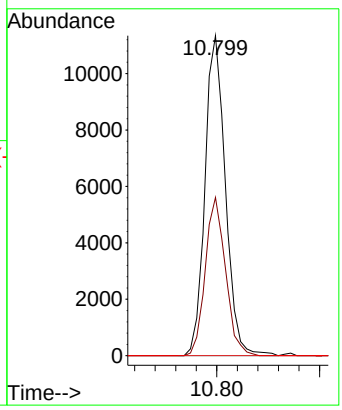




#71
Bromoform
Concen: 19.836 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion:173 Resp: 1568

Ion	Ratio	Lower	Upper
173	100		
175	49.0	23.4	70.2
254	0.0	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
VX0402WBSD01

Manual Integrations
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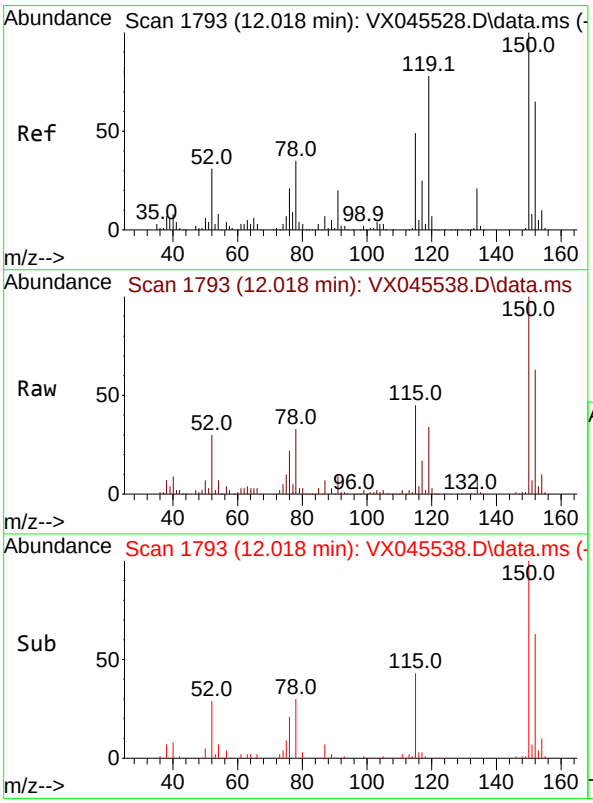
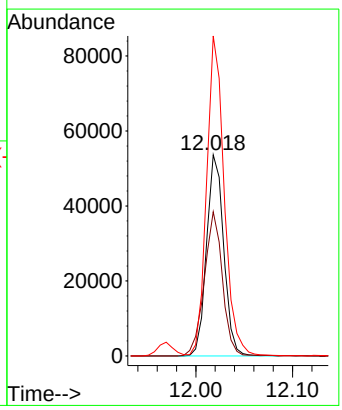
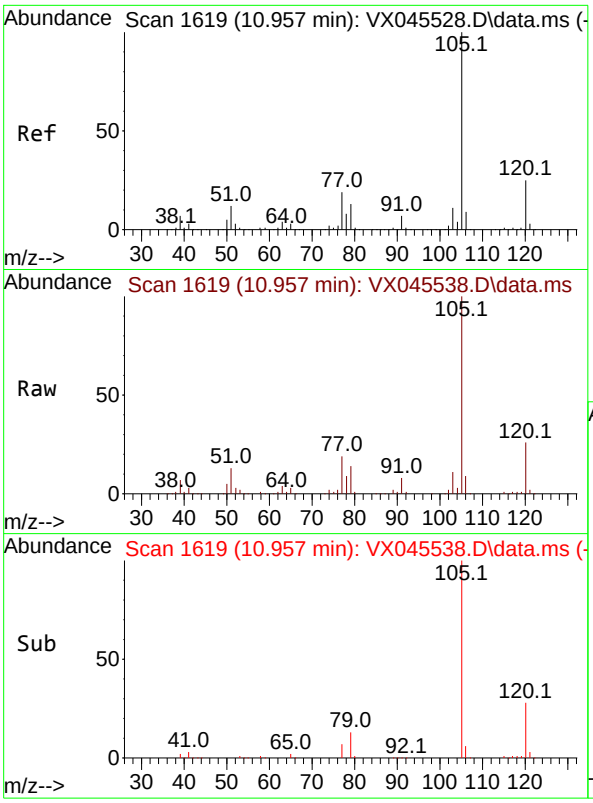


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion:152 Resp: 66275

Ion	Ratio	Lower	Upper
152	100		
115	75.7	46.9	140.7
150	163.4	0.0	349.4





#73
Isopropylbenzene
Concen: 19.166 ug/l
RT: 10.957 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion:105 Resp: 10174

Ion	Ratio	Lower	Upper
105	100		
120	25.3	12.7	38.0

Instrument :
MSVOA_X
ClientSampleId :
VX0402WBSD01

Manual Integrations
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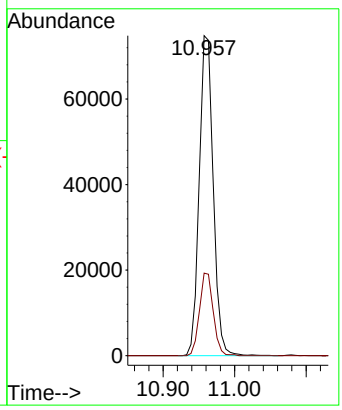
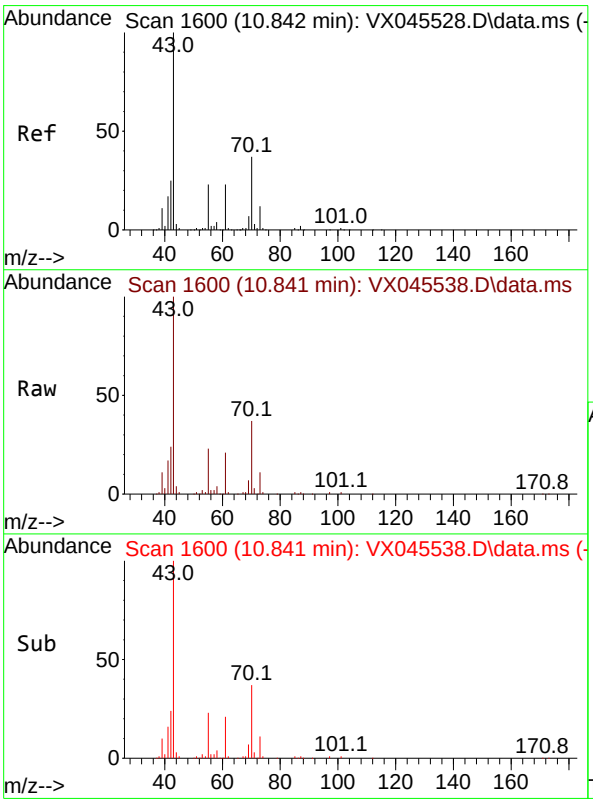
Reviewed By :John Carlone 04/03/2025
Supervised By :Mahesh Dadoda 04/03/2025

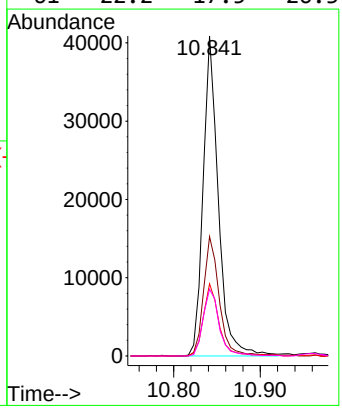


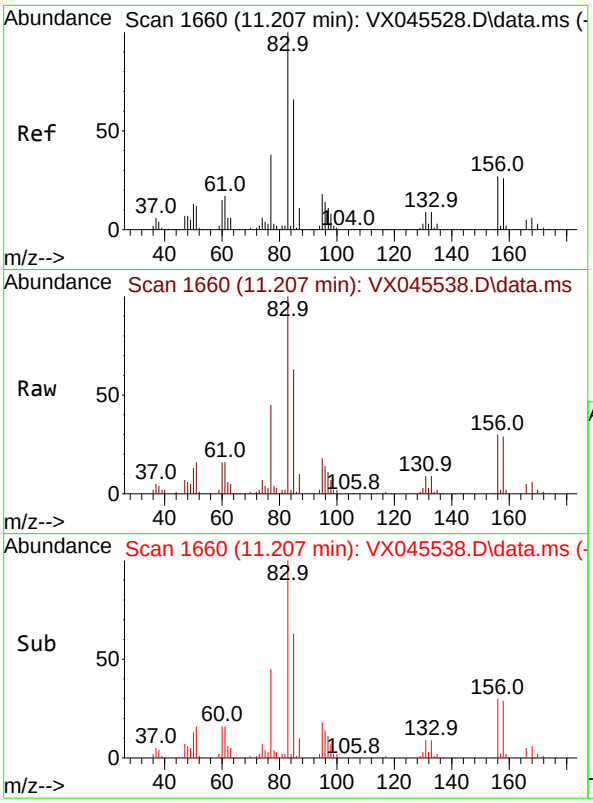


#74
N-amyl acetate
Concen: 19.657 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion: 43 Resp: 49916

Ion	Ratio	Lower	Upper
43	100		
70	38.7	30.1	45.1
55	23.3	18.3	27.5
61	22.2	17.5	26.3





#75
1,1,2,2-Tetrachloroethane
Concen: 19.615 ug/l
RT: 11.207 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion: 83 Resp: 3657

Ion	Ratio	Lower	Upper
83	100		
131	9.0	4.7	14.1
85	64.4	32.4	97.2

Instrument :
MSVOA_X
ClientSampleId :
VX0402WBSD01

Manual Integrations
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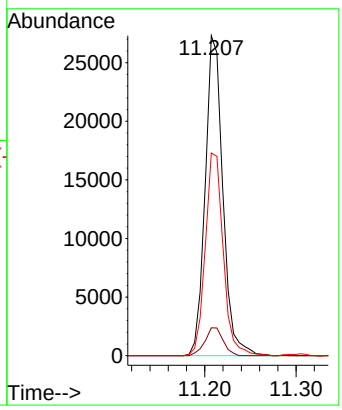
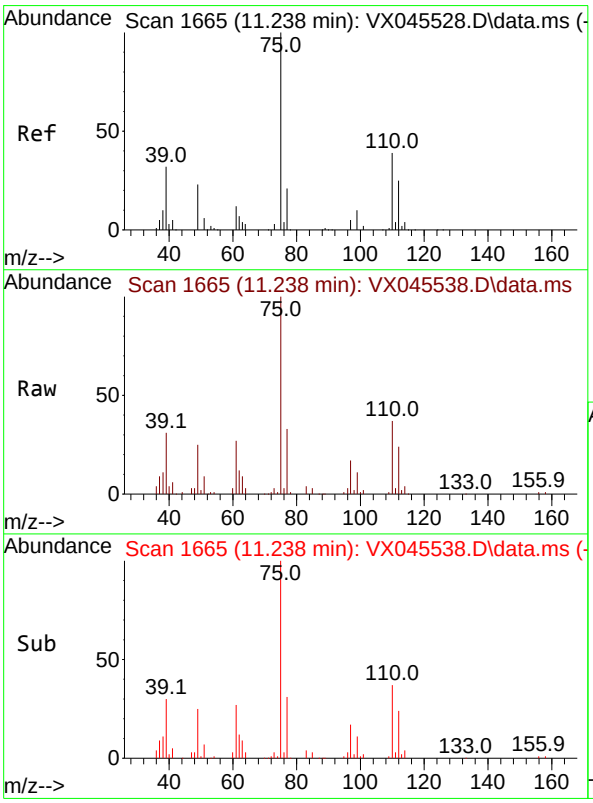
Reviewed By :John Carlone 04/03/2025
Supervised By :Mahesh Dadoda 04/03/2025

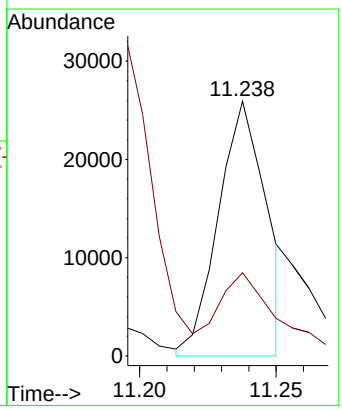


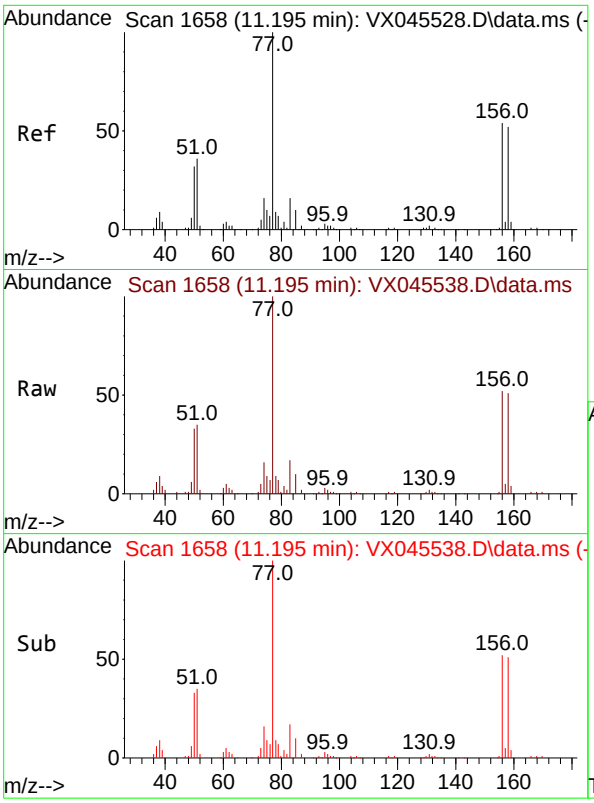


#76
1,2,3-Trichloropropane
Concen: 19.540 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion: 75 Resp: 31588

Ion	Ratio	Lower	Upper
75	100		
77	41.3	20.0	59.9

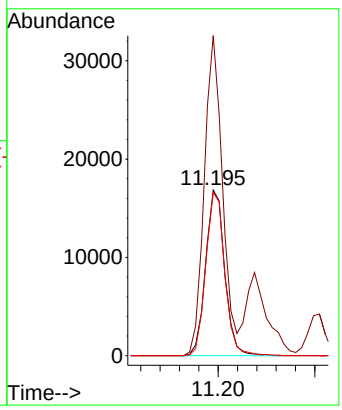




#77
Bromobenzene
Concen: 18.848 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion:156 Resp: 2311

Ion	Ratio	Lower	Upper
156	100		
77	184.3	92.6	277.8
158	97.8	48.1	144.4



Instrument :
MSVOA_X
ClientSampleId :
VX0402WBSD01

Manual Integrations
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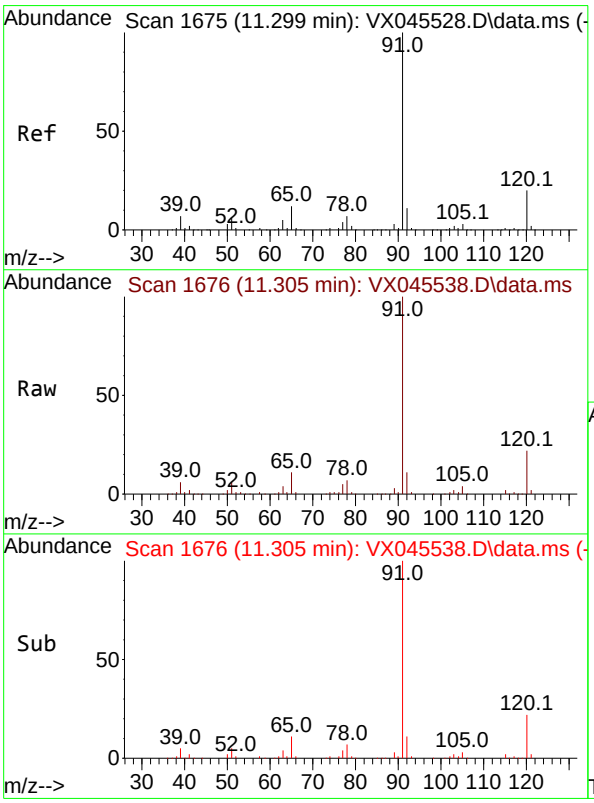
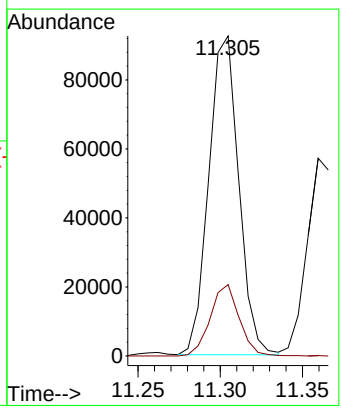
Reviewed By :John Carlone 04/03/2025
Supervised By :Mahesh Dadoda 04/03/2025

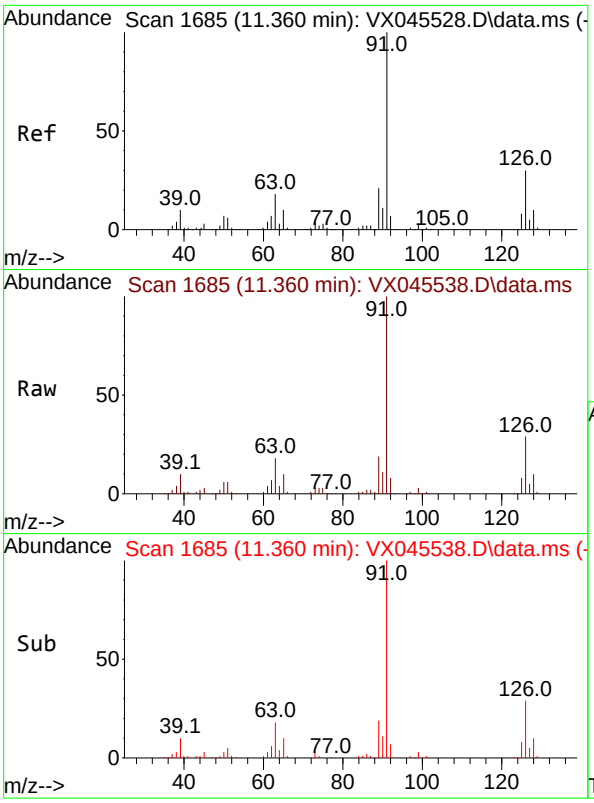


#78
n-propylbenzene
Concen: 19.179 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.006 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion: 91 Resp: 117276

Ion	Ratio	Lower	Upper
91	100		
120	21.6	10.8	32.3

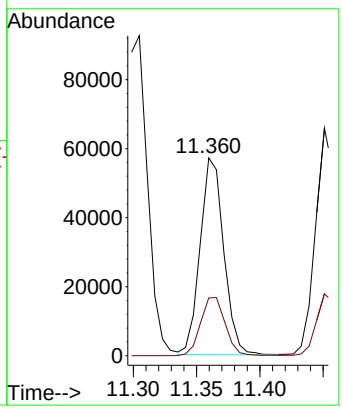




#79
2-Chlorotoluene
Concen: 19.019 ug/l
RT: 11.360 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion: 91 Resp: 7434

Ion	Ratio	Lower	Upper
91	100		
126	31.0	15.8	47.4



Instrument :
MSVOA_X
ClientSampleId :
VX0402WBSD01

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Reviewed By :John Carlone 04/03/2025
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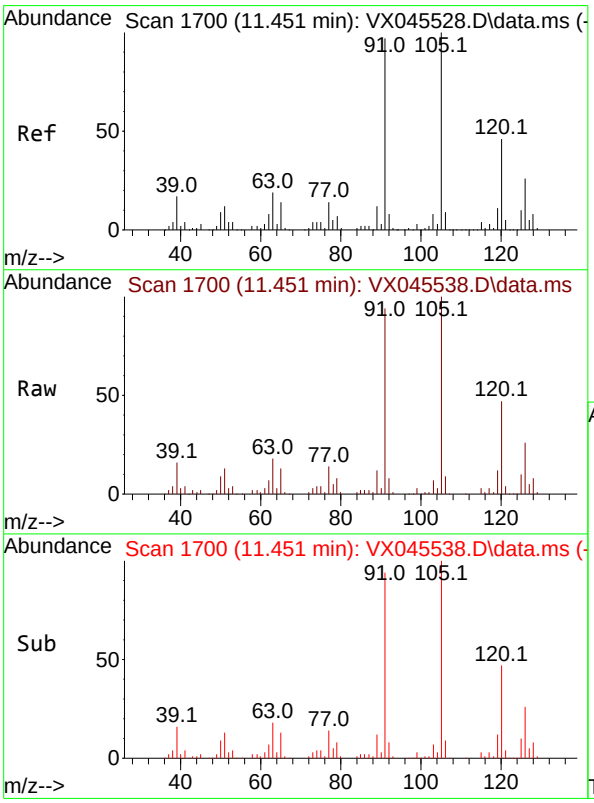
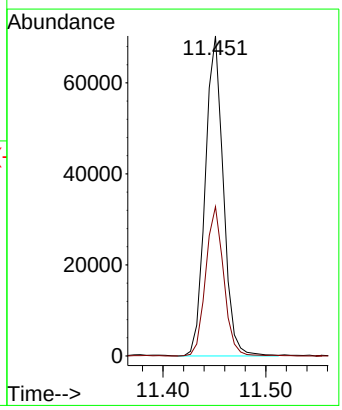
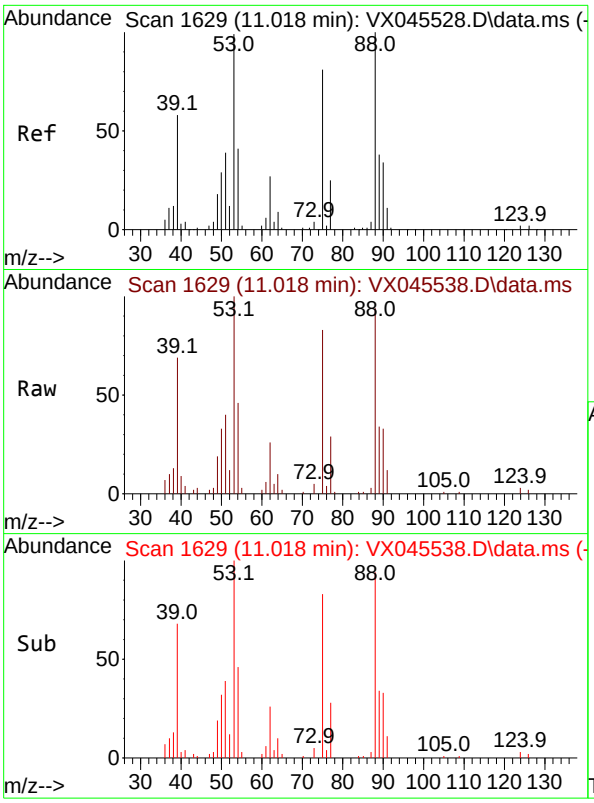


#80
1,3,5-Trimethylbenzene
Concen: 19.595 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion:105 Resp: 86019

Ion	Ratio	Lower	Upper
105	100		
120	46.5	23.0	69.0





#81
trans-1,4-Dichloro-2-butene
Concen: 19.222 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion: 75 Resp: 915

Ion	Ratio	Lower	Upper
75	100		
53	122.7	101.8	152.6
89	43.5	37.2	55.8

Instrument :
MSVOA_X
ClientSampleId :
VX0402WBSD01

Manual Integrations
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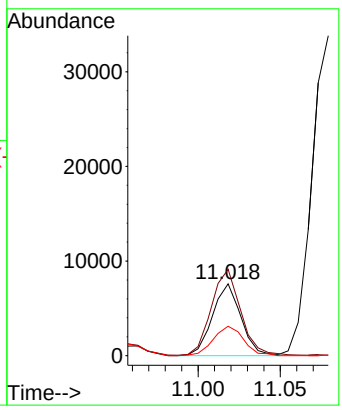
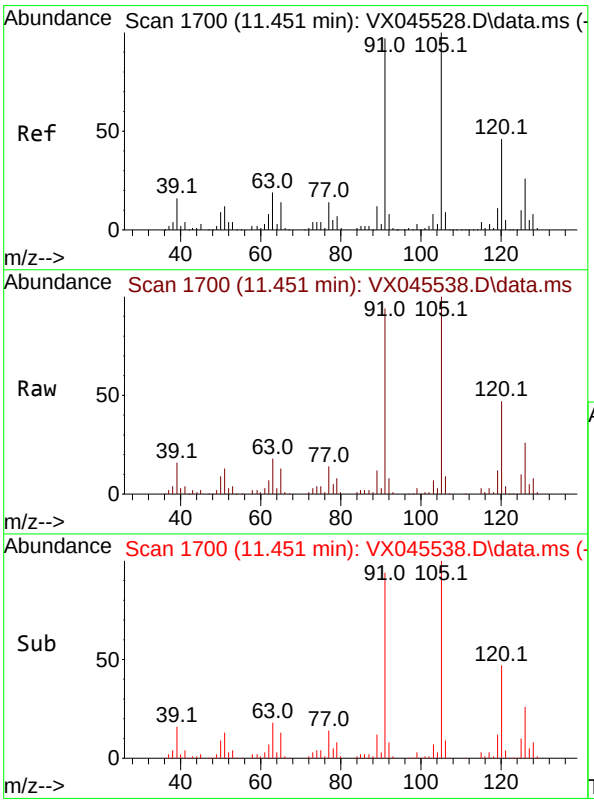
Reviewed By :John Carlone 04/03/2025
Supervised By :Mahesh Dadoda 04/03/2025

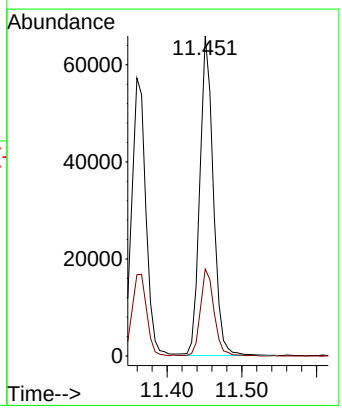


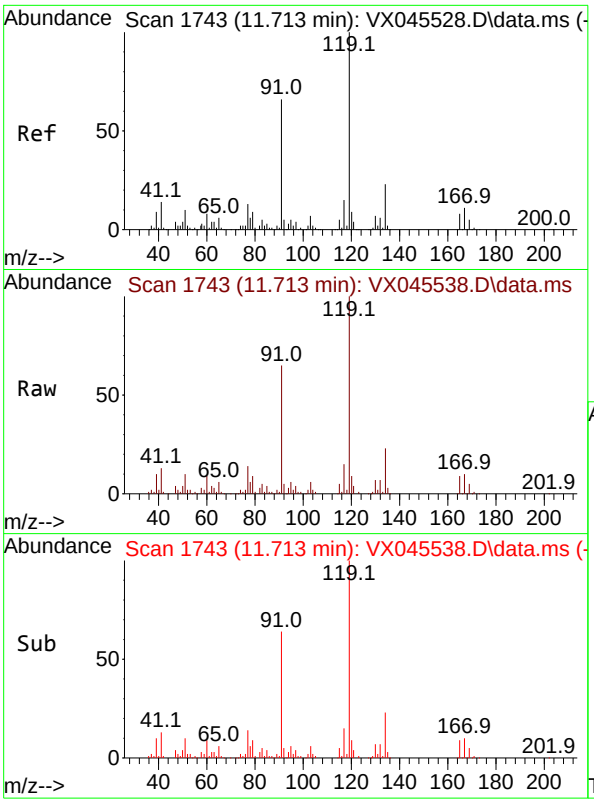


#82
4-Chlorotoluene
Concen: 18.909 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion: 91 Resp: 82413

Ion	Ratio	Lower	Upper
91	100		
126	27.6	13.3	39.9

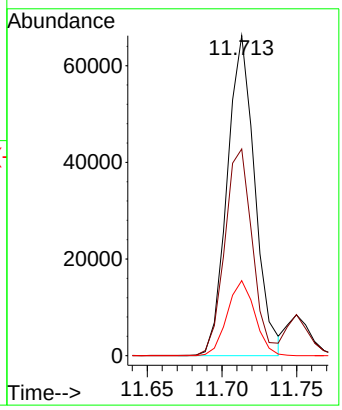




#83
tert-Butylbenzene
Concen: 19.563 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion:119 Resp: 8502

Ion	Ratio	Lower	Upper
119	100		
91	65.4	32.4	97.2
134	23.4	11.5	34.5



Instrument :
MSVOA_X
ClientSampleId :
VX0402WBSD01

Manual Integrations
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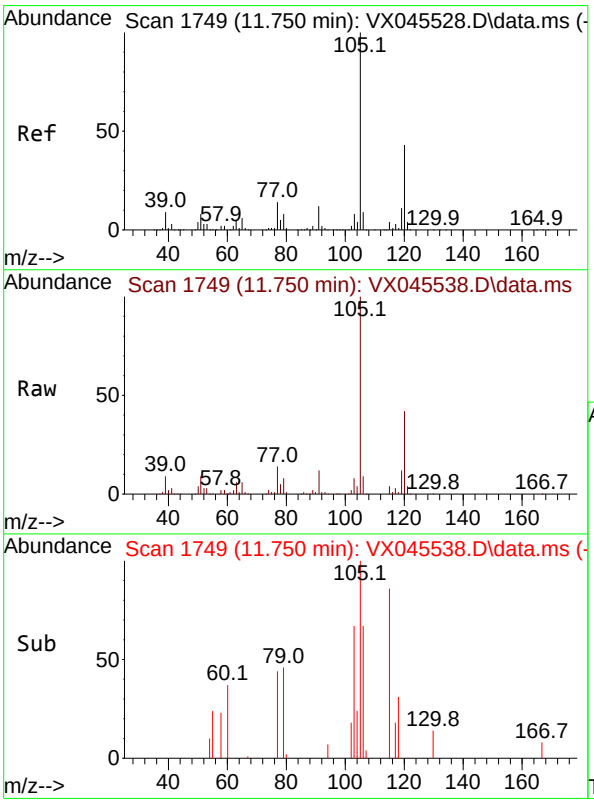
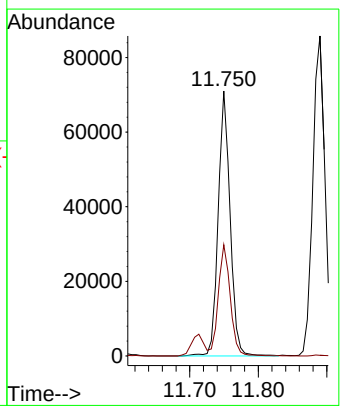
Reviewed By :John Carlone 04/03/2025
Supervised By :Mahesh Dadoda 04/03/2025

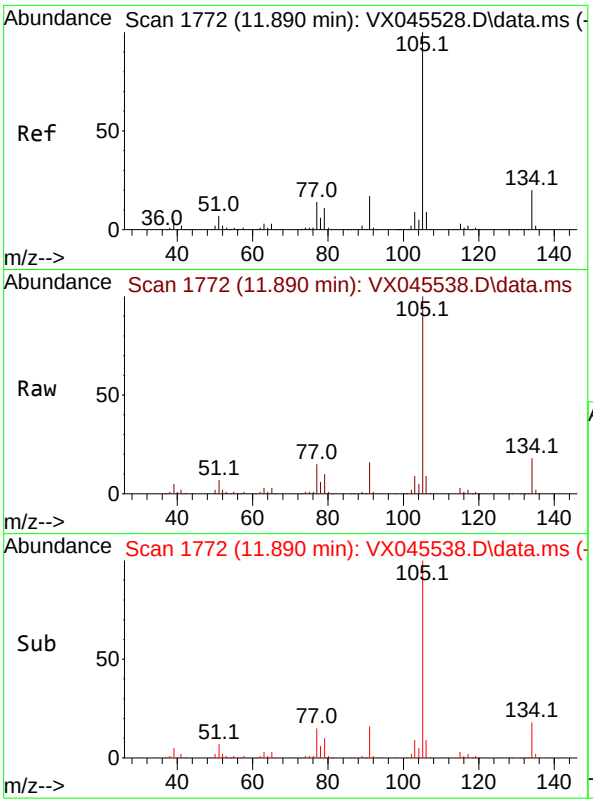


#84
1,2,4-Trimethylbenzene
Concen: 19.437 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion:105 Resp: 85641

Ion	Ratio	Lower	Upper
105	100		
120	42.3	21.4	64.3





#85
sec-Butylbenzene
Concen: 19.680 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion:105 Resp: 10505

Ion	Ratio	Lower	Upper
105	100		
134	19.0	9.6	28.6

Instrument :
MSVOA_X
ClientSampleId :
VX0402WBSD01

Manual Integrations
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Reviewed By :John Carlone 04/03/2025
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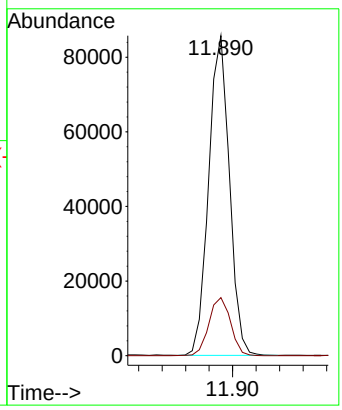
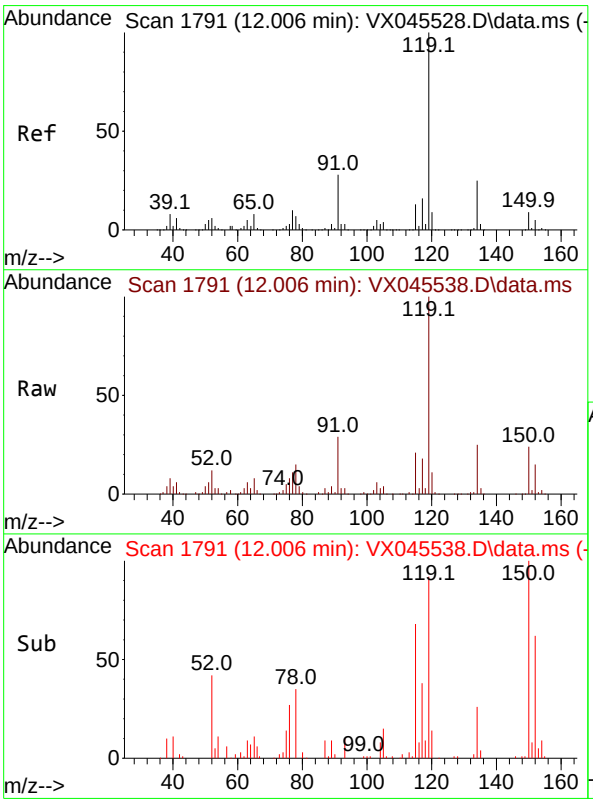
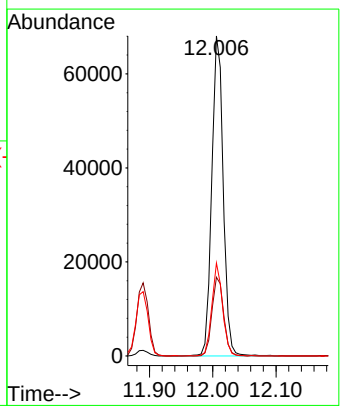


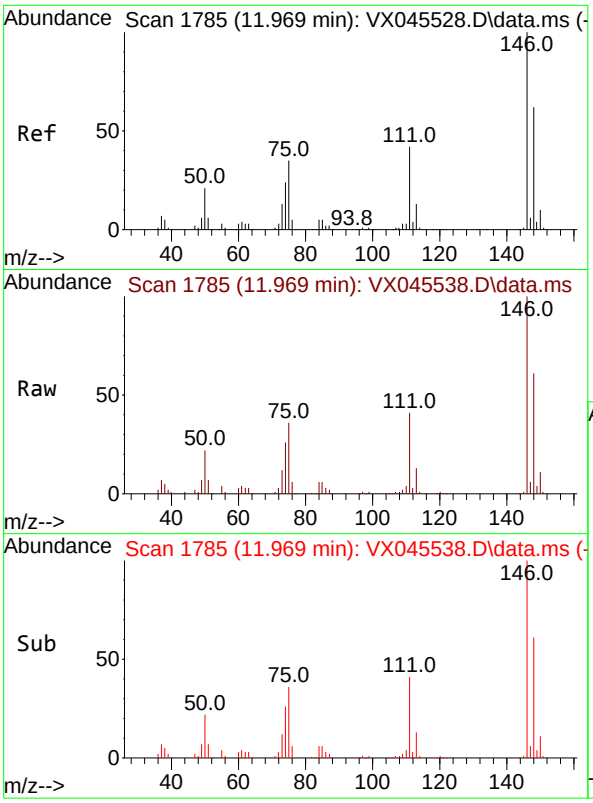


#86
p-Isopropyltoluene
Concen: 19.440 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion:119 Resp: 85554

Ion	Ratio	Lower	Upper
119	100		
134	25.1	12.6	37.8
91	27.2	13.7	41.1

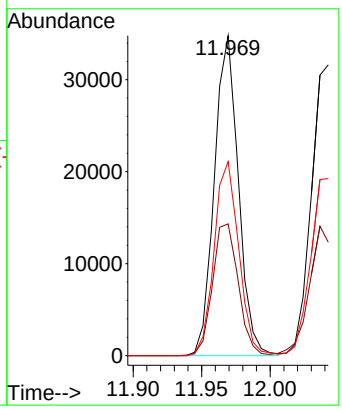




#87
1,3-Dichlorobenzene
Concen: 19.013 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion:146 Resp: 4245

Ion	Ratio	Lower	Upper
146	100		
111	44.2	22.2	66.6
148	62.1	31.9	95.7



Instrument :
MSVOA_X
ClientSampleId :
VX0402WBSD01

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Reviewed By :John Carlone 04/03/2025
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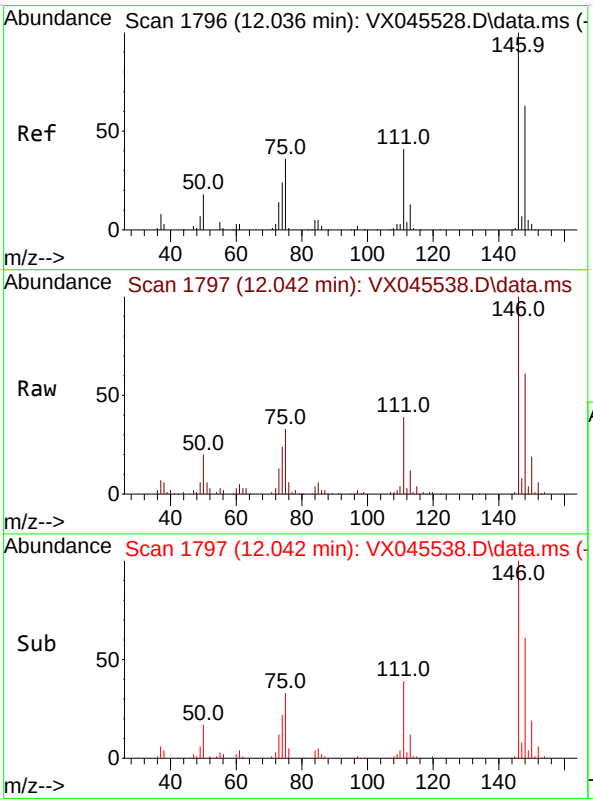
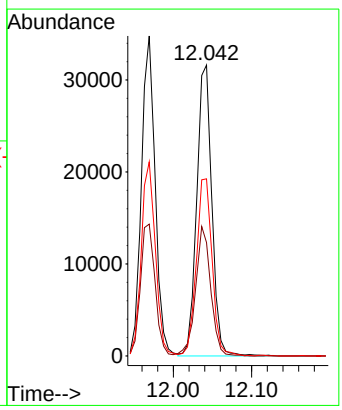
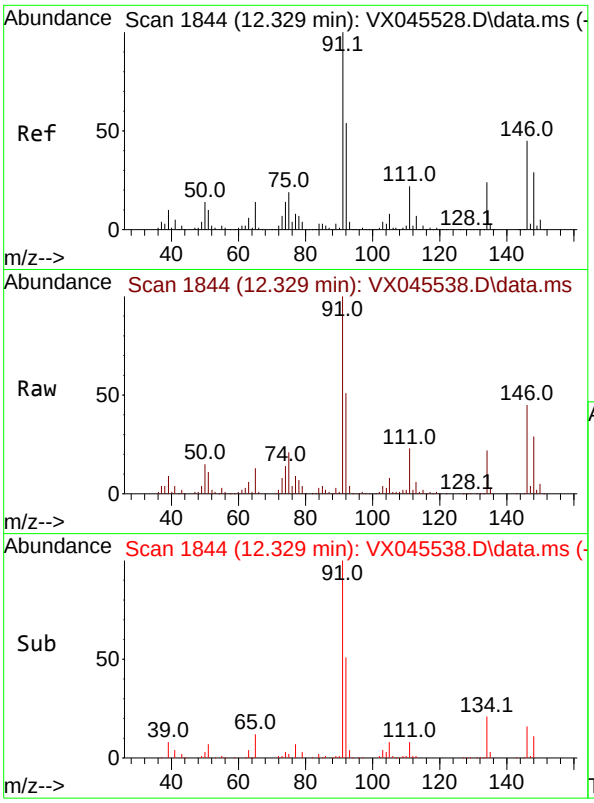


#88
1,4-Dichlorobenzene
Concen: 18.773 ug/l
RT: 12.042 min Scan# 1797
Delta R.T. 0.006 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion:146 Resp: 42495

Ion	Ratio	Lower	Upper
146	100		
111	44.7	20.9	62.8
148	63.7	31.5	94.5

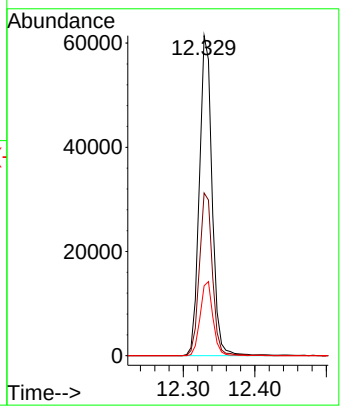




#89
n-Butylbenzene
Concen: 19.864 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion: 91 Resp: 7580

Ion	Ratio	Lower	Upper
91	100		
92	52.0	26.9	80.6
134	23.1	11.9	35.7



Instrument :
MSVOA_X
ClientSampleId :
VX0402WBSD01

Manual Integrations
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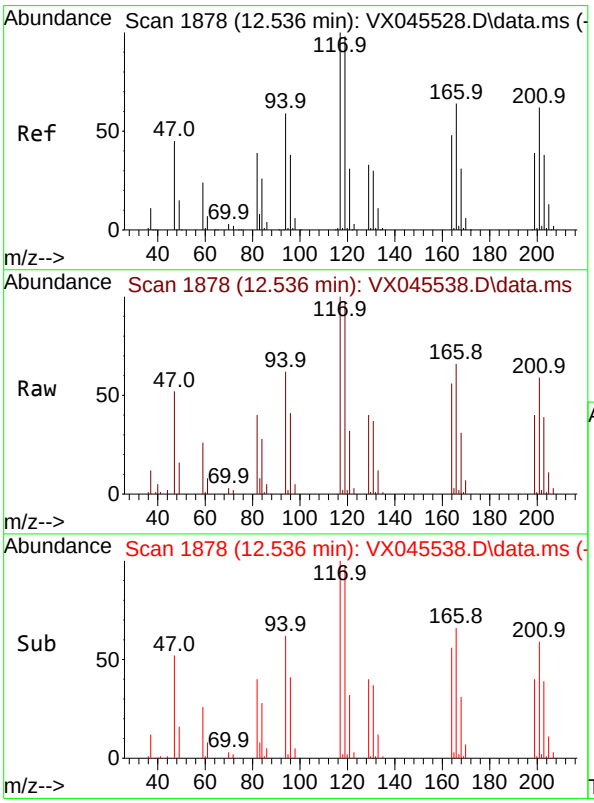
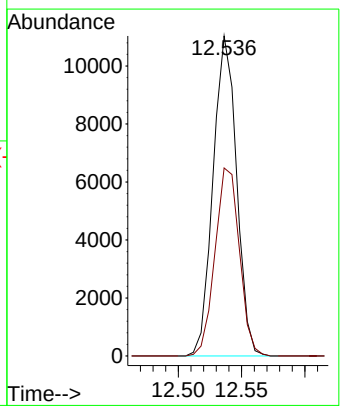
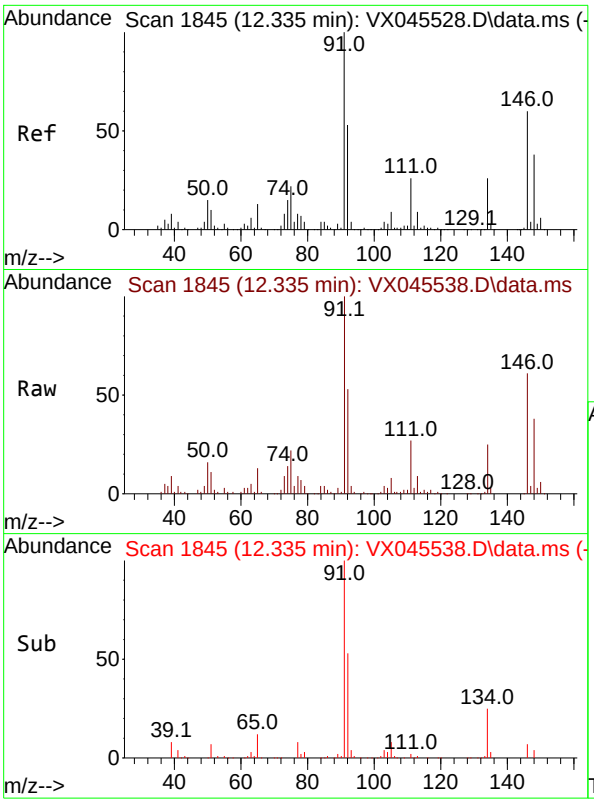


#90
Hexachloroethane
Concen: 18.835 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion:117 Resp: 14245

Ion	Ratio	Lower	Upper
117	100		
201	61.1	31.2	93.6

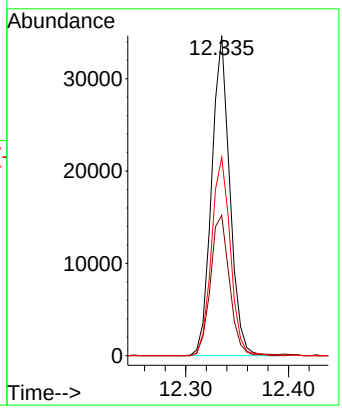




#91
1,2-Dichlorobenzene
Concen: 19.134 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion:146 Resp: 4247

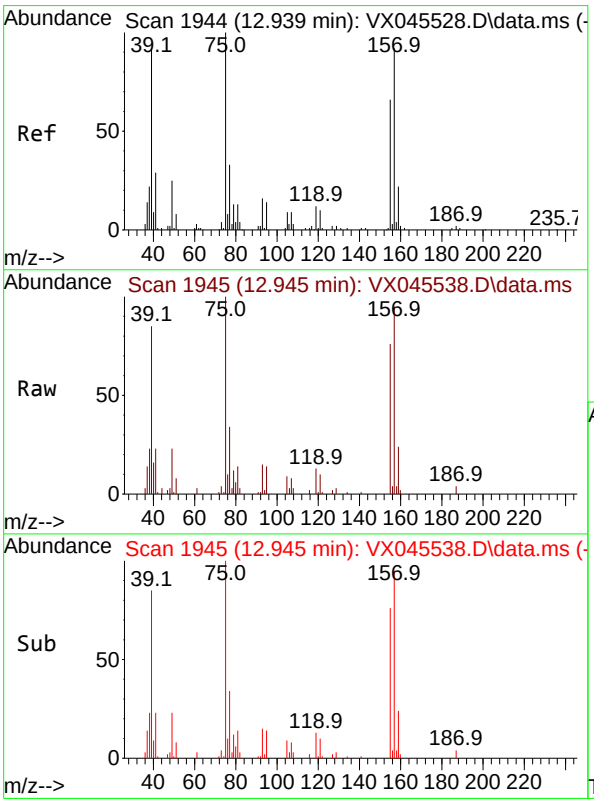
Ion	Ratio	Lower	Upper
146	100		
111	45.8	22.9	68.8
148	64.4	31.9	95.5



Instrument :
MSVOA_X
ClientSampleId :
VX0402WBSD01

Manual Integrations
APPROVED

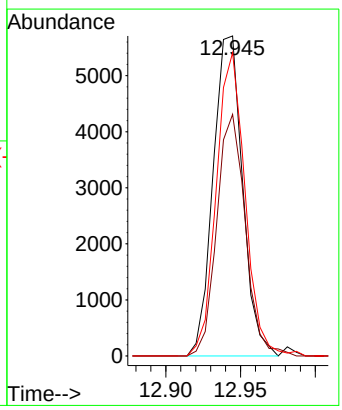
Reviewed By :John Carlone 04/03/2025
Supervised By :Mahesh Dadoda 04/03/2025

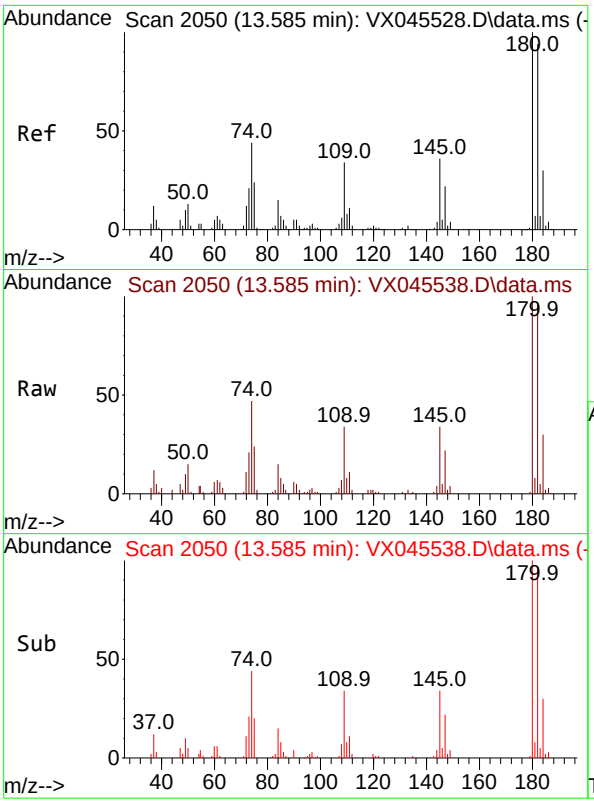


#92
1,2-Dibromo-3-Chloropropane
Concen: 20.025 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. 0.006 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion: 75 Resp: 7810

Ion	Ratio	Lower	Upper
75	100		
155	73.2	34.9	104.7
157	92.7	44.9	134.7

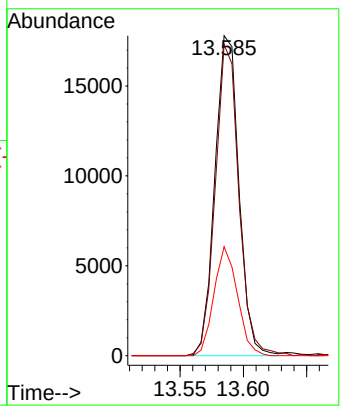




#93
1,2,4-Trichlorobenzene
Concen: 18.982 ug/l
RT: 13.585 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion:180 Resp: 2345

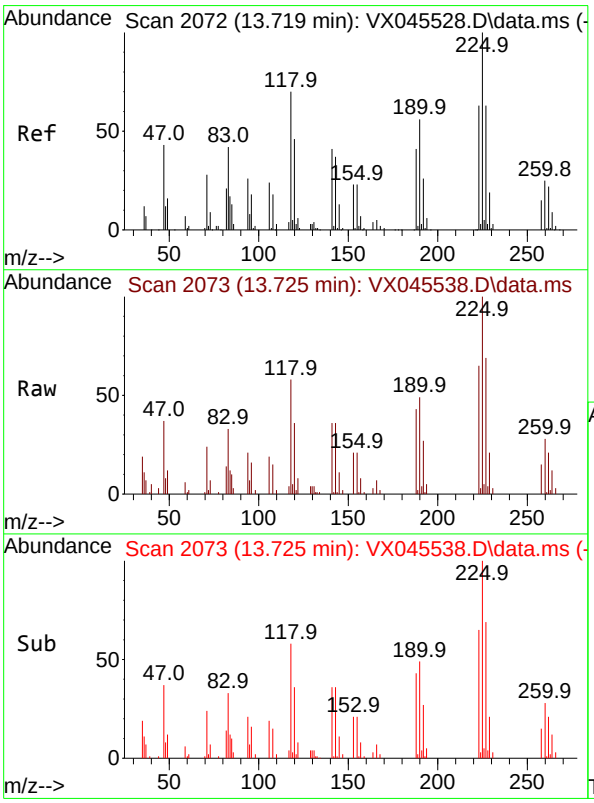
Ion	Ratio	Lower	Upper
180	100		
182	95.6	47.9	143.6
145	33.3	17.9	53.8



Instrument :
MSVOA_X
ClientSampleId :
VX0402WBSD01

Manual Integrations
APPROVED

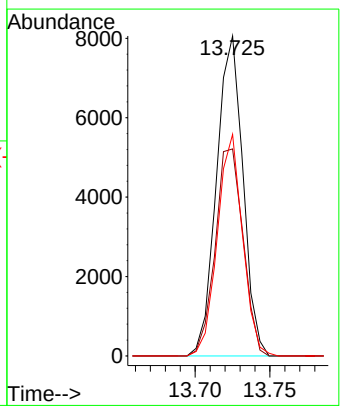
Reviewed By :John Carlone 04/03/2025
Supervised By :Mahesh Dadoda 04/03/2025

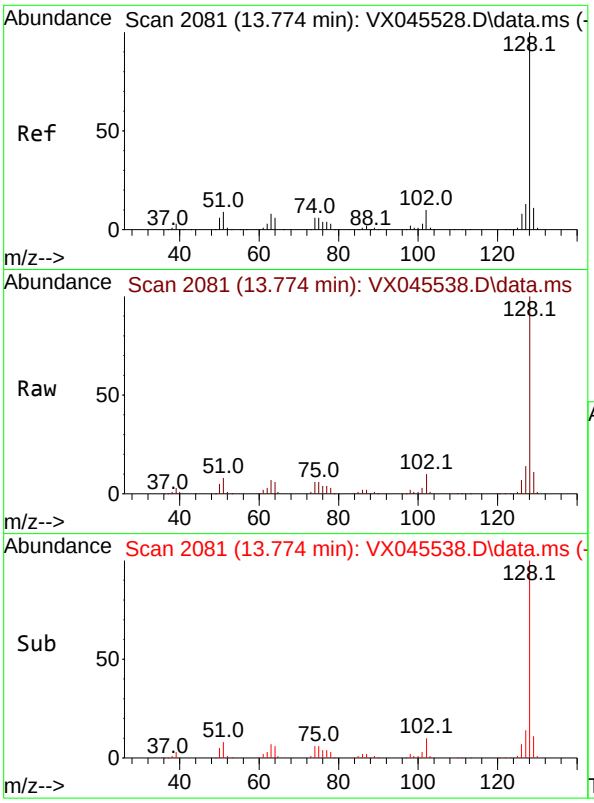


#94
Hexachlorobutadiene
Concen: 18.601 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.006 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion:225 Resp: 9904

Ion	Ratio	Lower	Upper
225	100		
223	68.3	31.1	93.3
227	66.0	32.2	96.6

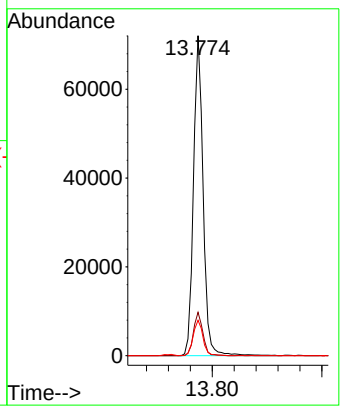




#95
Naphthalene
Concen: 19.246 ug/l
RT: 13.774 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion:128 Resp: 8849

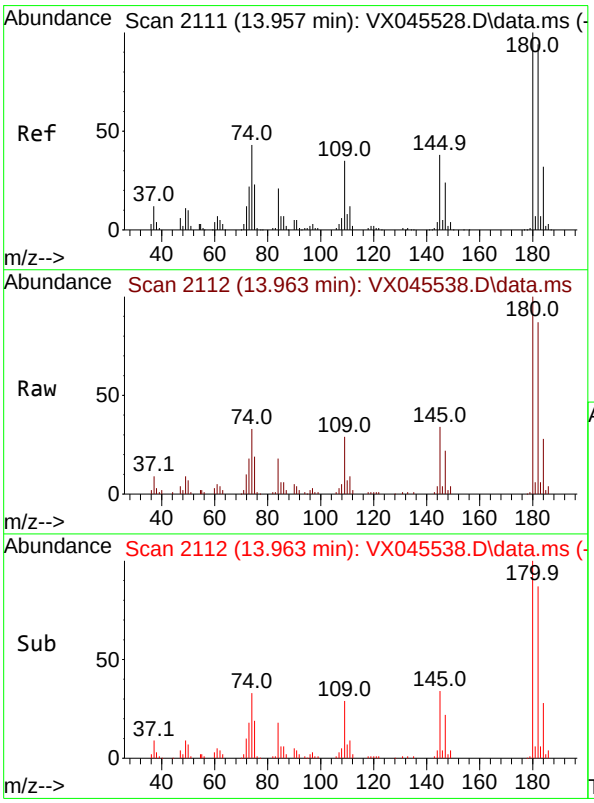
Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.3	15.5
129	11.3	8.6	12.8



Instrument :
MSVOA_X
ClientSampleId :
VX0402WBSD01

Manual Integrations
APPROVED

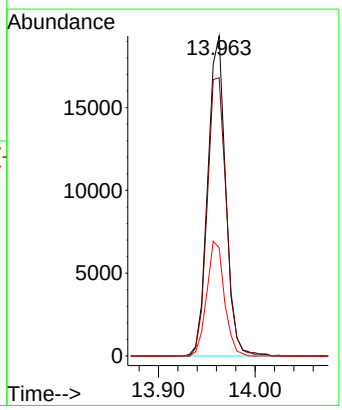
Reviewed By :John Carlone 04/03/2025
Supervised By :Mahesh Dadoda 04/03/2025



#96
1,2,3-Trichlorobenzene
Concen: 19.149 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. 0.006 min
Lab File: VX045538.D
Acq: 02 Apr 2025 11:44

Tgt Ion:180 Resp: 24776

Ion	Ratio	Lower	Upper
180	100		
182	93.0	47.3	141.8
145	35.4	18.2	54.6



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:	VX0403WBSD01	SDG No.:	Q1697
Lab Sample ID:	VX0403WBSD01	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
VX045567.D	1		04/03/25 13:41	VX040325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	18.7		0.26	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.5		0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	18.3		0.23	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	18.4		0.19	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	18.3		0.20	1.00	ug/L
71-43-2	Benzene	18.8		0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	19.5		0.22	1.00	ug/L
79-01-6	Trichloroethene	18.7		0.090	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	19.7		0.21	1.00	ug/L
127-18-4	Tetrachloroethene	19.0		0.23	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.4		70 (74) - 130 (125)	101%	SPK: 50
1868-53-7	Dibromofluoromethane	50.4		70 (75) - 130 (124)	101%	SPK: 50
2037-26-5	Toluene-d8	50.6		70 (86) - 130 (113)	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.3		70 (77) - 130 (121)	103%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	95800	5.549			
540-36-3	1,4-Difluorobenzene	168000	6.757			
3114-55-4	Chlorobenzene-d5	149000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	66400	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

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040325\
Data File : VX045567.D
Acq On : 03 Apr 2025 13:41
Operator : JC/MD
Sample : VX0403WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 04 01:21:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0403WBSD01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/04/2025
Supervised By :Mahesh Dadoda 04/04/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.549	168	95765	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	168463	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	148868	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	66417	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	88225	50.377	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 100.760%			
35) Dibromofluoromethane	5.385	113	60228	50.390	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.780%			
50) Toluene-d8	8.646	98	210903	50.553	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.100%			
62) 4-Bromofluorobenzene	11.079	95	77889	51.256	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 102.520%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	29190	20.382	ug/l	99
3) Chloromethane	1.306	50	27430	18.643	ug/l	97
4) Vinyl Chloride	1.373	62	25213	18.725	ug/l	97
5) Bromomethane	1.593	94	11593	18.158	ug/l	95
6) Chloroethane	1.666	64	14409	20.170	ug/l	93
7) Trichlorofluoromethane	1.873	101	38805	19.326	ug/l	99
8) Diethyl Ether	2.129	74	12626	18.730	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.318	101	22440	19.072	ug/l	99
10) Methyl Iodide	2.446	142	26968	18.376	ug/l	99
11) Tert butyl alcohol	2.977	59	20479	87.012	ug/l	99
12) 1,1-Dichloroethene	2.312	96	21323	18.547	ug/l	97
13) Acrolein	2.233	56	29793	91.923	ug/l	98
14) Allyl chloride	2.660	41	40506	18.569	ug/l	99
15) Acrylonitrile	3.062	53	68809	92.617	ug/l	100
16) Acetone	2.385	43	65312	90.821	ug/l	97
17) Carbon Disulfide	2.501	76	49703	17.504	ug/l	98
18) Methyl Acetate	2.702	43	31005	18.726	ug/l	98
19) Methyl tert-butyl Ether	3.111	73	73555	18.290	ug/l	99
20) Methylene Chloride	2.782	84	25457	18.909	ug/l	92
21) trans-1,2-Dichloroethene	3.087	96	21802	18.562	ug/l	98
22) Diisopropyl ether	3.763	45	79223	18.437	ug/l	94
23) Vinyl Acetate	3.721	43	343277	92.465	ug/l	99
24) 1,1-Dichloroethane	3.605	63	44573	18.342	ug/l	98
25) 2-Butanone	4.562	43	98811	93.868	ug/l	99
26) 2,2-Dichloropropane	4.477	77	30613	19.498	ug/l	98
27) cis-1,2-Dichloroethene	4.483	96	26344	18.410	ug/l	98
28) Bromochloromethane	4.897	49	23067	19.643	ug/l	100
29) Tetrahydrofuran	5.007	42	62487	91.560	ug/l	100
30) Chloroform	5.092	83	46139	18.452	ug/l	92
31) Cyclohexane	5.464	56	41047	19.107	ug/l	93
32) 1,1,1-Trichloroethane	5.379	97	38728	18.304	ug/l	98
36) 1,1-Dichloropropene	5.690	75	29662	18.380	ug/l	99
37) Ethyl Acetate	4.714	43	36810	18.100	ug/l	98
38) Carbon Tetrachloride	5.671	117	33340	19.115	ug/l	98
39) Methylcyclohexane	7.372	83	38573	19.499	ug/l	98
40) Benzene	6.031	78	92464	18.760	ug/l	95

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040325\
Data File : VX045567.D
Acq On : 03 Apr 2025 13:41
Operator : JC/MD
Sample : VX0403WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 04 01:21:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0403WBSD01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/04/2025
Supervised By :Mahesh Dadoda 04/04/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
41) Methacrylonitrile	4.915	41	21152	19.712	ug/l		98
42) 1,2-Dichloroethane	6.080	62	39605	19.455	ug/l		98
43) Isopropyl Acetate	6.342	43	56114	18.205	ug/l		100
44) Trichloroethene	7.122	130	21899	18.693	ug/l		98
45) 1,2-Dichloropropane	7.427	63	23825	19.374	ug/l		97
46) Dibromomethane	7.580	93	17913	18.975	ug/l		98
47) Bromodichloromethane	7.817	83	35779	18.978	ug/l		96
48) Methyl methacrylate	7.695	41	30681	19.278	ug/l		98
49) 1,4-Dioxane	7.665	88	11241	390.386	ug/l		99
51) 4-Methyl-2-Pentanone	8.573	43	196916	96.367	ug/l		99
52) Toluene	8.714	92	56808	19.048	ug/l		100
53) t-1,3-Dichloropropene	8.976	75	28343	17.207	ug/l		100
54) cis-1,3-Dichloropropene	8.366	75	33501	18.910	ug/l		95
55) 1,1,2-Trichloroethane	9.152	97	23397	19.687	ug/l		96
56) Ethyl methacrylate	9.116	69	34794	18.917	ug/l		100
57) 1,3-Dichloropropane	9.305	76	39920	19.289	ug/l		99
58) 2-Chloroethyl Vinyl ether	8.238	63	87408	93.943	ug/l		100
59) 2-Hexanone	9.427	43	141504	93.514	ug/l		99
60) Dibromochloromethane	9.518	129	24770	19.118	ug/l		98
61) 1,2-Dibromoethane	9.610	107	23301	19.368	ug/l		99
64) Tetrachloroethene	9.274	164	19952	18.983	ug/l		95
65) Chlorobenzene	10.079	112	61111	19.211	ug/l		99
66) 1,1,1,2-Tetrachloroethane	10.158	131	20538	18.596	ug/l		98
67) Ethyl Benzene	10.189	91	109936	19.296	ug/l		99
68) m/p-Xylenes	10.299	106	80523	38.859	ug/l		99
69) o-Xylene	10.640	106	39647	19.423	ug/l		99
70) Styrene	10.652	104	64729	19.212	ug/l		98
71) Bromoform	10.799	173	14941	18.119	ug/l	#	99
73) Isopropylbenzene	10.963	105	104959	19.729	ug/l		99
74) N-amyl acetate	10.841	43	47245	18.565	ug/l		98
75) 1,1,2,2-Tetrachloroethane	11.207	83	34084	18.238	ug/l		98
76) 1,2,3-Trichloropropane	11.237	75	32342m	19.963	ug/l		
77) Bromobenzene	11.195	156	23834	19.390	ug/l		97
78) n-propylbenzene	11.305	91	122226	19.946	ug/l		99
79) 2-Chlorotoluene	11.359	91	76219	19.456	ug/l		99
80) 1,3,5-Trimethylbenzene	11.451	105	88007	20.005	ug/l		100
81) trans-1,4-Dichloro-2-b...	11.018	75	7948	16.650	ug/l		93
82) 4-Chlorotoluene	11.451	91	84989	19.458	ug/l		99
83) tert-Butylbenzene	11.713	119	85455	19.621	ug/l		98
84) 1,2,4-Trimethylbenzene	11.750	105	87061	19.717	ug/l		98
85) sec-Butylbenzene	11.890	105	106293	19.870	ug/l		99
86) p-Isopropyltoluene	12.006	119	85865	19.469	ug/l		100
87) 1,3-Dichlorobenzene	11.969	146	41915	18.733	ug/l		98
88) 1,4-Dichlorobenzene	12.036	146	41397	18.249	ug/l		96
89) n-Butylbenzene	12.329	91	74111	19.378	ug/l		97
90) Hexachloroethane	12.536	117	14058	18.548	ug/l		100
91) 1,2-Dichlorobenzene	12.335	146	41712	18.750	ug/l		99
92) 1,2-Dibromo-3-Chloropr...	12.945	75	7098	18.161	ug/l		98
93) 1,2,4-Trichlorobenzene	13.585	180	21979	17.750	ug/l		99
94) Hexachlorobutadiene	13.725	225	9895	18.544	ug/l		97
95) Naphthalene	13.774	128	81688	17.727	ug/l		100
96) 1,2,3-Trichlorobenzene	13.963	180	23690	18.270	ug/l		98

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040325\
Data File : VX045567.D
Acq On : 03 Apr 2025 13:41
Operator : JC/MD
Sample : VX0403WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 04 01:21:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0403WBSD01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/04/2025
Supervised By :Mahesh Dadoda 04/04/2025

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

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

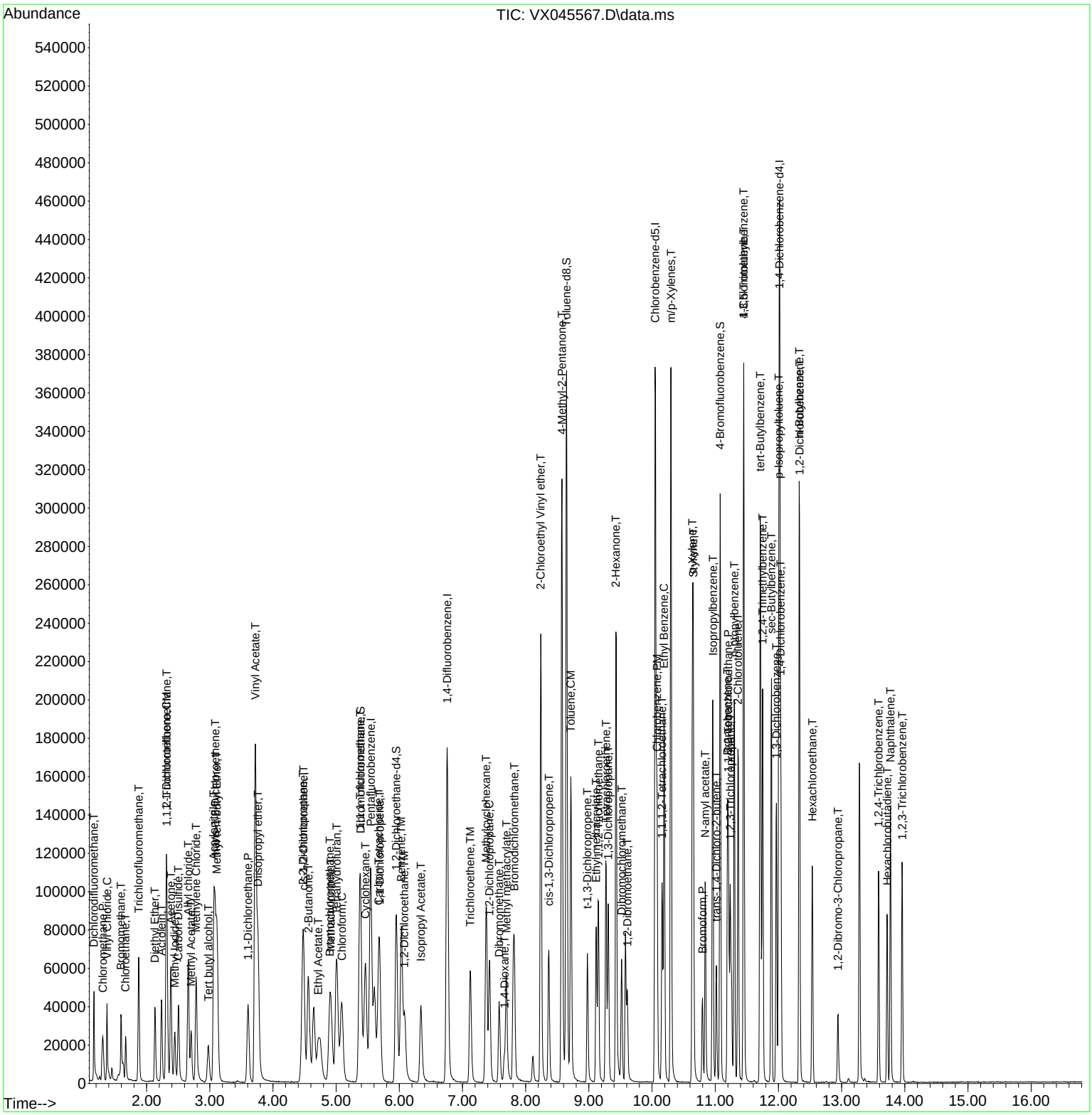
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040325\
Data File : VX045567.D
Acq On : 03 Apr 2025 13:41
Operator : JC/MD
Sample : VX0403WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

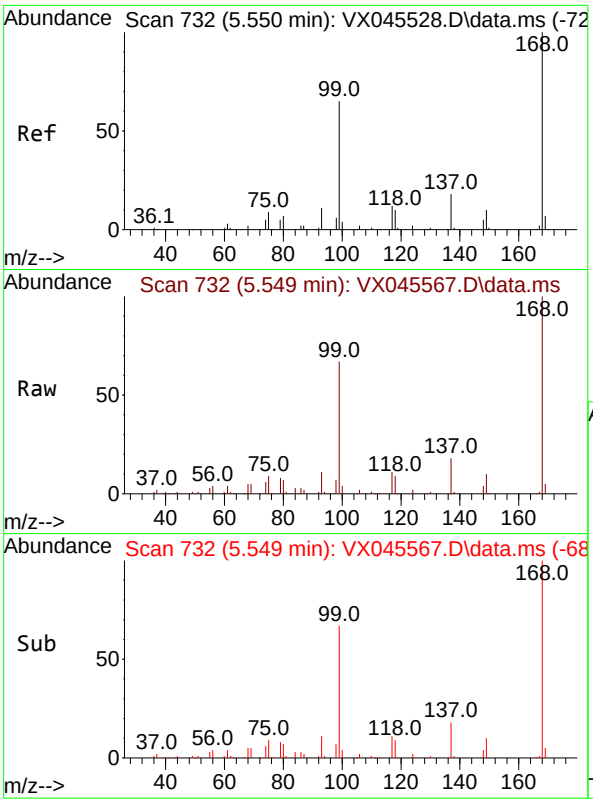
Quant Time: Apr 04 01:21:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0403WBSD01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/04/2025
Supervised By :Mahesh Dadoda 04/04/2025

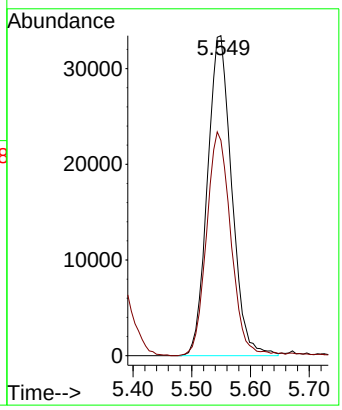




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.549 min Scan# 7
Delta R.T. -0.001 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion:168 Resp: 9576

Ion	Ratio	Lower	Upper
168	100		
99	67.3	52.3	78.5



Instrument :
MSVOA_X
ClientSampleId :
VX0403WBSD01

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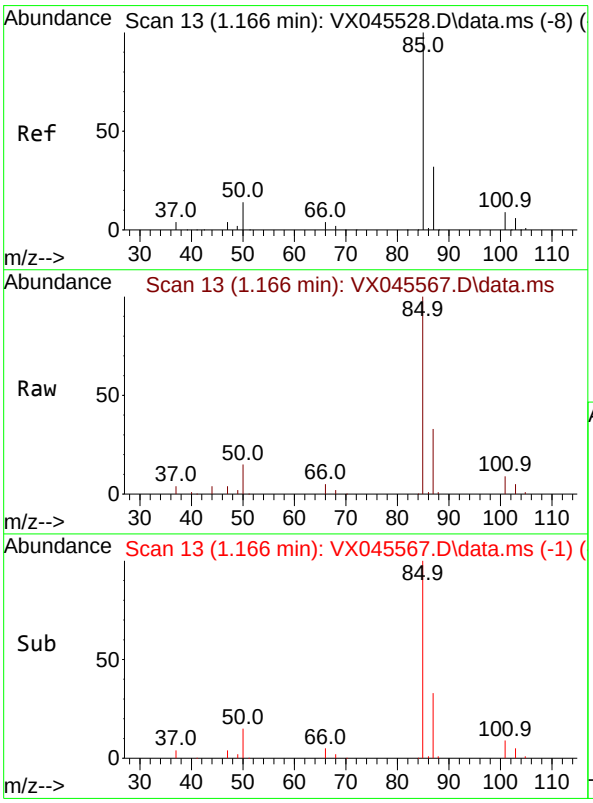
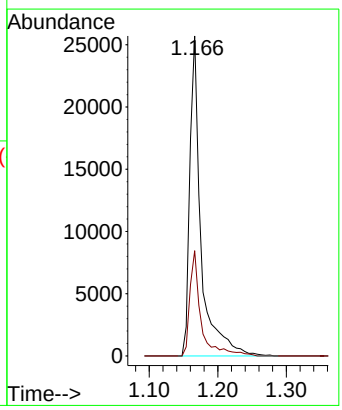
Reviewed By :Semsettin Yesilyurt 04/04/2025
Supervised By :Mahesh Dadoda 04/04/2025

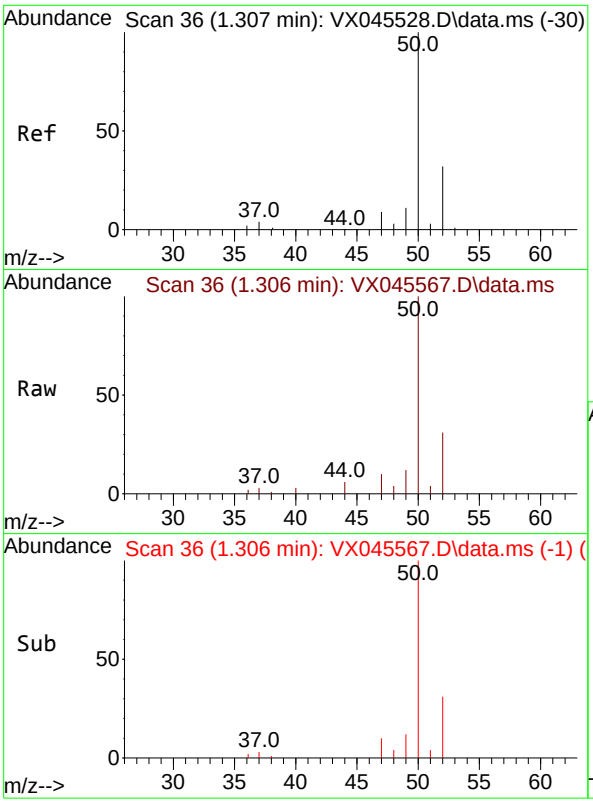


#2
Dichlorodifluoromethane
Concen: 20.382 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion: 85 Resp: 29190

Ion	Ratio	Lower	Upper
85	100		
87	32.9	16.1	48.2

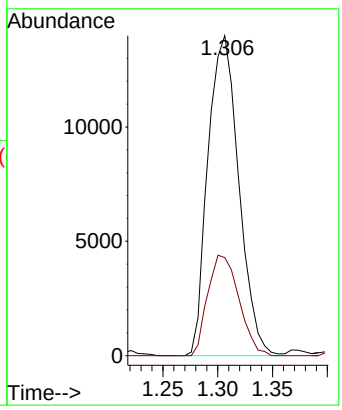




#3
Chloromethane
Concen: 18.643 ug/l
RT: 1.306 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion: 50 Resp: 2743

Ion	Ratio	Lower	Upper
50	100		
52	30.6	25.9	38.9



Instrument :
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ClientSampleId :
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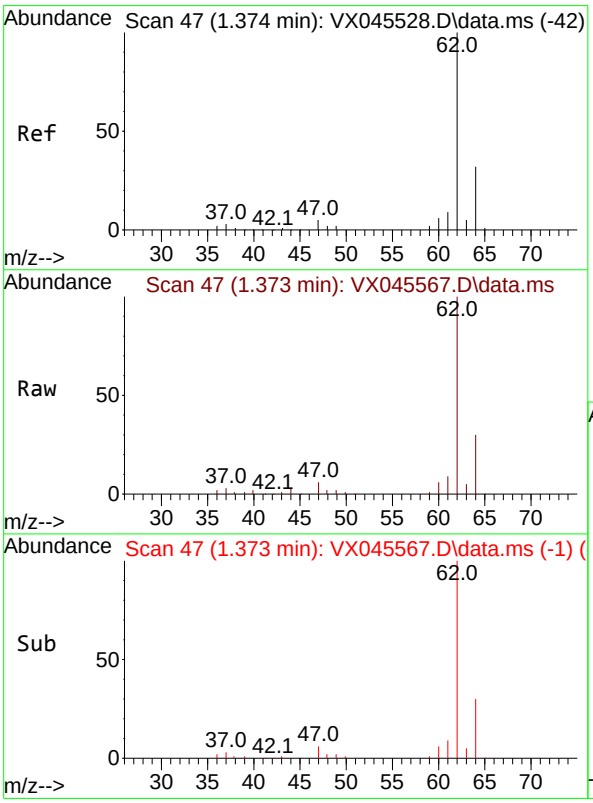
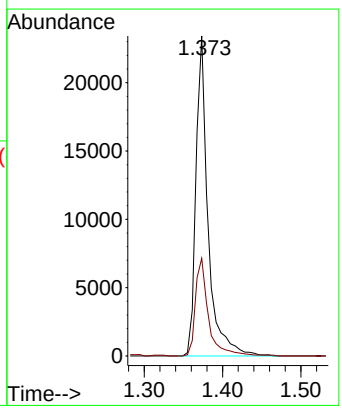
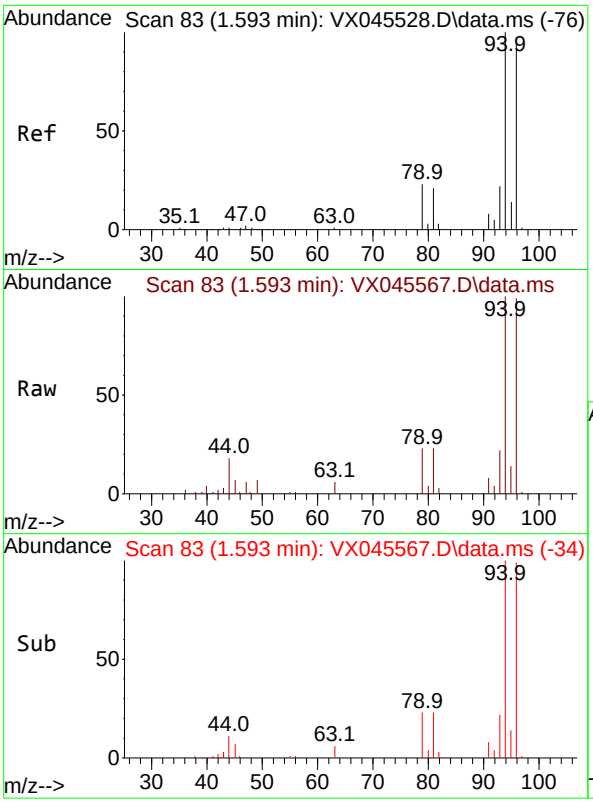


#4
Vinyl Chloride
Concen: 18.725 ug/l
RT: 1.373 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion: 62 Resp: 25213

Ion	Ratio	Lower	Upper
62	100		
64	30.5	25.5	38.3

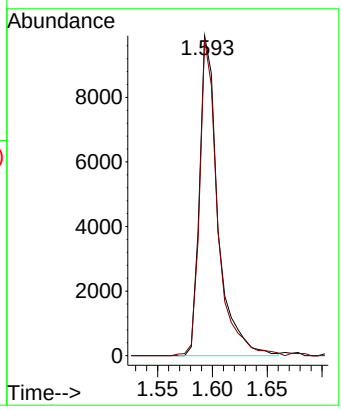




#5
Bromomethane
Concen: 18.158 ug/l
RT: 1.593 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion: 94 Resp: 1159

Ion	Ratio	Lower	Upper
94	100		
96	98.3	74.8	112.2



Instrument :
MSVOA_X
ClientSampleId :
VX0403WBSD01

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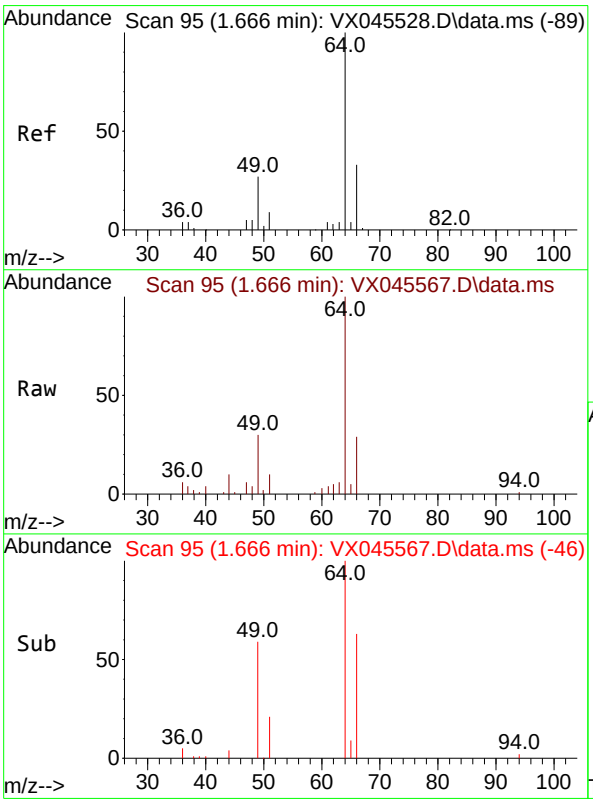
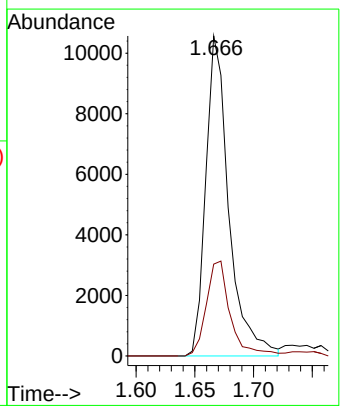
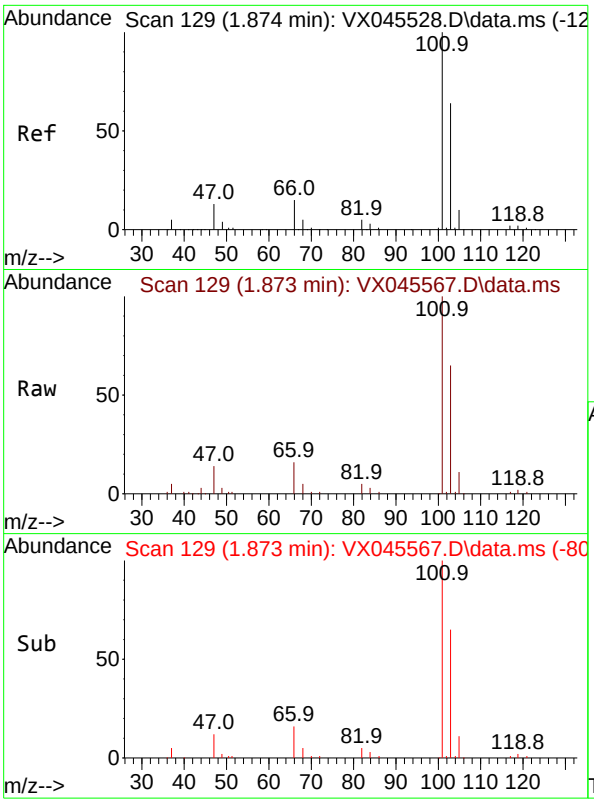


#6
Chloroethane
Concen: 20.170 ug/l
RT: 1.666 min Scan# 95
Delta R.T. -0.000 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion: 64 Resp: 14409

Ion	Ratio	Lower	Upper
64	100		
66	28.7	26.3	39.5

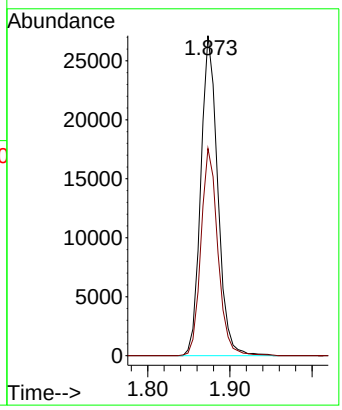




#7
Trichlorofluoromethane
Concen: 19.326 ug/l
RT: 1.873 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion:101 Resp: 3880

Ion	Ratio	Lower	Upper
101	100		
103	64.8	51.1	76.7



Instrument :
MSVOA_X
ClientSampleId :
VX0403WBSD01

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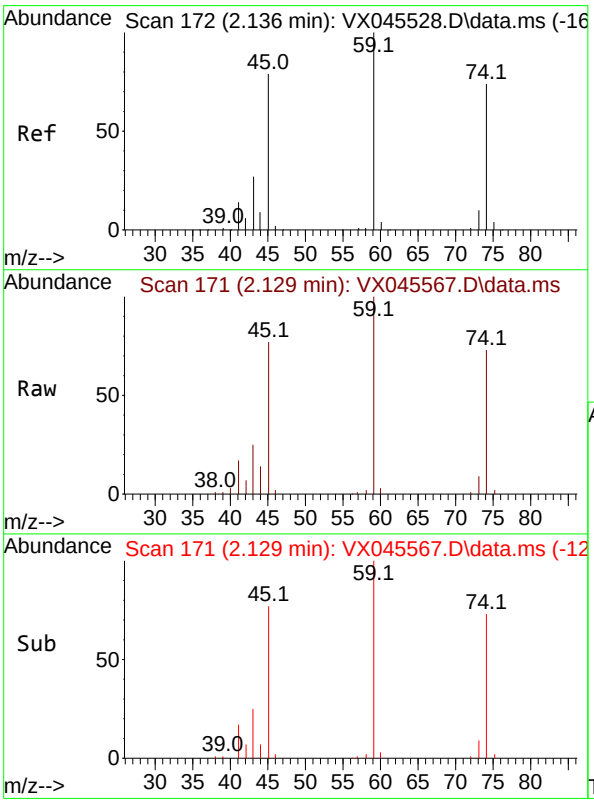
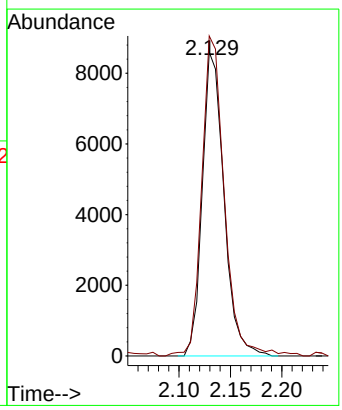
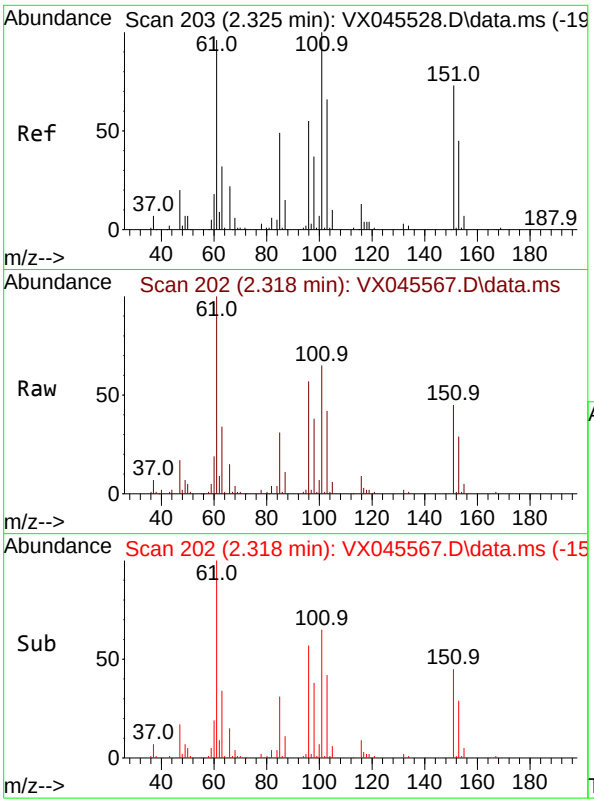


#8
Diethyl Ether
Concen: 18.730 ug/l
RT: 2.129 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion: 74 Resp: 12626

Ion	Ratio	Lower	Upper
74	100		
45	109.6	53.0	159.1





#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.072 ug/l
RT: 2.318 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion:101 Resp: 2244

Ion	Ratio	Lower	Upper
101	100		
85	47.8	38.9	58.3
151	71.4	57.5	86.3

Instrument :
MSVOA_X
ClientSampleId :
VX0403WBSD01

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Reviewed By :Semsettin Yesilyurt 04/04/2025
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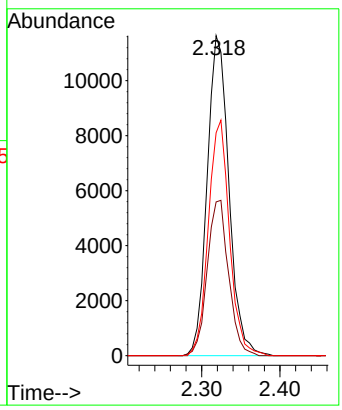
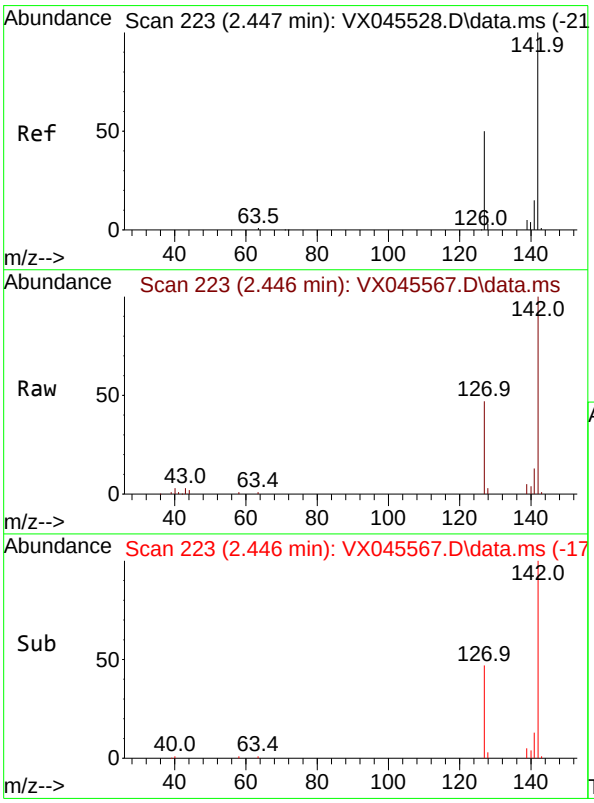
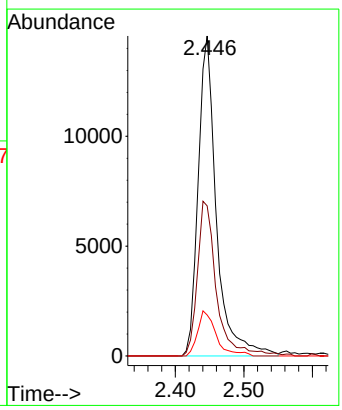


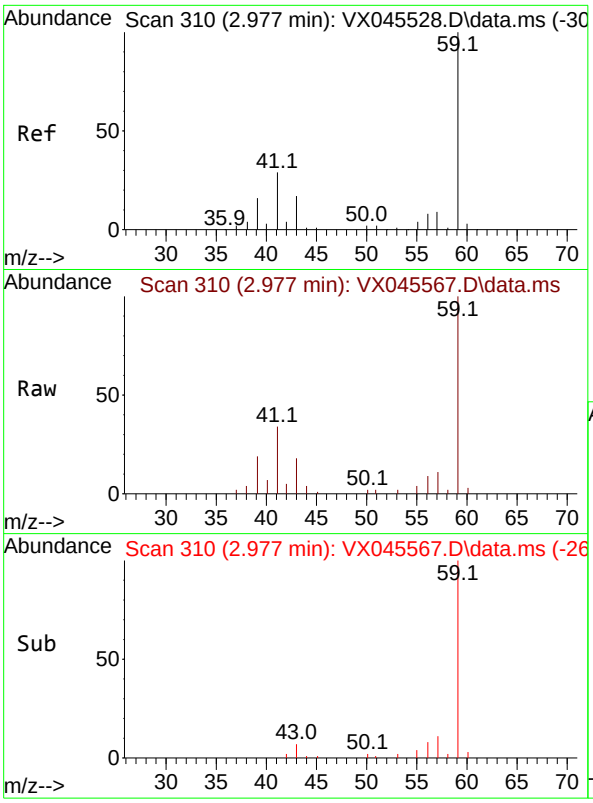


#10
Methyl Iodide
Concen: 18.376 ug/l
RT: 2.446 min Scan# 223
Delta R.T. -0.000 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion:142 Resp: 26968

Ion	Ratio	Lower	Upper
142	100		
127	50.7	40.2	60.4
141	14.3	11.7	17.5





#11
Tert butyl alcohol
Concen: 87.012 ug/l
RT: 2.977 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion: 59 Resp: 2047

Ion	Ratio	Lower	Upper
59	100		
57	10.3	8.6	12.8

Instrument :
MSVOA_X
ClientSampleId :
VX0403WBSD01

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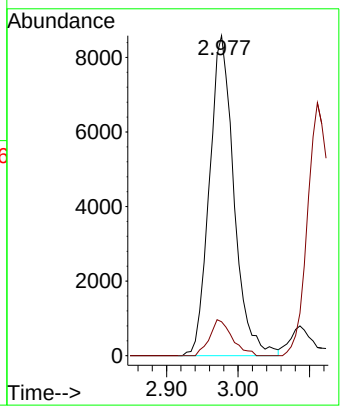
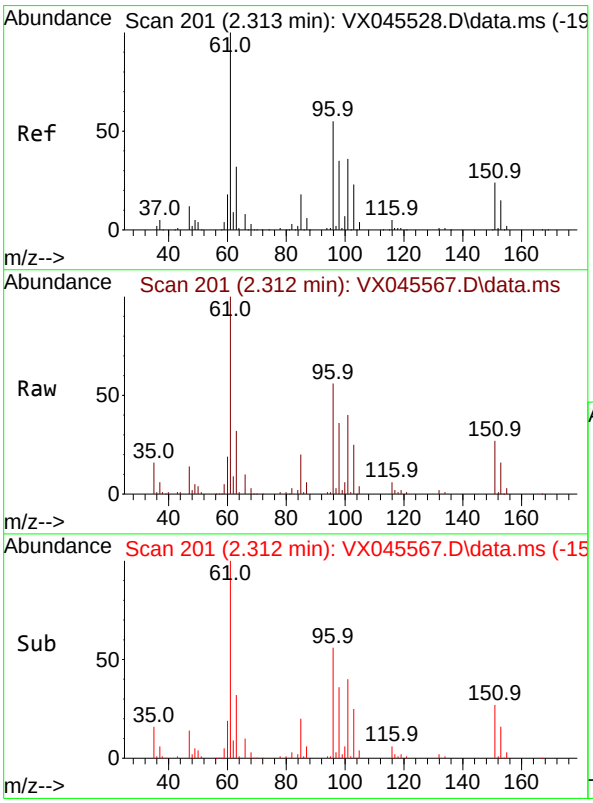
Reviewed By :Semsettin Yesilyurt 04/04/2025
Supervised By :Mahesh Dadoda 04/04/2025

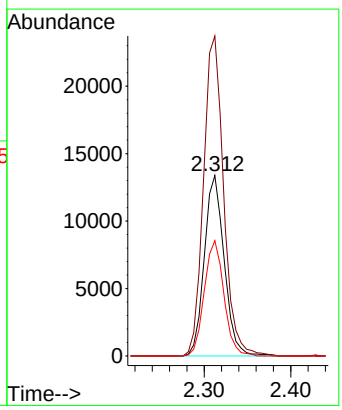


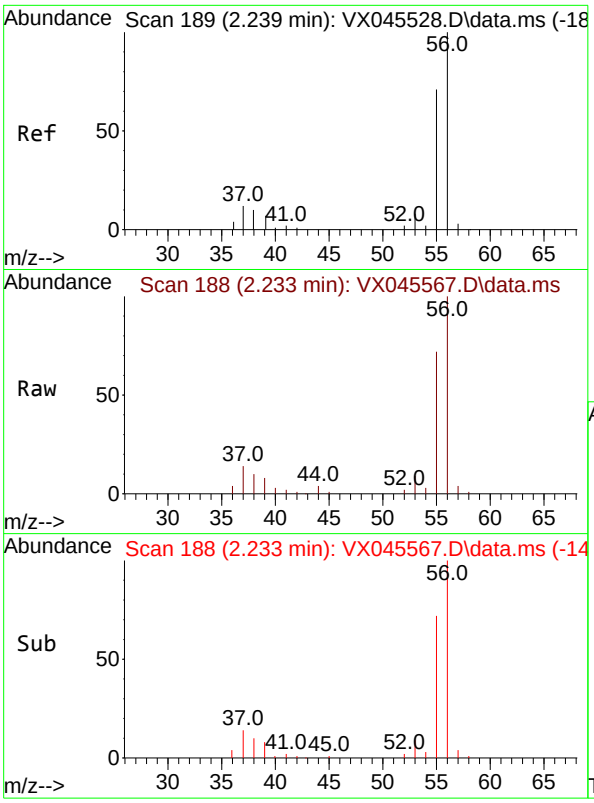


#12
1,1-Dichloroethene
Concen: 18.547 ug/l
RT: 2.312 min Scan# 201
Delta R.T. -0.000 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion: 96 Resp: 21323

Ion	Ratio	Lower	Upper
96	100		
61	177.3	145.7	218.5
98	64.0	51.6	77.4

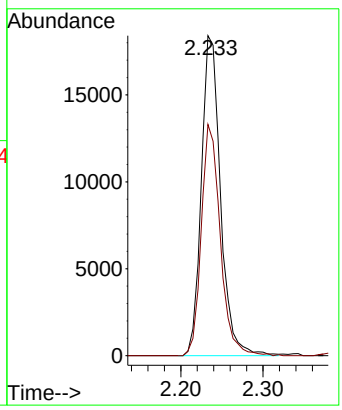




#13
Acrolein
Concen: 91.923 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion: 56 Resp: 2979

Ion	Ratio	Lower	Upper
56	100		
55	71.6	56.2	84.2



Instrument :
MSVOA_X
ClientSampleId :
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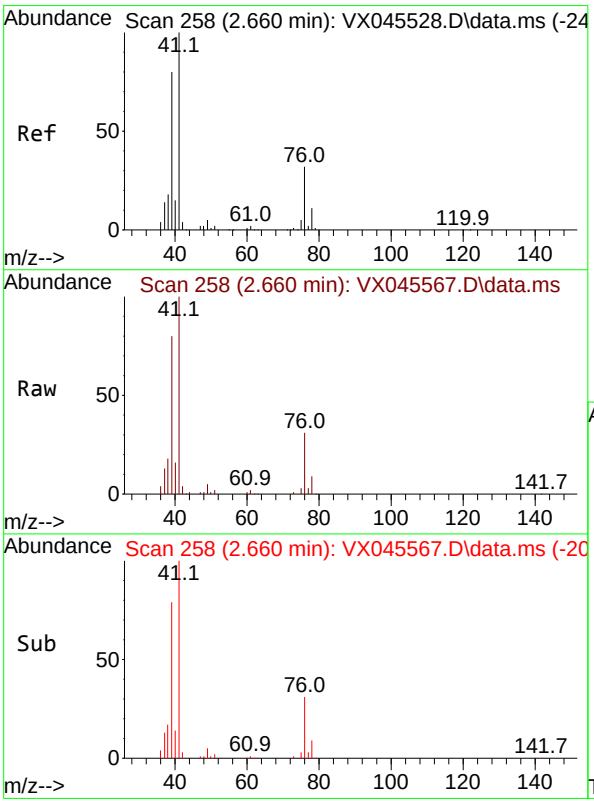
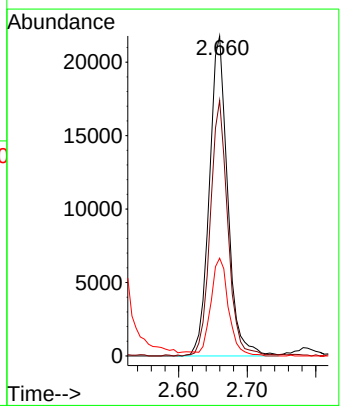
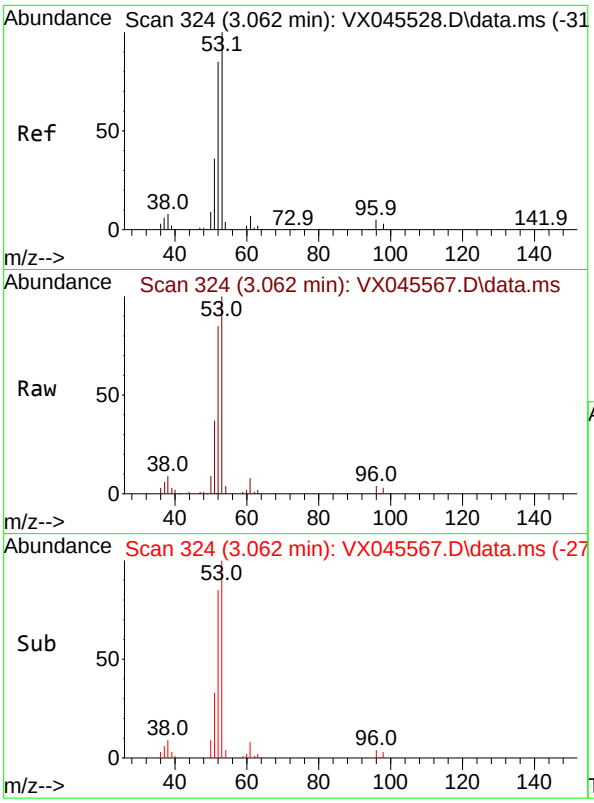


#14
Allyl chloride
Concen: 18.569 ug/l
RT: 2.660 min Scan# 258
Delta R.T. -0.000 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion: 41 Resp: 40506

Ion	Ratio	Lower	Upper
41	100		
39	76.4	60.2	90.2
76	29.8	24.6	36.8

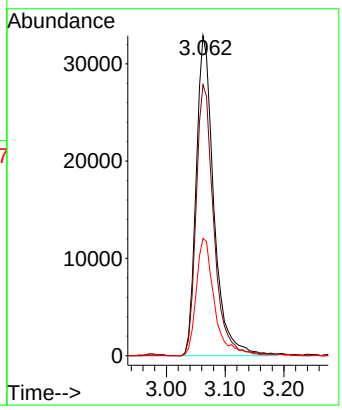




#15
Acrylonitrile
Concen: 92.617 ug/l
RT: 3.062 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion: 53 Resp: 6880

Ion	Ratio	Lower	Upper
53	100		
52	84.4	67.4	101.2
51	37.7	29.9	44.9



Instrument :
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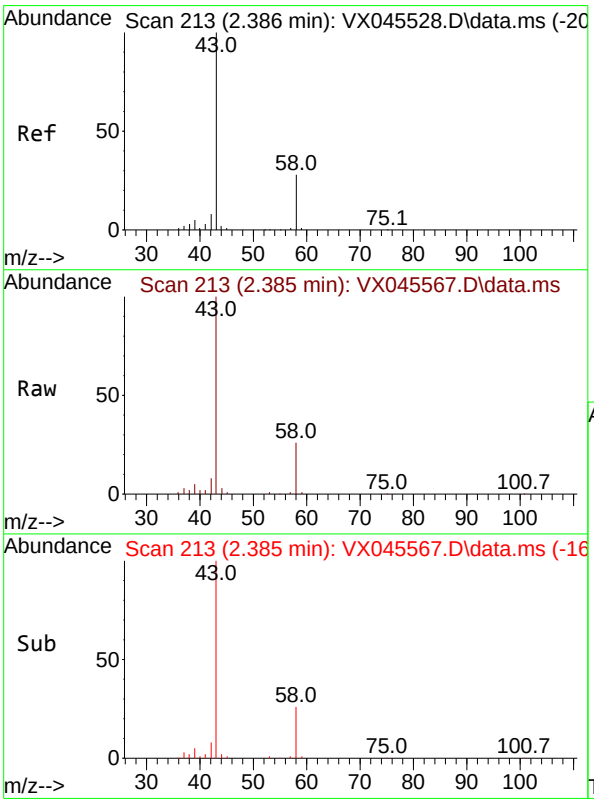
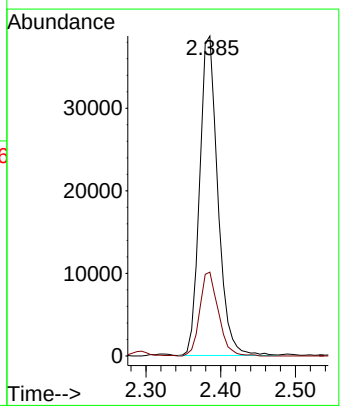
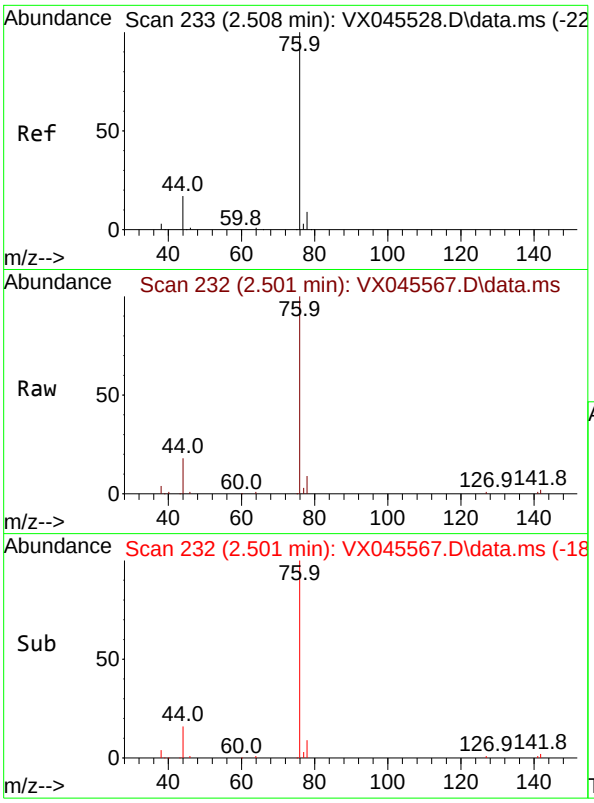


#16
Acetone
Concen: 90.821 ug/l
RT: 2.385 min Scan# 213
Delta R.T. -0.000 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion: 43 Resp: 65312

Ion	Ratio	Lower	Upper
43	100		
58	26.3	22.3	33.5

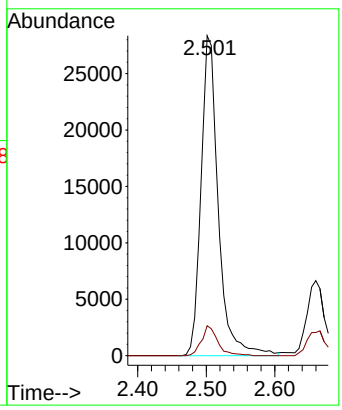




#17
Carbon Disulfide
Concen: 17.504 ug/l
RT: 2.501 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion: 76 Resp: 4970

Ion	Ratio	Lower	Upper
76	100		
78	9.4	7.0	10.6



Instrument :
MSVOA_X
ClientSampleId :
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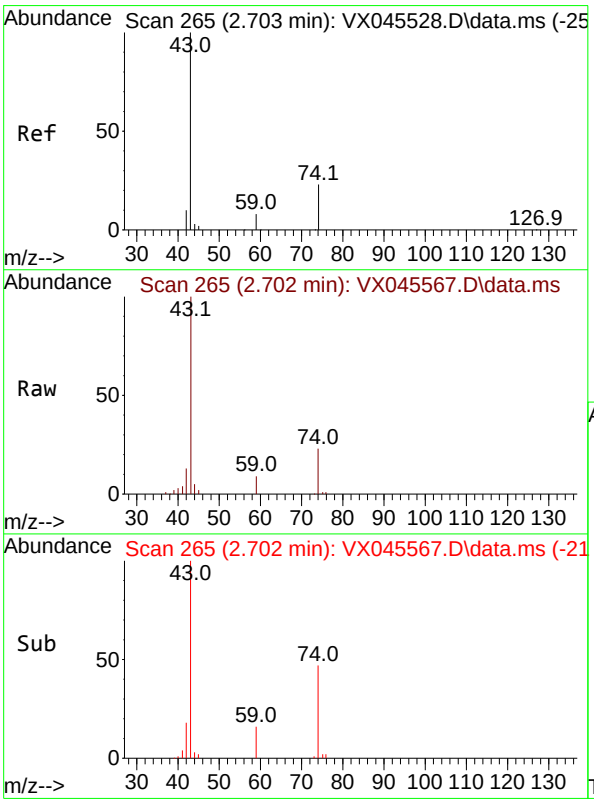
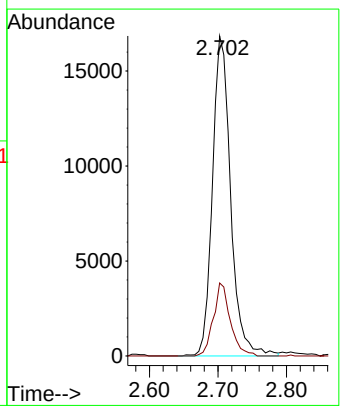
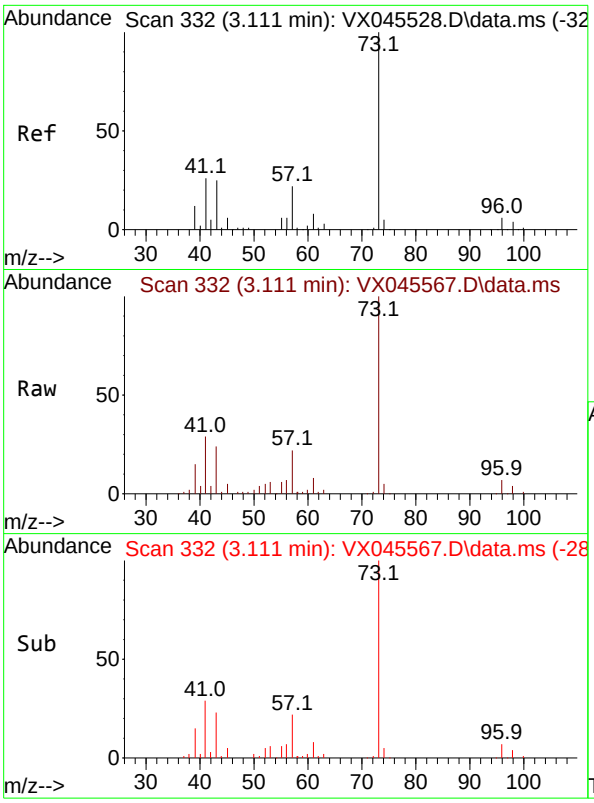


#18
Methyl Acetate
Concen: 18.726 ug/l
RT: 2.702 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion: 43 Resp: 31005

Ion	Ratio	Lower	Upper
43	100		
74	21.1	17.5	26.3

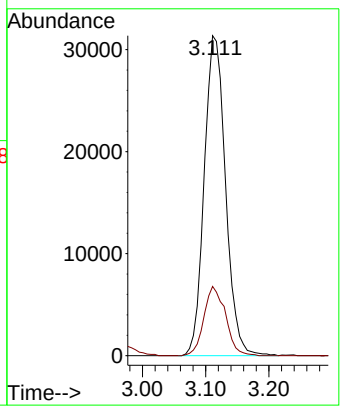




#19
Methyl tert-butyl Ether
Concen: 18.290 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion: 73 Resp: 7355

Ion	Ratio	Lower	Upper
73	100		
57	21.6	17.6	26.4



Instrument :
MSVOA_X
ClientSampleId :
VX0403WBSD01

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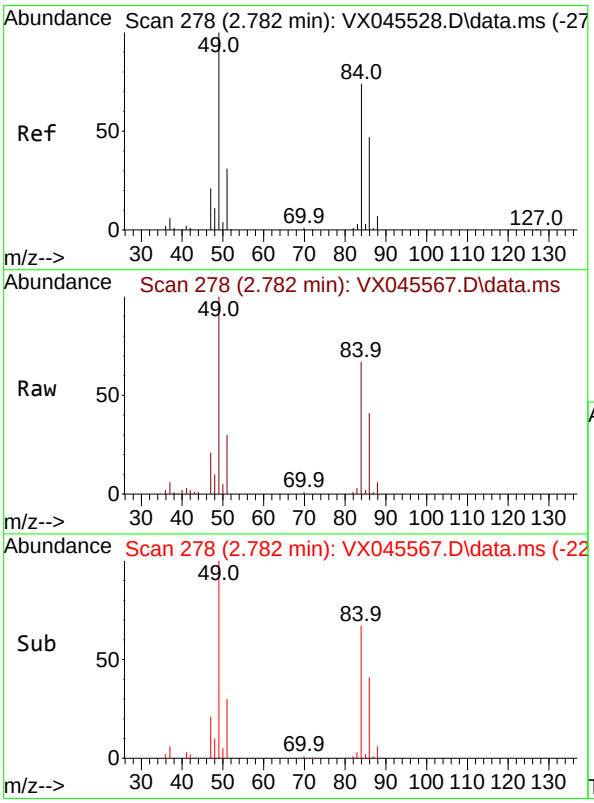
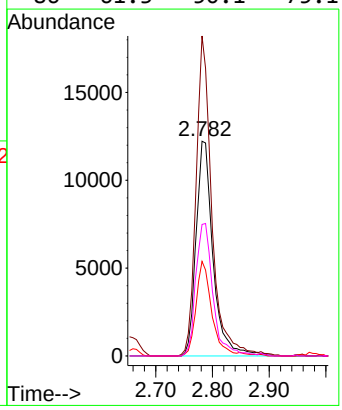
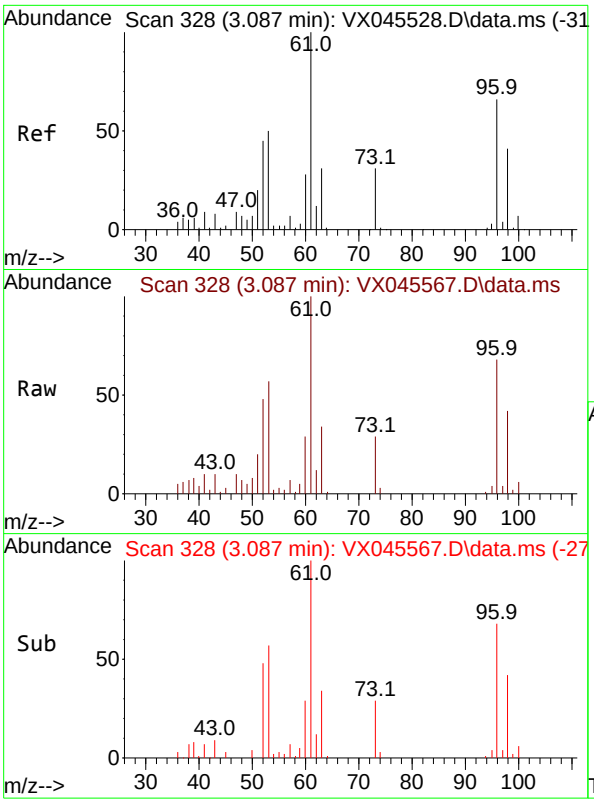


#20
Methylene Chloride
Concen: 18.909 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion: 84 Resp: 25457

Ion	Ratio	Lower	Upper
84	100		
49	149.1	107.5	161.3
51	44.1	33.0	49.6
86	61.3	50.1	75.1

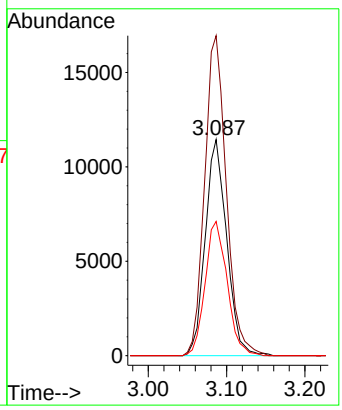




#21
trans-1,2-Dichloroethene
Concen: 18.562 ug/l
RT: 3.087 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion: 96 Resp: 2180

Ion	Ratio	Lower	Upper
96	100		
61	148.1	121.0	181.6
98	62.1	49.7	74.5



Instrument :
MSVOA_X
ClientSampleId :
VX0403WBSD01

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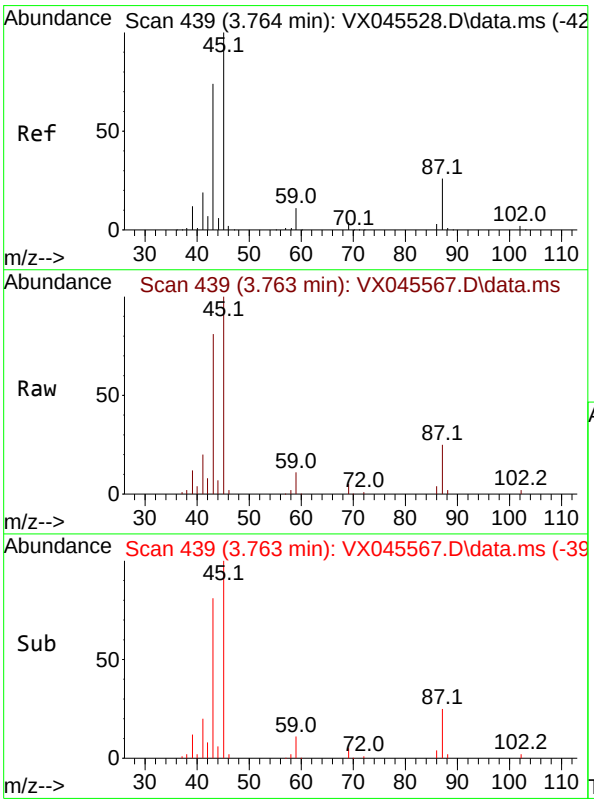
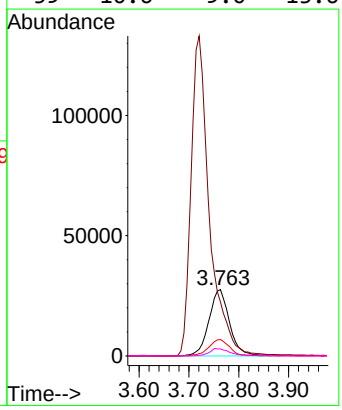
Reviewed By :Semsettin Yesilyurt 04/04/2025
Supervised By :Mahesh Dadoda 04/04/2025

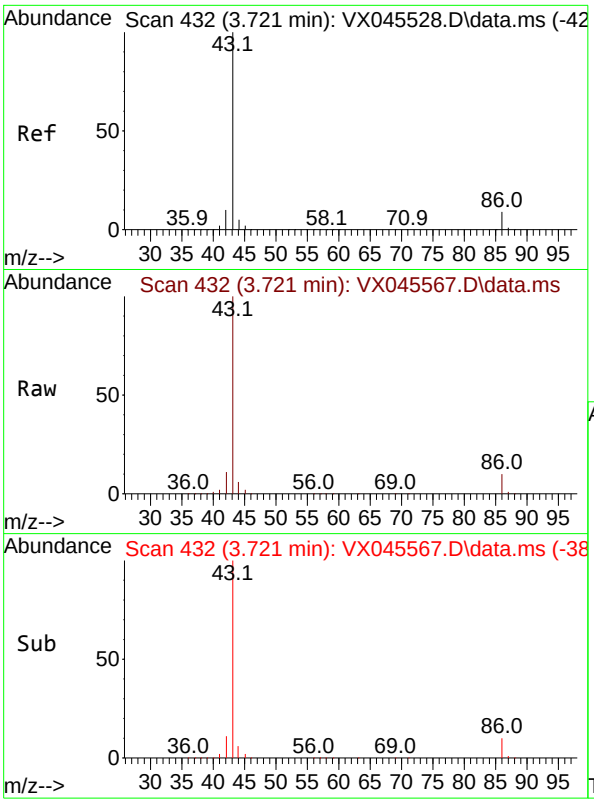


#22
Diisopropyl ether
Concen: 18.437 ug/l
RT: 3.763 min Scan# 439
Delta R.T. -0.000 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion: 45 Resp: 79223

Ion	Ratio	Lower	Upper
45	100		
43	80.5	59.3	88.9
87	24.8	20.4	30.6
59	10.6	9.0	13.6





#23
Vinyl Acetate
Concen: 92.465 ug/l
RT: 3.721 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion: 43 Resp: 34327

Ion	Ratio	Lower	Upper
43	100		
86	9.8	7.5	11.3

Instrument :
MSVOA_X
ClientSampleId :
VX0403WBSD01

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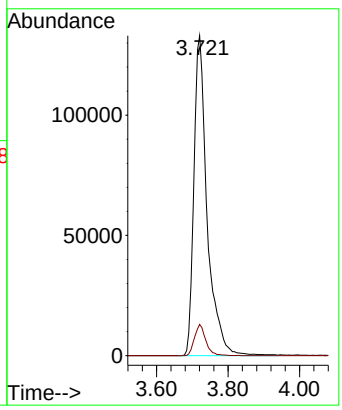
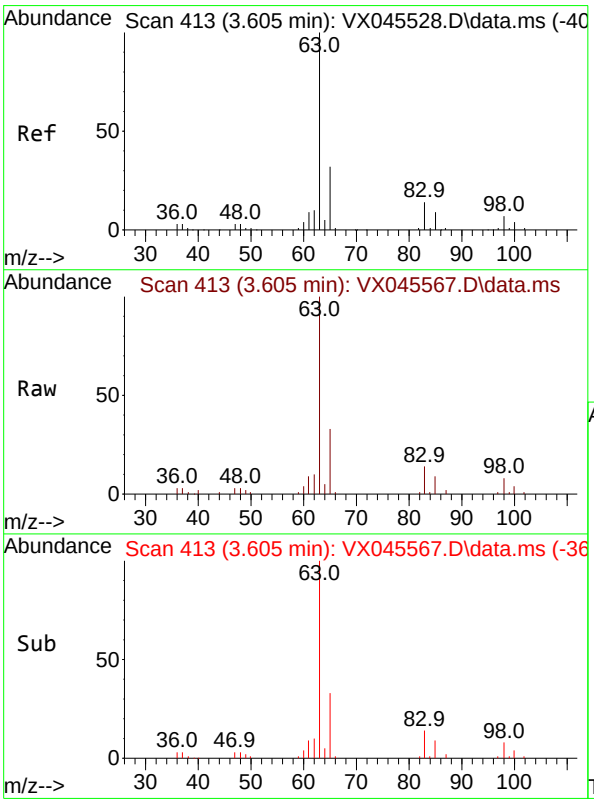
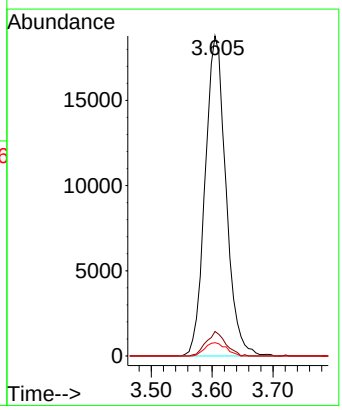


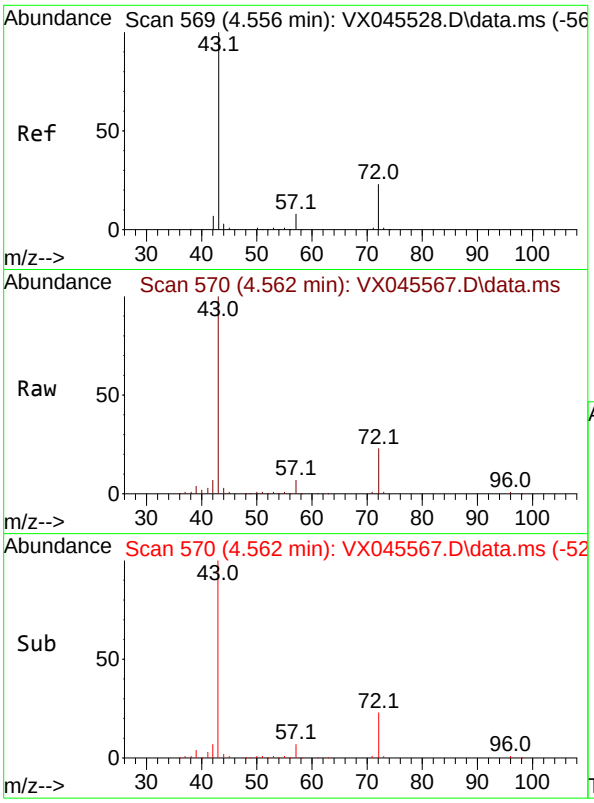


#24
1,1-Dichloroethane
Concen: 18.342 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion: 63 Resp: 44573

Ion	Ratio	Lower	Upper
63	100		
98	7.6	3.4	10.1
100	4.1	2.2	6.6

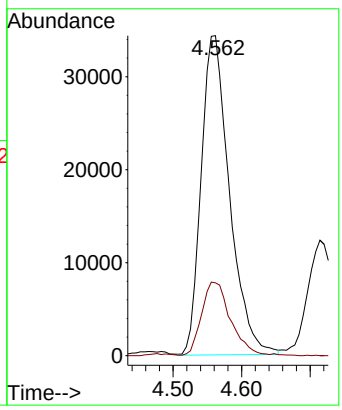




#25
2-Butanone
Concen: 93.868 ug/l
RT: 4.562 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion: 43 Resp: 9881

Ion	Ratio	Lower	Upper
43	100		
72	22.7	18.6	28.0



Instrument :
MSVOA_X
ClientSampleId :
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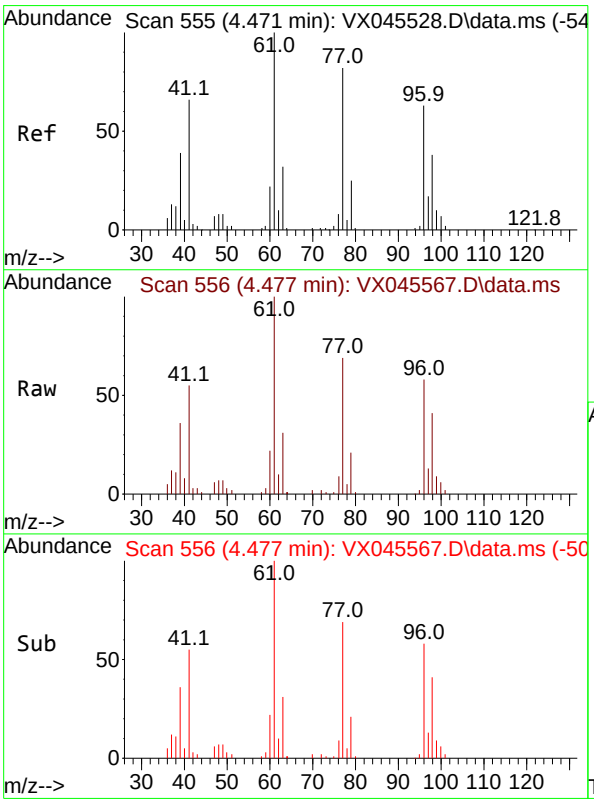
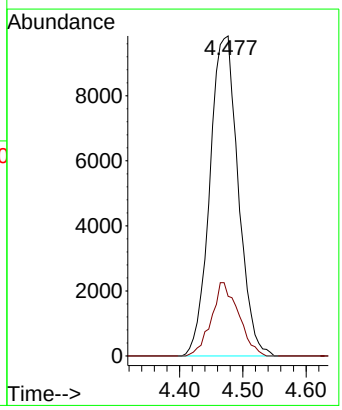
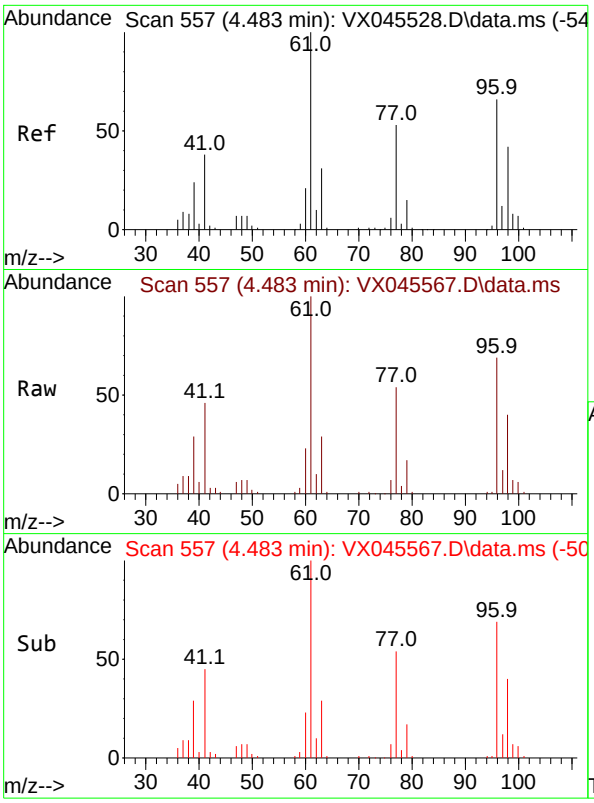


#26
2,2-Dichloropropane
Concen: 19.498 ug/l
RT: 4.477 min Scan# 556
Delta R.T. 0.006 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion: 77 Resp: 30613

Ion	Ratio	Lower	Upper
77	100		
97	22.0	10.6	31.8

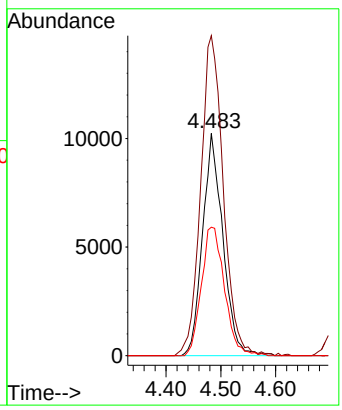




#27
cis-1,2-Dichloroethene
Concen: 18.410 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion: 96 Resp: 2634

Ion	Ratio	Lower	Upper
96	100		
61	159.4	0.0	313.2
98	65.5	0.0	126.4



Instrument :
MSVOA_X
ClientSampleId :
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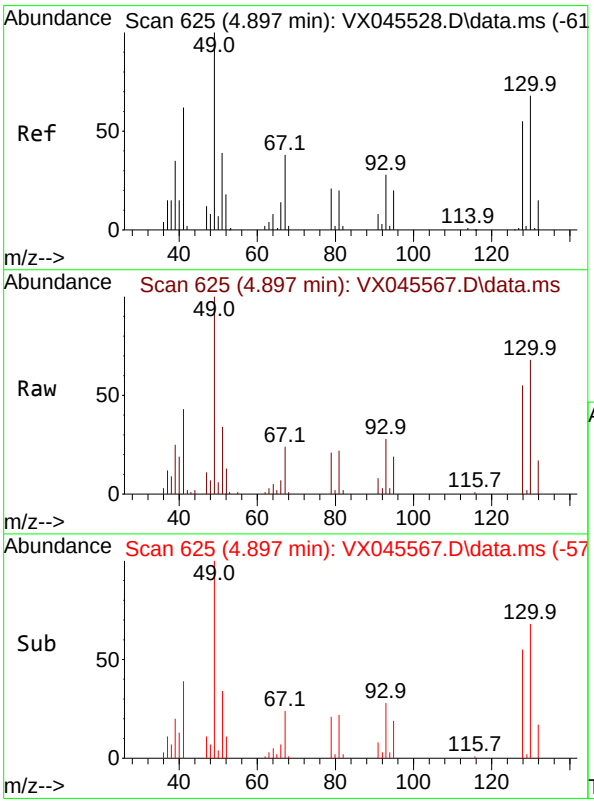
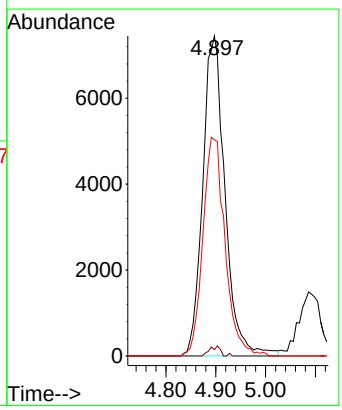
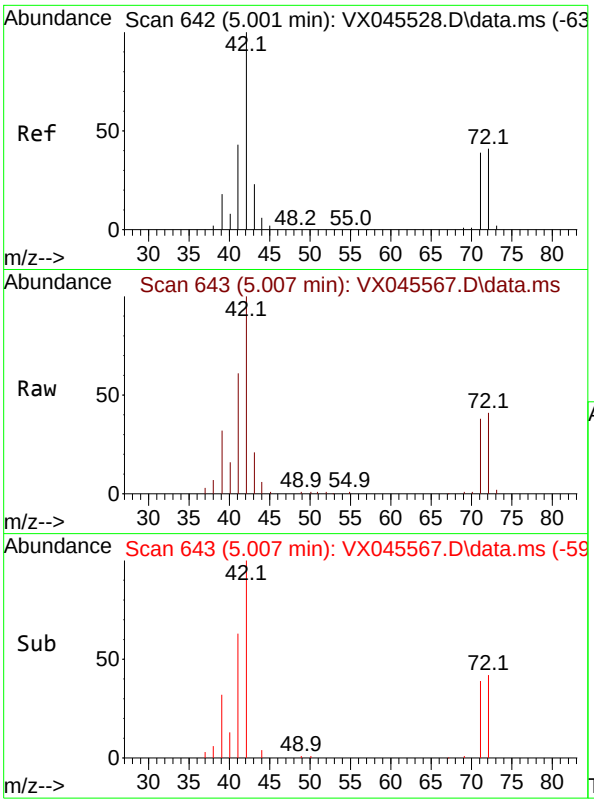


#28
Bromochloromethane
Concen: 19.643 ug/l
RT: 4.897 min Scan# 625
Delta R.T. -0.000 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion: 49 Resp: 23067

Ion	Ratio	Lower	Upper
49	100		
129	1.4	0.0	3.8
130	68.1	54.6	81.8

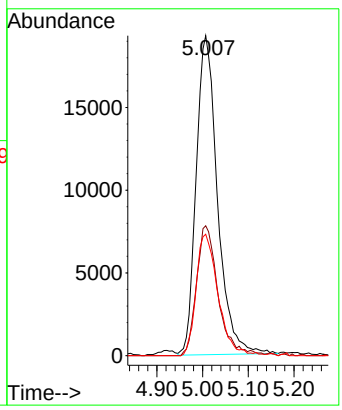




#29
Tetrahydrofuran
Concen: 91.560 ug/l
RT: 5.007 min Scan# 64
Delta R.T. 0.006 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion: 42 Resp: 6248

Ion	Ratio	Lower	Upper
42	100		
72	41.3	33.4	50.0
71	39.3	31.4	47.0



Instrument :
MSVOA_X
ClientSampleId :
VX0403WBSD01

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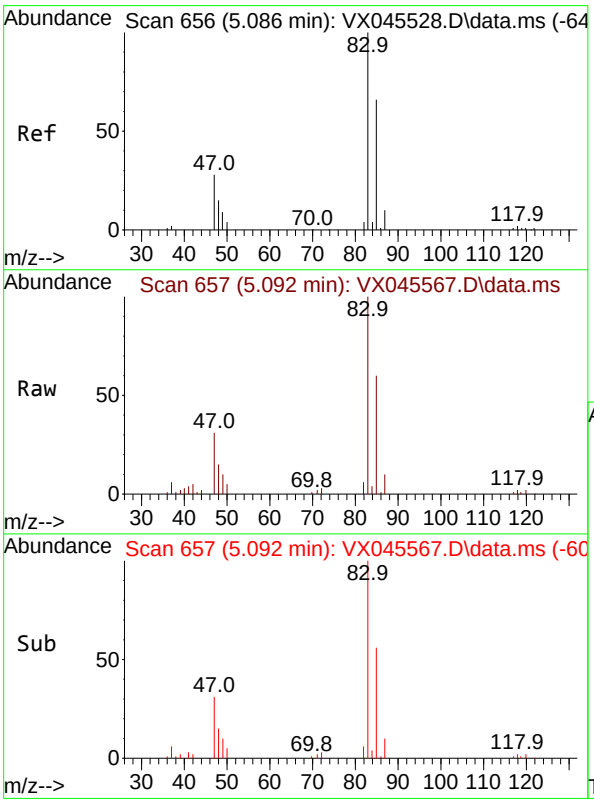
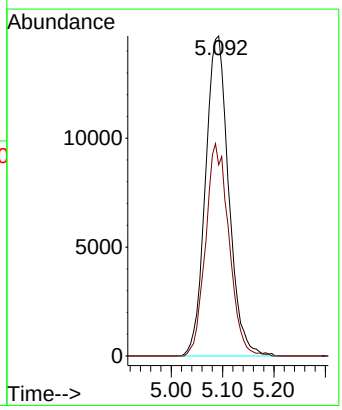
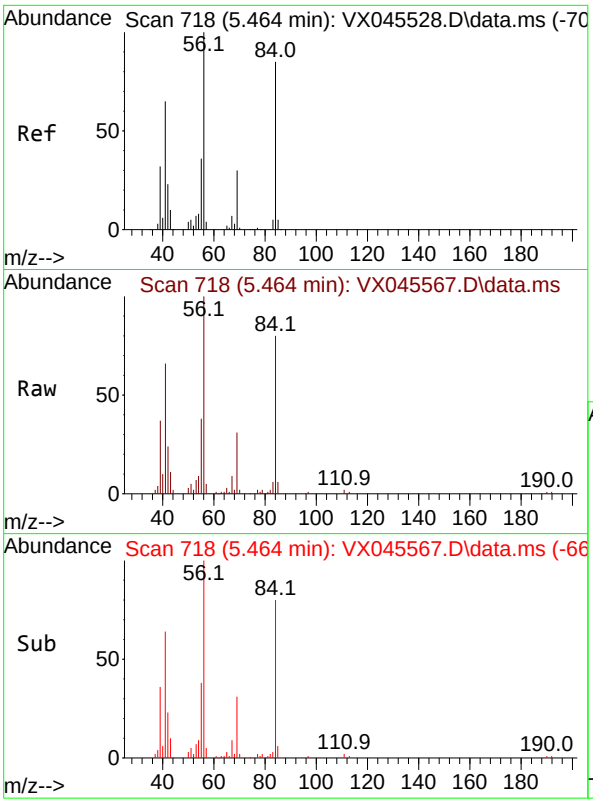


#30
Chloroform
Concen: 18.452 ug/l
RT: 5.092 min Scan# 657
Delta R.T. 0.006 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion: 83 Resp: 46139

Ion	Ratio	Lower	Upper
83	100		
85	59.7	52.8	79.2

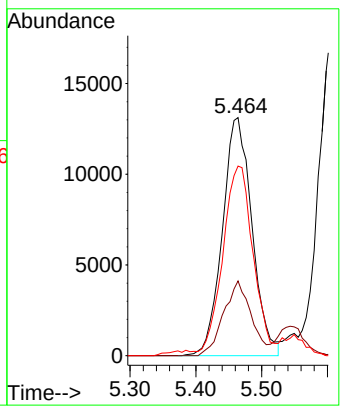




#31
Cyclohexane
Concen: 19.107 ug/l
RT: 5.464 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion: 56 Resp: 4104

Ion	Ratio	Lower	Upper
56	100		
69	31.4	23.6	35.4
84	77.6	67.7	101.5



Instrument :
MSVOA_X
ClientSampleId :
VX0403WBSD01

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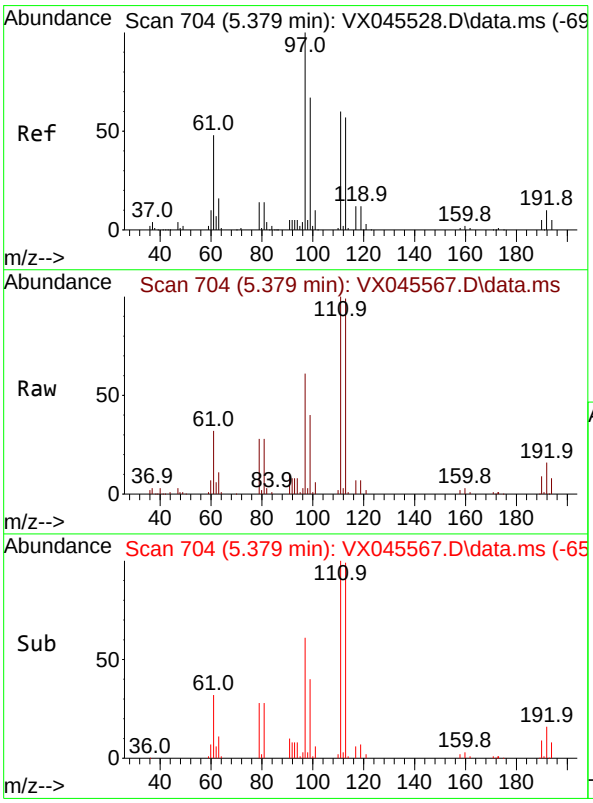
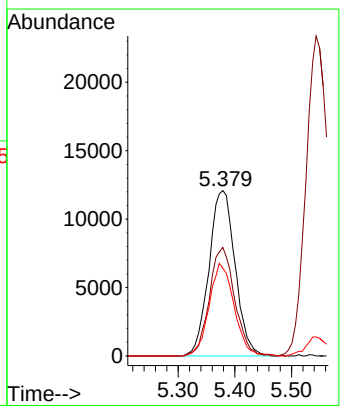
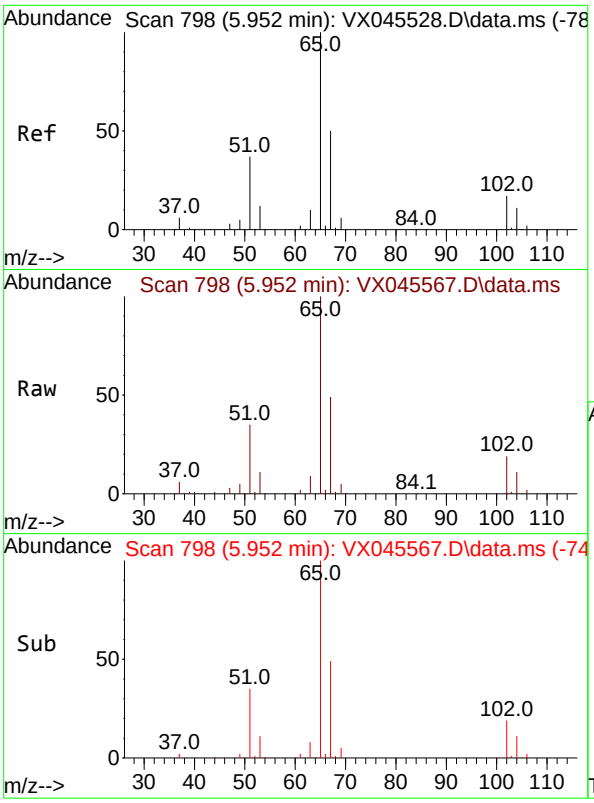


#32
1,1,1-Trichloroethane
Concen: 18.304 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.000 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion: 97 Resp: 38728

Ion	Ratio	Lower	Upper
97	100		
99	63.4	51.7	77.5
61	53.4	41.0	61.4

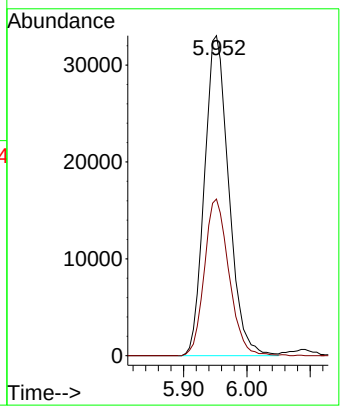




#33
1,2-Dichloroethane-d4
Concen: 50.377 ug/l
RT: 5.952 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion: 65 Resp: 8822

Ion	Ratio	Lower	Upper
65	100		
67	49.5	0.0	99.0



Instrument :
MSVOA_X
ClientSampleId :
VX0403WBSD01

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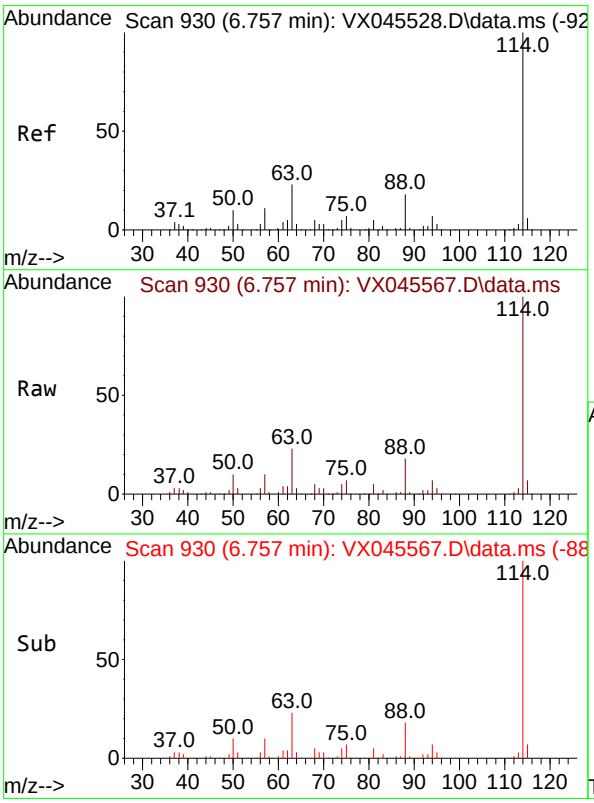
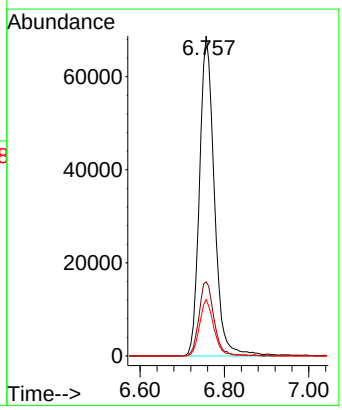
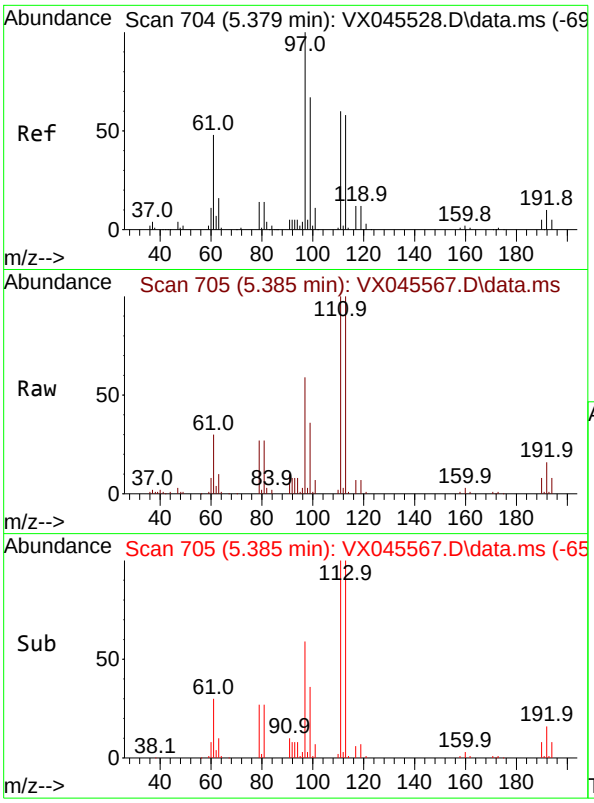


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion:114 Resp: 168463

Ion	Ratio	Lower	Upper
114	100		
63	23.2	0.0	46.8
88	17.6	0.0	35.4

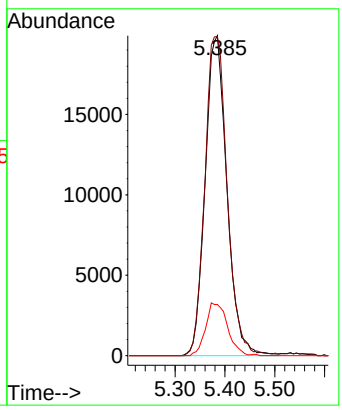




#35
Dibromofluoromethane
Concen: 50.390 ug/l
RT: 5.385 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion:113 Resp: 6022

Ion	Ratio	Lower	Upper
113	100		
111	102.7	81.8	122.6
192	16.6	13.8	20.6



Instrument :
MSVOA_X
ClientSampleId :
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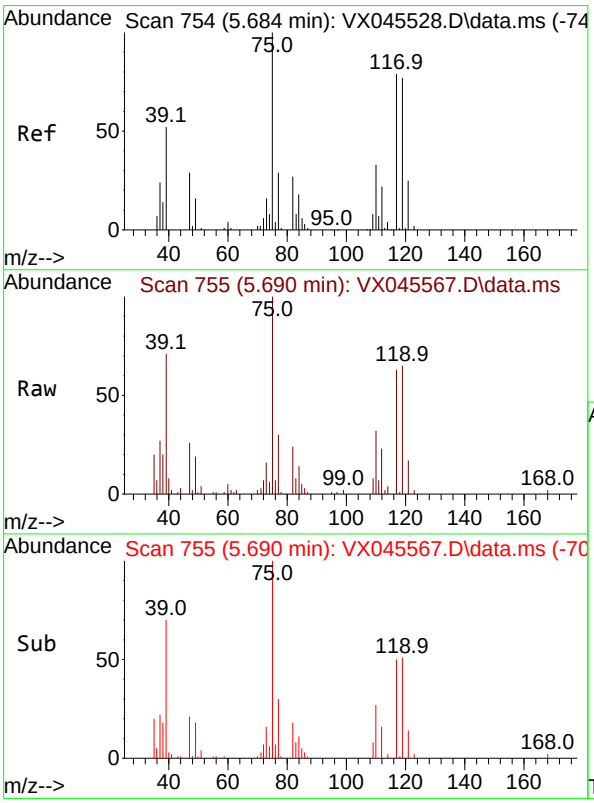
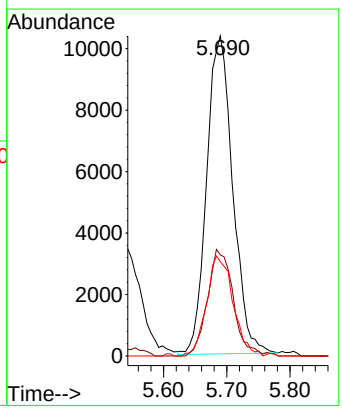
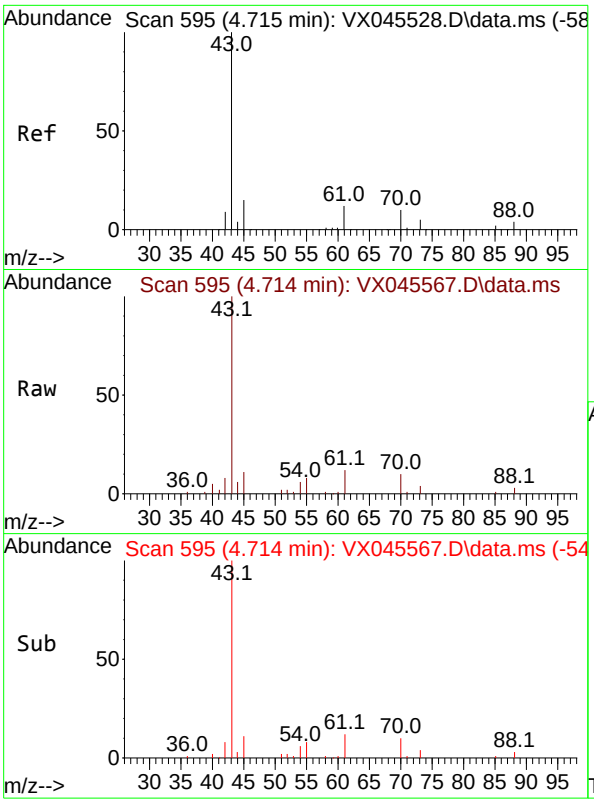


#36
1,1-Dichloropropene
Concen: 18.380 ug/l
RT: 5.690 min Scan# 755
Delta R.T. 0.006 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion: 75 Resp: 29662

Ion	Ratio	Lower	Upper
75	100		
110	33.2	16.9	50.6
77	31.9	25.0	37.4

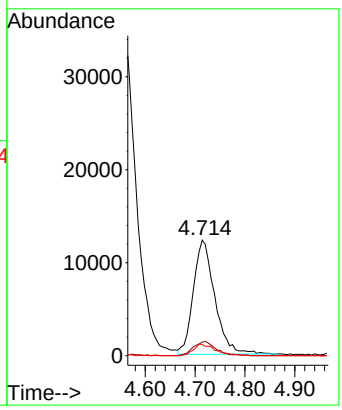




#37
Ethyl Acetate
Concen: 18.100 ug/l
RT: 4.714 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion: 43 Resp: 3681

Ion	Ratio	Lower	Upper
43	100		
61	13.1	9.9	14.9
70	10.3	7.5	11.3



Instrument :
MSVOA_X
ClientSampleId :
VX0403WBSD01

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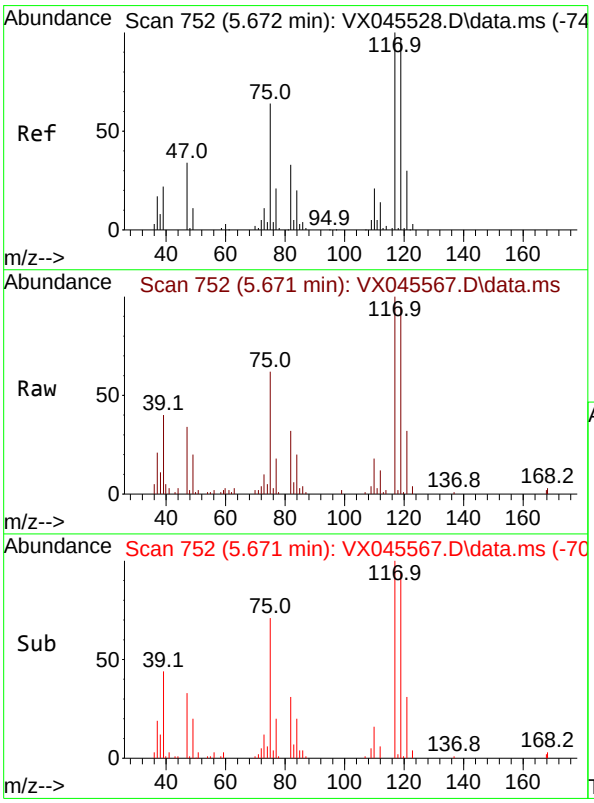
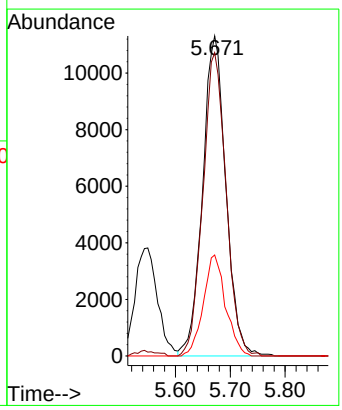
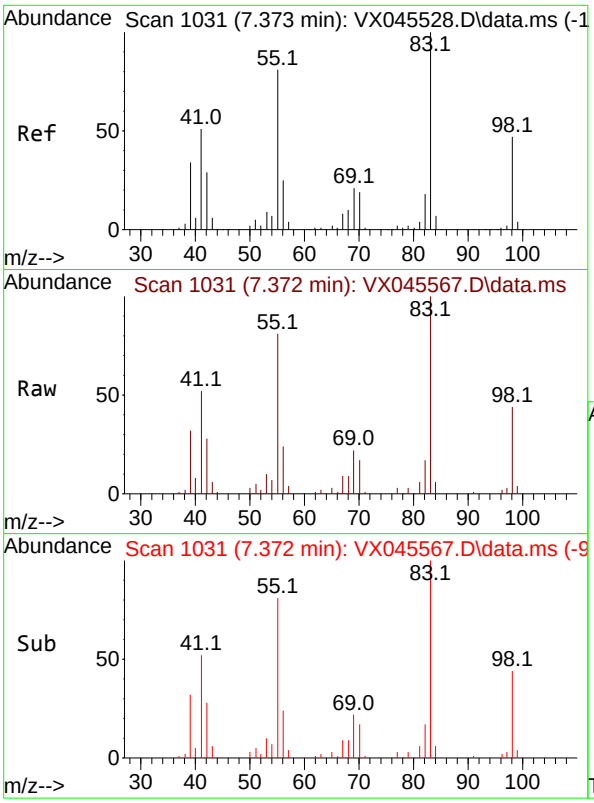


#38
Carbon Tetrachloride
Concen: 19.115 ug/l
RT: 5.671 min Scan# 752
Delta R.T. -0.000 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion:117 Resp: 33340

Ion	Ratio	Lower	Upper
117	100		
119	94.7	76.9	115.3
121	31.5	24.2	36.2

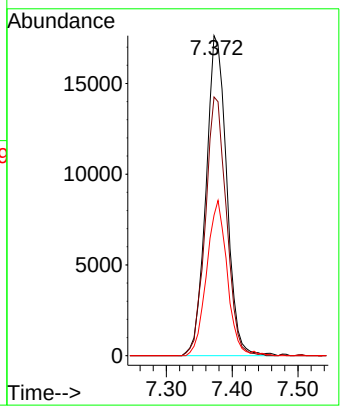




#39
Methylcyclohexane
Concen: 19.499 ug/l
RT: 7.372 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion: 83 Resp: 3857

Ion	Ratio	Lower	Upper
83	100		
55	80.9	64.9	97.3
98	43.9	37.4	56.0



Instrument :
MSVOA_X
ClientSampleId :
VX0403WBSD01

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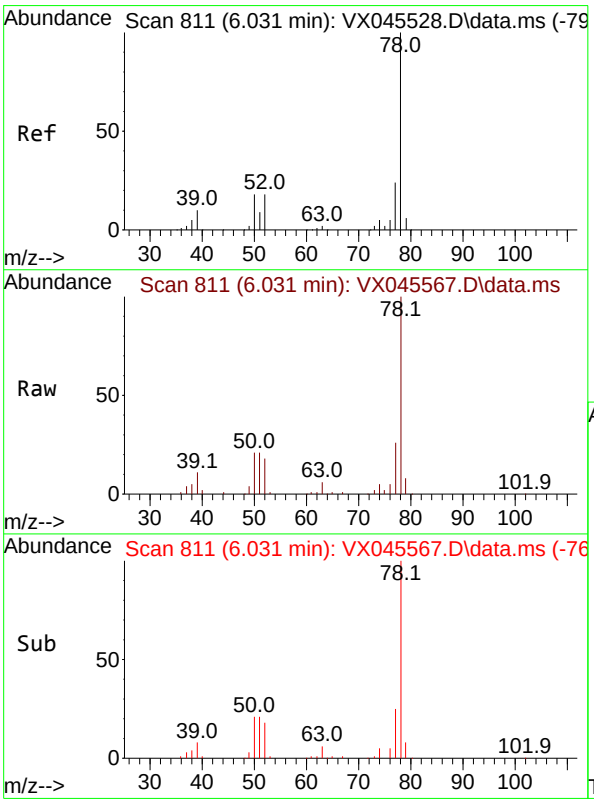
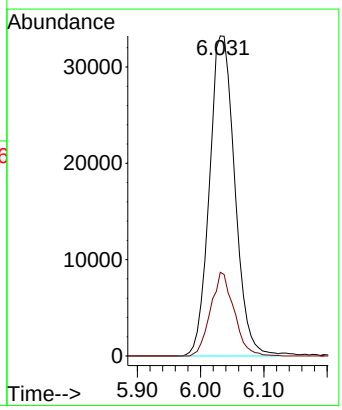
Reviewed By :Semsettin Yesilyurt 04/04/2025
Supervised By :Mahesh Dadoda 04/04/2025

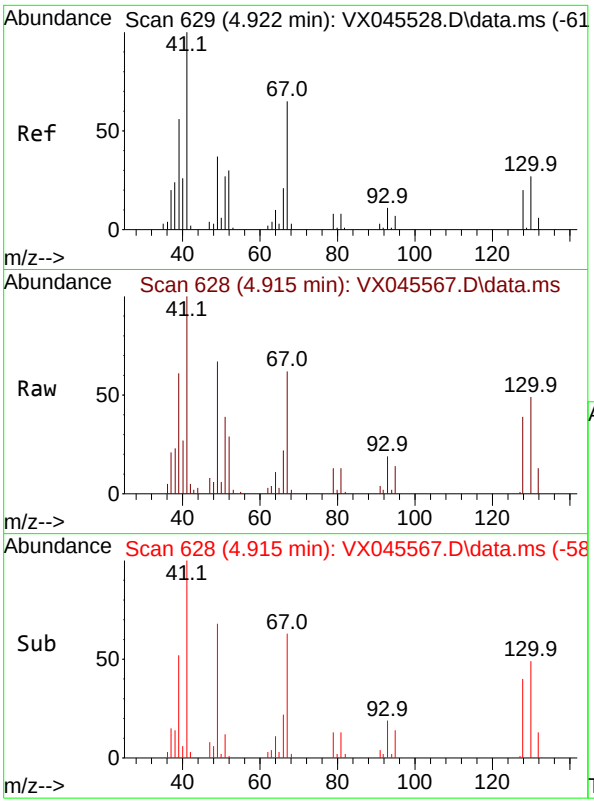


#40
Benzene
Concen: 18.760 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion: 78 Resp: 92464

Ion	Ratio	Lower	Upper
78	100		
77	26.1	19.0	28.6

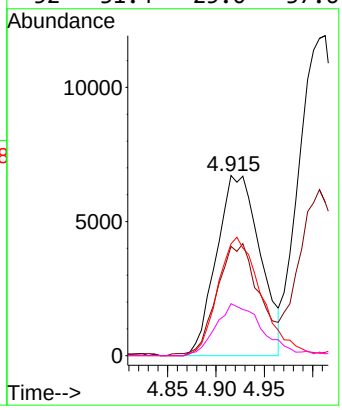




#41
Methacrylonitrile
Concen: 19.712 ug/l
RT: 4.915 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion: 41 Resp: 2115

Ion	Ratio	Lower	Upper
41	100		
39	60.7	47.0	70.6
67	65.4	53.2	79.8
52	31.4	25.0	37.6



Instrument :
MSVOA_X
ClientSampleId :
VX0403WBSD01

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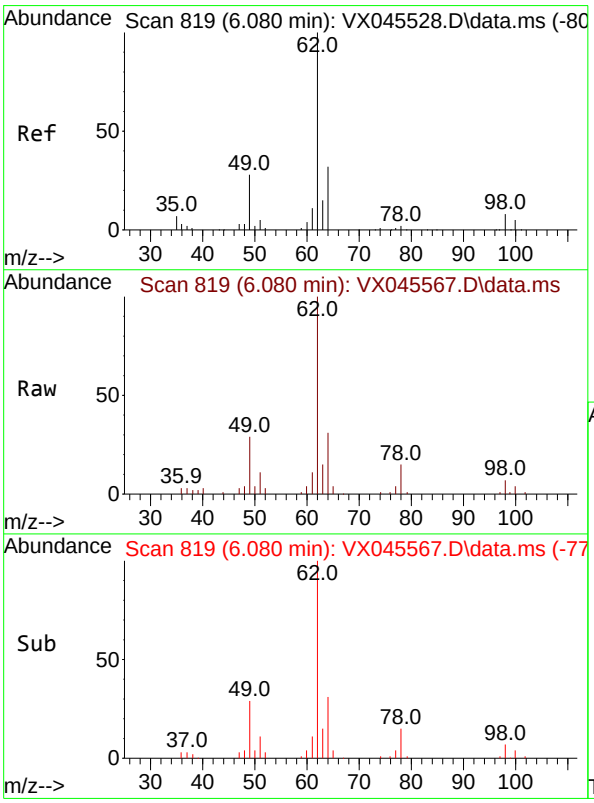
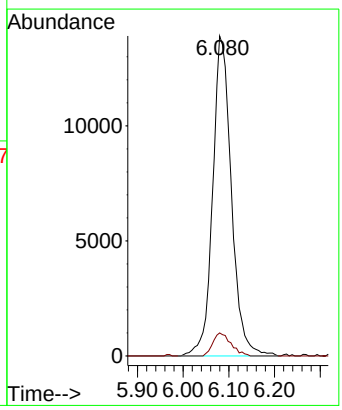
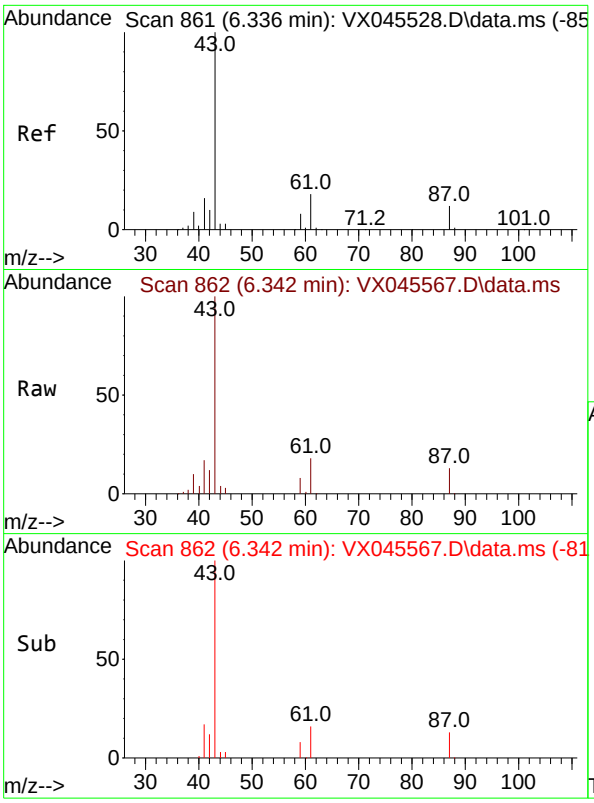


#42
1,2-Dichloroethane
Concen: 19.455 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.000 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion: 62 Resp: 39605

Ion	Ratio	Lower	Upper
62	100		
98	7.0	0.0	15.2





#43
Isopropyl Acetate
Concen: 18.205 ug/l
RT: 6.342 min Scan# 8
Delta R.T. 0.006 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion: 43 Resp: 5611

Ion	Ratio	Lower	Upper
43	100		
61	17.6	14.1	21.1
87	11.6	9.2	13.8

Instrument :
MSVOA_X
ClientSampleId :
VX0403WBSD01

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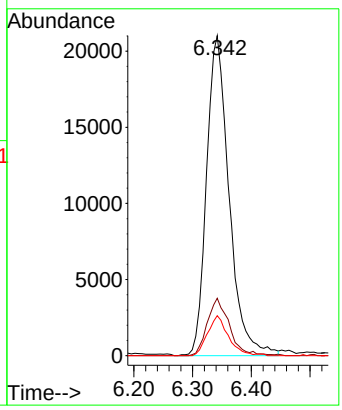
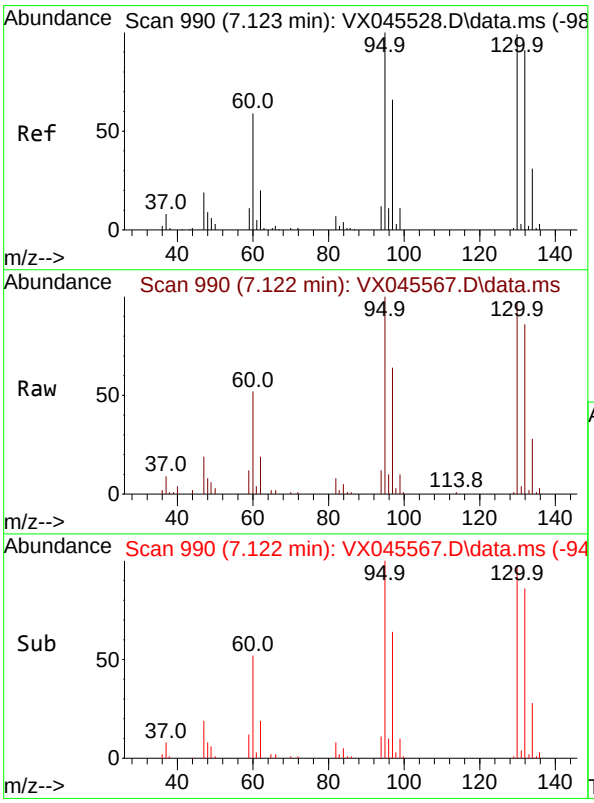
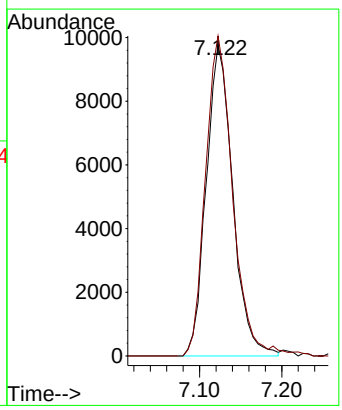


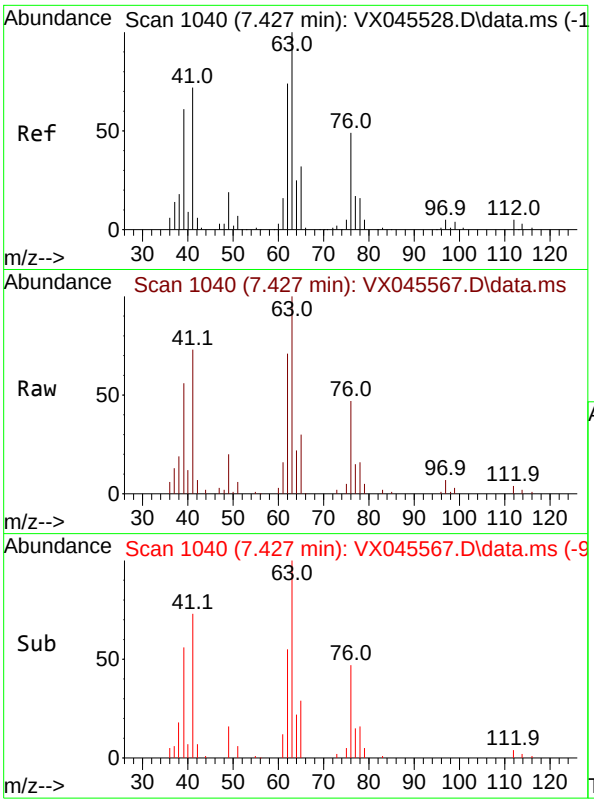


#44
Trichloroethene
Concen: 18.693 ug/l
RT: 7.122 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion:130 Resp: 21899

Ion	Ratio	Lower	Upper
130	100		
95	102.9	0.0	202.0

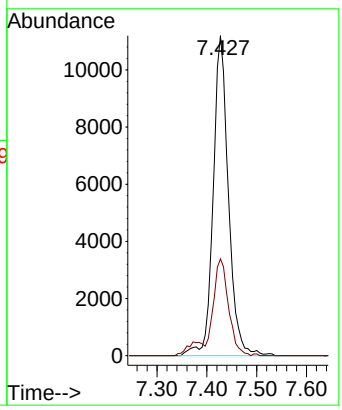




#45
1,2-Dichloropropane
Concen: 19.374 ug/l
RT: 7.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion: 63 Resp: 2382

Ion	Ratio	Lower	Upper
63	100		
65	30.3	25.8	38.6



Instrument :
MSVOA_X
ClientSampleId :
VX0403WBSD01

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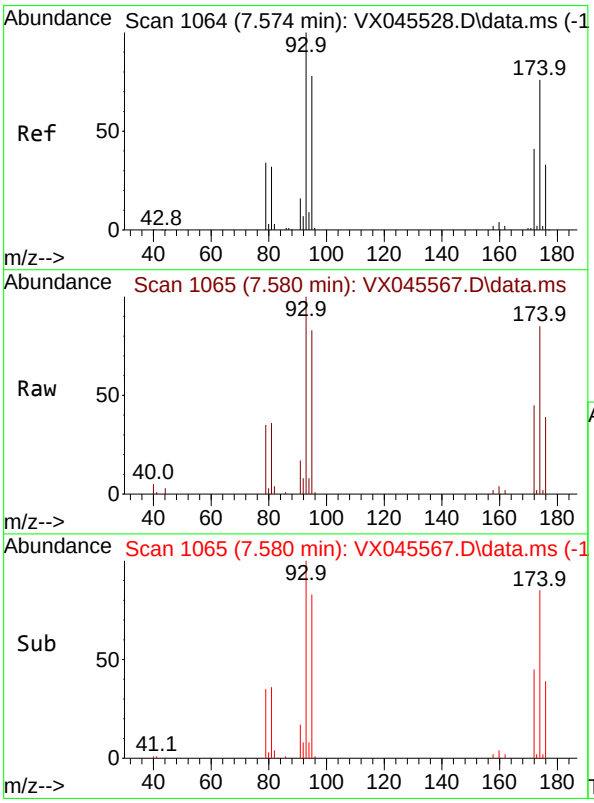
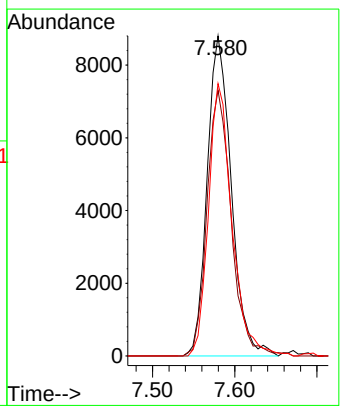
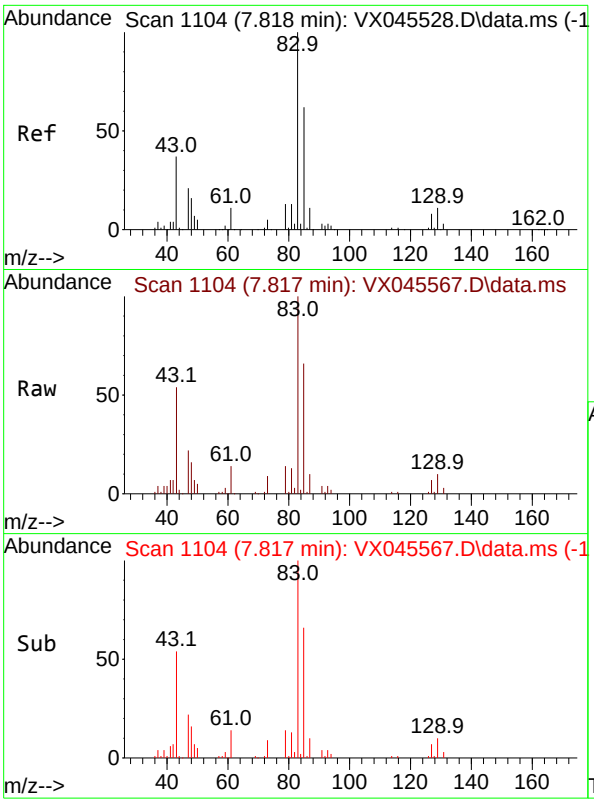


#46
Dibromomethane
Concen: 18.975 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. 0.006 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion: 93 Resp: 17913

Ion	Ratio	Lower	Upper
93	100		
95	83.8	64.8	97.2
174	83.1	65.4	98.0

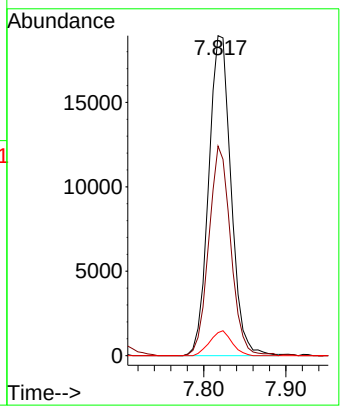




#47
Bromodichloromethane
Concen: 18.978 ug/l
RT: 7.817 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion: 83 Resp: 3577

Ion	Ratio	Lower	Upper
83	100		
85	65.5	49.7	74.5
127	7.2	6.1	9.1



Instrument :
MSVOA_X
ClientSampleId :
VX0403WBSD01

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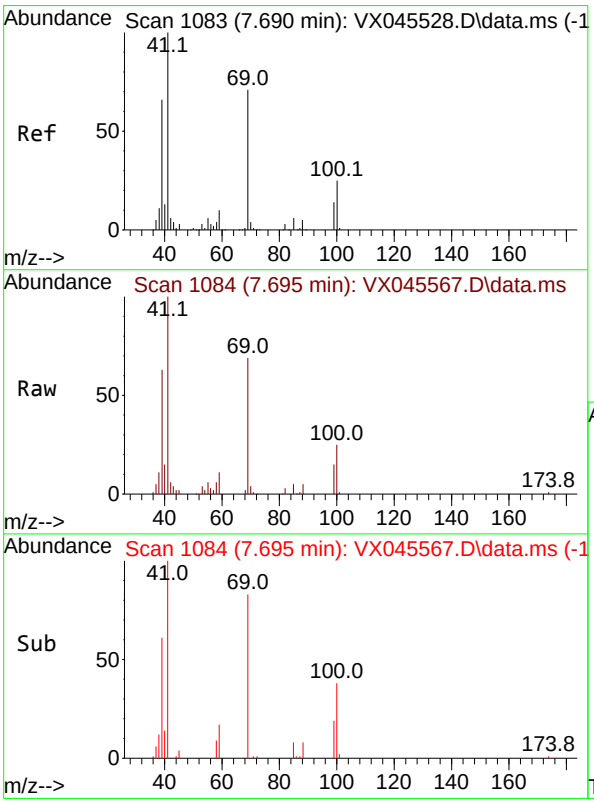
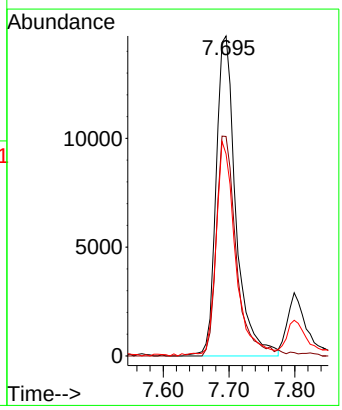
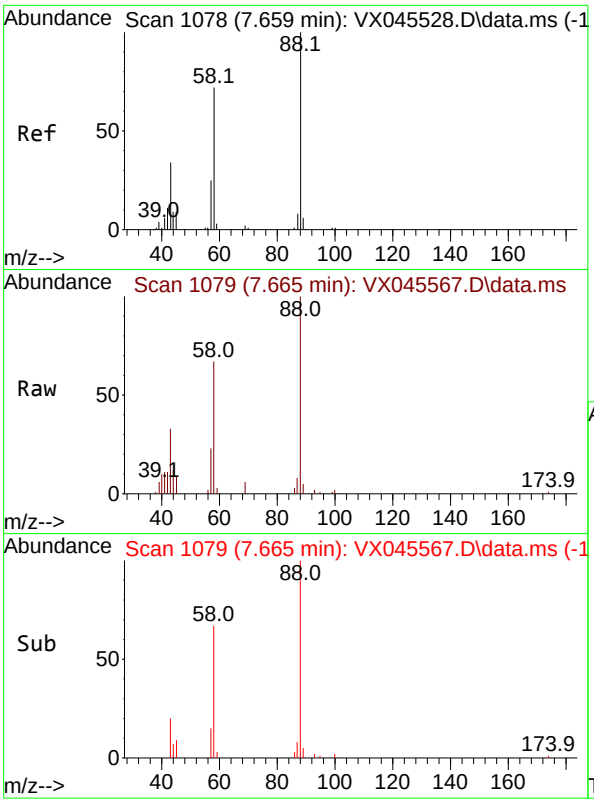


#48
Methyl methacrylate
Concen: 19.278 ug/l
RT: 7.695 min Scan# 1084
Delta R.T. 0.006 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion: 41 Resp: 30681

Ion	Ratio	Lower	Upper
41	100		
69	69.4	58.2	87.2
39	66.3	53.6	80.4

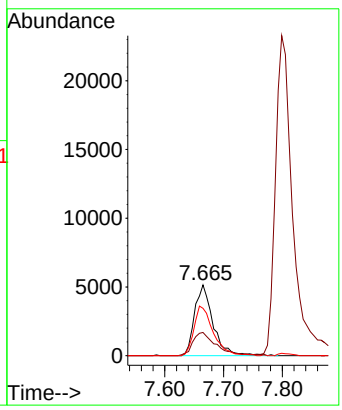




#49
1,4-Dioxane
Concen: 390.386 ug/l
RT: 7.665 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion: 88 Resp: 1124

Ion	Ratio	Lower	Upper
88	100		
43	41.1	32.2	48.4
58	72.6	58.6	88.0



Instrument :
MSVOA_X
ClientSampleId :
VX0403WBSD01

Manual Integrations
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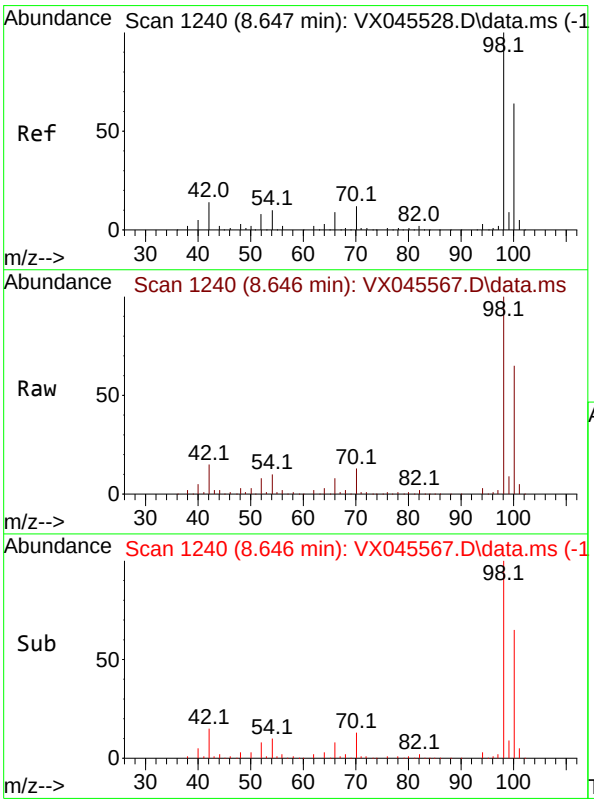
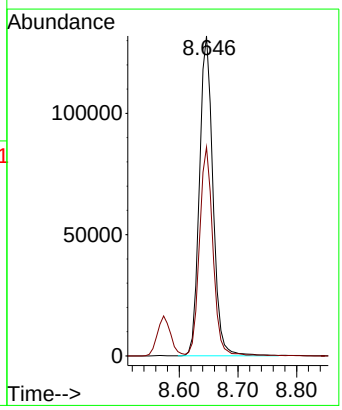
Supervised By :Mahesh Dadoda 04/04/2025

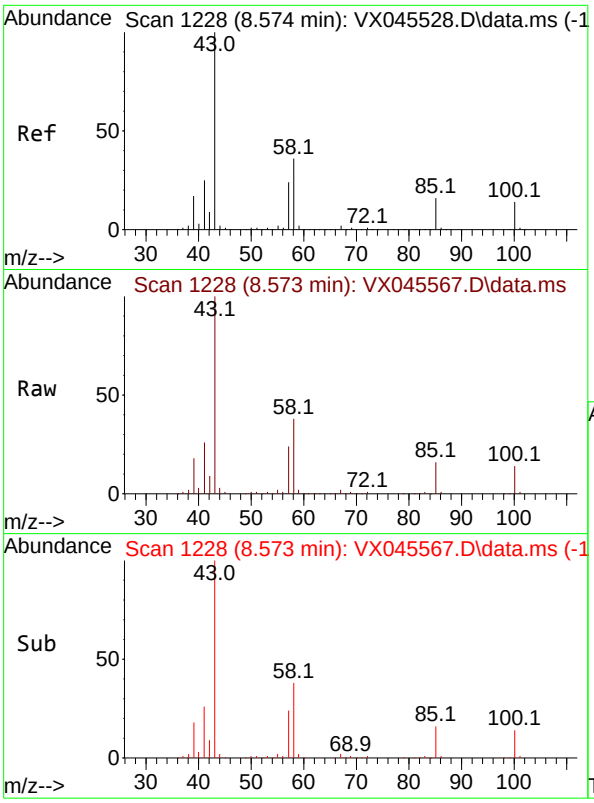


#50
Toluene-d8
Concen: 50.553 ug/l
RT: 8.646 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion: 98 Resp: 210903

Ion	Ratio	Lower	Upper
98	100		
100	64.6	52.2	78.4

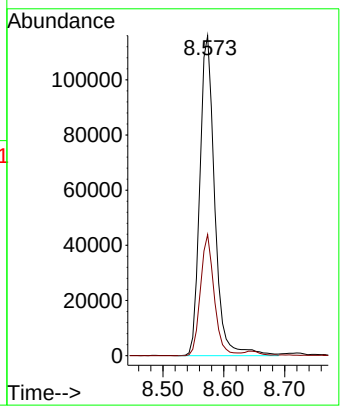




#51
4-Methyl-2-Pentanone
Concen: 96.367 ug/l
RT: 8.573 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion: 43 Resp: 19691

Ion	Ratio	Lower	Upper
43	100		
58	35.1	28.5	42.7



Instrument :
MSVOA_X
ClientSampleId :
VX0403WBSD01

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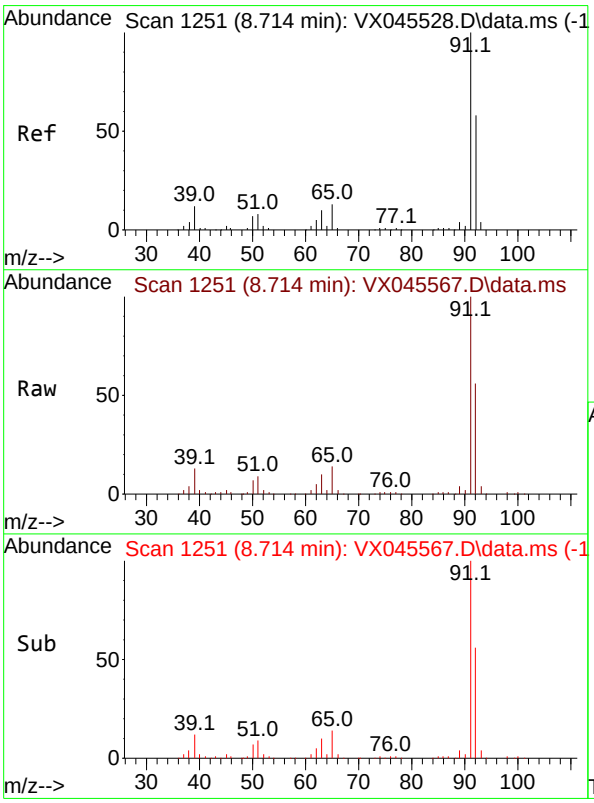
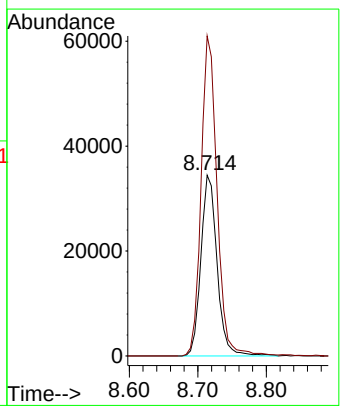
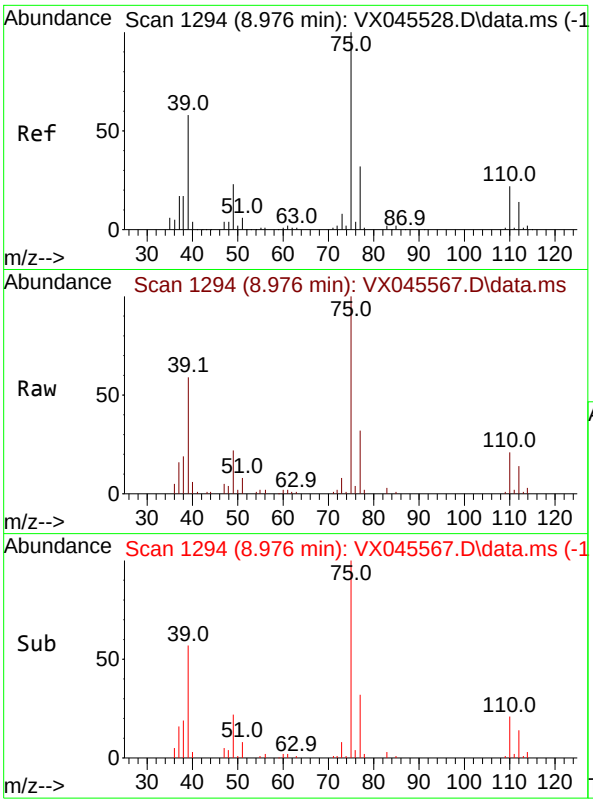


#52
Toluene
Concen: 19.048 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion: 92 Resp: 56808

Ion	Ratio	Lower	Upper
92	100		
91	174.0	138.7	208.1

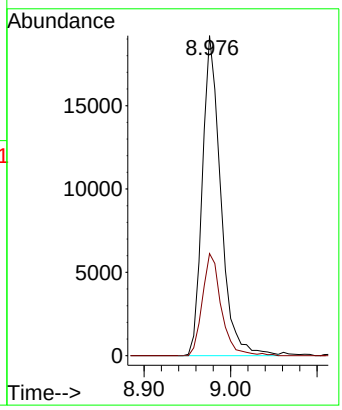




#53
t-1,3-Dichloropropene
Concen: 17.207 ug/l
RT: 8.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion: 75 Resp: 2834

Ion	Ratio	Lower	Upper
75	100		
77	31.9	25.4	38.0



Instrument :
MSVOA_X
ClientSampleId :
VX0403WBSD01

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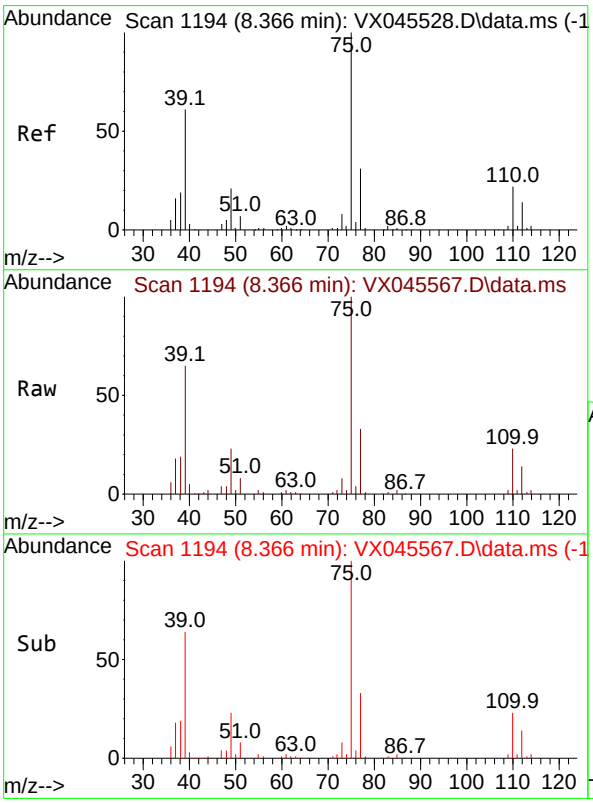
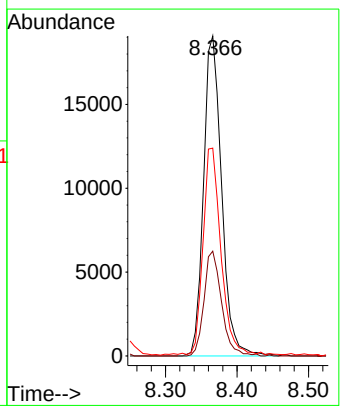
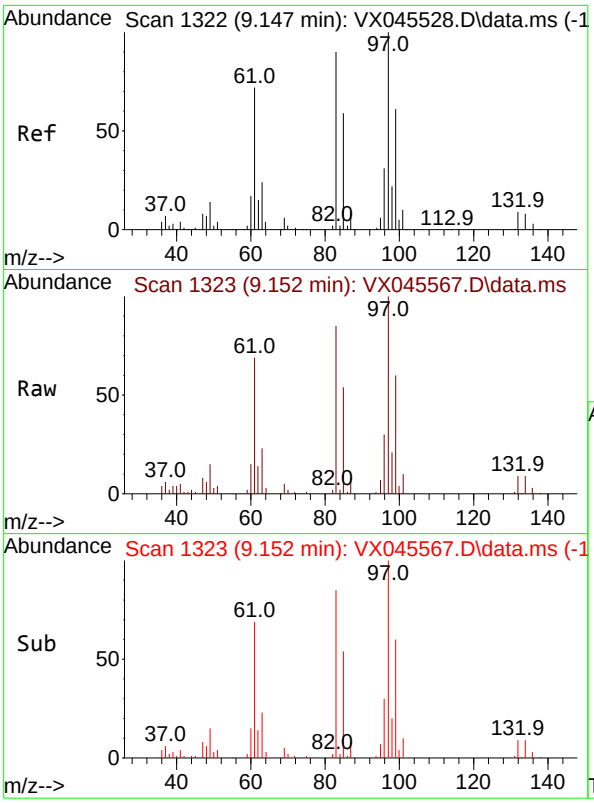


#54
cis-1,3-Dichloropropene
Concen: 18.910 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.000 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion: 75 Resp: 33501

Ion	Ratio	Lower	Upper
75	100		
77	32.7	24.6	36.8
39	64.4	48.4	72.6

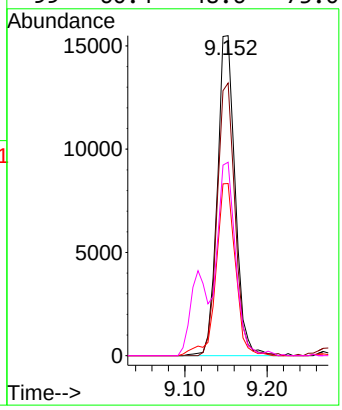




#55
1,1,2-Trichloroethane
Concen: 19.687 ug/l
RT: 9.152 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion: 97 Resp: 2339

Ion	Ratio	Lower	Upper
97	100		
83	85.2	71.8	107.8
85	53.8	47.0	70.6
99	60.4	48.6	73.0



Instrument :
MSVOA_X
ClientSampleId :
VX0403WBSD01

Manual Integrations
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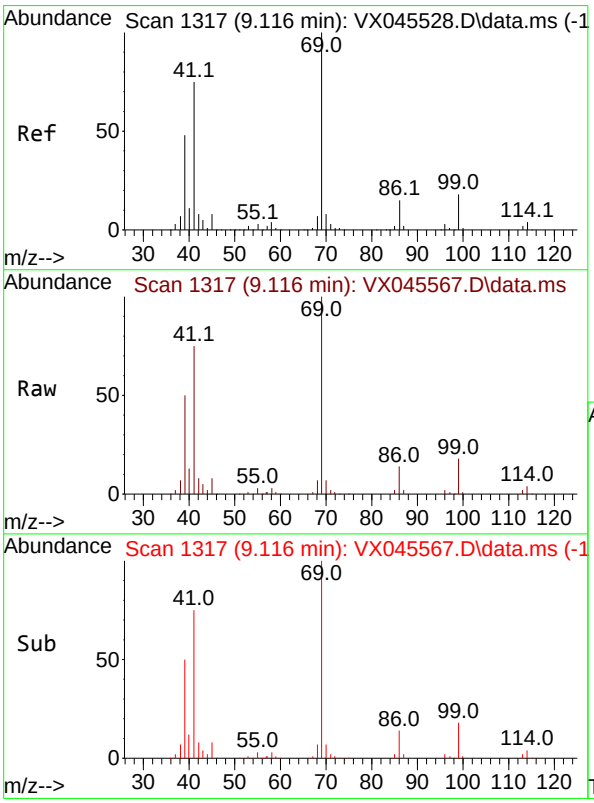
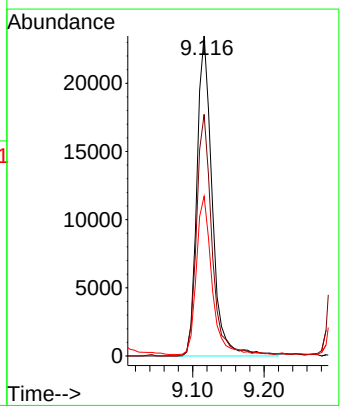
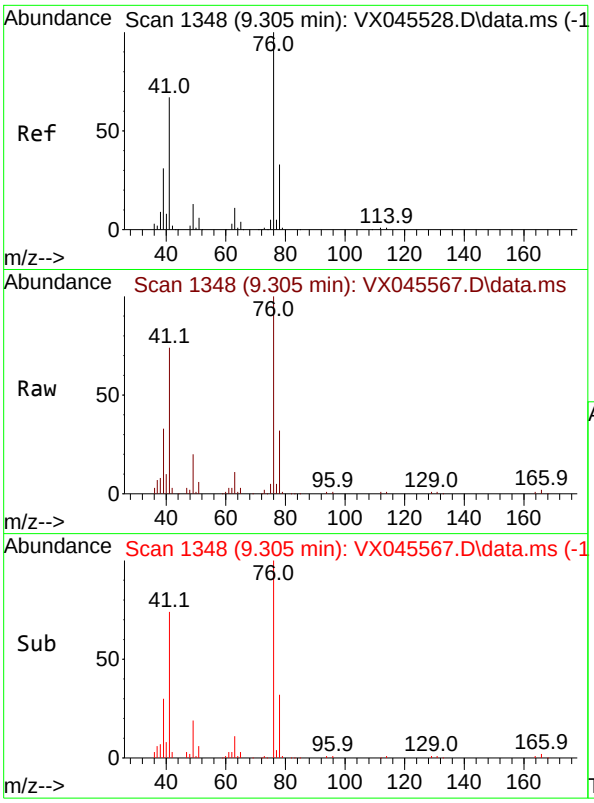


#56
Ethyl methacrylate
Concen: 18.917 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion: 69 Resp: 34794

Ion	Ratio	Lower	Upper
69	100		
41	76.8	61.3	91.9
39	50.2	40.2	60.2

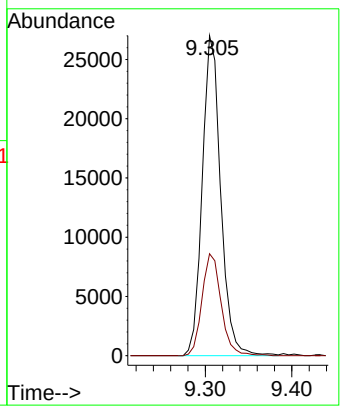




#57
1,3-Dichloropropane
Concen: 19.289 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion: 76 Resp: 3992

Ion	Ratio	Lower	Upper
76	100		
78	33.0	26.0	39.0



Instrument :
MSVOA_X
ClientSampleId :
VX0403WBSD01

Manual Integrations
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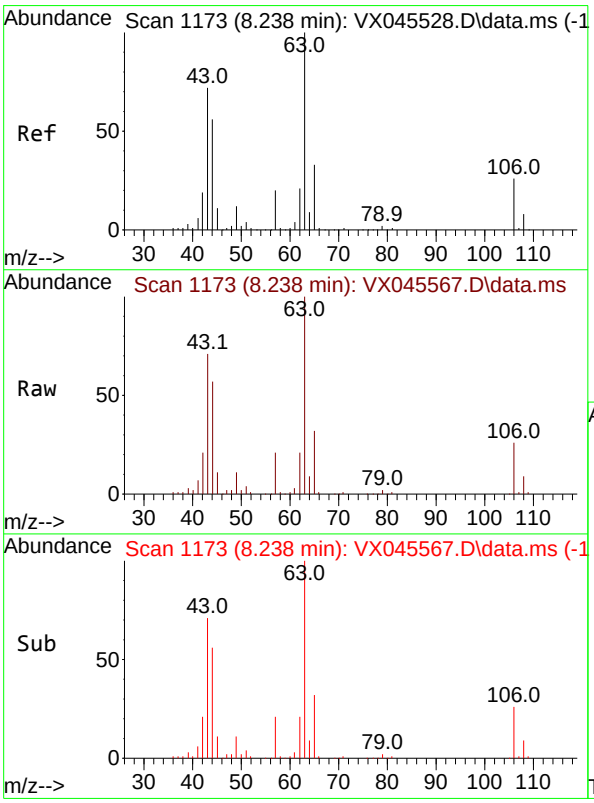
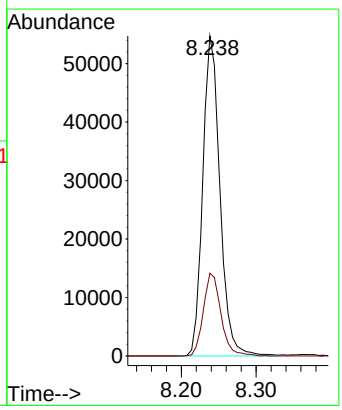
Reviewed By :Semsettin Yesilyurt 04/04/2025
Supervised By :Mahesh Dadoda 04/04/2025

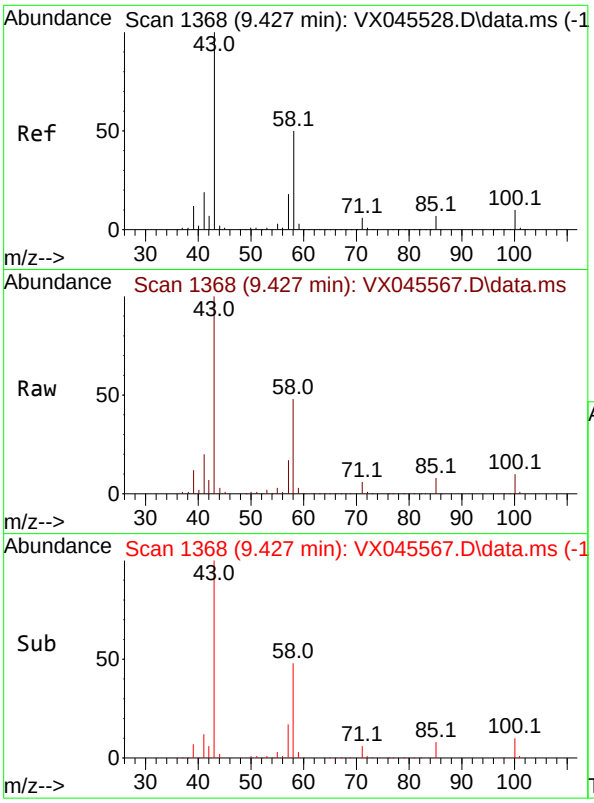


#58
2-Chloroethyl Vinyl ether
Concen: 93.943 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion: 63 Resp: 87408

Ion	Ratio	Lower	Upper
63	100		
106	26.5	21.0	31.6

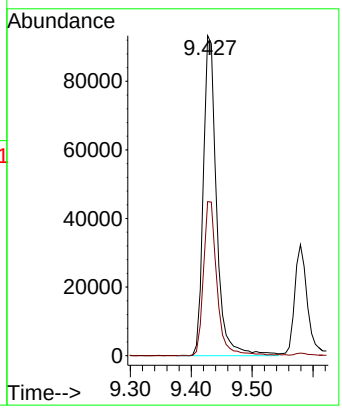




#59
2-Hexanone
Concen: 93.514 ug/l
RT: 9.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion: 43 Resp: 14150

Ion	Ratio	Lower	Upper
43	100		
58	49.0	24.9	74.6



Instrument :
MSVOA_X
ClientSampleId :
VX0403WBSD01

Manual Integrations
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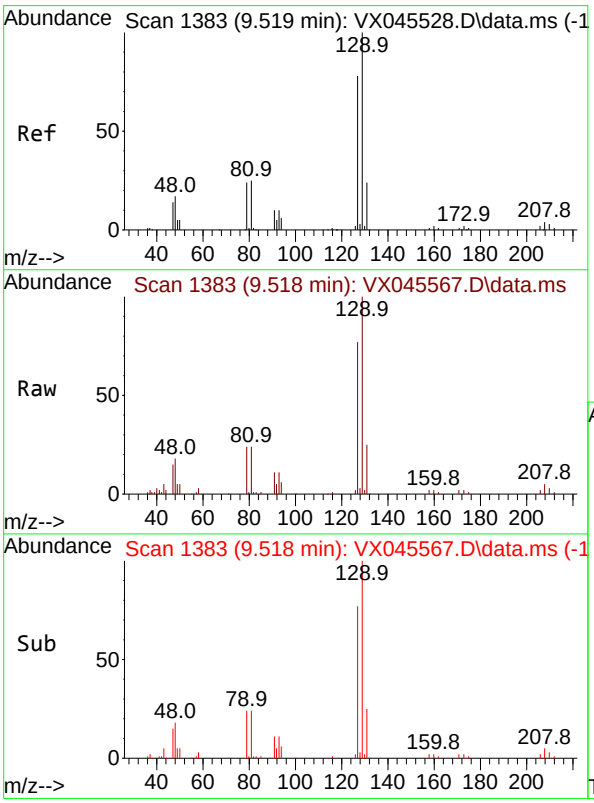
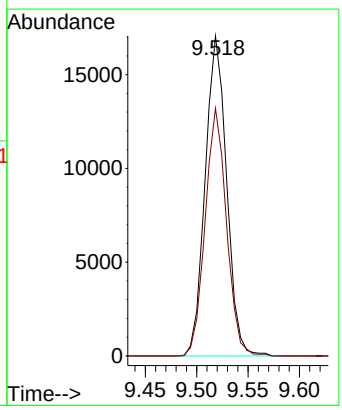
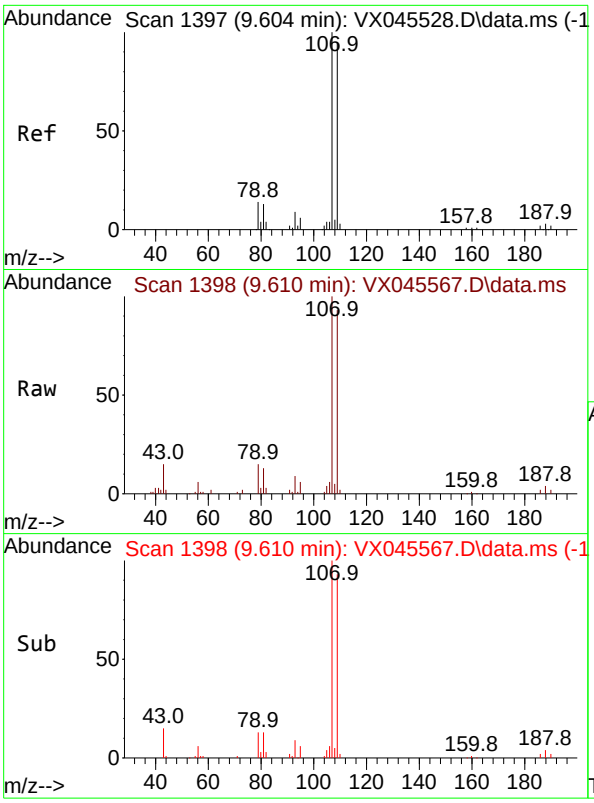


#60
Dibromochloromethane
Concen: 19.118 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion:129 Resp: 24770

Ion	Ratio	Lower	Upper
129	100		
127	77.0	39.4	118.2

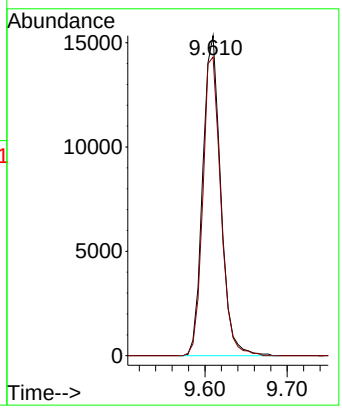




#61
1,2-Dibromoethane
Concen: 19.368 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion:107 Resp: 2330

Ion	Ratio	Lower	Upper
107	100		
109	93.3	75.7	113.5



Instrument :
MSVOA_X
ClientSampleId :
VX0403WBSD01

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Reviewed By :Semsettin Yesilyurt 04/04/2025
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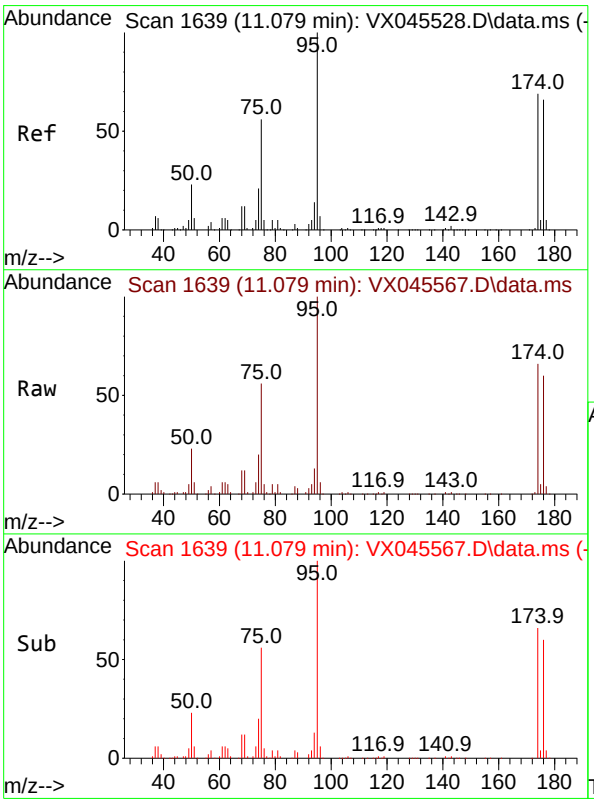
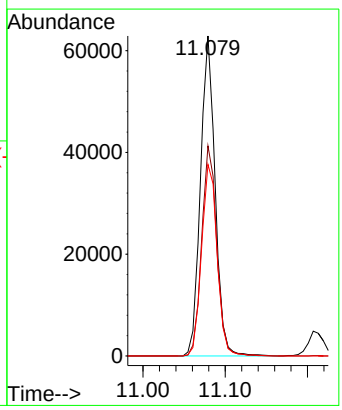
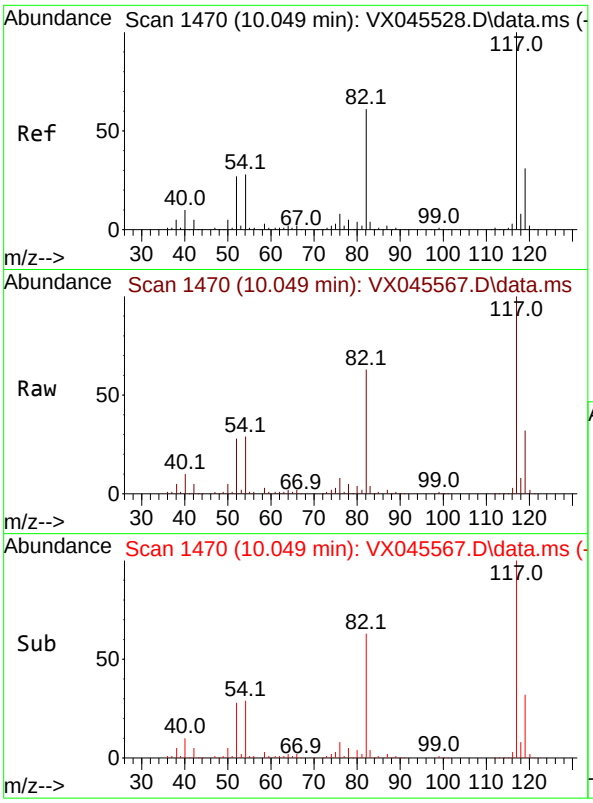


#62
4-Bromofluorobenzene
Concen: 51.256 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion: 95 Resp: 77889

Ion	Ratio	Lower	Upper
95	100		
174	67.6	0.0	135.8
176	63.3	0.0	131.4

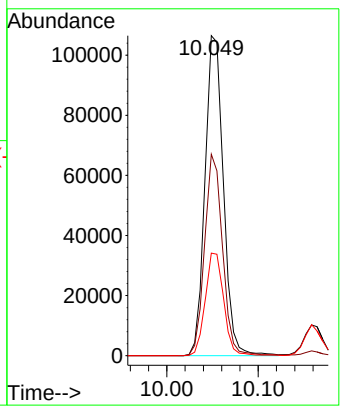




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion:117 Resp: 14886

Ion	Ratio	Lower	Upper
117	100		
82	63.0	49.2	73.8
119	32.1	25.1	37.7



Instrument :
MSVOA_X
ClientSampleId :
VX0403WBSD01

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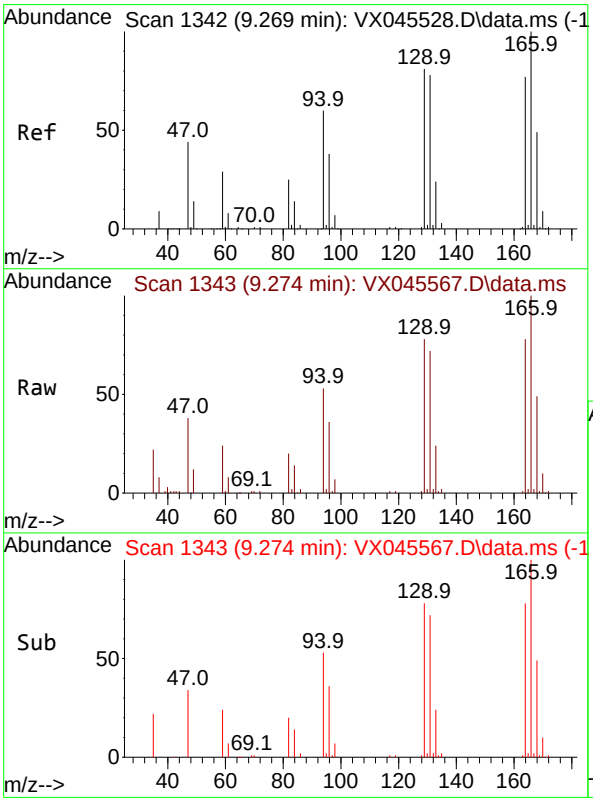
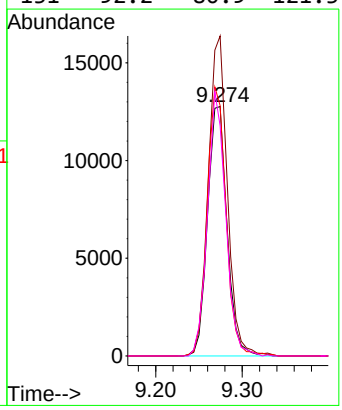
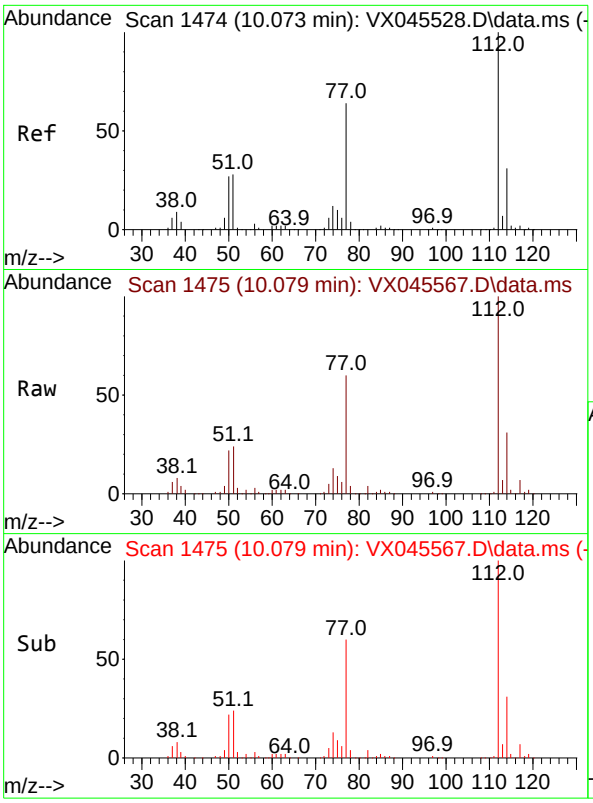


#64
Tetrachloroethene
Concen: 18.983 ug/l
RT: 9.274 min Scan# 1343
Delta R.T. 0.005 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion:164 Resp: 19952

Ion	Ratio	Lower	Upper
164	100		
166	128.3	103.8	155.8
129	100.4	84.3	126.5
131	92.2	80.9	121.3

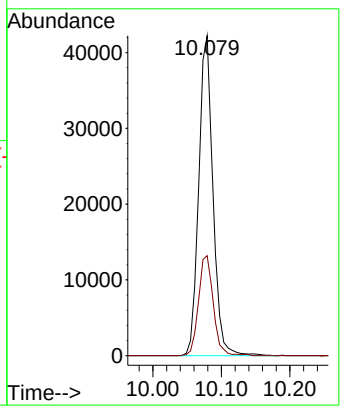




#65
Chlorobenzene
Concen: 19.211 ug/l
RT: 10.079 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion:112 Resp: 6111

Ion	Ratio	Lower	Upper
112	100		
114	31.2	24.7	37.1



Instrument :
MSVOA_X
ClientSampleId :
VX0403WBSD01

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 04/04/2025
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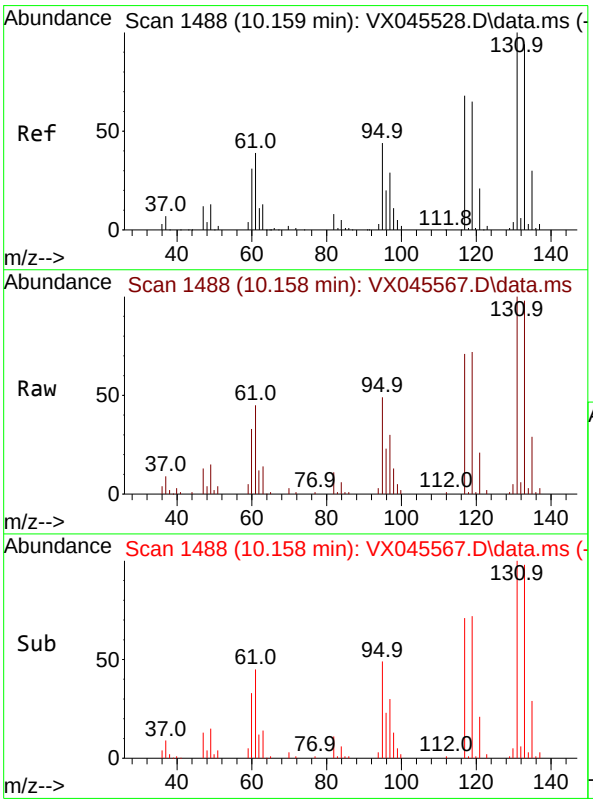
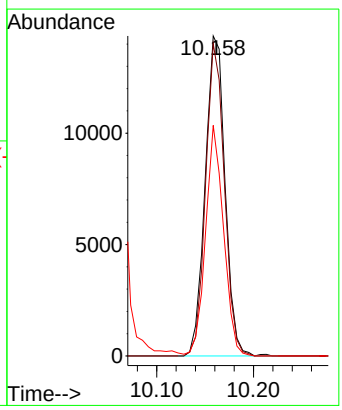
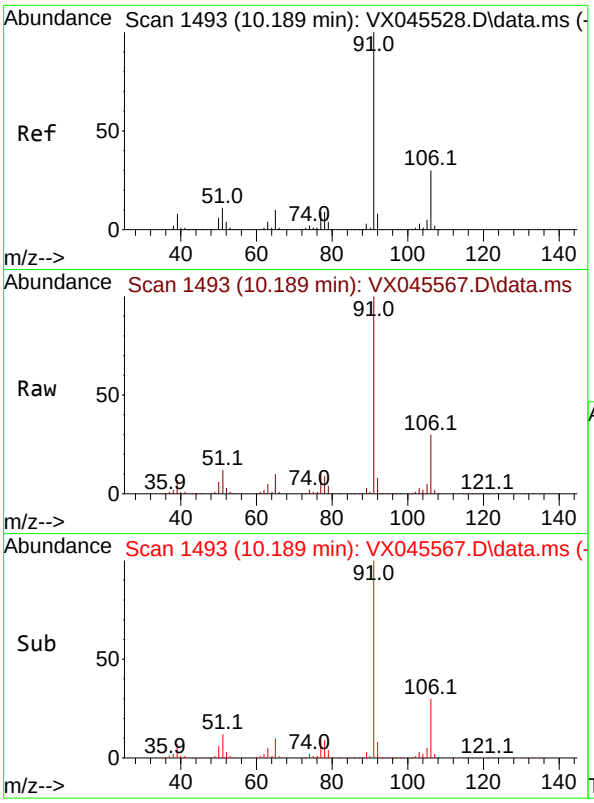


#66
1,1,1,2-Tetrachloroethane
Concen: 18.596 ug/l
RT: 10.158 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion:131 Resp: 20538

Ion	Ratio	Lower	Upper
131	100		
133	92.1	47.5	142.5
119	65.3	32.9	98.6

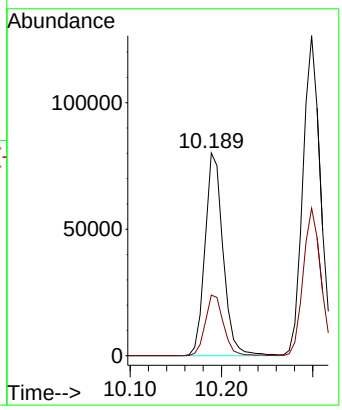




#67
Ethyl Benzene
Concen: 19.296 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion: 91 Resp: 10993

Ion	Ratio	Lower	Upper
91	100		
106	29.9	23.7	35.5



Instrument :
MSVOA_X
ClientSampleId :
VX0403WBSD01

Manual Integrations
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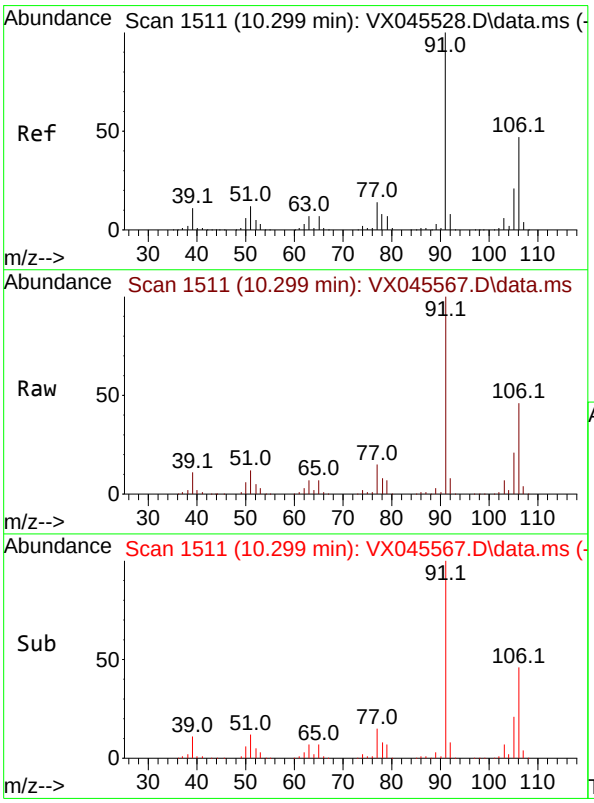
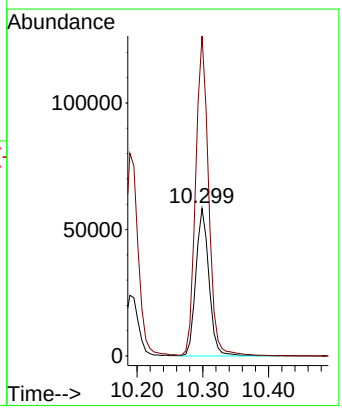
Reviewed By :Semsettin Yesilyurt 04/04/2025
Supervised By :Mahesh Dadoda 04/04/2025

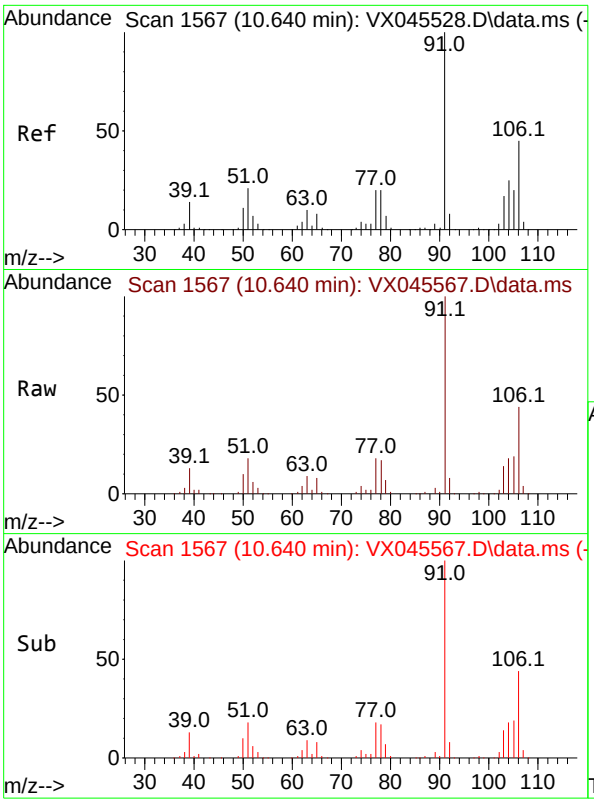


#68
m/p-Xylenes
Concen: 38.859 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion:106 Resp: 80523

Ion	Ratio	Lower	Upper
106	100		
91	213.6	172.6	258.8

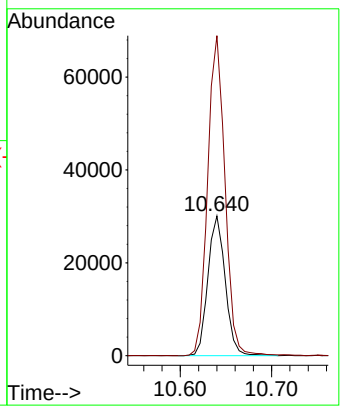




#69
o-Xylene
Concen: 19.423 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion:106 Resp: 3964

Ion	Ratio	Lower	Upper
106	100		
91	228.9	113.6	340.6



Instrument :
MSVOA_X
ClientSampleId :
VX0403WBSD01

Manual Integrations
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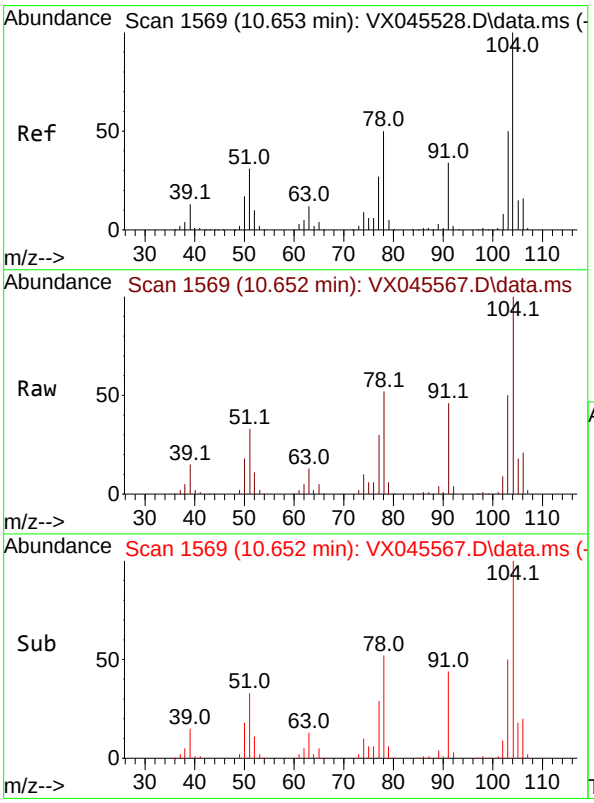
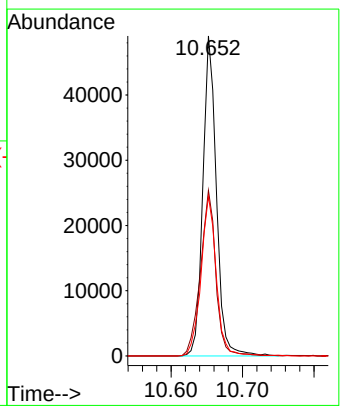
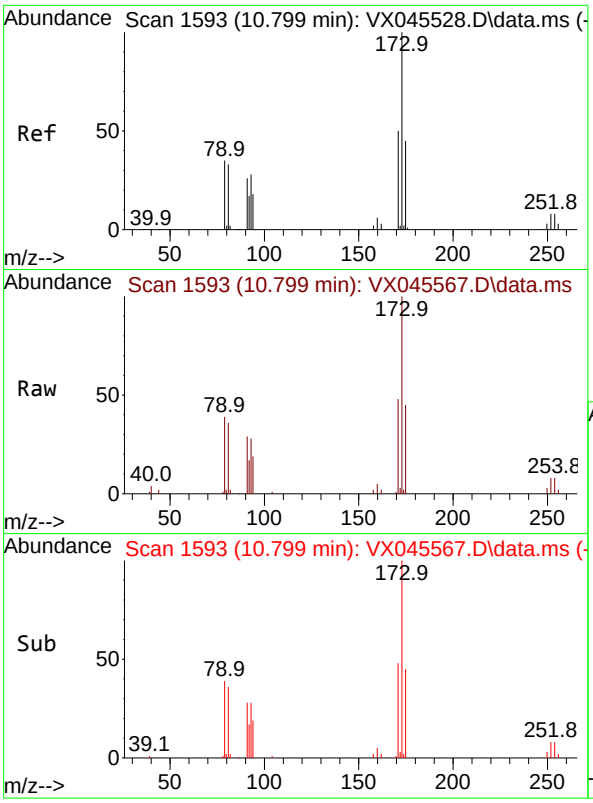


#70
Styrene
Concen: 19.212 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion:104 Resp: 64729

Ion	Ratio	Lower	Upper
104	100		
78	58.7	45.4	68.2
103	56.1	43.8	65.8

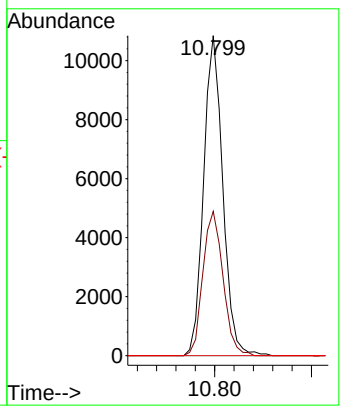




#71
Bromoform
Concen: 18.119 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion:173 Resp: 1494

Ion	Ratio	Lower	Upper
173	100		
175	47.4	23.4	70.2
254	0.0	0.0	0.0



Instrument :
MSVOA_X
ClientSampleId :
VX0403WBSD01

Manual Integrations
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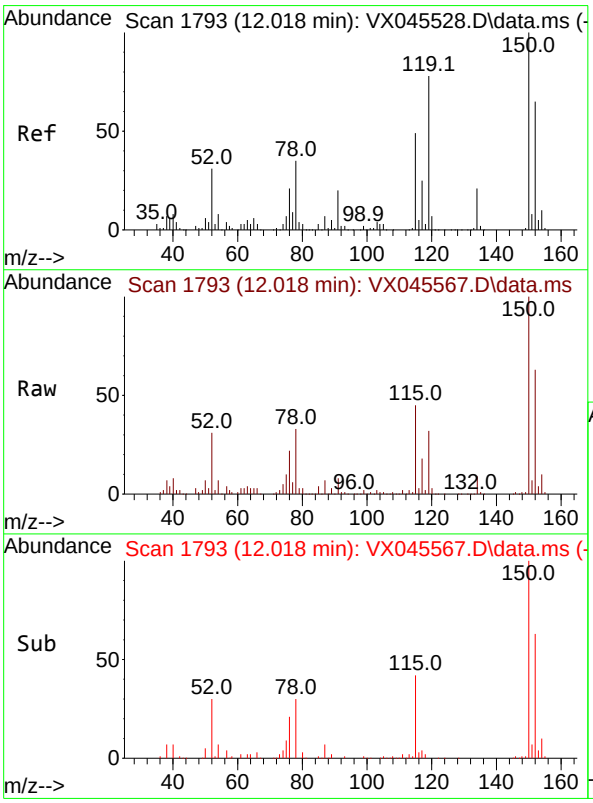
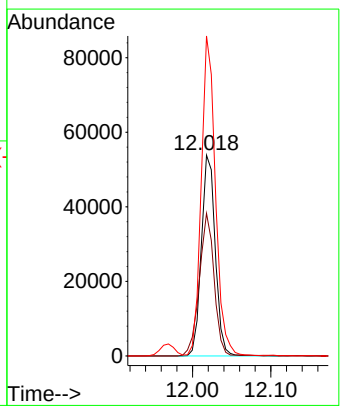
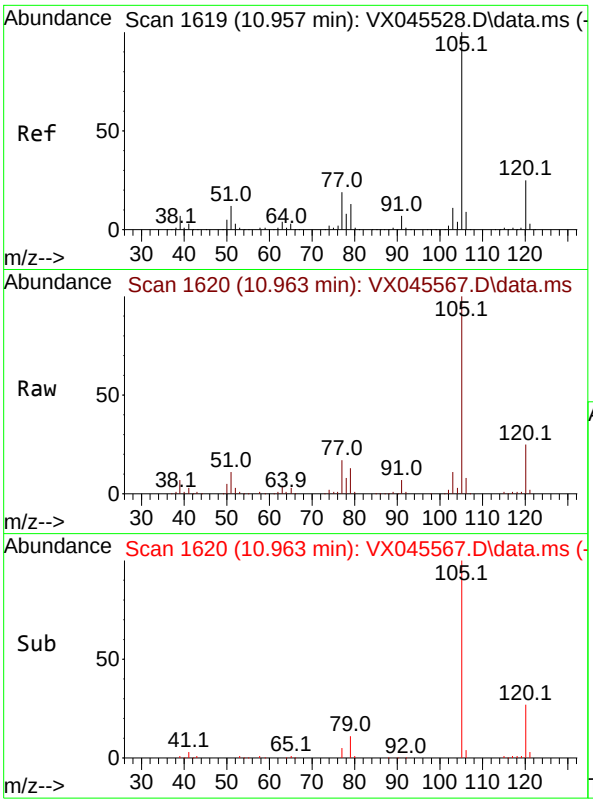


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion:152 Resp: 66417

Ion	Ratio	Lower	Upper
152	100		
115	75.3	46.9	140.7
150	161.7	0.0	349.4

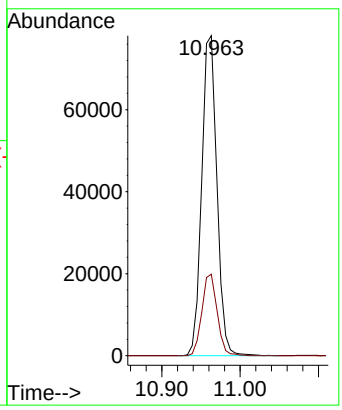




#73
Isopropylbenzene
Concen: 19.729 ug/l
RT: 10.963 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion:105 Resp: 10495

Ion	Ratio	Lower	Upper
105	100		
120	25.6	12.7	38.0



Instrument :
MSVOA_X
ClientSampleId :
VX0403WBSD01

Manual Integrations
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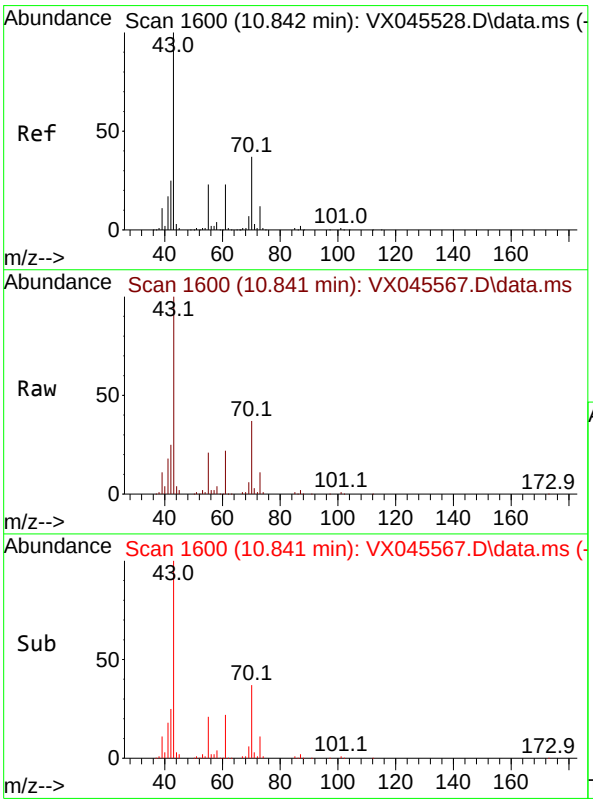
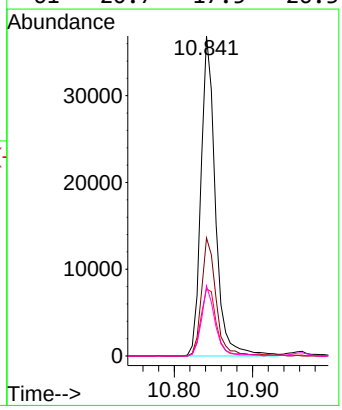
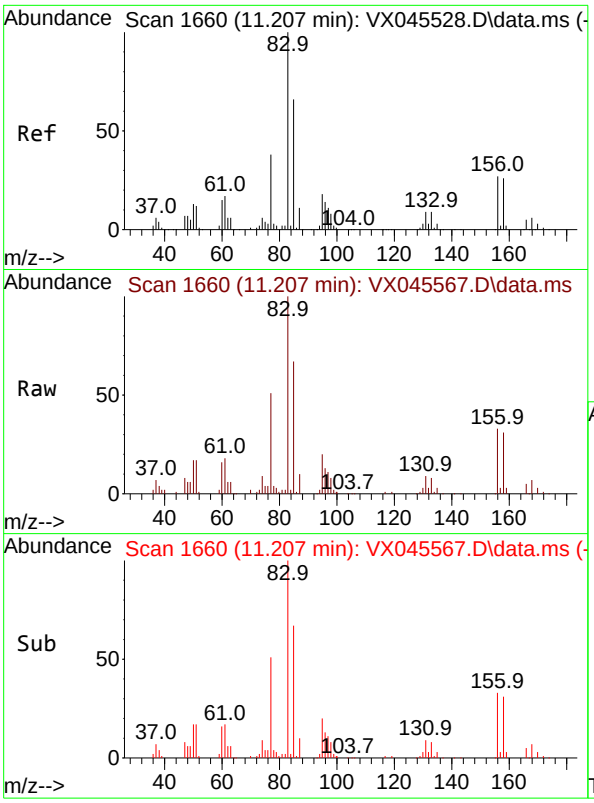


#74
N-amyl acetate
Concen: 18.565 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion: 43 Resp: 47245

Ion	Ratio	Lower	Upper
43	100		
70	36.7	30.1	45.1
55	23.1	18.3	27.5
61	20.7	17.5	26.3





#75
1,1,2,2-Tetrachloroethane
Concen: 18.238 ug/l
RT: 11.207 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion: 83 Resp: 3408

Ion	Ratio	Lower	Upper
83	100		
131	9.7	4.7	14.1
85	66.1	32.4	97.2

Instrument :
MSVOA_X
ClientSampleId :
VX0403WBSD01

Manual Integrations
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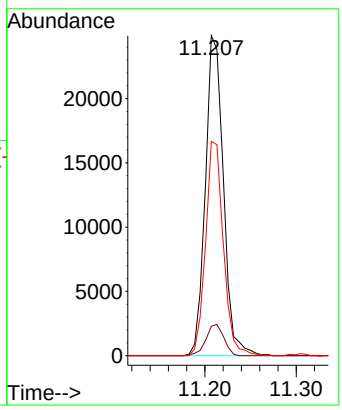
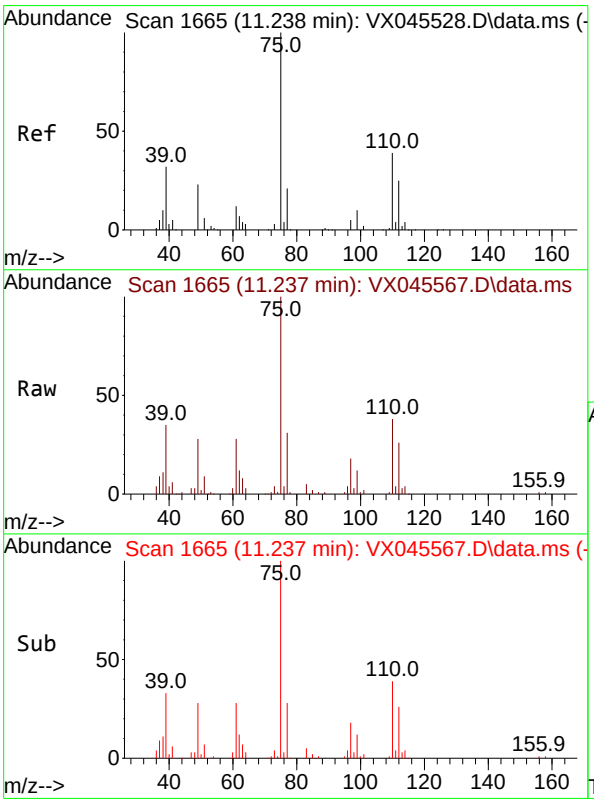
Reviewed By :Semsettin Yesilyurt 04/04/2025
Supervised By :Mahesh Dadoda 04/04/2025

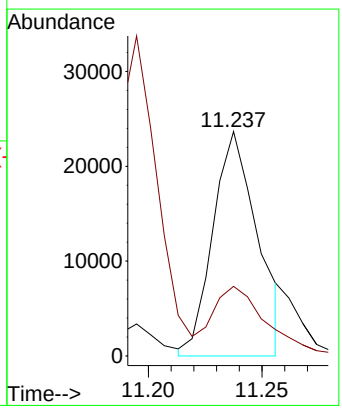


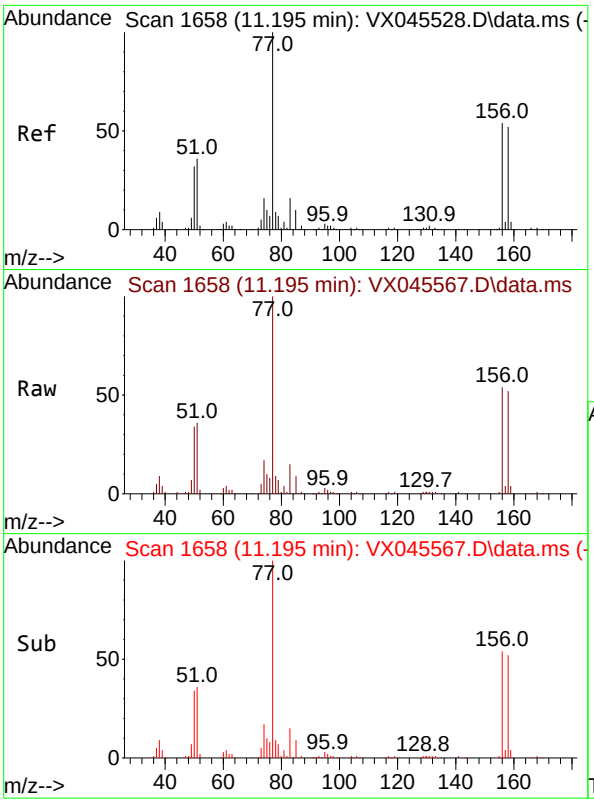


#76
1,2,3-Trichloropropane
Concen: 19.963 ug/l m
RT: 11.237 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion: 75 Resp: 32342

Ion	Ratio	Lower	Upper
75	100		
77	37.5	20.0	59.9

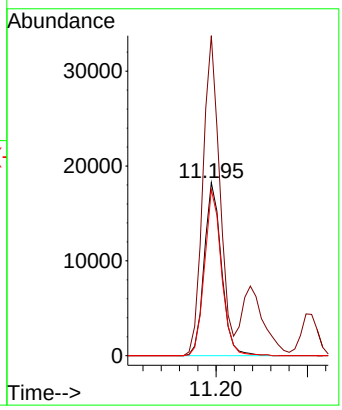




#77
Bromobenzene
Concen: 19.390 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion:156 Resp: 2383

Ion	Ratio	Lower	Upper
156	100		
77	181.2	92.6	277.8
158	94.3	48.1	144.4



Instrument :
MSVOA_X
ClientSampleId :
VX0403WBSD01

Manual Integrations
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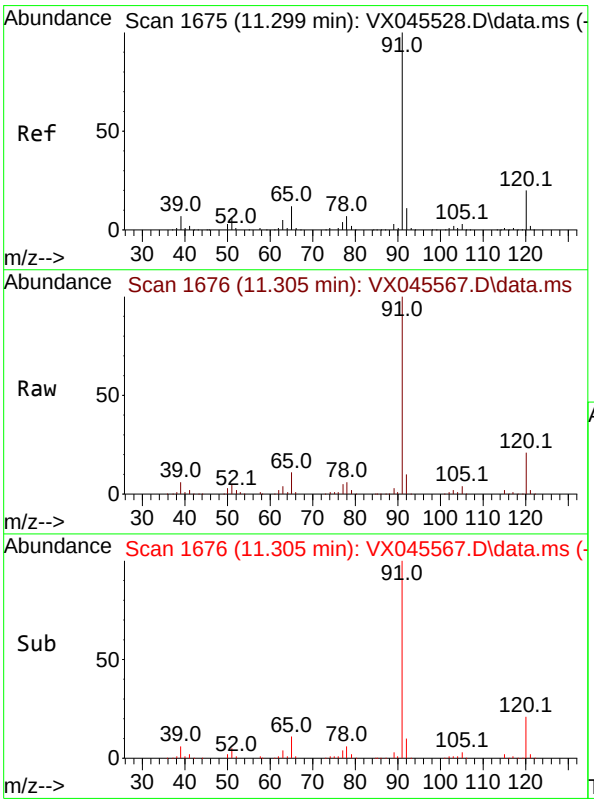
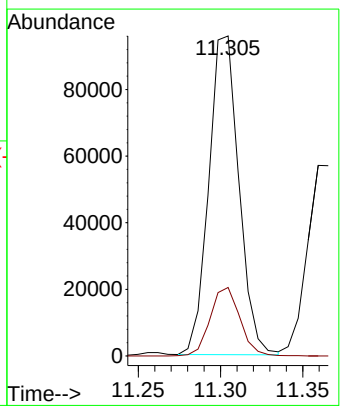
Reviewed By :Semsettin Yesilyurt 04/04/2025
Supervised By :Mahesh Dadoda 04/04/2025

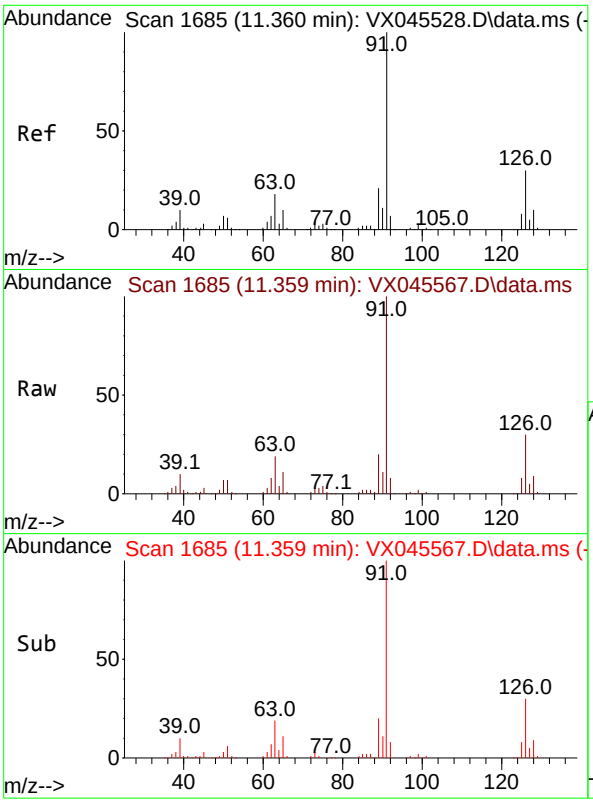


#78
n-propylbenzene
Concen: 19.946 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.006 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion: 91 Resp: 122226

Ion	Ratio	Lower	Upper
91	100		
120	21.3	10.8	32.3

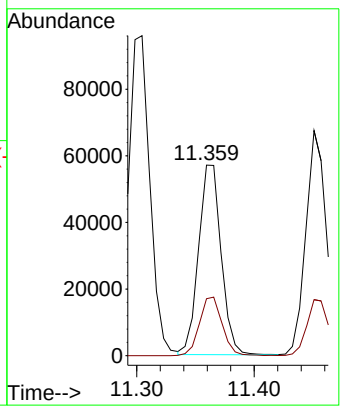




#79
2-Chlorotoluene
Concen: 19.456 ug/l
RT: 11.359 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion: 91 Resp: 7621

Ion	Ratio	Lower	Upper
91	100		
126	31.1	15.8	47.4



Instrument :
MSVOA_X
ClientSampleId :
VX0403WBSD01

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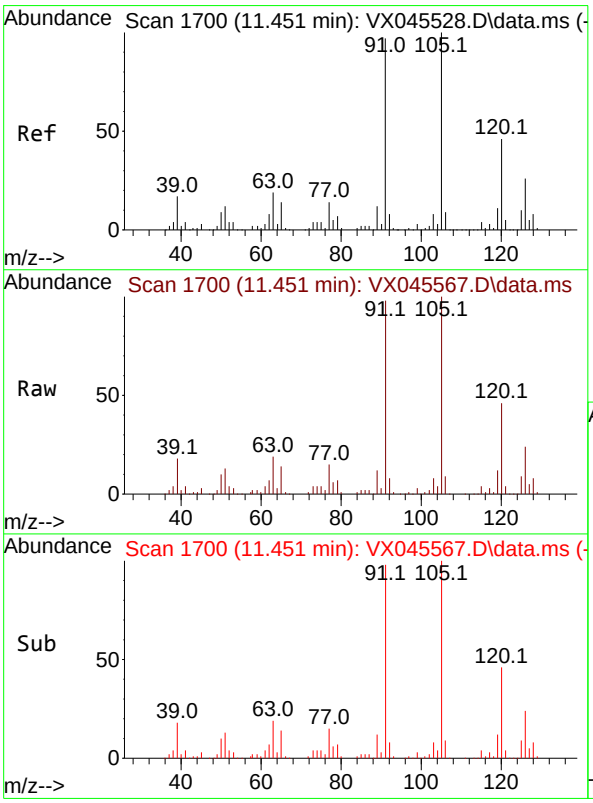
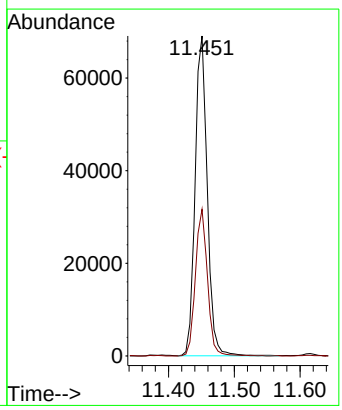
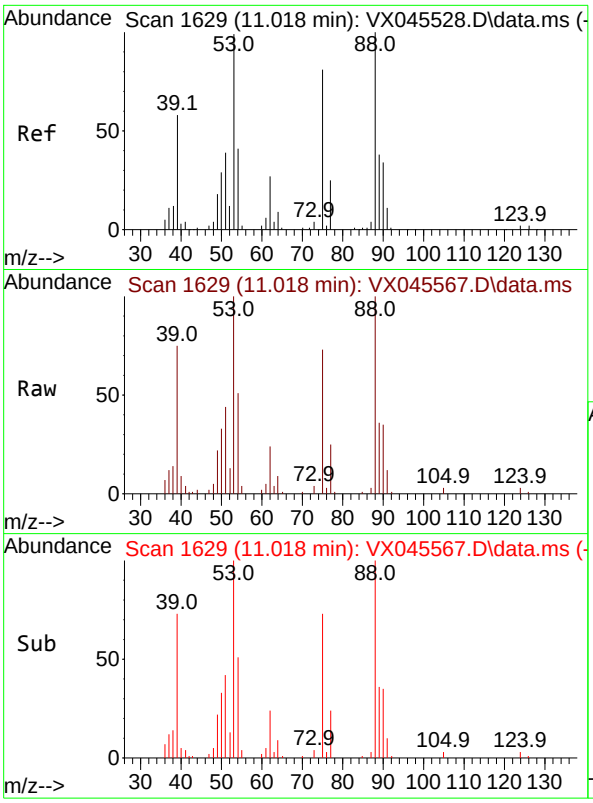


#80
1,3,5-Trimethylbenzene
Concen: 20.005 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion:105 Resp: 88007

Ion	Ratio	Lower	Upper
105	100		
120	45.8	23.0	69.0

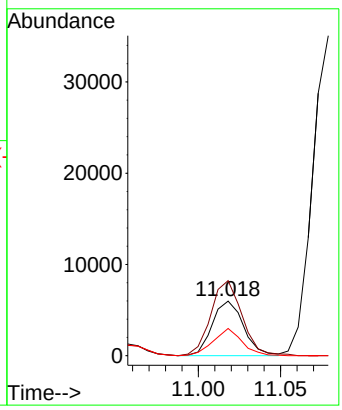




#81
trans-1,4-Dichloro-2-butene
Concen: 16.650 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion: 75 Resp: 794

Ion	Ratio	Lower	Upper
75	100		
53	137.0	101.8	152.6
89	45.8	37.2	55.8



Instrument :
MSVOA_X
ClientSampleId :
VX0403WBSD01

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 04/04/2025
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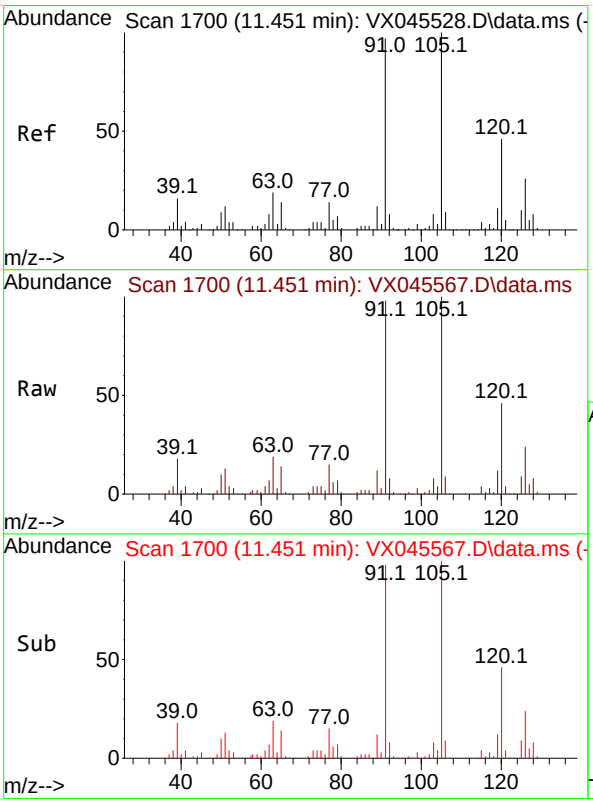
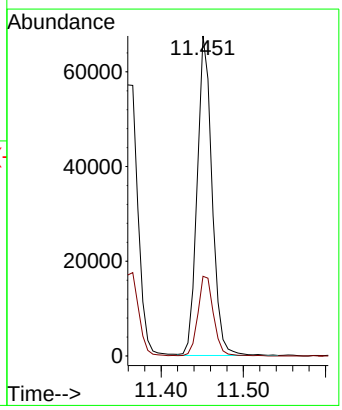
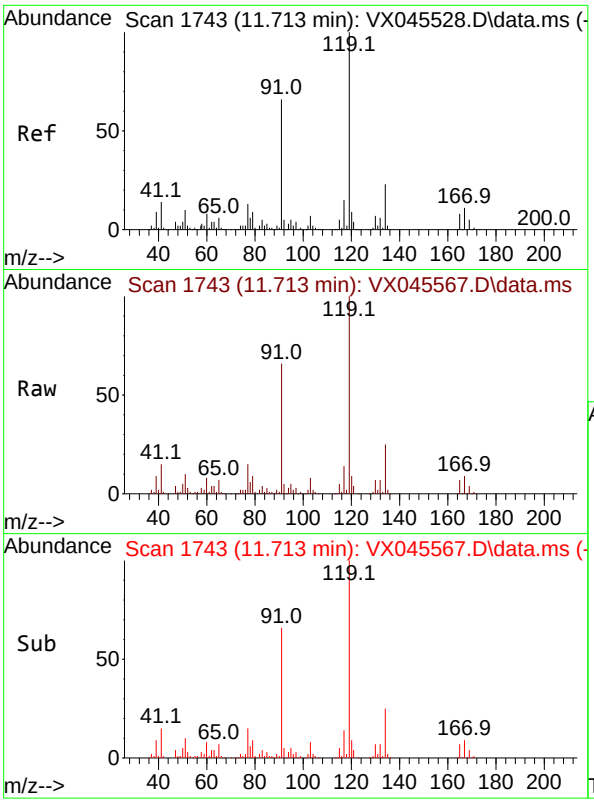


#82
4-Chlorotoluene
Concen: 19.458 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion: 91 Resp: 84989

Ion	Ratio	Lower	Upper
91	100		
126	26.2	13.3	39.9

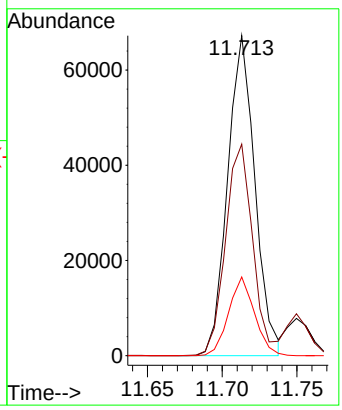




#83
tert-Butylbenzene
Concen: 19.621 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion:119 Resp: 8545

Ion	Ratio	Lower	Upper
119	100		
91	66.2	32.4	97.2
134	23.3	11.5	34.5



Instrument :
MSVOA_X
ClientSampleId :
VX0403WBSD01

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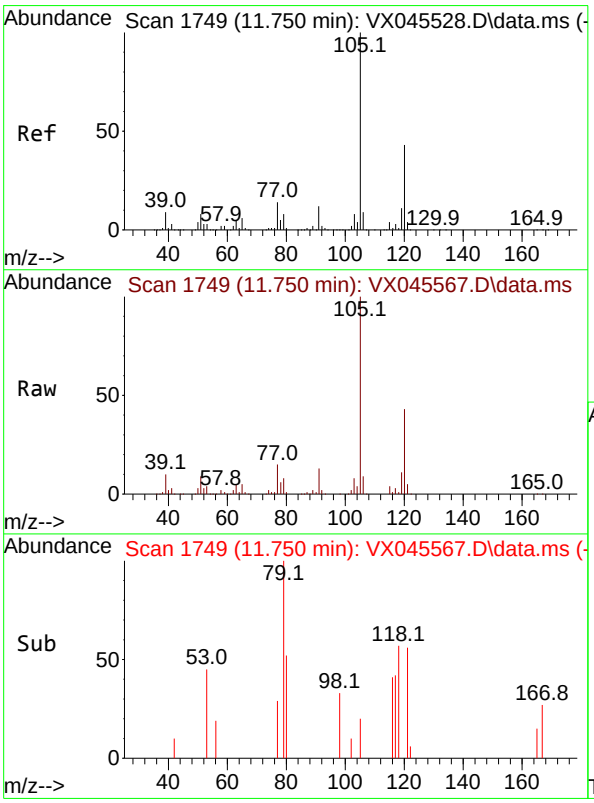
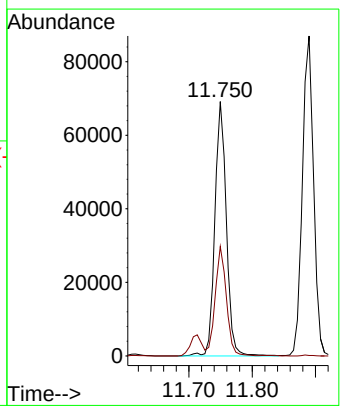
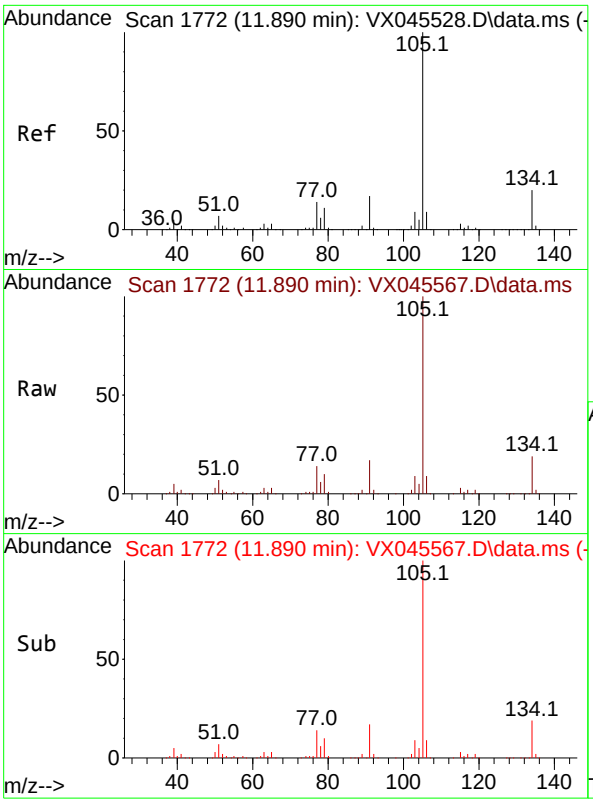


#84
1,2,4-Trimethylbenzene
Concen: 19.717 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion:105 Resp: 87061

Ion	Ratio	Lower	Upper
105	100		
120	41.6	21.4	64.3

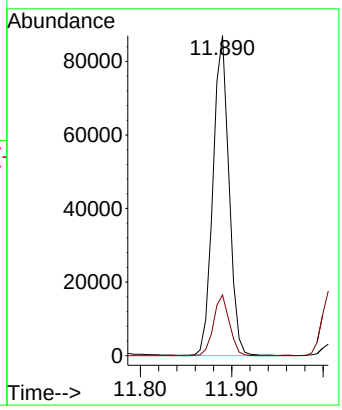




#85
sec-Butylbenzene
Concen: 19.870 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion:105 Resp: 10629

Ion	Ratio	Lower	Upper
105	100		
134	18.7	9.6	28.6



Instrument :
MSVOA_X
ClientSampleId :
VX0403WBSD01

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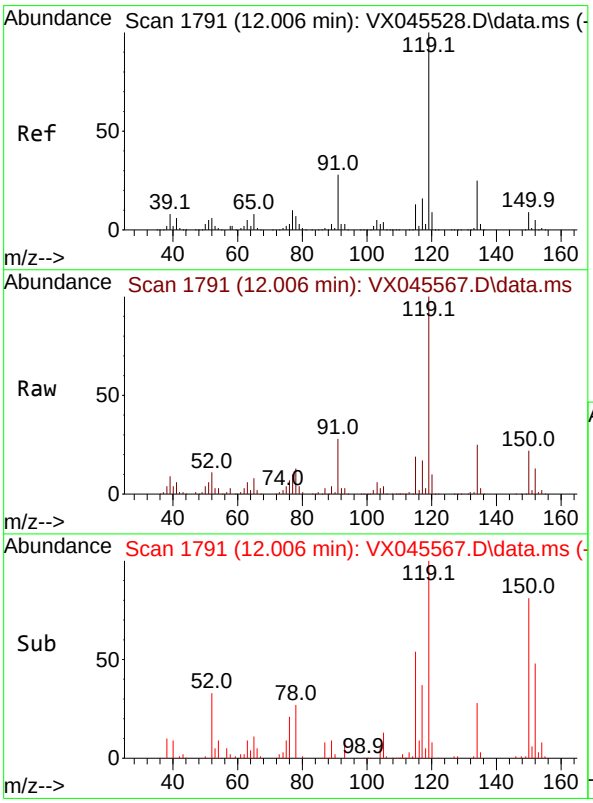
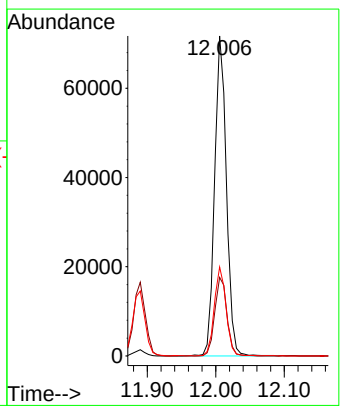
Reviewed By :Semsettin Yesilyurt 04/04/2025
Supervised By :Mahesh Dadoda 04/04/2025

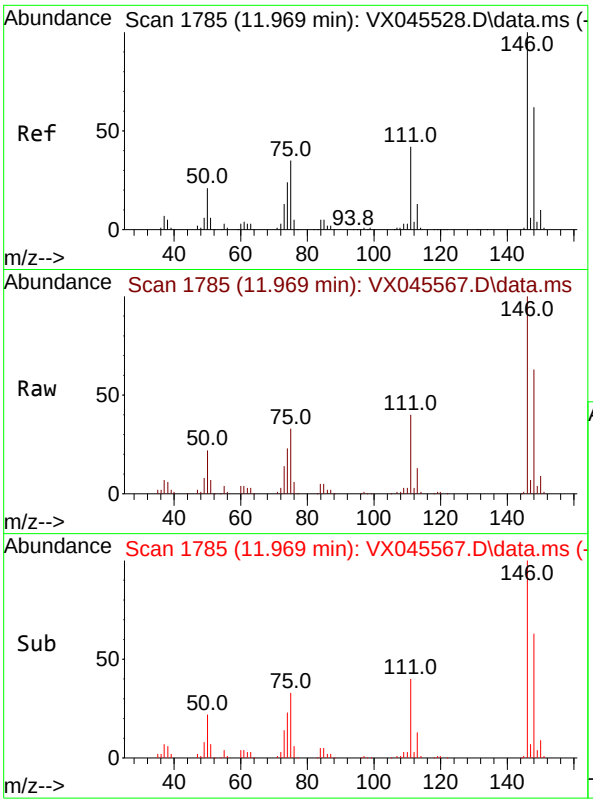


#86
p-Isopropyltoluene
Concen: 19.469 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion:119 Resp: 85865

Ion	Ratio	Lower	Upper
119	100		
134	25.3	12.6	37.8
91	27.8	13.7	41.1

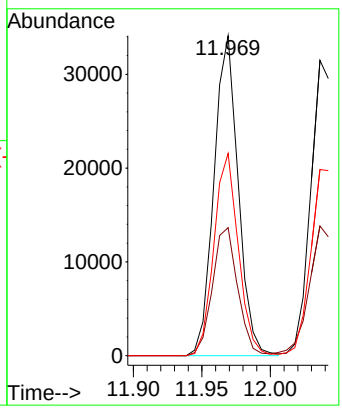




#87
1,3-Dichlorobenzene
Concen: 18.733 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion:146 Resp: 4191

Ion	Ratio	Lower	Upper
146	100		
111	41.9	22.2	66.6
148	63.7	31.9	95.7



Instrument :
MSVOA_X
ClientSampleId :
VX0403WBSD01

Manual Integrations
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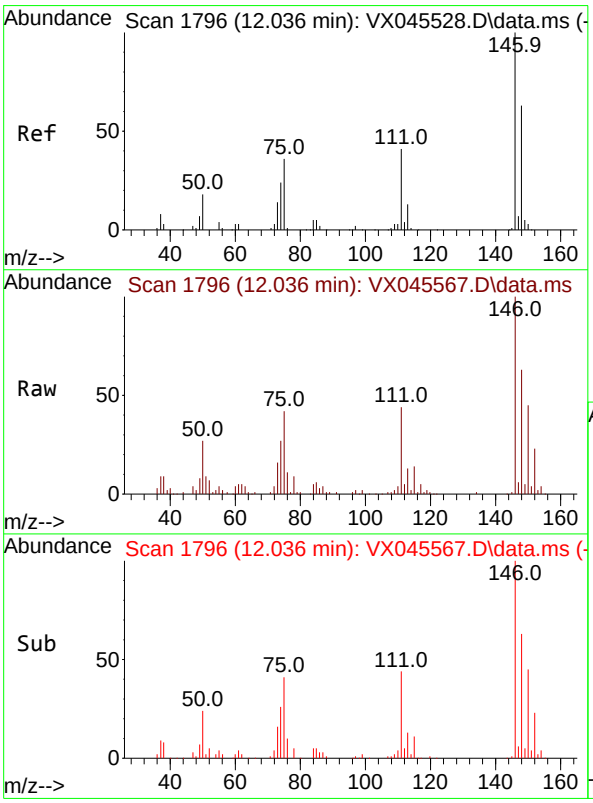
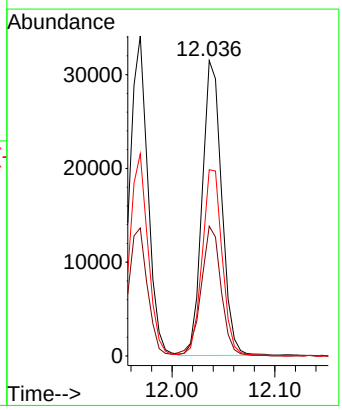
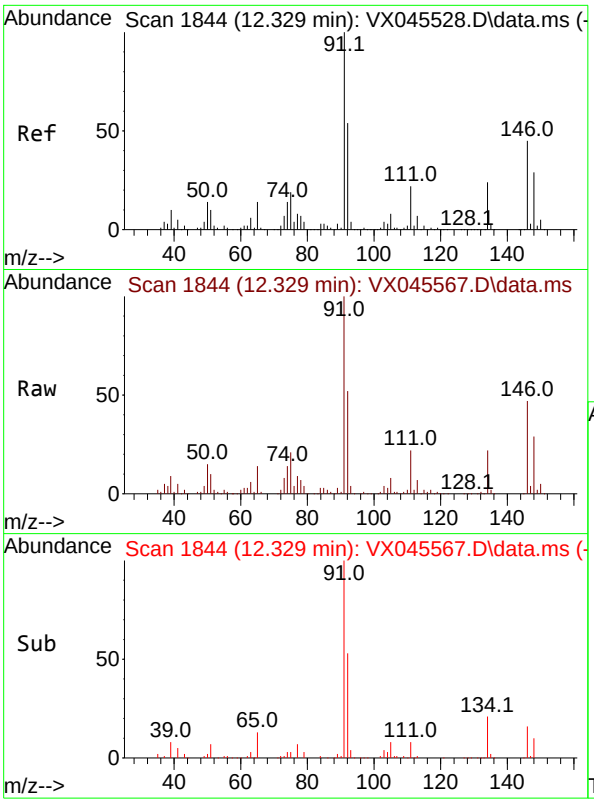


#88
1,4-Dichlorobenzene
Concen: 18.249 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. -0.000 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion:146 Resp: 41397

Ion	Ratio	Lower	Upper
146	100		
111	45.6	20.9	62.8
148	65.3	31.5	94.5

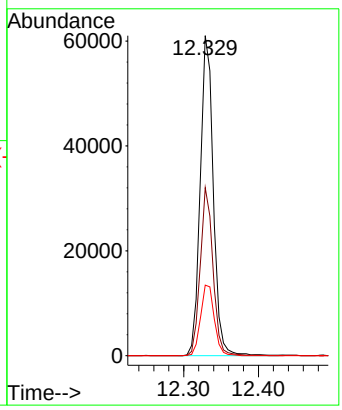




#89
n-Butylbenzene
Concen: 19.378 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion: 91 Resp: 7411

Ion	Ratio	Lower	Upper
91	100		
92	51.2	26.9	80.6
134	23.1	11.9	35.7



Instrument :
MSVOA_X
ClientSampleId :
VX0403WBSD01

Manual Integrations
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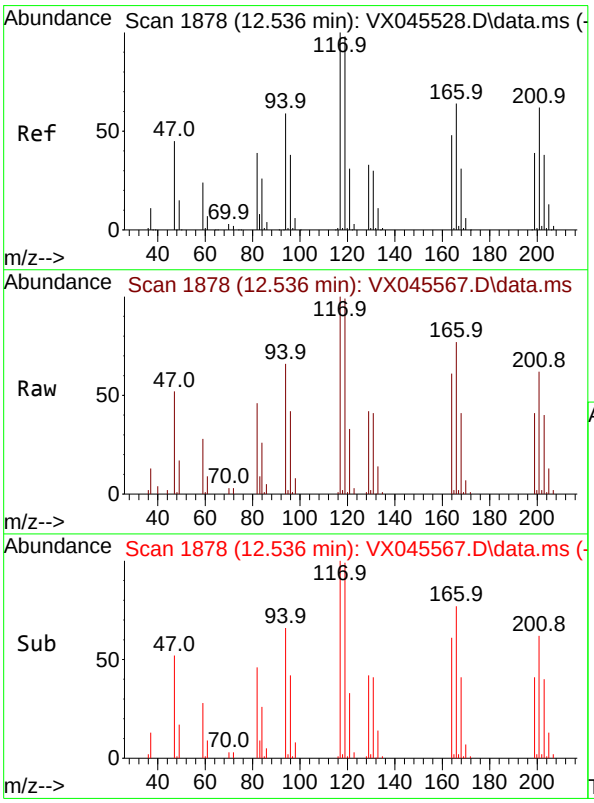
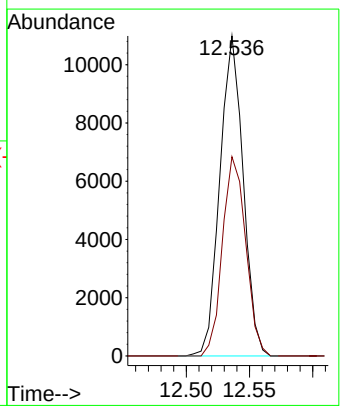
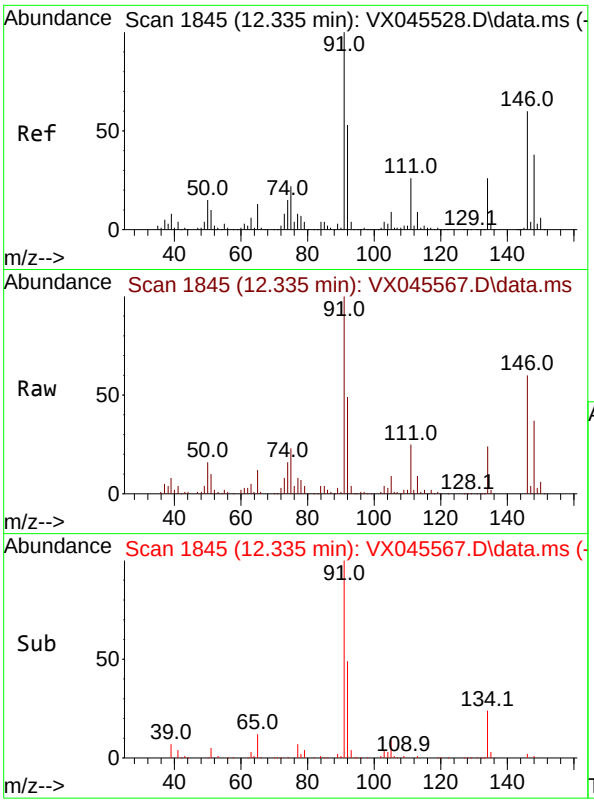


#90
Hexachloroethane
Concen: 18.548 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion:117 Resp: 14058

Ion	Ratio	Lower	Upper
117	100		
201	62.3	31.2	93.6

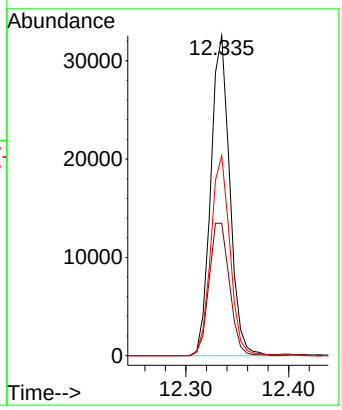




#91
1,2-Dichlorobenzene
Concen: 18.750 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion:146 Resp: 4171

Ion	Ratio	Lower	Upper
146	100		
111	44.4	22.9	68.8
148	63.3	31.9	95.5



Instrument :
MSVOA_X
ClientSampleId :
VX0403WBSD01

Manual Integrations
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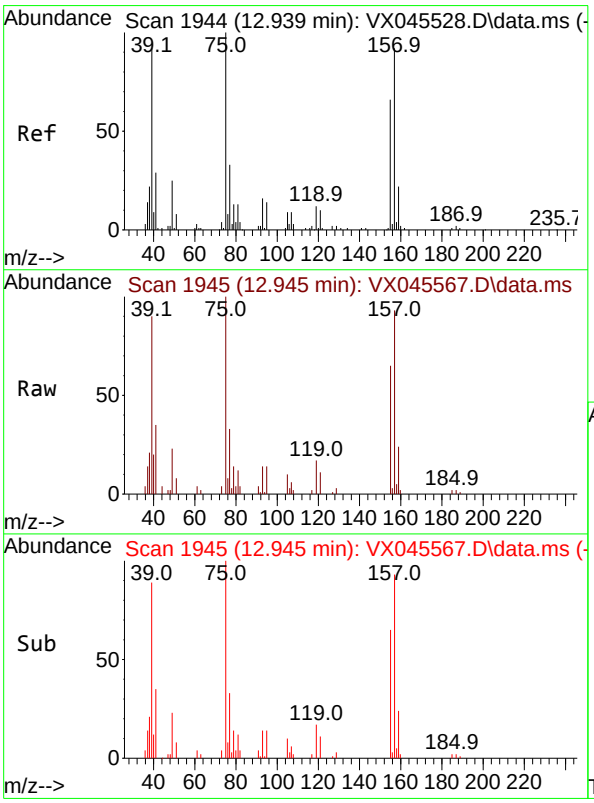
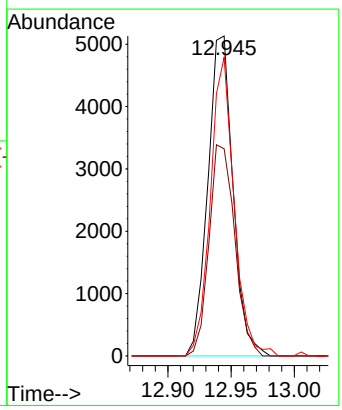
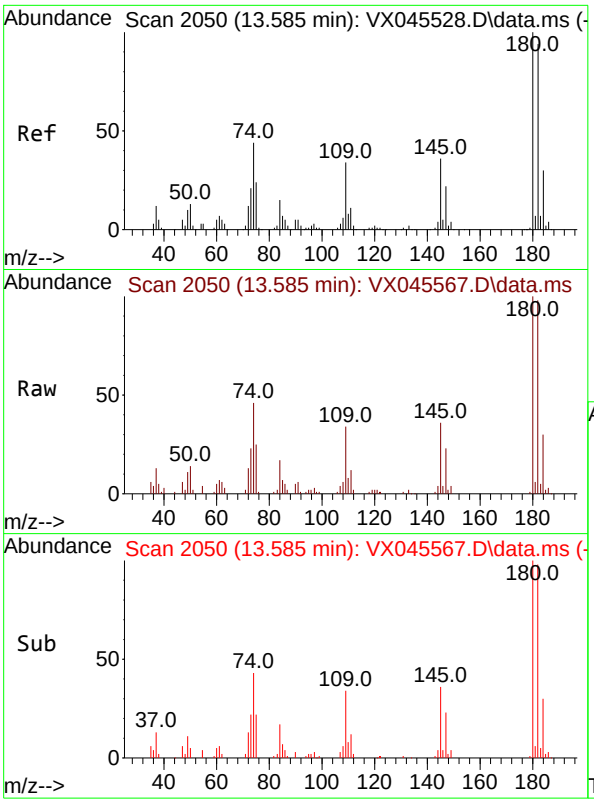


#92
1,2-Dibromo-3-Chloropropane
Concen: 18.161 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. 0.006 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion: 75 Resp: 7098

Ion	Ratio	Lower	Upper
75	100		
155	67.4	34.9	104.7
157	87.8	44.9	134.7

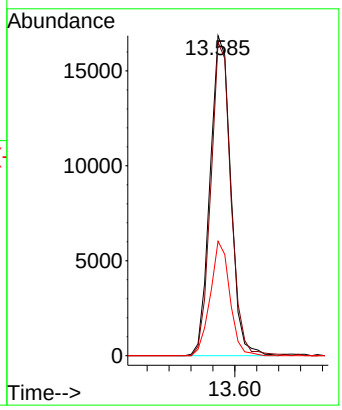




#93
1,2,4-Trichlorobenzene
Concen: 17.750 ug/l
RT: 13.585 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion:180 Resp: 2197

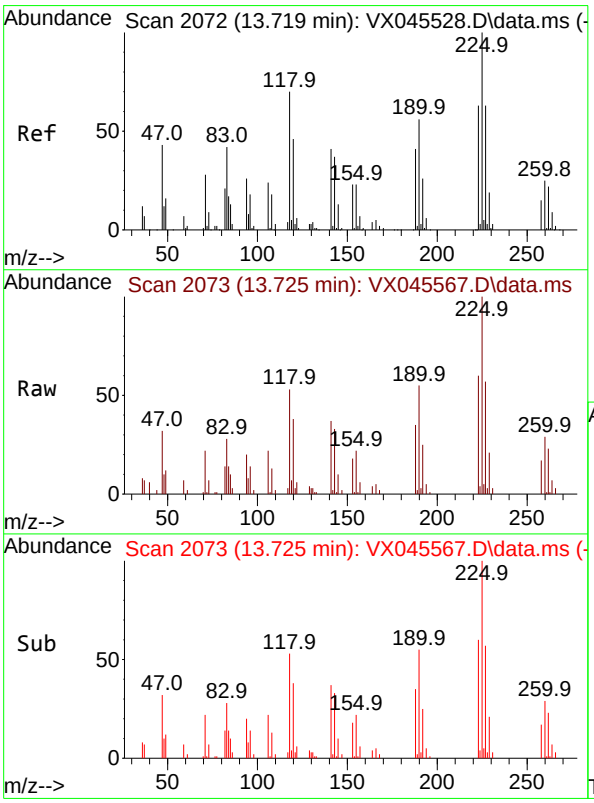
Ion	Ratio	Lower	Upper
180	100		
182	95.8	47.9	143.6
145	33.9	17.9	53.8



Instrument :
MSVOA_X
ClientSampleId :
VX0403WBSD01

Manual Integrations
APPROVED

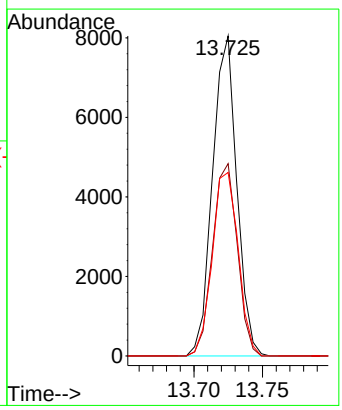
Reviewed By :Semsettin Yesilyurt 04/04/2025
Supervised By :Mahesh Dadoda 04/04/2025

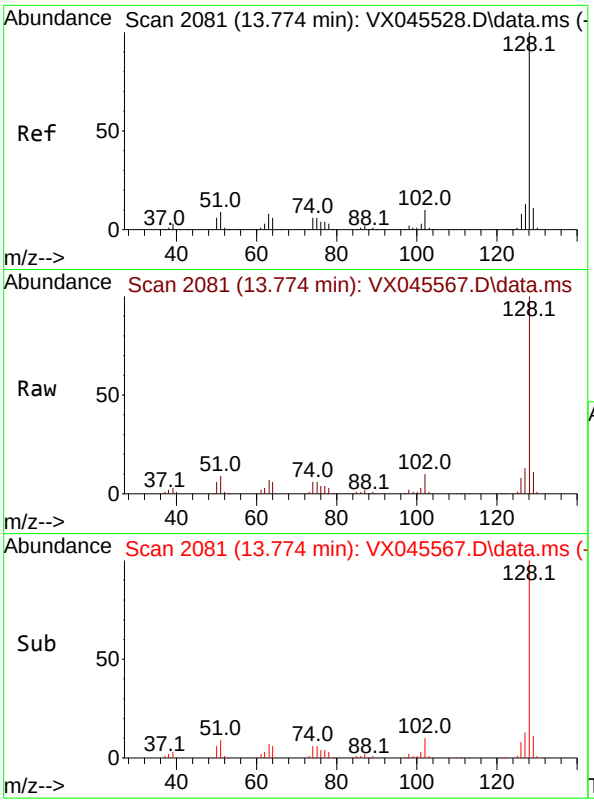


#94
Hexachlorobutadiene
Concen: 18.544 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.006 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion:225 Resp: 9895

Ion	Ratio	Lower	Upper
225	100		
223	61.3	31.1	93.3
227	61.4	32.2	96.6

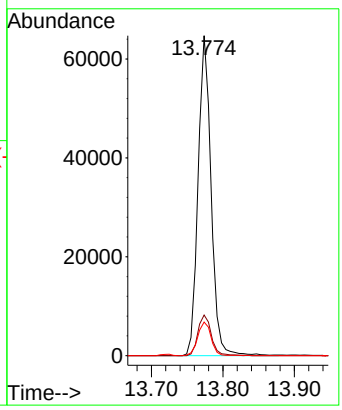




#95
Naphthalene
Concen: 17.727 ug/l
RT: 13.774 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion:128 Resp: 8168

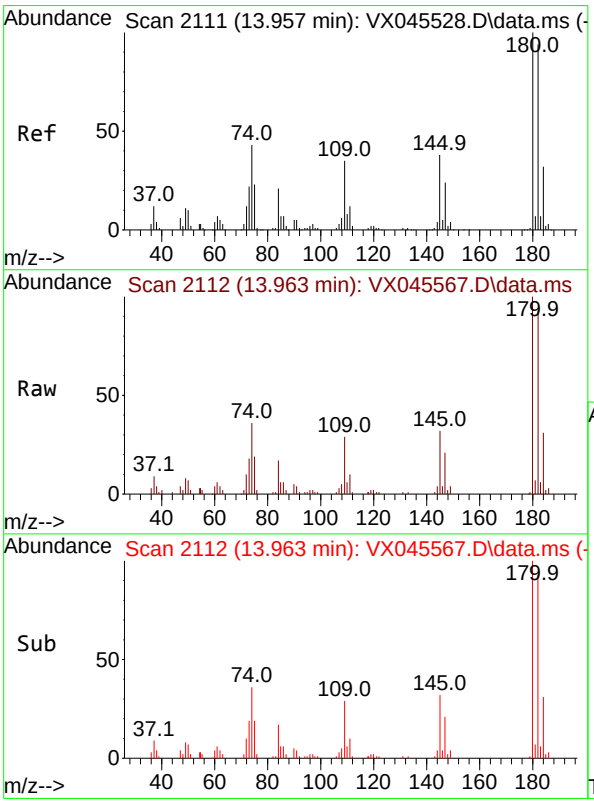
Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.3	15.5
129	10.8	8.6	12.8



Instrument :
MSVOA_X
ClientSampleId :
VX0403WBSD01

Manual Integrations
APPROVED

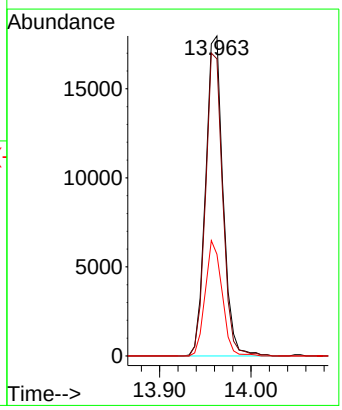
Reviewed By :Semsettin Yesilyurt 04/04/2025
Supervised By :Mahesh Dadoda 04/04/2025



#96
1,2,3-Trichlorobenzene
Concen: 18.270 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. 0.006 min
Lab File: VX045567.D
Acq: 03 Apr 2025 13:41

Tgt Ion:180 Resp: 23690

Ion	Ratio	Lower	Upper
180	100		
182	93.3	47.3	141.8
145	34.8	18.2	54.6



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

Manual Integration Report

Sequence:	VX040225	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VX045525.D	1,2,3-Trichloropropane	Amit	4/2/2025 2:14:20 PM	MMDadoda	4/2/2025 2:16:05 PM	Peak Integrated by Software
VSTDICC001	VX045525.D	1,4-Dichlorobenzene	Amit	4/2/2025 2:14:20 PM	MMDadoda	4/2/2025 2:16:05 PM	Peak Integrated by Software
VSTDICC001	VX045525.D	1,4-Dioxane	Amit	4/2/2025 2:14:20 PM	MMDadoda	4/2/2025 2:16:05 PM	Peak Integrated by Software
VSTDICC001	VX045525.D	Ethyl methacrylate	Amit	4/2/2025 2:14:20 PM	MMDadoda	4/2/2025 2:16:05 PM	Peak Integrated by Software
VSTDICC001	VX045525.D	Methacrylonitrile	Amit	4/2/2025 2:14:20 PM	MMDadoda	4/2/2025 2:16:05 PM	Peak Integrated by Software
VSTDICC005	VX045526.D	1,2,3-Trichloropropane	Amit	4/2/2025 2:14:22 PM	MMDadoda	4/2/2025 2:16:07 PM	Peak Integrated by Software
VSTDICC020	VX045527.D	1,2,3-Trichloropropane	Amit	4/2/2025 2:14:25 PM	MMDadoda	4/2/2025 2:16:09 PM	Peak Integrated by Software
VSTDICCC050	VX045528.D	1,2,3-Trichloropropane	Amit	4/2/2025 2:14:26 PM	MMDadoda	4/2/2025 2:16:11 PM	Peak Integrated by Software
VSTDICC100	VX045529.D	1,2,3-Trichloropropane	Amit	4/2/2025 2:14:28 PM	MMDadoda	4/2/2025 2:16:15 PM	Peak Integrated by Software
VSTDICC150	VX045530.D	1,2,3-Trichloropropane	Amit	4/2/2025 2:14:30 PM	MMDadoda	4/2/2025 2:16:46 PM	Peak Integrated by Software
VSTDICV050	VX045532.D	1,2,3-Trichloropropane	Amit	4/2/2025 2:14:32 PM	MMDadoda	4/2/2025 2:17:50 PM	Peak Integrated by Software
VSTDCCC050	VX045534.D	1,2,3-Trichloropropane	JOHN	4/3/2025 10:04:10 AM	MMDadoda	4/3/2025 1:12:02 PM	Peak Integrated by Software
VX0402WBS01	VX045537.D	1,2,3-Trichloropropane	JOHN	4/3/2025 10:04:15 AM	MMDadoda	4/3/2025 1:12:04 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VX040225	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VX045557.D	1,2,3-Trichloropropane	JOHN	4/3/2025 10:04:58 AM	MMDadoda	4/3/2025 1:12:08 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	vx040325	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VX045559.D	1,2,3-Trichloropropane	Sam	4/4/2025 7:55:26 AM	mmdadoda	4/4/2025 7:58:07 AM	Peak Integrated by Software
VX0403WBS01	VX045563.D	1,2,3-Trichloropropane	Sam	4/4/2025 7:55:28 AM	mmdadoda	4/4/2025 7:57:38 AM	Peak Integrated by Software
VX0403WBSD01	VX045567.D	1,2,3-Trichloropropane	Sam	4/4/2025 7:55:30 AM	mmdadoda	4/4/2025 7:57:40 AM	Peak Integrated by Software
VSTDCCC050	VX045584.D	1,2,3-Trichloropropane	Sam	4/4/2025 7:55:35 AM	mmdadoda	4/4/2025 7:57:46 AM	Peak Integrated by Software

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX040225

Review By	John Carlone	Review On	4/2/2025 9:42:46 AM		
Supervise By	Amit Patel	Supervise On	4/2/2025 2:14:39 PM		
SubDirectory	VX040225	HP Acquire Method		HP Processing Method	82X040225W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133559,VP133563
Initial Calibration Stds	VP133569,VP133570,VP133571,VP133572,VP133573,VP133574
CCC	VP133564,VP133565
Internal Standard/PEM	
ICV/I.BLK	VP133575
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX045524.D	01 Apr 2025 16:15	JC/MD	Ok
2	VSTDICC001	VX045525.D	01 Apr 2025 17:06	JC/MD	Ok,M
3	VSTDICC005	VX045526.D	01 Apr 2025 17:29	JC/MD	Ok,M
4	VSTDICC020	VX045527.D	01 Apr 2025 17:52	JC/MD	Ok,M
5	VSTDICCC050	VX045528.D	01 Apr 2025 18:15	JC/MD	Ok,M
6	VSTDICC100	VX045529.D	01 Apr 2025 18:38	JC/MD	Ok,M
7	VSTDICC150	VX045530.D	01 Apr 2025 19:02	JC/MD	Ok,M
8	IBLK	VX045531.D	01 Apr 2025 19:25	JC/MD	Ok
9	VSTDICV050	VX045532.D	01 Apr 2025 19:48	JC/MD	Ok,M
10	BFB	VX045533.D	02 Apr 2025 09:30	JC/MD	Ok
11	VSTDCCC050	VX045534.D	02 Apr 2025 10:02	JC/MD	Ok,M
12	VX0402MBL01	VX045535.D	02 Apr 2025 10:30	JC/MD	Ok
13	VX0402WBL01	VX045536.D	02 Apr 2025 10:53	JC/MD	Ok
14	VX0402WBS01	VX045537.D	02 Apr 2025 11:16	JC/MD	Ok,M
15	VX0402WBSD01	VX045538.D	02 Apr 2025 11:44	JC/MD	Ok,M
16	Q1697-01	VX045539.D	02 Apr 2025 12:07	JC/MD	Dilution
17	Q1697-02	VX045540.D	02 Apr 2025 12:30	JC/MD	Dilution
18	IBLK	VX045541.D	02 Apr 2025 12:54	JC/MD	Ok
19	Q1697-01DL	VX045542.D	02 Apr 2025 13:21	JC/MD	Ok
20	Q1697-02DL	VX045543.D	02 Apr 2025 13:44	JC/MD	Ok
21	Q1697-03	VX045544.D	02 Apr 2025 14:07	JC/MD	Not Ok

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX040225

Review By	John Carlone	Review On	4/2/2025 9:42:46 AM		
Supervise By	Amit Patel	Supervise On	4/2/2025 2:14:39 PM		
SubDirectory	VX040225	HP Acquire Method		HP Processing Method	82X040225W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133559,VP133563
Initial Calibration Stds	VP133569,VP133570,VP133571,VP133572,VP133573,VP133574
CCC	VP133564,VP133565
Internal Standard/PEM	
ICV/I.BLK	VP133575
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1697-04	VX045545.D	02 Apr 2025 14:31	JC/MD	Not Ok
23	Q1697-05	VX045546.D	02 Apr 2025 14:54	JC/MD	Not Ok
24	Q1697-07	VX045547.D	02 Apr 2025 15:18	JC/MD	Not Ok
25	IBLK	VX045548.D	02 Apr 2025 15:41	JC/MD	Ok
26	Q1697-03	VX045549.D	02 Apr 2025 16:04	JC/MD	Ok
27	Q1697-04	VX045550.D	02 Apr 2025 16:27	JC/MD	Ok
28	Q1697-05	VX045551.D	02 Apr 2025 16:51	JC/MD	Ok
29	Q1697-06	VX045552.D	02 Apr 2025 17:14	JC/MD	ReRun
30	Q1623-01	VX045553.D	02 Apr 2025 17:37	JC/MD	Ok
31	Q1623-02	VX045554.D	02 Apr 2025 18:01	JC/MD	Ok
32	Q1623-03	VX045555.D	02 Apr 2025 18:24	JC/MD	Ok
33	Q1623-04	VX045556.D	02 Apr 2025 18:47	JC/MD	Ok
34	VSTDCCC050	VX045557.D	02 Apr 2025 19:10	JC/MD	Ok,M

M : Manual Integration

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Fax : 908 789 8922

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX040325

Review By	Semsettin Yesilyurt	Review On	4/4/2025 7:55:43 AM		
Supervise By	Mahesh Dadoda	Supervise On	4/4/2025 7:58:30 AM		
SubDirectory	VX040325	HP Acquire Method		HP Processing Method	82X040225W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133576
Initial Calibration Stds	
CCC	VP133577,VP133578
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX045558.D	03 Apr 2025 10:01	JC/MD	Ok
2	VSTDCCC050	VX045559.D	03 Apr 2025 10:30	JC/MD	Ok,M
3	VX0403MBL01	VX045560.D	03 Apr 2025 10:58	JC/MD	Ok
4	VX0403WBL01	VX045561.D	03 Apr 2025 11:21	JC/MD	Ok
5	Q1697-06	VX045562.D	03 Apr 2025 11:45	JC/MD	Ok
6	VX0403WBS01	VX045563.D	03 Apr 2025 12:08	JC/MD	Ok,M
7	Q1711-01	VX045564.D	03 Apr 2025 12:31	JC/MD	Not Ok
8	Q1711-04	VX045565.D	03 Apr 2025 12:54	JC/MD	Not Ok
9	Q1711-07	VX045566.D	03 Apr 2025 13:18	JC/MD	Not Ok
10	VX0403WBSD01	VX045567.D	03 Apr 2025 13:41	JC/MD	Ok,M
11	Q1711-07	VX045568.D	03 Apr 2025 14:04	JC/MD	Ok
12	Q1711-04	VX045569.D	03 Apr 2025 14:27	JC/MD	Ok
13	IBLK	VX045570.D	03 Apr 2025 14:50	JC/MD	Ok
14	Q1711-10	VX045571.D	03 Apr 2025 15:14	JC/MD	Ok
15	Q1711-08	VX045572.D	03 Apr 2025 15:37	JC/MD	Ok
16	Q1711-05	VX045573.D	03 Apr 2025 16:00	JC/MD	Not Ok
17	Q1711-06	VX045574.D	03 Apr 2025 16:23	JC/MD	Not Ok
18	Q1711-01	VX045575.D	03 Apr 2025 16:47	JC/MD	Ok
19	Q1711-02MS	VX045576.D	03 Apr 2025 17:10	JC/MD	ReRun
20	Q1711-03MSD	VX045577.D	03 Apr 2025 17:33	JC/MD	Ok,M
21	IBLK	VX045578.D	03 Apr 2025 17:56	JC/MD	Ok

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX040325

Review By	Semsettin Yesilyurt	Review On	4/4/2025 7:55:43 AM		
Supervise By	Mahesh Dadoda	Supervise On	4/4/2025 7:58:30 AM		
SubDirectory	VX040325	HP Acquire Method		HP Processing Method	82X040225W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133576
Initial Calibration Stds	
CCC	VP133577,VP133578
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	IBLK	VX045579.D	03 Apr 2025 18:19	JC/MD	Ok
23	Q1676-01	VX045580.D	03 Apr 2025 18:43	JC/MD	Ok
24	Q1676-02	VX045581.D	03 Apr 2025 19:06	JC/MD	Ok
25	Q1676-03	VX045582.D	03 Apr 2025 19:29	JC/MD	Ok
26	Q1676-04	VX045583.D	03 Apr 2025 19:52	JC/MD	Ok
27	VSTDCCC050	VX045584.D	03 Apr 2025 20:15	JC/MD	Ok,M

M : Manual Integration

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX040225

Review By	John Carlone	Review On	4/2/2025 9:42:46 AM		
Supervise By	Amit Patel	Supervise On	4/2/2025 2:14:39 PM		
SubDirectory	VX040225	HP Acquire Method		HP Processing Method	82X040225W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133559,VP133563
Initial Calibration Stds	VP133569,VP133570,VP133571,VP133572,VP133573,VP133574
CCC	VP133564,VP133565
Internal Standard/PEM	
ICV/I.BLK	VP133575
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX045524.D	01 Apr 2025 16:15		JC/MD	Ok
2	VSTDICC001	VSTDICC001	VX045525.D	01 Apr 2025 17:06	%D failed for Comp. #53 in 01PPB	JC/MD	Ok,M
3	VSTDICC005	VSTDICC005	VX045526.D	01 Apr 2025 17:29		JC/MD	Ok,M
4	VSTDICC020	VSTDICC020	VX045527.D	01 Apr 2025 17:52		JC/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VX045528.D	01 Apr 2025 18:15		JC/MD	Ok,M
6	VSTDICC100	VSTDICC100	VX045529.D	01 Apr 2025 18:38		JC/MD	Ok,M
7	VSTDICC150	VSTDICC150	VX045530.D	01 Apr 2025 19:02		JC/MD	Ok,M
8	IBLK	IBLK	VX045531.D	01 Apr 2025 19:25		JC/MD	Ok
9	VSTDICV050	ICVVX040225	VX045532.D	01 Apr 2025 19:48		JC/MD	Ok,M
10	BFB	BFB	VX045533.D	02 Apr 2025 09:30		JC/MD	Ok
11	VSTDCCC050	VSTDCCC050	VX045534.D	02 Apr 2025 10:02	pH#Lot#V12668	JC/MD	Ok,M
12	VX0402MBL01	VX0402MBL01	VX045535.D	02 Apr 2025 10:30		JC/MD	Ok
13	VX0402WBL01	VX0402WBL01	VX045536.D	02 Apr 2025 10:53		JC/MD	Ok
14	VX0402WBS01	VX0402WBS01	VX045537.D	02 Apr 2025 11:16		JC/MD	Ok,M
15	VX0402WBSD01	VX0402WBSD01	VX045538.D	02 Apr 2025 11:44		JC/MD	Ok,M
16	Q1697-01	MW-19B-72-040125	VX045539.D	02 Apr 2025 12:07	vial A pH<2 Need 200X	JC/MD	Dilution
17	Q1697-02	IW-01-55-040125	VX045540.D	02 Apr 2025 12:30	vial A pH<2 Need 10X	JC/MD	Dilution

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX040225

Review By	John Carlone	Review On	4/2/2025 9:42:46 AM		
Supervise By	Amit Patel	Supervise On	4/2/2025 2:14:39 PM		
SubDirectory	VX040225	HP Acquire Method		HP Processing Method	82X040225W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133559,VP133563
Initial Calibration Stds	VP133569,VP133570,VP133571,VP133572,VP133573,VP133574
CCC	VP133564,VP133565
Internal Standard/PEM	
ICV/I.BLK	VP133575
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	IBLK	IBLK	VX045541.D	02 Apr 2025 12:54		JC/MD	Ok
19	Q1697-01DL	MW-19B-72-040125DL	VX045542.D	02 Apr 2025 13:21	vial B pH<2	JC/MD	Ok
20	Q1697-02DL	IW-01-55-040125DL	VX045543.D	02 Apr 2025 13:44	vial B pH<2	JC/MD	Ok
21	Q1697-03	IW-02-55-040125	VX045544.D	02 Apr 2025 14:07	Need lower dilution	JC/MD	Not Ok
22	Q1697-04	IW-02-55-040125-FD	VX045545.D	02 Apr 2025 14:31	Need lower dilution	JC/MD	Not Ok
23	Q1697-05	IW-03-55-040125	VX045546.D	02 Apr 2025 14:54	Need lower dilution	JC/MD	Not Ok
24	Q1697-07	MW-19B-72-040125	VX045547.D	02 Apr 2025 15:18	Not On Login	JC/MD	Not Ok
25	IBLK	IBLK	VX045548.D	02 Apr 2025 15:41		JC/MD	Ok
26	Q1697-03	IW-02-55-040125	VX045549.D	02 Apr 2025 16:04	vial A pH<2	JC/MD	Ok
27	Q1697-04	IW-02-55-040125-FD	VX045550.D	02 Apr 2025 16:27	vial A pH<2	JC/MD	Ok
28	Q1697-05	IW-03-55-040125	VX045551.D	02 Apr 2025 16:51	vial A pH<2	JC/MD	Ok
29	Q1697-06	TB-01-040125	VX045552.D	02 Apr 2025 17:14	vial A pH<2 TB;Hit of comp.#44	JC/MD	ReRun
30	Q1623-01	Storage-Blank-SOIL-RE	VX045553.D	02 Apr 2025 17:37	vial A pH<2	JC/MD	Ok
31	Q1623-02	Storage-Blank-WATER-	VX045554.D	02 Apr 2025 18:01	vial A pH<2	JC/MD	Ok
32	Q1623-03	Storage-Blank-WATER-	VX045555.D	02 Apr 2025 18:24	vial A pH<2	JC/MD	Ok
33	Q1623-04	Storage-Blank-SAMPLE	VX045556.D	02 Apr 2025 18:47	vial A pH<2	JC/MD	Ok
34	VSTDCCC050	VSTDCCC050EC	VX045557.D	02 Apr 2025 19:10		JC/MD	Ok,M

M : Manual Integration

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Fax : 908 789 8922

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX040325

Review By	Semsettin Yesilyurt	Review On	4/4/2025 7:55:43 AM		
Supervise By	Mahesh Dadoda	Supervise On	4/4/2025 7:58:30 AM		
SubDirectory	VX040325	HP Acquire Method		HP Processing Method	82X040225W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133576
Initial Calibration Stds	
CCC	VP133577,VP133578
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	VX045558.D	03 Apr 2025 10:01		JC/MD	Ok
2	VSTDCCC050	VSTDCCC050	VX045559.D	03 Apr 2025 10:30	pH#Lot#V12668	JC/MD	Ok,M
3	VX0403MBL01	VX0403MBL01	VX045560.D	03 Apr 2025 10:58		JC/MD	Ok
4	VX0403WBL01	VX0403WBL01	VX045561.D	03 Apr 2025 11:21		JC/MD	Ok
5	Q1697-06	TB-01-040125	VX045562.D	03 Apr 2025 11:45	vial B pH<2 TB	JC/MD	Ok
6	VX0403WBS01	VX0403WBS01	VX045563.D	03 Apr 2025 12:08		JC/MD	Ok,M
7	Q1711-01	MW-18B-56-040225	VX045564.D	03 Apr 2025 12:31	Need lower dilution	JC/MD	Not Ok
8	Q1711-04	MW-17B-55-040225	VX045565.D	03 Apr 2025 12:54	Need lower dilution	JC/MD	Not Ok
9	Q1711-07	RMW-05B-89-040225	VX045566.D	03 Apr 2025 13:18	Need Straight Run	JC/MD	Not Ok
10	VX0403WBSD01	VX0403WBSD01	VX045567.D	03 Apr 2025 13:41		JC/MD	Ok,M
11	Q1711-07	RMW-05B-89-040225	VX045568.D	03 Apr 2025 14:04	vial A pH<2	JC/MD	Ok
12	Q1711-04	MW-17B-55-040225	VX045569.D	03 Apr 2025 14:27	vial A pH<2	JC/MD	Ok
13	IBLK	IBLK	VX045570.D	03 Apr 2025 14:50		JC/MD	Ok
14	Q1711-10	TB01-040225	VX045571.D	03 Apr 2025 15:14	vial A pH<2 TB	JC/MD	Ok
15	Q1711-08	EB01-040225	VX045572.D	03 Apr 2025 15:37	vial A pH<2 EB	JC/MD	Ok
16	Q1711-05	MW-18B-56-040225-SI	VX045573.D	03 Apr 2025 16:00	screening	JC/MD	Not Ok
17	Q1711-06	MW-17B-56-040225-SI	VX045574.D	03 Apr 2025 16:23	screening	JC/MD	Not Ok
18	Q1711-01	MW-18B-56-040225	VX045575.D	03 Apr 2025 16:47	vial A pH<2	JC/MD	Ok

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Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX040325

Review By	Semsettin Yesilyurt	Review On	4/4/2025 7:55:43 AM		
Supervise By	Mahesh Dadoda	Supervise On	4/4/2025 7:58:30 AM		
SubDirectory	VX040325	HP Acquire Method		HP Processing Method	82X040225W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133576
Initial Calibration Stds	
CCC	VP133577,VP133578
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q1711-02MS	MW-18B-56-040225MS	VX045576.D	03 Apr 2025 17:10	Internal standard fail;Surrogate fail;Recovery failed low	JC/MD	ReRun
20	Q1711-03MSD	MW-18B-56-040225MS	VX045577.D	03 Apr 2025 17:33	vial A pH<2	JC/MD	Ok,M
21	IBLK	IBLK	VX045578.D	03 Apr 2025 17:56		JC/MD	Ok
22	IBLK	IBLK	VX045579.D	03 Apr 2025 18:19		JC/MD	Ok
23	Q1676-01	Storage-Blank-SOIL-RE	VX045580.D	03 Apr 2025 18:43	vial A pH<2	JC/MD	Ok
24	Q1676-02	Storage-Blank-WATER-	VX045581.D	03 Apr 2025 19:06	vial A pH<2	JC/MD	Ok
25	Q1676-03	Storage-Blank-WATER-	VX045582.D	03 Apr 2025 19:29	vial A pH<2	JC/MD	Ok
26	Q1676-04	Storage-Blank-SAMPLE	VX045583.D	03 Apr 2025 19:52	vial A pH<2	JC/MD	Ok
27	VSTDCCC050	VSTDCCC050EC	VX045584.D	03 Apr 2025 20:15		JC/MD	Ok,M

M : Manual Integration

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Prep Standard - Chemical Standard Summary

Order ID : Q1697

Test : VOCMS Group3

Prepbatch ID :

Sequence ID/Qc Batch ID: VX040225,vx040325,

Standard ID :
VP131746,VP131767,VP132035,VP132037,VP132096,VP132097,VP132101,VP132678,VP133174,VP133176,VP133191,VP133342,VP133344,VP133346,VP133544,VP133546,VP133559,VP133563,VP133564,VP133565,VP133569,VP133570,VP133571,VP133572,VP133573,VP133574,VP133575,VP133576,VP133577,VP133578,

Chemical ID :
V12967,V13391,V13449,V13457,V13460,V13465,V13466,V13582,V13706,V13811,V13919,V13921,V14126,V14154,V14179,V14289,V14425,V14431,V14435,V14501,V14502,V14523,V14524,V14613,V14614,V14615,V14624,V14630,V14631,V14632,V14633,V14719,V14720,V14726,V14744,V14753,V14801,V14804,V14805,V14842,V14883,V14896,V14897,V14898,V14899,V14900,V14901,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
1812	8260 Working Std(2-CVE)-100ppm	VP132037	12/10/2024	06/10/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 12/12/2024

FROM 0.25000ml of V14633 + 24.75000ml 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
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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
253	8260 Working STD (BCM)-First source, 20PPM	VP132097	12/12/2024	06/10/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 12/19/2024

FROM 0.50000ml of V13466 + 49.50000ml of V14614 = 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
1817	8260 Working Std(2-CVE)-SS, 800ppm	VP132101	12/12/2024	06/10/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 12/19/2024

FROM 0.80000ml of V13582 + 9.20000ml of V14614 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
262	8260 Working STD (BCM)-Second source, 100PPM	VP132678	01/24/2025	07/13/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 01/29/2025

FROM 1.00000ml of V12967 + 9.00000ml of V14624 = Final Quantity: 10.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
617	8260 Surrogate, 400PPM	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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1738	8260 surrogate 20 ppm	VP133176	02/27/2025	08/27/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 03/04/2025

FROM 0.02000ml of V13706 + 24.99000ml 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
259	8260 Calibration Working STD Mix-Second source, 160PPM	VP133191	02/28/2025	04/05/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 03/04/2025

FROM 0.16000ml of V13449 + 0.60000ml of V13919 + 0.80000ml of V13811 + 0.80000ml of V14126 + 0.80000ml of V14179 + 0.80000ml of V14425 + 0.80000ml of V14801 + 1.00000ml of V13921 + 4.24000ml of V14613 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
51	8260 Working STD (Acrolein) -first source, 800PPM	VP133342	03/18/2025	04/17/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 03/20/2025

FROM 1.00000ml of V14896 + 1.00000ml of V14897 + 1.00000ml of V14898 + 1.00000ml of V14899 + 21.00000ml of V14883 = Final Quantity: 25.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
180	8260 Working STD (Acrolein)-First source, 100PPM	VP133344	03/18/2025	04/17/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 03/20/2025

FROM 17.50000ml of V14883 + 2.50000ml of VP133342 = Final Quantity: 20.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
263	8260 Working STD (Acrolein)-Second source, 800PPM	VP133346	03/18/2025	04/15/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 03/20/2025

FROM 0.60000ml of V14901 + 1.00000ml of V14900 + 8.40000ml of V14883 = Final Quantity: 10.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
257	8260 Calibration Working STD Mix-First source, 160PPM	VP133544	04/01/2025	05/10/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 04/03/2025

FROM 0.40000ml of V14842 + 1.00000ml of V14431 + 1.00000ml of V14435 + 1.00000ml of V14501 + 1.00000ml of V14502 + 1.00000ml of V14523 + 1.00000ml of V14524 + 1.00000ml of V14726 + 1.00000ml of V14744 + 1.00000ml of V14753 + 1.00000ml of V14804 + 1.00000ml of V14805 + 1.50000ml of V14719 + 1.50000ml of V14720 + 10.60000ml of V14615 = Final Quantity: 25.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
245	8260 Calibration Working STD Mix-First source, 20PPM	VP133546	04/01/2025	05/10/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 04/03/2025

FROM 17.50000ml of V14615 + 2.50000ml of VP133544 = Final Quantity: 20.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
589	BFB TUNE CHECK	VP133559	04/01/2025	04/02/2025	John Carlone	None	None	Mahesh Dadoda 04/05/2025

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
589	BFB TUNE CHECK	VP133563	04/02/2025	04/03/2025	John Carlone	None	None	Mahesh Dadoda 04/05/2025

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	VP133564	04/02/2025	04/03/2025	John Carlone	None	None	Mahesh Dadoda 04/05/2025

FROM 39.94450ml of W3112 + 0.00500ml of VP132096 + 0.00500ml of VP133174 + 0.00800ml of VP131746 + 0.01250ml of VP132035 + 0.01250ml of VP133342 + 0.01250ml of VP133544 = 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	VP133565	04/02/2025	04/03/2025	John Carlone	None	None	Mahesh Dadoda 04/05/2025

FROM 39.94450ml of W3112 + 0.00500ml of VP132096 + 0.00500ml of VP133174 + 0.00800ml of VP131746 + 0.01250ml of VP132035 + 0.01250ml of VP133342 + 0.01250ml of VP133544 = Final Quantity: 40.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
334	1 PPB ICC, 8260-Water	VP133569	04/01/2025	04/02/2025	John Carlone	None	None	Mahesh Dadoda 04/05/2025

FROM 39.98200ml of W3112 + 0.00200ml of VP132037 + 0.00200ml of VP132097 + 0.00200ml of VP133176 + 0.00200ml of VP133344 + 0.00200ml of VP133546 + 0.00800ml of VP131746 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
335	5 PPB ICC, 8260-Water	VP133570	04/01/2025	04/02/2025	John Carlone	None	None	Mahesh Dadoda 04/05/2025

FROM 39.94200ml of W3112 + 0.00800ml of VP131746 + 0.01000ml of VP132037 + 0.01000ml of VP132097 + 0.01000ml of VP133176 + 0.01000ml of VP133344 + 0.01000ml of VP133546 = Final Quantity: 40.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
337	20 PPB ICC, 8260-Water	VP133571	04/01/2025	04/02/2025	John Carlone	None	None	Mahesh Dadoda 04/05/2025

FROM 39.97000ml of W3112 + 0.00200ml of VP132096 + 0.00200ml of VP133174 + 0.00500ml of VP132035 + 0.00500ml of VP133342 + 0.00500ml of VP133544 + 0.00800ml of VP131746 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
380	50 PPB ICC, 8260-Water	VP133572	04/01/2025	04/02/2025	John Carlone	None	None	Mahesh Dadoda 04/05/2025

FROM 39.94450ml of W3112 + 0.00500ml of VP132096 + 0.00500ml of VP133174 + 0.00800ml of VP131746 + 0.01250ml of VP132035 + 0.01250ml of VP133342 + 0.01250ml of VP133544 = Final Quantity: 40.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
381	100 PPB ICC, 8260-Water	VP133573	04/01/2025	04/02/2025	John Carlone	None	None	Mahesh Dadoda 04/05/2025

FROM 39.89700ml of W3112 + 0.00800ml of VP131746 + 0.01000ml of VP132096 + 0.01000ml of VP133174 + 0.02500ml of VP132035 + 0.02500ml of VP133342 + 0.02500ml of VP133544 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
382	150 PPB ICC, 8260-Water	VP133574	04/01/2025	04/02/2025	John Carlone	None	None	Mahesh Dadoda 04/05/2025

FROM 39.84950ml of W3112 + 0.00800ml of VP131746 + 0.01500ml of VP132096 + 0.01500ml of VP133174 + 0.03750ml of VP132035 + 0.03750ml of VP133342 + 0.03750ml of VP133544 = Final Quantity: 40.000 ml

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VOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
385	50 PPB ICV, 8260-Water	VP133575	04/01/2025	04/02/2025	John Carlone	None	None	Mahesh Dadoda 04/05/2025

FROM 39.92950ml of W3112 + 0.00500ml of VP133174 + 0.00800ml of VP131746 + 0.01250ml of VP132101 + 0.01250ml of VP133191 + 0.01250ml of VP133346 + 0.02000ml of VP132678 = Final Quantity: 40.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
589	BFB TUNE CHECK	VP133576	04/03/2025	04/04/2025	John Carlone	None	None	Mahesh Dadoda 04/05/2025

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	VP133577	04/03/2025	04/04/2025	John Carlone	None	None	Mahesh Dadoda 04/05/2025

FROM 39.94450ml of W3112 + 0.00500ml of VP132096 + 0.00500ml of VP133174 + 0.00800ml of VP131746 + 0.01250ml of VP132035 + 0.01250ml of VP133342 + 0.01250ml of VP133544 = 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	VP133578	04/03/2025	04/04/2025	John Carlone	None	None	Mahesh Dadoda 04/05/2025

FROM 39.94450ml of W3112 + 0.00500ml of VP132096 + 0.00500ml of VP133174 + 0.00800ml of VP131746 + 0.01250ml of VP132035 + 0.01250ml of VP133342 + 0.01250ml of VP133544 = Final Quantity: 40.000 ml

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	70046 / Bromochloromethane Std. sol/methanol 1000ppm	070122	07/24/2025	01/24/2025 / SAM	07/06/2022 / SAM	V12967

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30067 / BFB tuneing solution	A0191805	11/22/2025	11/22/2024 / SAM	01/13/2023 / SAM	V13391

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30470 / VOA Stock Solution, tert-butanol std, 1mL, P&TM	A0191703	06/02/2025	12/02/2024 / SAM	01/23/2023 / SAM	V13449

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

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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	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 #
Absolute Standards, Inc.	95318 / 2-Chloroethyl Vinyl Ether (Min = 5)	111722	11/17/2025	12/12/2024 / SAM	01/30/2023 / SAM	V13582

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

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	A0194279	08/28/2025	02/28/2025 / SAM	05/31/2023 / SAM	V13811

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	A0193887	07/10/2025	01/10/2025 / SAM	07/24/2023 / SAM	V13919

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	A0193887	08/24/2025	02/24/2025 / SAM	07/24/2023 / SAM	V13921

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95319 / Revised Additions Mix (Min = 5)	011624	07/10/2025	01/10/2025 / SAM	01/17/2024 / SAM	V14126

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)	021524	07/10/2025	01/10/2025 / SAM	02/20/2024 / SAM	V14179

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	A0205013	06/30/2025	01/10/2025 / SAM	08/15/2024 / SAM	V14425

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0209618	09/20/2025	03/20/2025 / SAM	08/15/2024 / SAM	V14431

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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	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0209618	09/20/2025	03/20/2025 / SAM	08/15/2024 / SAM	V14435

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	09/20/2025	03/20/2025 / SAM	09/17/2024 / SAM	V14501

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	09/20/2025	03/20/2025 / SAM	09/17/2024 / SAM	V14502

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	09/20/2025	03/20/2025 / SAM	09/18/2024 / SAM	V14523

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	09/20/2025	03/20/2025 / SAM	09/18/2024 / SAM	V14524

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

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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	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)	22L0562016	09/19/2025	03/19/2025 / SAM	11/26/2024 / SAM	V14615

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

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

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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	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	09/20/2025	03/20/2025 / SAM	12/17/2024 / SAM	V14719

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	09/20/2025	03/20/2025 / SAM	12/17/2024 / SAM	V14720

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	07/30/2025	01/30/2025 / SAM	12/17/2024 / SAM	V14726

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	07/30/2025	01/30/2025 / SAM	12/17/2024 / SAM	V14753

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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	555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE LOTS	A0220563	06/30/2026	01/10/2025 / SAM	01/08/2025 / SAM	V14801

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	09/20/2025	03/20/2025 / SAM	01/08/2025 / SAM	V14804

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	09/20/2025	03/20/2025 / SAM	01/08/2025 / SAM	V14805

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 #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	10/25/2025	02/19/2025 / Jaswal	04/22/2024 / Jaswal	V14883

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	031725	04/17/2025	03/18/2025 / SAM	03/18/2025 / SAM	V14896

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	031725	04/17/2025	03/18/2025 / SAM	03/18/2025 / SAM	V14897

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	031725	04/17/2025	03/18/2025 / SAM	03/18/2025 / SAM	V14898

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	031725	04/17/2025	03/18/2025 / SAM	03/18/2025 / SAM	V14899

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	031525	04/15/2025	03/18/2025 / SAM	03/18/2025 / SAM	V14900

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	031525	04/15/2025	03/18/2025 / SAM	03/18/2025 / SAM	V14901

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

avantor™ | J.T.Baker®

Material No.: 9077-02
Batch No.: 2310762004
Manufactured Date: 2023-08-11
Expiration Date: 2026-08-10
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.5 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.2
Titrable Base (µeq/g)	≤ 0.10	0.01
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Ken Koehnlein
Sr. Manager, Quality Assurance

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

12 Baxter

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 Baxter

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 Baxter

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

12

ANAB ISO 17034 Accredit
AR-1539 Certificate Number
https://Absolutestandards.cc

CERTIFIED WEIGHT REPORT

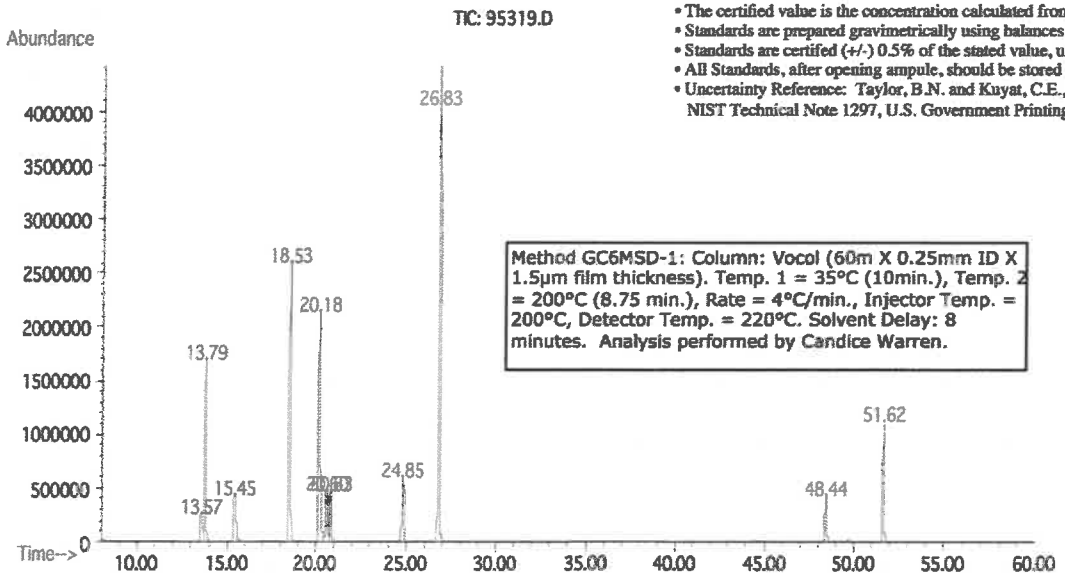
Part Number: 95319
Lot Number: 011624
Description: Revised Additions Mix
11 components
Expiration Date: 011627
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): Varied
NIST Test ID#: 6UTB

Solvent(s): Methanol **Lot#** EH471-US

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Flask Uncertainty

Formulated By:	Prashant Chauhan	011624 DATE
Reviewed By:	Pedro L. Rentas	011624 DATE

	Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1.	Acrylonitrile	7	4718CK	10000	99	0.2	1.01035	1.01080	10004.4	40.6	107-13-1	N/A	orl-rat 78 mg/kg
2.	1-Chlorobutane	1072	MKCM5711	2000	99.99	0.2	0.20007	0.20035	2002.8	8.1	109-69-3	N/A	orl-rat 2670mg/kg
3.	Cyclohexane	1023	28930	2000	99	0.2	0.20207	0.20222	2001.5	8.2	110-82-7	300 ppm (1050mg/m3/8H)	orl-rat 12705mg/kg
4.	Di-isopropyl ether (DIPE)	987	00412MX	2000	99	0.2	0.20207	0.20227	2002.0	8.2	108-20-3	500 ppm (2100mg/m3/8H)	orl-rat 8470mg/kg
5.	1,4-Dioxane	373	03853KE	40000	99	0.2	4.04142	4.04213	40007.0	162.5	123-91-1	25 ppm (90mg/m3/8H)(skin)	orl-mus 5700mg/kg
6.	Hexachloroethane	199	12604HBV	2000	99	0.2	0.20207	0.20221	2001.4	8.2	67-72-1	1 ppm (10mg/m3/8H)(skin)	orl-gpg 4970mg/kg
7.	Methylcyclohexane	1627	SHBG0199V	2000	99	0.2	0.20207	0.20230	2002.3	8.2	108-87-2	N/A	orl-mus 2250mg/kg
8.	Methyl tert-butyl ether (MTBE)	209	21880	2000	99	0.2	0.20207	0.20227	2002.0	8.2	1634-04-4	N/A	orl-rat 4g/kg
9.	Propionitrile	349	1395468	20000	99	0.2	2.02071	2.02150	20007.8	81.3	107-12-0	N/A	orl-rat 39mg/kg
10.	Tetrahydrofuran	380	SHBH8330	10000	99.9	0.2	1.00125	1.00200	10007.5	40.3	109-99-9	20 ppm (590mg/m3/8H)	orl-rat 1650mg/kg
11.	1,2,3,4-Tetramethylbenzene	491	AP01	2000	93	0.2	0.21511	0.21522	2001.0	8.7	488-23-3	N/A	orl-rat 6408mg/kg



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Method GC6MSD-1: Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Temp. 1 = 35°C (10min.), Temp. 2 = 200°C (8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Solvent Delay: 8 minutes. Analysis performed by Candice Warren.

Name	MSD RT (min.)
Methyl tert-butyl ether (MTBE)	13.56
Acrylonitrile	13.79
Di-isopropyl ether	15.44
Propionitrile	18.53
Tetrahydrofuran	20.17
Cyclohexane	20.58
1-Chlorobutane	20.83
Methylcyclohexane	24.84
1,4-Dioxane	26.84
Hexachloroethane	48.44
1,2,3,4-Tetramethylbenzene	51.62

CERTIFIED WEIGHT REPORT

Part Number: 95317
Lot Number: 021524
Description: Universal VOA Megamix
69 components
Expiration Date: 021527
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 8UTB

Solvent(s): Methanol
Lot#: EG359-USQ12

Formulated By: Mario Luis 021524 DATE

Reviewed By: Pedro L. Rentas 021524 DATE

5E-05 Balance Uncertainty

Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Flask Uncertainty

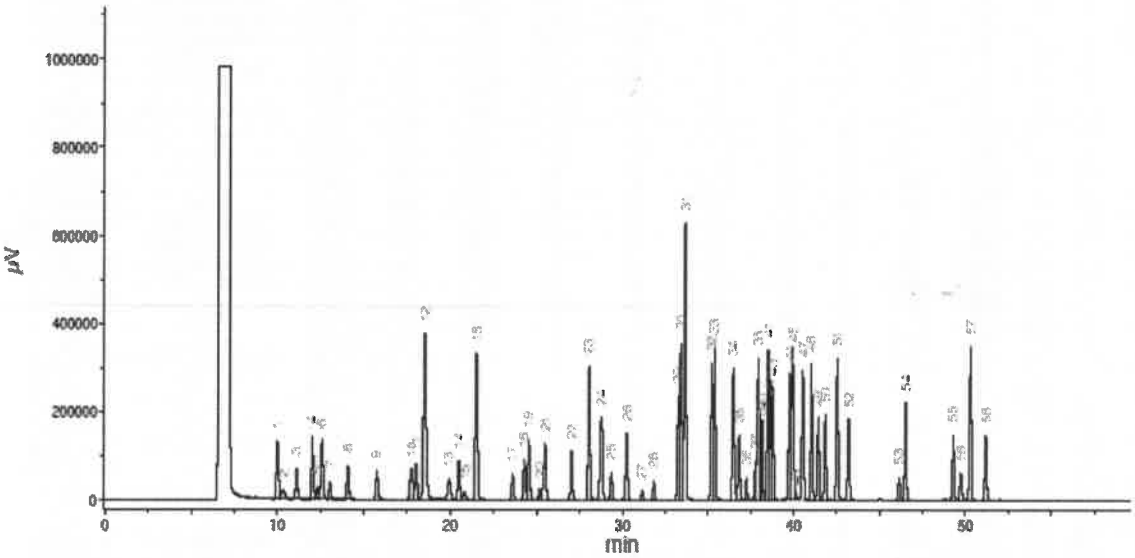
	Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(ug/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1.	Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20022	2001.5	8.1	75-05-8	40 ppm (70mg/m3/8H)	orl-rat 2460mg/kg
2.	Allyl chloride (3-Chloropropene)	(0325)	102396	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20222	2001.5	8.2	107-05-1	1 ppm (3mg/m3/8H)	orl-rat 700mg/kg
3.	Carbon disulphide	(0060)	MKCR8561	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20020	2001.3	8.1	75-15-0	4 ppm (12mg/m3) (skin)	orl-rat 1200mg/kg
4.	cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21058	0.21060	2000.2	8.5	1476-11-5	N/A	N/A
5.	trans-1,4-Dichloro-2-butene	(0486)	MKBP6041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20734	2000.3	8.4	110-57-6	N/A	N/A
6.	Diethyl ether	(0153)	IK18CAS000(	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20042	2001.7	8.1	60-29-7	N/A	N/A
7.	Ethyl methacrylate	(0381)	06126PX	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20231	2002.4	8.2	97-63-2	N/A	orl-rat 14800mg/kg
8.	Iodomethane	(0489)	SHBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20118	2001.2	8.1	74-88-4	5 ppm(28mg/m3/8H)(skin)	orl-rat 76mg/kg
9.	2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20120	2001.4	8.1	78-83-1	50 ppm (150mg/m3/8H)	orl-rat 2460mg/kg
10.	Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20209	2000.2	8.2	126-98-7	1 ppm (3mg/m3/8H)(skin)	orl-rat 120mg/kg
11.	Methyl acrylate	(1075)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20042	2001.7	8.1	96-33-3	10 ppm(35mg/m3/8H)(skin)	orl-rat 277mg/kg
12.	Methyl methacrylate	(0404)	MKBW5137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20030	2000.5	8.1	80-62-6	100 ppm (410mg/m3/8H)	orl-rat 7872mg/kg
13.	Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	98-95-3	1 ppm (5mg/m3/8H)(skin)	orl-rat 780mg/kg
14.	2-Nitropropane	(0461)	14002JX	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20570	2001.0	8.3	79-46-9	10 ppm (35mg/m3/8H)	orl-rat 720mg/kg
15.	Pentachloroethane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20415	2000.2	8.3	76-01-7	N/A	N/A
16.	1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20210	2000.3	8.2	76-13-1	1000 ppm (7600mg/m3/8H)	orl-rat 43g/kg
17.	Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	N/A	orl-rat 916mg/kg
18.	Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	N/A	orl-rat 848mg/kg
19.	cis-1,2-Dichloroethene	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	156-59-2	N/A	N/A
20.	trans-1,2-Dichloroethene	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	156-60-5	N/A	orl-rat 1235mg/kg
21.	Methylene chloride	35171	101623	0.05	5.00	40002.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-09-2	500 ppm	orl-rat 820mg/kg
22.	1,1-Dichloroethene	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.7	20.4	75-35-4	1 ppm (4mg/m3/8H)	orl-rat 200mg/kg
23.	Bromoform	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)	orl-rat 933mg/kg
24.	Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	56-23-5	2 ppm (12.6mg/m3/8H)	orl-rat 2350mg/kg
25.	Chloroform	95321	020724	0.10	10.00	20024.0	2000	NA	NA	0.042	NA	NA	2001.9	20.5	67-66-3	50 ppm (240mg/m3) (CL)	orl-rat 908mg/kg
26.	Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-95-3	N/A	orl-rat 108mg/kg
27.	1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	100 ppm	orl-rat 725mg/kg
28.	2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	N/A	N/A
29.	Tetrachloroethene	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	2018.6	20.6	127-18-4	25 ppm (170mg/m3/8H)(final)	orl-rat 2629mg/kg
30.	1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)	orl-rat 10300mg/kg
31.	1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40016.5	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-8	0.001 ppm	orl-rat 170mg/kg
32.	1,2-Dibromoethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.7	22.9	106-93-4	20 ppm (8H)	orl-rat 108mg/kg
33.	1,2-Dichloroethane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	107-06-2	50 ppm (8H)	orl-rat 670mg/kg
34.	1,2-Dichloropropane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2002.0	22.9	78-87-5	75 ppm (350mg/m3/8H)	orl-rat 1947mg/kg
35.	1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	N/A	unr-mus 3600mg/kg
36.	1,1-Dichloropropene	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	29.7	563-58-6	N/A	N/A
37.	cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10061-01-5	N/A	N/A
38.	trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.6	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-02-6	N/A	N/A
39.	Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	29.7	87-68-3	0.02 ppm (0.24mg/m3/8H)	orl-rat 82mg/kg
40.	1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.1	22.9	630-20-6	N/A	orl-rat 670mg/kg
41.	1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	79-34-5	5 ppm (35mg/m3/8H)(skin)	orl-rat 800mg/kg
42.	1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (45mg/m3/8H)(skin)	orl-rat 836mg/kg
43.	Trichloroethene	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	50 ppm (270mg/m3/8H)	orl-mus 2402mg/kg
44.	1,2,3-Trichloropropane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	96-18-4	10 ppm (60mg/m3/8H)	orl-rat 149.6mg/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	40005.6	2000	NA	NA	0.017	NA	NA	1999.8	22.9	99-87-6	N/A	orl-rat 4750mg/kg
50.	Naphthalene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8H)	orl-rat 490mg/kg
51.	Styrene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-42-5	100 ppm	orl-rat 5000mg/kg
52.	Toluene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-88-3	200 ppm	orl-rat 5000mg/kg
53.	1,2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-61-6	N/A	ipr-mus 1260mg/kg
54.	1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	120-82-1	5 ppm (CL) (40mg/m3)	orl-rat 756mg/kg
55.	1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.6	2000	NA	NA	0.017	NA	NA	1999.6	23.0	95-63-6	N/A	orl-rat 5g/kg
56.	1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-67-8	N/A	orl-rat 5000mg/kg
57.	m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-38-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg
58.	tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.6	22.9	98-06-6	N/A	N/A
59.	sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	22.9	135-98-8	N/A	orl-rat 2240mg/kg
60.	Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-90-7	75 ppm (350mg/m3/8H)	orl-rat 2290mg/kg
61.	2-Chlorotoluene	35163	101923	0.05	5.00	40000.3	2000	NA	NA	0.017	NA	NA	1999.5	22.9	95-49-8	50 ppm (250mg/m3/8H)	orl-rat 3900mg/kg
62.	4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	N/A	orl-rat 2100mg/kg
63.	1,2-Dichlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-50-1	50 ppm (300mg/m3) (CL)	orl-rat 500mg/kg
64.	1,3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	23.0	541-73-1	N/A	ipr-mus 1062mg/kg
65.	1,4-Dichlorobenzene	35163	101923	0.05	5.00	40001.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	106-46-7	75 ppm (450mg/m3/8H)	orl-rat 500mg/kg
66.	Isopropylbenzene	35163	101923	0.05	5.00	40000.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	98-82-8	50 ppm (245mg/m3/8H)	orl-rat 1400mg/kg
67.	n-Propylbenzene	35163	101923	0.05	5.00	40003.4	2000	NA	NA	0.017	NA	NA	1999.7	23.0	103-65-1	N/A	orl-rat 6040mg/kg
68.	o-Xylene	35163	101923	0.05	5.00	40040.8	2000	NA	NA	0.017	NA	NA	2001.5	23.0	95-47-6	100 ppm (435mg/m3/8H)	ipr-mus 1364mg/kg
69.	p-Xylene	35163	101923	0.05	5.00	40000.6	2000	NA	NA	0.017	NA	NA	1999.5	22.9	106-42-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty References: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Run 17, "P95317 L021524 [2000µg/mL in MeOH]"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 10:04:27 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments
GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=6.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3



Peak #	Name	FID RT (min.)
1	Ether	9.97
2	1,1,2-Trichloro-1,2,2-trifluoroethane	10.33
3	1,1-Dichloroethene	11.10
4	Acetonitrile	12.00
5	Iodomethane	12.31
6	Allyl chloride	12.56
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethene	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.74
11	cis-1,2-Dichloroethene	18.00
12	Methacrylonitrile/Methyl acrylate/Chloroform	18.49
13	Isobutanol/1,1,1-Trichloroethane	19.91
14	1,1-Dichloropropene	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.48
17	Trichloroethene	23.58
18	1,2-Dichloropropane	24.26
19	Methyl methacrylate	24.52
20	Bromodichloromethane	25.13
21	Dibromomethane/2-Nitropropane	25.46
22	cis-1,3-Dichloropropene	27.02
23	Toluene	28.05
24	Ethyl methacrylate/trans-1,3-Dichloropropene	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethene/1,3-Dichloropropane	30.24
27	Dibromochloromethane	31.16
28	1,2-Dibromoethane	31.84
29	Chlorobenzene	33.26
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.40
31	m-Xylene/p-Xylene	33.66
32	o-Xylene	33.22
33	Styrene	35.39
34	Isopropylbenzene/Bromoform	36.48
35	cis-1,4-Dichloro-2-butene	36.80
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,3-Trichloropropane	37.77
38	n-Propylbenzene	37.92
39	trans-1,4-Dichloro-2-butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.50
42	2-Chlorotoluene	38.62
43	4-Chlorotoluene	38.77
44	tert-Butylbenzene	39.76
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropyltoluene	41.02
49	1,3-Dichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.83
51	n-Butylbenzene	42.52
52	1,2-Dichlorobenzene	43.10
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.48
55	1,2,4-Trichlorobenzene	48.26
56	Hexachlorobutadiene	49.22
57	Naphthalene	50.26
58	1,2,3-Trichlorobenzene	51.16

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Rec 09/17/24

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CERTIFIED WEIGHT REPORT

Part Number: 95317
Lot Number: 021624
Description: Universal VOA Megamix
69 components
Expiration Date: 021627
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 6UTB

Solvent(s): Lot#
Methanol EG359-USQ12

Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Flask Uncertainty (5E-05 Balance Uncertainty)

Formulated By: Prashant Chauhan 021624 DATE

Reviewed By: Pedro L. Rentas 021624 DATE

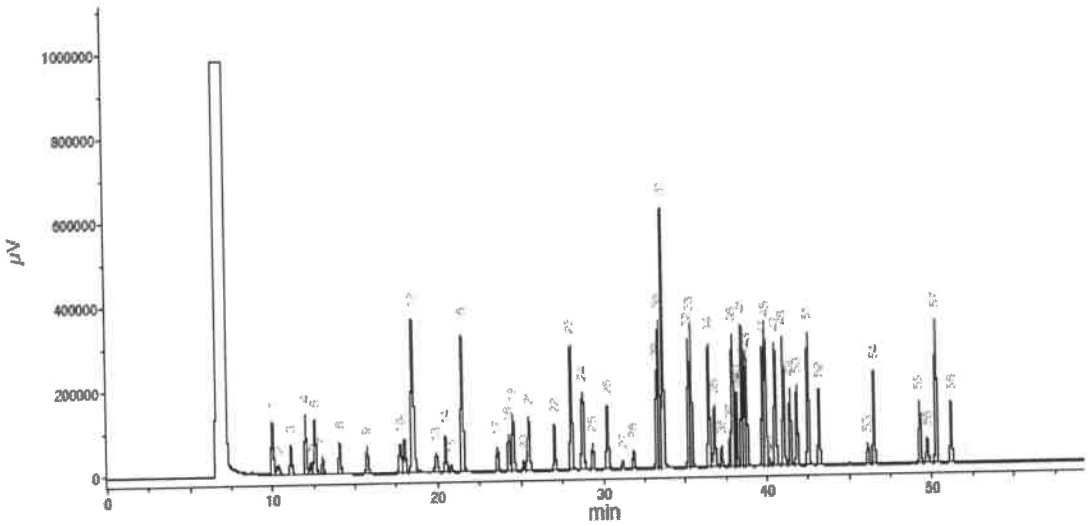
	Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(ug/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1.	Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20020	2001.3	8.1	75-05-8	40 ppm (70mg/m3/8H)	orl-rat 2460mg/kg
2.	Allyl chloride (3-Chloropropene)	(0325)	102396	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	107-05-1	1 ppm (3mg/m3/8H)	orl-rat 700mg/kg
3.	Carbon disulphide	(0060)	MKCR6561	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20023	2001.6	8.1	75-15-0	4 ppm (12mg/m3) (skin)	orl-rat 1200mg/kg
4.	cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21058	0.21069	2001.1	8.5	1476-11-5	N/A	N/A
5.	trans-1,4-Dichloro-2-butene	(0466)	MKBP6041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20748	2001.7	8.4	110-57-6	N/A	N/A
6.	Diethyl ether	(0153)	IK18CAS0000	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	60-29-7	N/A	N/A
7.	Ethyl methacrylate	(0381)	06128PX	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	97-63-2	N/A	orl-rat 14800mg/kg
8.	Iodomethane	(0489)	SHBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20121	2001.5	8.2	74-88-4	5 ppm(28mg/m3/8H)(skin)	orl-rat 76mg/kg
9.	2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20120	2001.4	8.1	78-83-1	50 ppm (150mg/m3/8H)	orl-rat 2460mg/kg
10.	Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	126-98-7	1 ppm (3mg/m3/8H)(skin)	orl-rat 120mg/kg
11.	Methyl acrylate	(1075)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	96-33-3	10 ppm(35mg/m3/8H)(skin)	orl-rat 277mg/kg
12.	Methyl methacrylate	(0404)	MKBW5137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20041	2001.6	8.1	80-62-6	100 ppm (410mg/m3/8H)	orl-rat 7872mg/kg
13.	Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20220	2001.3	8.2	98-95-3	1 ppm (5mg/m3/8H)(skin)	orl-rat 780mg/kg
14.	2-Nitropropane	(0461)	14002JX	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	79-46-9	10 ppm (35mg/m3/8H)	orl-rat 720mg/kg
15.	Pentachloroethane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.6	8.3	76-01-7	N/A	N/A
16.	1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20225	2001.8	8.2	76-13-1	1000 ppm (7600mg/m3/8H)	orl-rat 43g/kg
17.	Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	N/A	orl-rat 916mg/kg
18.	Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	N/A	orl-rat 848mg/kg
19.	cis-1,2-Dichloroethene	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	156-59-2	N/A	N/A
20.	trans-1,2-Dichloroethene	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	156-60-5	N/A	orl-rat 1235mg/kg
21.	Methylene chloride	35171	101623	0.05	5.00	40002.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-09-2	500 ppm	orl-rat 820mg/kg
22.	1,1-Dichloroethene	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.7	20.4	75-35-4	1 ppm (4mg/m3/8H)	orl-rat 200mg/kg
23.	Bromoform	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)	orl-rat 933mg/kg
24.	Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	56-23-5	2 ppm (12.6mg/m3/8H)	orl-rat 2350mg/kg
25.	Chloroform	95321	020724	0.10	10.00	20024.0	2000	NA	NA	0.042	NA	NA	2001.9	20.5	67-66-3	50 ppm (240mg/m3) (CL)	orl-rat 908mg/kg
26.	Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-95-3	N/A	orl-rat 108mg/kg
27.	1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	100 ppm	orl-rat 725mg/kg
28.	2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	N/A	N/A
29.	Tetrachloroethene	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	2019.6	20.8	127-18-4	25 ppm (170mg/m3/8H)(final)	orl-rat 2629mg/kg
30.	1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)	orl-rat 10300mg/kg
31.	1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40016.5	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-8	0.001 ppm	orl-rat 170mg/kg
32.	1,2-Dibromoethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.7	22.9	106-93-4	20 ppm (8H)	orl-rat 108mg/kg
33.	1,2-Dichloroethane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	107-06-2	50 ppm (8H)	orl-rat 670mg/kg
34.	1,2-Dichloropropane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2002.0	22.9	78-87-5	75 ppm (350mg/m3/8H)	orl-rat 1947mg/kg
35.	1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	N/A	unr-mus 3600mg/kg
36.	1,1-Dichloropropene	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	29.7	563-58-6	N/A	N/A
37.	cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10061-01-5	N/A	N/A
38.	trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.6	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-02-6	N/A	N/A
39.	Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	29.7	87-68-3	0.02 ppm (0.24mg/m3/8H)	orl-rat 82mg/kg
40.	1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.1	22.9	630-20-6	N/A	orl-rat 670mg/kg
41.	1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	79-34-5	5 ppm (35mg/m3/8H)(skin)	orl-rat 800mg/kg
42.	1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (45mg/m3/8H)(skin)	orl-rat 836mg/kg
43.	Trichloroethene	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	50 ppm (270mg/m3/8H)	orl-mus 2402mg/kg
44.	1,2,3-Trichloropropane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	96-18-4	10 ppm (60mg/m3/8H)	orl-rat 149.6mg/kg
45.	Benzene	35162	050823	0.05	5.00	40005.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	orl-rat 4894mg/kg
46.	Bromobenzene	35162	050823	0.05	5.00	40006.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-86-1	N/A	orl-rat 2699mg/kg
47.	n-Butyl benzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	104-51-8	N/A	N/A
48.	Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8H)	orl-rat >2000mg/kg
49.	p-Isopropyl toluene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	99-87-6	N/A	orl-rat 4750mg/kg
50.	Naphthalene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8H)	orl-rat 490mg/kg
51.	Styrene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-42-5	100 ppm	orl-rat 5000mg/kg
52.	Toluene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-88-3	200 ppm	orl-rat 5000mg/kg
53.	1,2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-61-6	N/A	ipr-mus 1390mg/kg
54.	1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	120-82-1	5 ppm (CL) (40mg/m3)	orl-rat 756mg/kg
55.	1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.6	2000	NA	NA	0.017	NA	NA	1999.6	23.0	95-63-6	N/A	orl-rat 5g/kg
56.	1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-67-8	N/A	orl-rat 5000mg/kg
57.	m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-38-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg
58.	tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	98-06-6	N/A	N/A
59.	sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.8	22.9	135-98-8	N/A	orl-rat 2240mg/kg
60.	Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-90-7	75 ppm (350mg/m3/8H)	orl-rat 2290mg/kg
61.	2-Chlorotoluene	35163	101923	0.05	5.00	40000.3	2000	NA	NA	0.017	NA	NA	1999.5	22.9	95-49-8	50 ppm (250mg/m3/8H)	orl-rat 3900mg/kg
62.	4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	N/A	orl-rat 2100mg/kg
63.	1,2-Dichlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-50-1	50 ppm (300mg/m3) (CL)	orl-rat 500mg/kg
64.	1,3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	23.0	541-73-1	N/A	ipr-mus 1062mg/kg
65.	1,4-Dichlorobenzene	35163	101923	0.05	5.00	40001.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	106-46-7	75 ppm (450mg/m3/8H)	orl-rat 500mg/kg
66.	Isopropylbenzene	35163	101923	0.05	5.00	40000.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	98-82-8	50 ppm (245mg/m3/8H)	orl-rat 1400mg/kg
67.	n-Propylbenzene	35163	101923	0.05	5.00	40003.4	2000	NA	NA	0.017	NA	NA	1999.7	23.0	103-65-1	N/A	orl-rat 8040mg/kg
68.	o-Xylene	35163	101923	0.05	5.00	40040.8	2000	NA	NA	0.017	NA	NA	2001.5	23.0	95-47-6	100 ppm (435mg/m3/8H)	ipr-mus 1364mg/kg
69.	p-Xylene	35163	101923	0.05	5.00	40000.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	106-42-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Run 16, "P95317 L021624 (2000µg/mL in MeOH)"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 8:56:46 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments
GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3



Peak #	Name	FID RT (min.)
1	Ether	9.97
2	1,1,2-Trichloro-1,2,3-trifluoroethane	10.33
3	1,1-Dichloroethene	11.10
4	Acetonitrile	12.00
5	Iodomethane	12.31
6	Allyl chloride	12.56
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethene	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.74
11	cis-1,2-Dichloroethene	18.00
12	Methacrylonitrile/Methyl acrylate/Chloroform	18.49
13	Isobutanol/1,1,1-Trichloroethane	18.91
14	1,1-Dichloropropene	19.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.48
17	Trichloroethene	23.86
18	1,2-Dichloropropane	24.26
19	Methyl methacrylate	24.62
20	Bromodichloromethane	25.13
21	Dibromomethane/2-Nitropropane	25.46
22	cis-1,3-Dichloropropene	27.07
23	Toluene	28.09
24	Ethyl methacrylate/trans-1,3-Dichloropropene	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethene/1,3-Dichloropropane	30.34
27	Dibromochloromethane	31.16
28	1,2-Dibromoethane	31.84
29	Chlorobenzene	33.26
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.40
31	m-Xylene/p-Xylene	33.85
32	o-Xylene	35.33
33	Styrene	35.50
34	Isopropylbenzene/Bromoform	35.48
35	cis-1,4-Dichloro-2-butene	36.80
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,3-Trichloropropane	37.77
38	n-Propylbenzene	37.92
39	trans-1,4-Dichloro-2-butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.50
42	2-Chlorotoluene	38.62
43	4-Chlorotoluene	38.77
44	tert-Butylbenzene	39.76
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropyltoluene	41.02
49	1,3-Dichlorobenzene	41.12
50	1,4-Dichlorobenzene	41.63
51	n-Butylbenzene	42.52
52	1,2-Dichlorobenzene	42.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.58
55	1,2,4-Trichlorobenzene	48.26
56	Hexachlorobutadiene	49.72
57	Naphthalene	50.26
58	1,2,3-Trichlorobenzene	51.16

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	**1-352-323-3500**
		Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	% (optional) > 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Storage Conditions	Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 09/17/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95317
Lot Number: 021624
Description: Universal VOA Megamix
69 components
Expiration Date: 021627
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 6UTB

Solvent(s): Lot#
Methanol EG359-USQ12

Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Flask Uncertainty (5E-05 Balance Uncertainty)

Formulated By: Prashant Chauhan 021624 DATE

Reviewed By: Pedro L. Rentas 021624 DATE

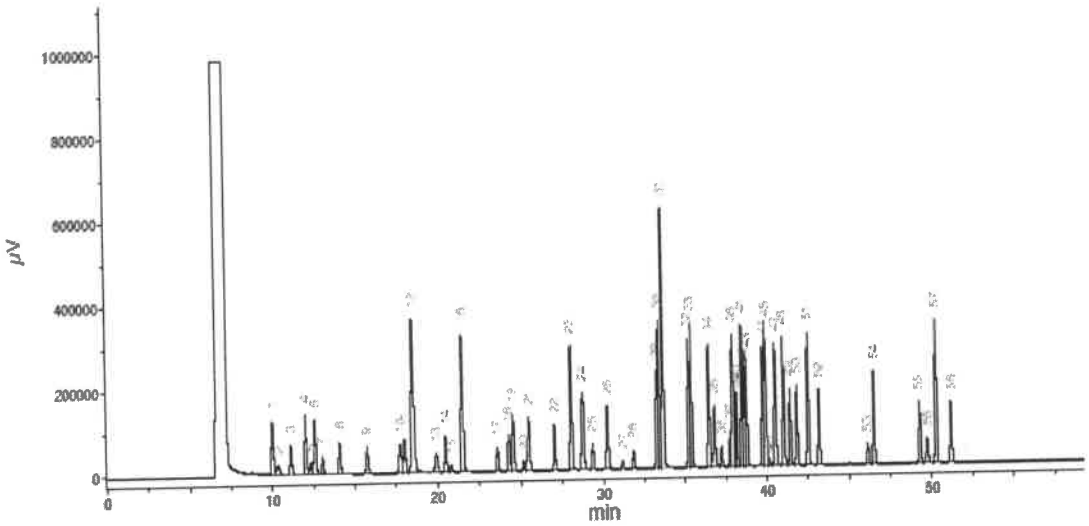
	Compound	(RM#) Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Initial Conc.(ug/mL)	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Uncertainty Pipette (mL)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1.	Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20020	2001.3	8.1	75-05-8	40 ppm (70mg/m3/8H)	orl-rat 2460mg/kg
2.	Allyl chloride (3-Chloropropene)	(0325)	102396	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	107-05-1	1 ppm (3mg/m3/8H)	orl-rat 700mg/kg
3.	Carbon disulphide	(0060)	MKCR8561	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20023	2001.6	8.1	75-15-0	4 ppm (12mg/m3) (skin)	orl-rat 1200mg/kg
4.	cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21058	0.21069	2001.1	8.5	1476-11-5	N/A	N/A
5.	trans-1,4-Dichloro-2-butene	(0466)	MKBP6041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20748	2001.7	8.4	110-57-6	N/A	N/A
6.	Diethyl ether	(0153)	IK18CAS0000	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	60-29-7	N/A	N/A
7.	Ethyl methacrylate	(0381)	06128PX	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	97-63-2	N/A	orl-rat 14800mg/kg
8.	Iodomethane	(0489)	SHBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20121	2001.5	8.2	74-88-4	5 ppm(28mg/m3/8H)(skin)	orl-rat 76mg/kg
9.	2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20120	2001.4	8.1	78-83-1	50 ppm (150mg/m3/8H)	orl-rat 2460mg/kg
10.	Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	126-98-7	1 ppm (3mg/m3/8H)(skin)	orl-rat 120mg/kg
11.	Methyl acrylate	(1075)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	96-33-3	10 ppm(35mg/m3/8H)(skin)	orl-rat 277mg/kg
12.	Methyl methacrylate	(0404)	MKBW5137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20041	2001.6	8.1	80-62-6	100 ppm (410mg/m3/8H)	orl-rat 7872mg/kg
13.	Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20220	2001.3	8.2	98-95-3	1 ppm (5mg/m3/8H)(skin)	orl-rat 780mg/kg
14.	2-Nitropropane	(0461)	14002JX	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	79-46-9	10 ppm (35mg/m3/8H)	orl-rat 720mg/kg
15.	Pentachloroethane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.6	8.3	76-01-7	N/A	N/A
16.	1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20225	2001.8	8.2	76-13-1	1000 ppm (7600mg/m3/8H)	orl-rat 43g/kg
17.	Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	N/A	orl-rat 916mg/kg
18.	Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	N/A	orl-rat 848mg/kg
19.	cis-1,2-Dichloroethene	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	156-59-2	N/A	N/A
20.	trans-1,2-Dichloroethene	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	156-60-5	N/A	orl-rat 1235mg/kg
21.	Methylene chloride	35171	101623	0.05	5.00	40002.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-09-2	500 ppm	orl-rat 820mg/kg
22.	1,1-Dichloroethene	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.7	20.4	75-35-4	1 ppm (4mg/m3/8H)	orl-rat 200mg/kg
23.	Bromoform	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)	orl-rat 933mg/kg
24.	Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	56-23-5	2 ppm (12.6mg/m3/8H)	orl-rat 2350mg/kg
25.	Chloroform	95321	020724	0.10	10.00	20024.0	2000	NA	NA	0.042	NA	NA	2001.9	20.5	67-66-3	50 ppm (240mg/m3) (CL)	orl-rat 908mg/kg
26.	Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-95-3	N/A	orl-rat 108mg/kg
27.	1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	100 ppm	orl-rat 725mg/kg
28.	2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	N/A	N/A
29.	Tetrachloroethene	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	2019.6	20.8	127-18-4	25 ppm (170mg/m3/8H)(final)	orl-rat 2629mg/kg
30.	1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)	orl-rat 10300mg/kg
31.	1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40016.5	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-8	0.001 ppm	orl-rat 170mg/kg
32.	1,2-Dibromoethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.7	22.9	106-93-4	20 ppm (8H)	orl-rat 108mg/kg
33.	1,2-Dichloroethane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	107-06-2	50 ppm (8H)	orl-rat 670mg/kg
34.	1,2-Dichloropropane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2002.0	22.9	78-87-5	75 ppm (350mg/m3/8H)	orl-rat 1947mg/kg
35.	1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	N/A	unr-mus 3600mg/kg
36.	1,1-Dichloropropene	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	29.7	563-58-6	N/A	N/A
37.	cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10061-01-5	N/A	N/A
38.	trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.6	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-02-6	N/A	N/A
39.	Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	29.7	87-68-3	0.02 ppm (0.24mg/m3/8H)	orl-rat 82mg/kg
40.	1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.1	22.9	630-20-6	N/A	orl-rat 670mg/kg
41.	1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	79-34-5	5 ppm (35mg/m3/8H)(skin)	orl-rat 800mg/kg
42.	1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (45mg/m3/8H)(skin)	orl-rat 836mg/kg
43.	Trichloroethene	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	50 ppm (270mg/m3/8H)	orl-mus 2402mg/kg
44.	1,2,3-Trichloropropane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	96-18-4	10 ppm (60mg/m3/8H)	orl-rat 149.6mg/kg
45.	Benzene	35162	050823	0.05	5.00	40005.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	orl-rat 4894mg/kg
46.	Bromobenzene	35162	050823	0.05	5.00	40006.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-86-1	N/A	orl-rat 2699mg/kg
47.	n-Butyl benzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	104-51-8	N/A	N/A
48.	Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8H)	orl-rat >2000mg/kg
49.	p-Isopropyl toluene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	99-87-6	N/A	orl-rat 4750mg/kg
50.	Naphthalene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8H)	orl-rat 490mg/kg
51.	Styrene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-42-5	100 ppm	orl-rat 5000mg/kg
52.	Toluene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-88-3	200 ppm	orl-rat 5000mg/kg
53.	1,2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-61-6	N/A	ipr-mus 1390mg/kg
54.	1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	120-82-1	5 ppm (CL) (40mg/m3)	orl-rat 756mg/kg
55.	1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.6	2000	NA	NA	0.017	NA	NA	1999.6	23.0	95-63-6	N/A	orl-rat 5g/kg
56.	1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-67-8	N/A	orl-rat 5000mg/kg
57.	m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-38-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg
58.	tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	98-06-6	N/A	N/A
59.	sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.8	22.9	135-98-8	N/A	orl-rat 2240mg/kg
60.	Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-90-7	75 ppm (350mg/m3/8H)	orl-rat 2290mg/kg
61.	2-Chlorotoluene	35163	101923	0.05	5.00	40000.3	2000	NA	NA	0.017	NA	NA	1999.5	22.9	95-49-8	50 ppm (250mg/m3/8H)	orl-rat 3900mg/kg
62.	4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	N/A	orl-rat 2100mg/kg
63.	1,2-Dichlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-50-1	50 ppm (300mg/m3) (CL)	orl-rat 500mg/kg
64.	1,3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	23.0	541-73-1	N/A	ipr-mus 1062mg/kg
65.	1,4-Dichlorobenzene	35163	101923	0.05	5.00	40001.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	106-46-7	75 ppm (450mg/m3/8H)	orl-rat 500mg/kg
66.	Isopropylbenzene	35163	101923	0.05	5.00	40000.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	98-82-8	50 ppm (245mg/m3/8H)	orl-rat 1400mg/kg
67.	n-Propylbenzene	35163	101923	0.05	5.00	40003.4	2000	NA	NA	0.017	NA	NA	1999.7	23.0	103-65-1	N/A	orl-rat 8040mg/kg
68.	o-Xylene	35163	101923	0.05	5.00	40040.8	2000	NA	NA	0.017	NA	NA	2001.5	23.0	95-47-6	100 ppm (435mg/m3/8H)	ipr-mus 1364mg/kg
69.	p-Xylene	35163	101923	0.05	5.00	40000.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	106-42-3	100 ppm (435mg/m3/8H)	orl-rat 5g/kg

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Run 16, "P95317 L021624 (2000µg/mL in MeOH)"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 8:56:46 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments
GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3



Peak #	Name	FID RT (min.)
1	Ether	9.97
2	1,1,2-Trichloro-1,2,3-trifluoroethane	10.33
3	1,1-Dichloroethene	11.10
4	Acetonitrile	12.00
5	Iodomethane	12.31
6	Allyl chloride	12.56
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethene	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.74
11	cis-1,2-Dichloroethene	18.00
12	Methacrylonitrile/Methyl acrylate/Chloroform	18.49
13	Isobutanol/1,1,1-Trichloroethane	18.91
14	1,1-Dichloropropene	19.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.48
17	Trichloroethene	23.86
18	1,2-Dichloropropane	24.26
19	Methyl methacrylate	24.62
20	Bromodichloromethane	25.13
21	Dibromomethane/2-Nitropropane	25.46
22	cis-1,3-Dichloropropene	27.02
23	Toluene	28.09
24	Ethyl methacrylate/trans-1,3-Dichloropropene	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethene/1,3-Dichloropropane	30.34
27	Dibromochloromethane	31.16
28	1,2-Dibromoethane	31.84
29	Chlorobenzene	33.26
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.40
31	m-Xylene/p-Xylene	33.85
32	o-Xylene	35.33
33	Styrene	35.50
34	Isopropylbenzene/Bromoform	35.48
35	cis-1,4-Dichloro-2-butene	36.80
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,3-Trichloropropane	37.77
38	n-Propylbenzene	37.92
39	trans-1,4-Dichloro-2-butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.50
42	2-Chlorotoluene	38.62
43	4-Chlorotoluene	38.77
44	tert-Butylbenzene	39.76
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropyltoluene	41.02
49	1,3-Dichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.63
51	n-Butylbenzene	42.82
52	1,2-Dichlorobenzene	43.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.58
55	1,2,4-Trichlorobenzene	49.26
56	Hexachlorobutadiene	49.72
57	Naphthalene	50.26
58	1,2,3-Trichlorobenzene	51.16

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	**1-352-323-3500**
		Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	% (optional) > 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Storage Conditions	Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

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800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 03/18/24

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https://Absolutestandards.cc

CERTIFIED WEIGHT REPORT

2 Vials

V14900-901

Part Number:	91980
Lot Number:	031525
Description:	Acrolein
Expiration Date:	041525
Recommended Storage:	Refrigerate (4 °C)
Nominal Concentration (µg/mL):	5000
NIST Test ID#:	6UTB

Solvent(s):	**Lot#**
Water	072324Q

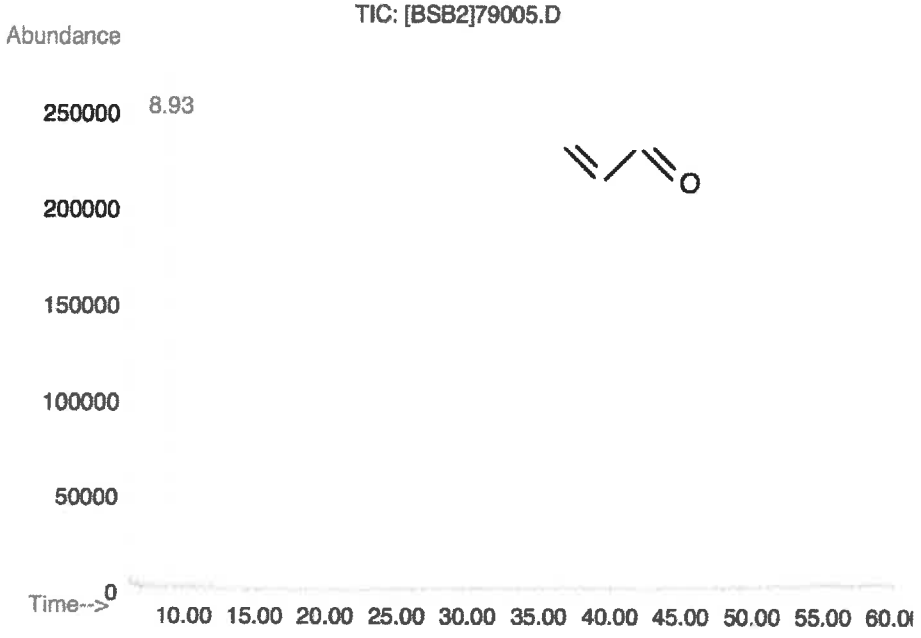
5E-05 Balance Uncertainty

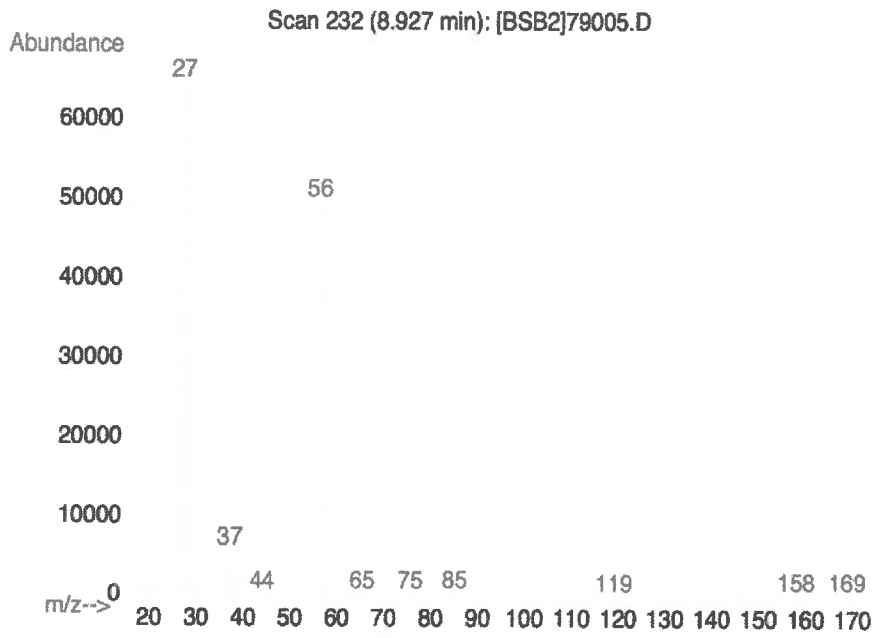
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

Justin Dippold	031525
Formulated By: Justin Dippold	DATE
Pedro Rentas	031525
Reviewed By: Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755R02H	5000	97	0.5	0.05166	0.05170	5004.1	52.5	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.). Temp. 2=200°C (Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





- **The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.**
- **Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).**
- **Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.**
- **All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.**
- **Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).**

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CERTIFIED WEIGHT REPORT

2 Vials

V14900-901

Part Number:	91980
Lot Number:	031525
Description:	Acrolein
Expiration Date:	041525
Recommended Storage:	Refrigerate (4 °C)
Nominal Concentration (µg/mL):	5000
NIST Test ID#:	6UTB

Solvent(s):	**Lot#**
Water	072324Q

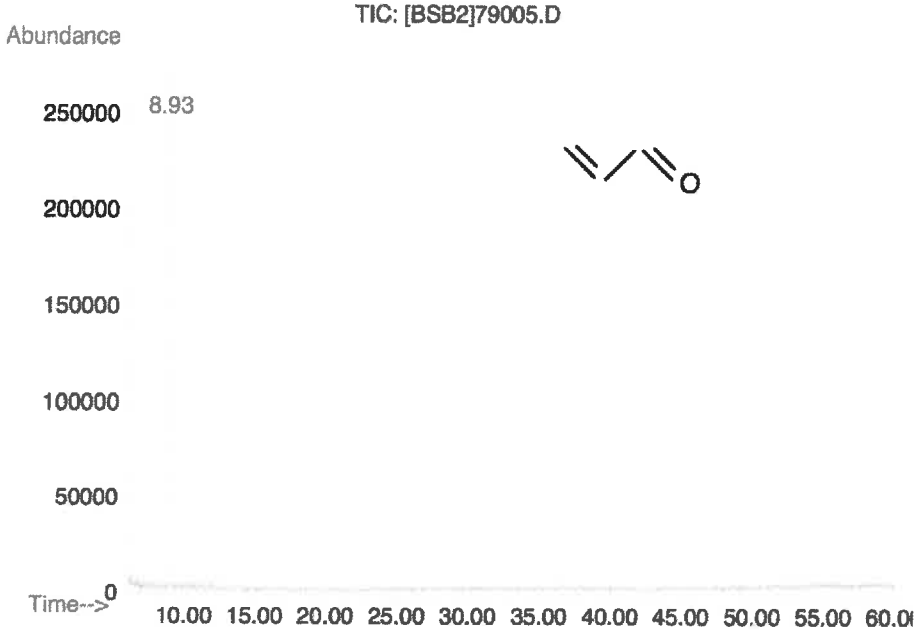
5E-05 Balance Uncertainty

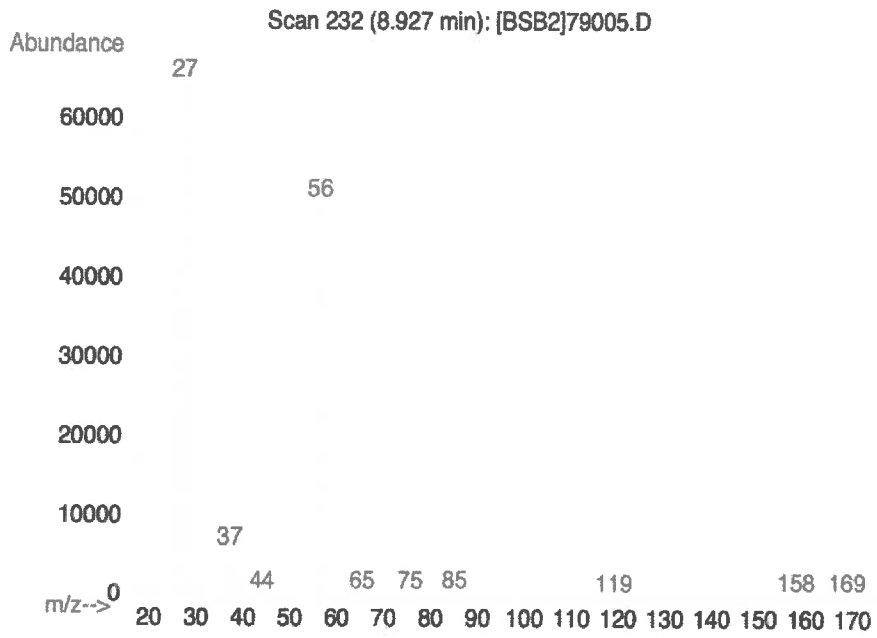
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

Justin Dippold	031525
Formulated By: Justin Dippold	DATE
Pedro Rentas	031525
Reviewed By: Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755R02H	5000	97	0.5	0.05166	0.05170	5004.1	52.5	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.). Temp. 2=200°C (Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





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CERTIFIED WEIGHT REPORT

5 vial

Part Number: 91980
Lot Number: 031725
Description: Acrolein

Solvent(s): Water **Lot#** 072324Q

V14895 to V14899

Expiration Date: 041725
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

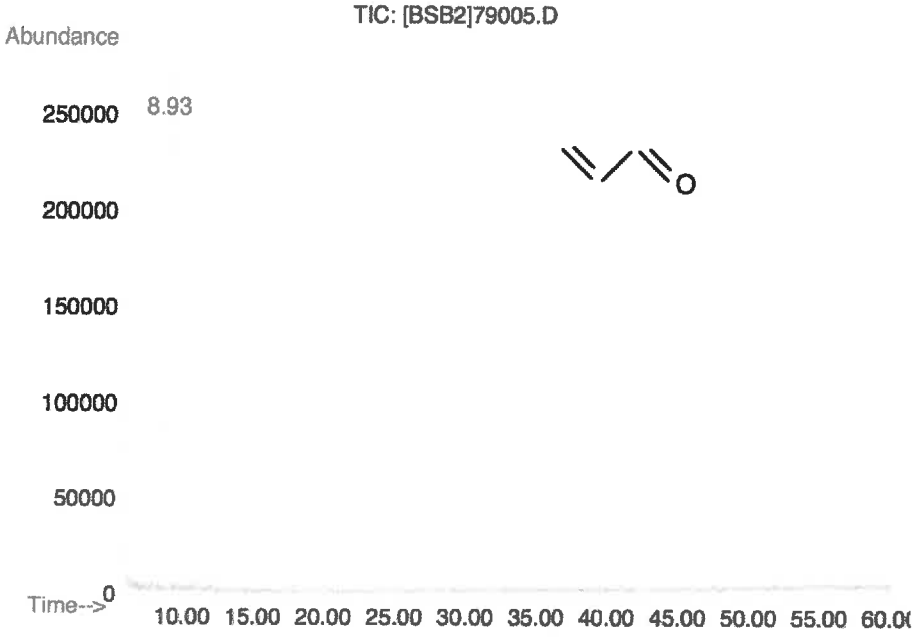
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

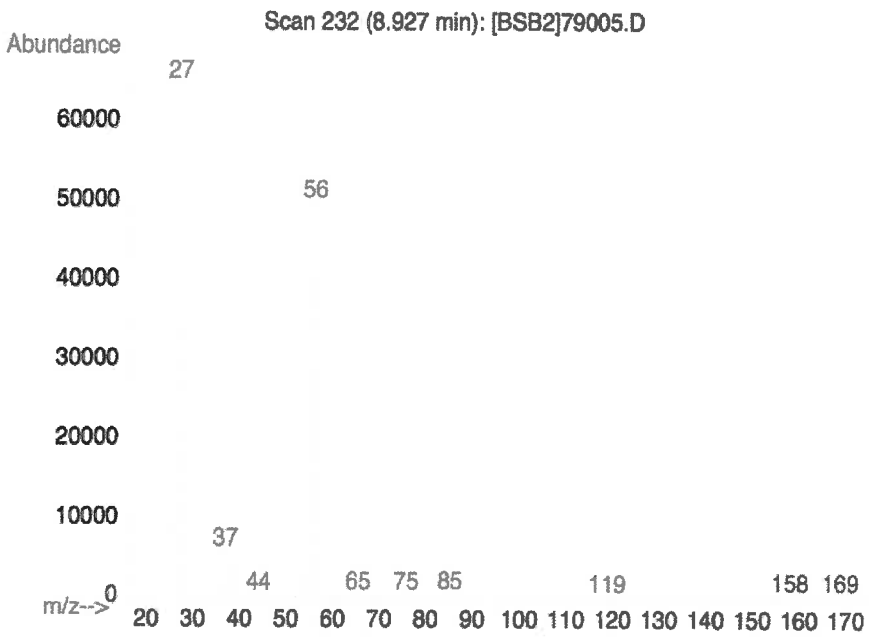
Weight(s) shown below were combined and diluted to (mL): 10.0

Formulated By: Lawrence Barry	031725 DATE
Reviewed By: Pedro L. Rentas	031725 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05170	5004.1	52.5	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





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Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN WATER**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr.	Emergency Telephone International	**1-352-323-3500**
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2025

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

P271	**Use in ventilated area**	**H315**	**Causes skin and eye irritation.**
P302,332	**If on skin, wash with soap and water**	**P280**	**Use gloves, eye protection/face sheild**
		P305,351,338	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		% (optional)
Water	CAS#: 7732-18-5	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.
Hazardous Decomposition products	Carbon oxides

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Water CAS#: 7732-18-5 TWA: 500 ppm

Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	100°C	Specific Gravity (H2O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

	NA		0°C
Vapor Density (AIR = 1)	NA	Evaporation rate (Butyl Acetate = 1)	NA

Solubility in Water — Completely miscible

Appearance and Odor — CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	NA
Conditions to avoid	NA
Materials to avoid	NA

Hazardous decomposition products - No data available

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat	NA
LC50 Inhalation - Rat	NA
LD50 Dermal - Guinea pig	NA

Causes skin irritation.
Eye irritation

Section XII. ECOLOGICAL INFORMATION

LC50	NA
EC50	NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods
Proper shipping name: Water

IATA
Not dangerous goods
Proper shipping name: Water

Section XV. REGULATORY INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Material Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

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Certified Reference Material CRM

Exp 03/18/24

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CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 031725
Description: Acrolein

Expiration Date: 041725
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

Solvent(s): Water **Lot#** 072324Q

5 vial
V14895 to V14899

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

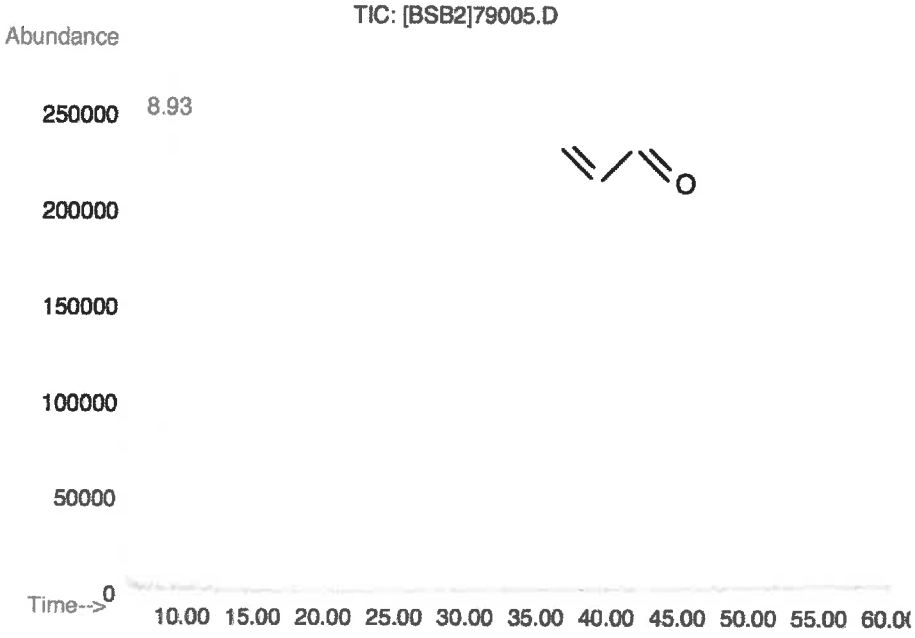
Weight(s) shown below were combined and diluted to (mL): 10.0

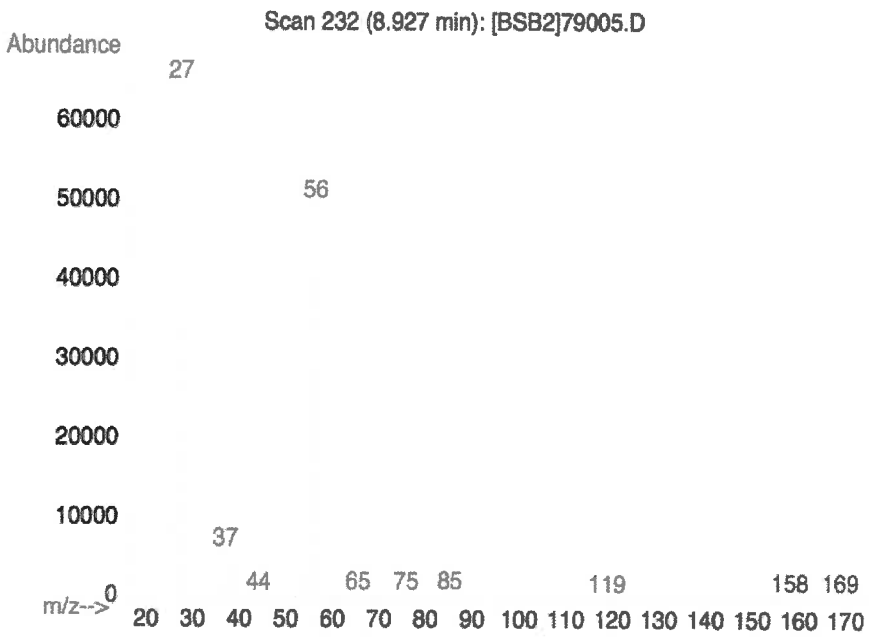
Formulated By: Lawrence Barry 031725 DATE

Reviewed By: Pedro L. Rentas 031725 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05170	5004.1	52.5	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





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Safety Data Sheet (SDS) GHS/OSHA Compliant

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Address	44 Rossotto Dr.	Emergency Telephone International	**1-352-323-3500**
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2025

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

P271	**Use in ventilated area**	**H315**	**Causes skin and eye irritation.**
P302,332	**If on skin, wash with soap and water**	**P280**	**Use gloves, eye protection/face sheild**
		P305,351,338	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		% (optional)
Water	CAS#: 7732-18-5	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.
Hazardous Decomposition products	Carbon oxides

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Water CAS#: 7732-18-5 TWA: 500 ppm

Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
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Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	100°C	Specific Gravity (H2O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

	NA		0°C
Vapor Density (AIR = 1)	NA	Evaporation rate (Butyl Acetate = 1)	NA

Solubility in Water — Completely miscible

Appearance and Odor — CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	NA
Conditions to avoid	NA
Materials to avoid	NA

Hazardous decomposition products - No data available

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat	NA
LC50 Inhalation - Rat	NA
LD50 Dermal - Guinea pig	NA

Causes skin irritation.
Eye irritation

Section XII. ECOLOGICAL INFORMATION

LC50	NA
EC50	NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods
Proper shipping name: Water

IATA
Not dangerous goods
Proper shipping name: Water

Section XV. REGULATORY INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

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CERTIFIED WEIGHT REPORT

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Part Number:	91980
Lot Number:	031725
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Expiration Date:	041725
Recommended Storage:	Refrigerate (4 °C)
Nominal Concentration (µg/mL):	5000
NIST Test ID#:	6UTB

Solvent(s): **Lot#**
Water 072324Q

V14895 to V14899

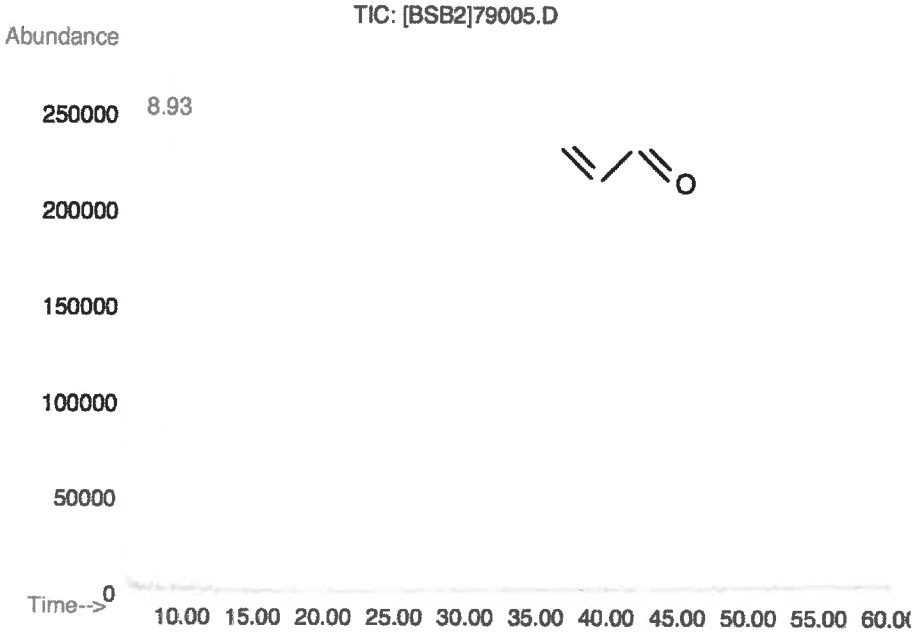
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

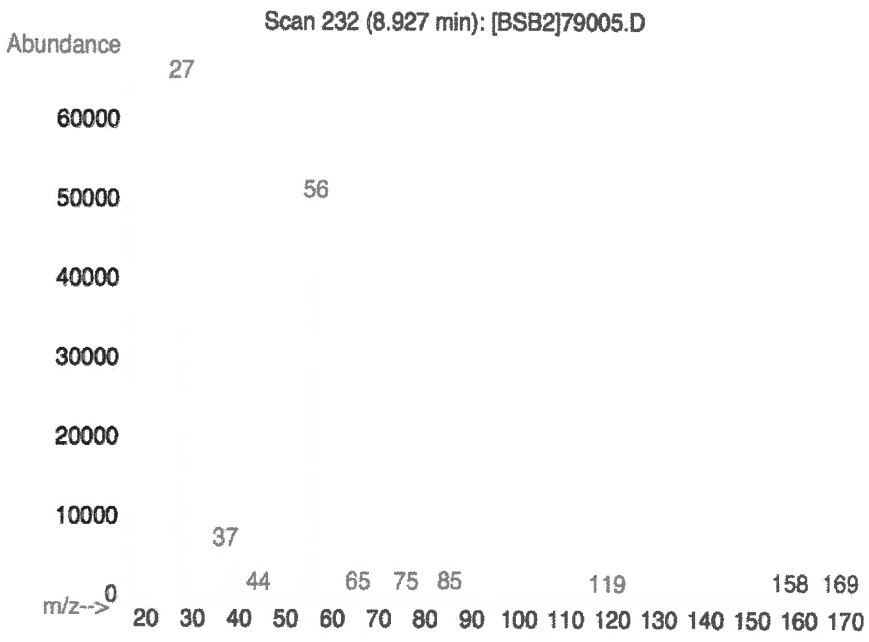
Formulated By: Lawrence Barry 031725 DATE

Reviewed By: Pedro L. Rentas 031725 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05170	5004.1	52.5	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





- **The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.**
- **Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).**
- **Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.**
- **All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.**
- **Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).**

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN WATER**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr.	Emergency Telephone International	**1-352-323-3500**
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2025

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

P271	**Use in ventilated area**	**H315**	**Causes skin and eye irritation.**
P302,332	**If on skin, wash with soap and water**	**P280**	**Use gloves, eye protection/face sheild**
		P305,351,338	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		% (optional)
Water	CAS#: 7732-18-5	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.
Hazardous Decomposition products	Carbon oxides

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Water CAS#: 7732-18-5 TWA: 500 ppm

Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	100°C	Specific Gravity (H2O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

	NA		0°C
Vapor Density (AIR = 1)	NA	Evaporation rate (Butyl Acetate = 1)	NA

Solubility in Water — Completely miscible

Appearance and Odor — CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	NA
Conditions to avoid	NA
Materials to avoid	NA

Hazardous decomposition products - No data available

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat	NA
LC50 Inhalation - Rat	NA
LD50 Dermal - Guinea pig	NA

Causes skin irritation.
Eye irritation

Section XII. ECOLOGICAL INFORMATION

LC50	NA
EC50	NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods
Proper shipping name: Water

IATA
Not dangerous goods
Proper shipping name: Water

Section XV. REGULATORY INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Material Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN WATER**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr.	Emergency Telephone International	**1-352-323-3500**
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2025

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

P271	**Use in ventilated area**	**H315**	**Causes skin and eye irritation.**
P302,332	**If on skin, wash with soap and water**	**P280**	**Use gloves, eye protection/face sheild**
		P305,351,338	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		% (optional)
Water	CAS#: 7732-18-5	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.
Hazardous Decomposition products	Carbon oxides

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Water CAS#: 7732-18-5 TWA: 500 ppm

Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	100°C	Specific Gravity (H2O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

	NA		0°C
Vapor Density (AIR = 1)	NA	Evaporation rate (Butyl Acetate = 1)	NA

Solubility in Water — Completely miscible

Appearance and Odor — CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	NA
Conditions to avoid	NA
Materials to avoid	NA

Hazardous decomposition products - No data available

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat	NA
LC50 Inhalation - Rat	NA
LD50 Dermal - Guinea pig	NA

Causes skin irritation.
Eye irritation

Section XII. ECOLOGICAL INFORMATION

LC50	NA
EC50	NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods
Proper shipping name: Water

IATA
Not dangerous goods
Proper shipping name: Water

Section XV. REGULATORY INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Material Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredite
AR-1539 Certificate Number
https://Absolutestandards.co

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 111722
Description: 2-Chloroethyl vinyl ether

Solvent(s): Methanol **Lot#** EB679-US

Expiration Date: 111725
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

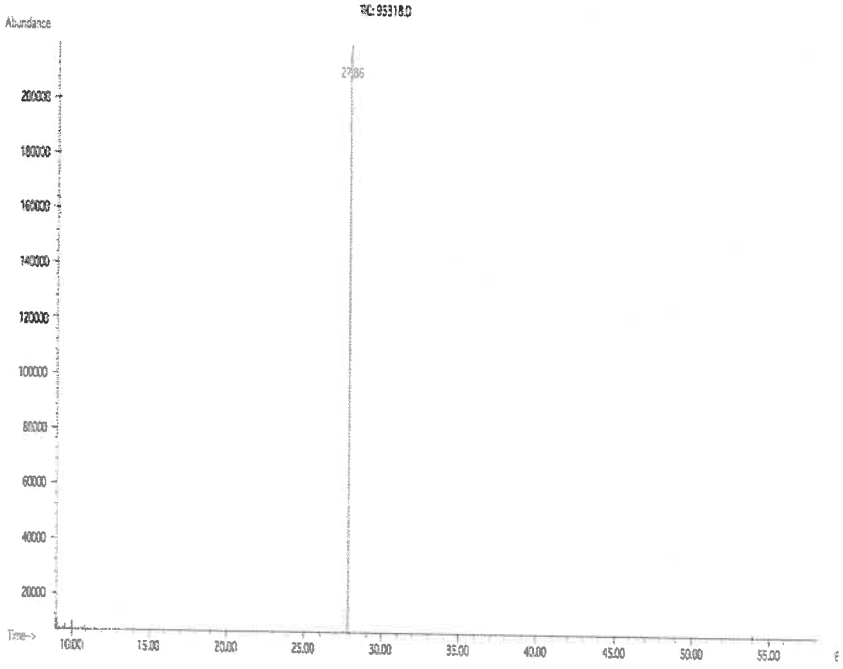
Weight(s) shown below were combined and diluted to (mL): 50.0

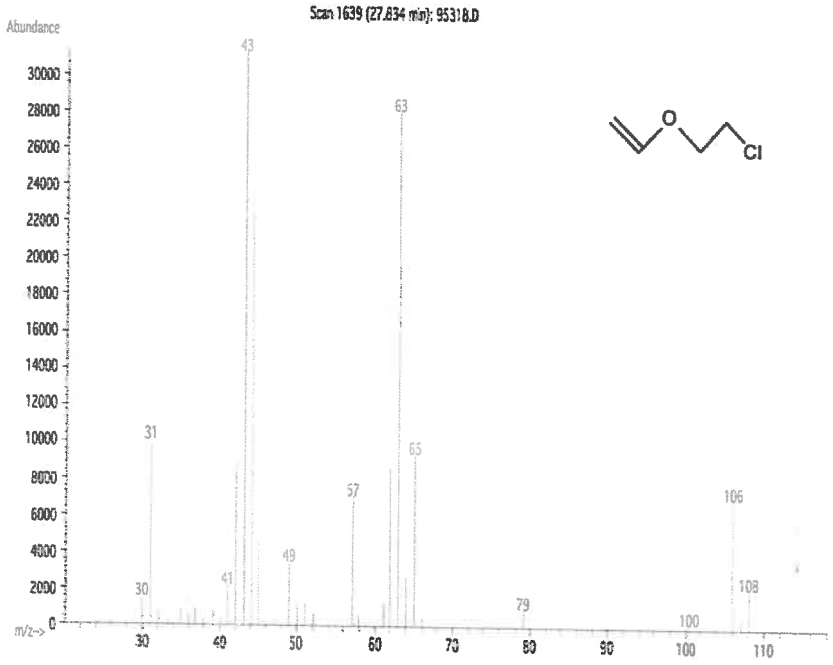
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Formulated By:	Eli Aliaga	111722 DATE
Reviewed By:	Pedro L. Rentas	111722 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50541	0.50551	10001.9	40.5	110-75-8	N/A	orl-rat 250mg/kg

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
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Absolute Standards, Inc.
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Certified Reference Material CRM

Rec 12/6/24
20 vial
V14630 to
V14649

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

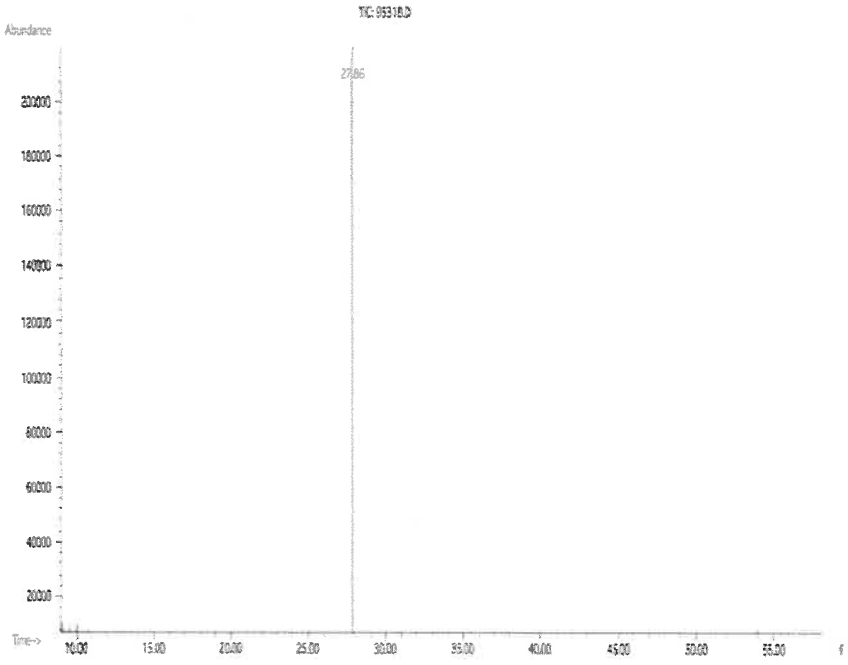
Solvent(s): Methanol **Lot#** EJ143-US

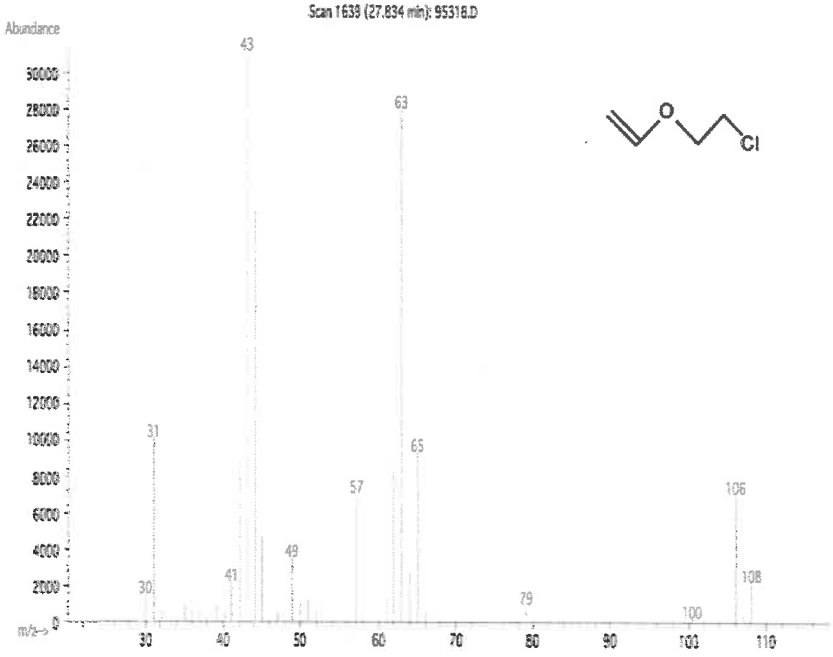
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

Prashant Chauhan		120524
Formulated By:	Prashant Chauhan	DATE
Pedro Rentas		120524
Reviewed By:	Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.





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Certified Reference Material CRM

Exp 03/18/24

ANAB ISO 17034 Accredite
AR-1539 Certificate Numbe
https://Absolutestandards.co

CERTIFIED WEIGHT REPORT

5 vial

Part Number: 91980
Lot Number: 031725
Description: Acrolein

Solvent(s): Water **Lot#** 072324Q

V14895 to V14899

Expiration Date: 041725
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

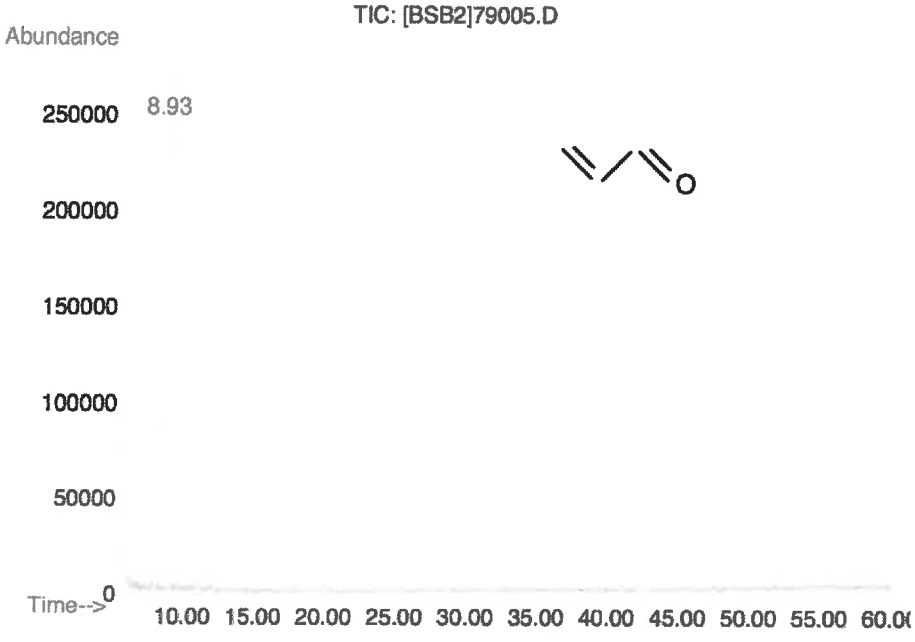
Weight(s) shown below were combined and diluted to (mL): 10.0

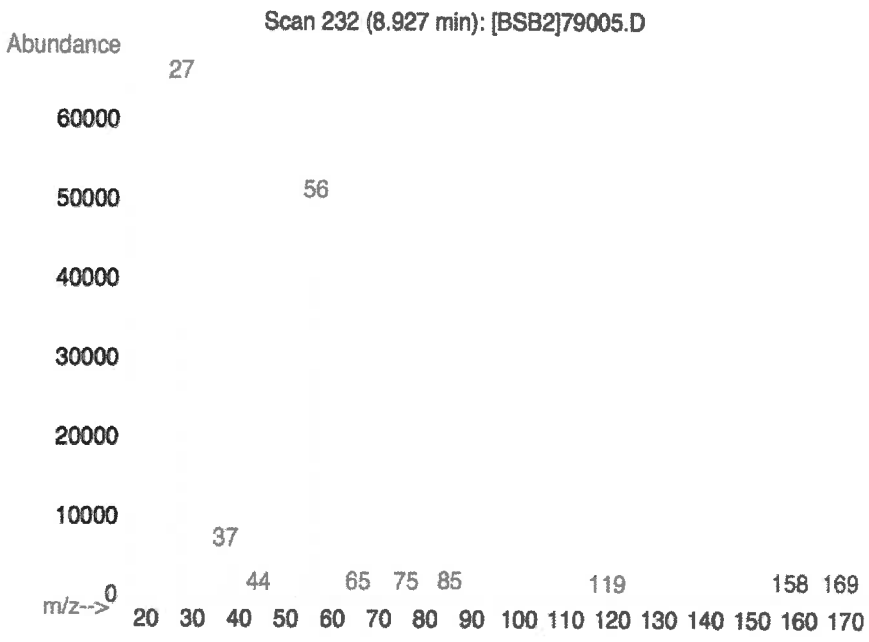
Formulated By: Lawrence Barry 031725 DATE

Reviewed By: Pedro L. Rentas 031725 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05170	5004.1	52.5	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





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Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 09/16/24 2 Vials

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AR-1539 Certificate Numb
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CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 091424
Description: Acrolein

Expiration Date: 101424
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

Weight(s) shown below were combined and diluted to (mL): 10.0

Solvent(s): **Lot#**
Water 072324Q

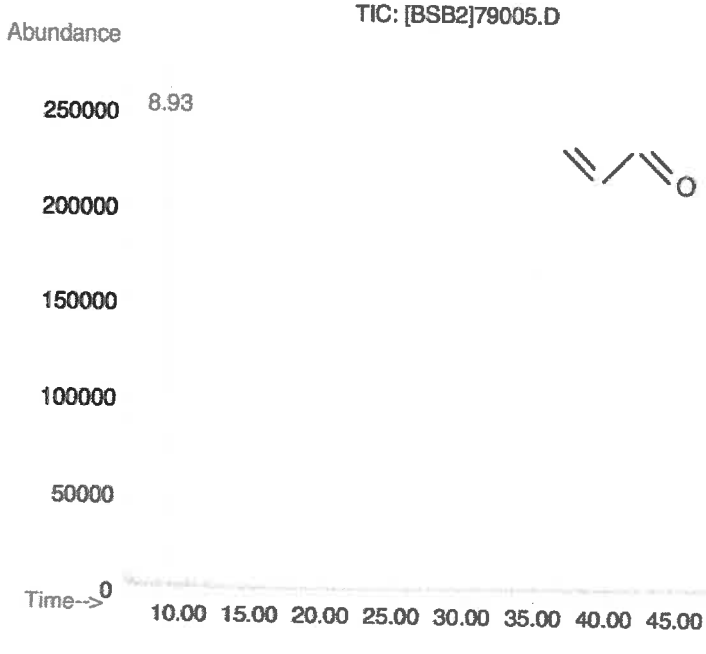
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

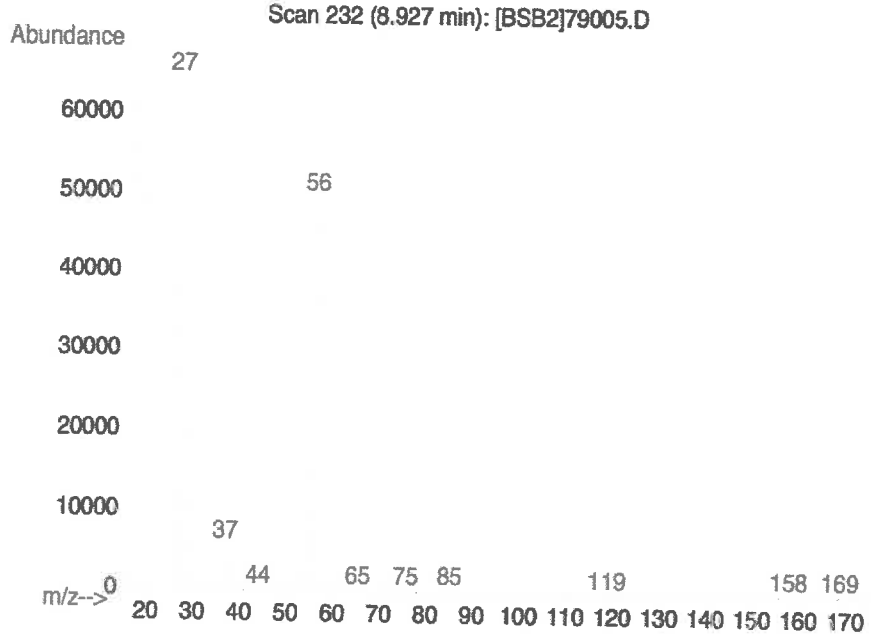
Justin Dippold 091424
Formulated By: Justin Dippold DATE

Pedro Rentas 091424
Reviewed By: Pedro L. Rentas DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05175	5008.9	52.5	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





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Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 09/16/24 2 Vials

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 091424
Description: Acrolein

Expiration Date: 101424
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

Solvent(s): **Lot#**
Water 072324Q

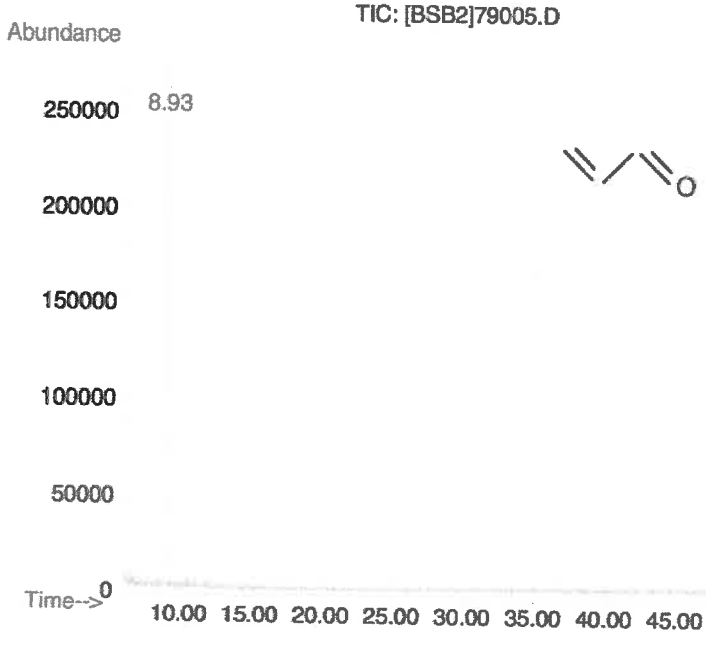
Weight(s) shown below were combined and diluted to (mL): 10.0 | 5E-05 Balance Uncertainty | 0.001 Flask Uncertainty

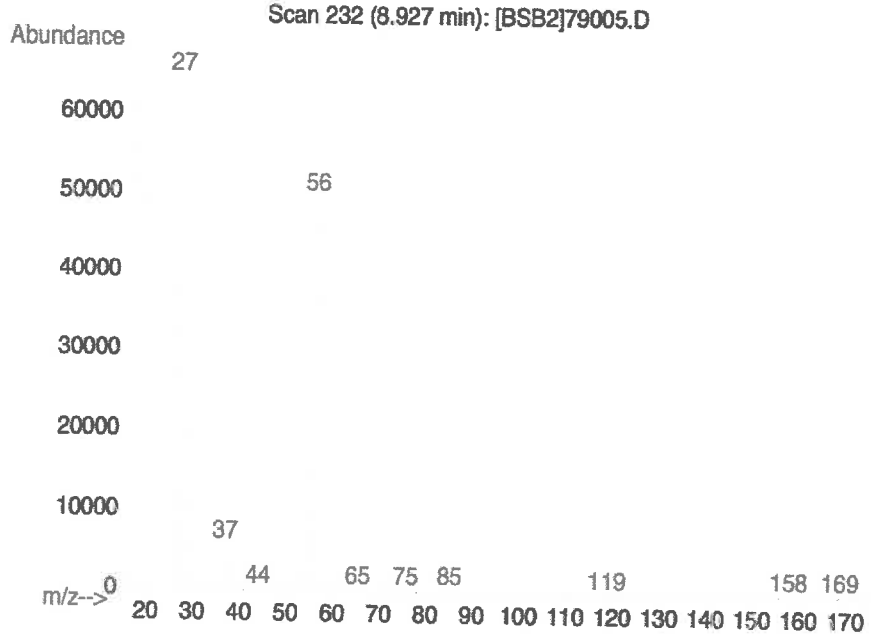
Justin Dippold 091424
Formulated By: Justin Dippold DATE

Pedro Rentas 091424
Reviewed By: Pedro L. Rentas DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05175	5008.9	52.5	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
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- 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 METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International Date Prepared/Revised	**1-352-323-3500** January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

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Certified Reference Material CRM

Rec 12/6/24
20 vial
V14630 to
V14649

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

Solvent(s): Methanol **Lot#** EJ143-US

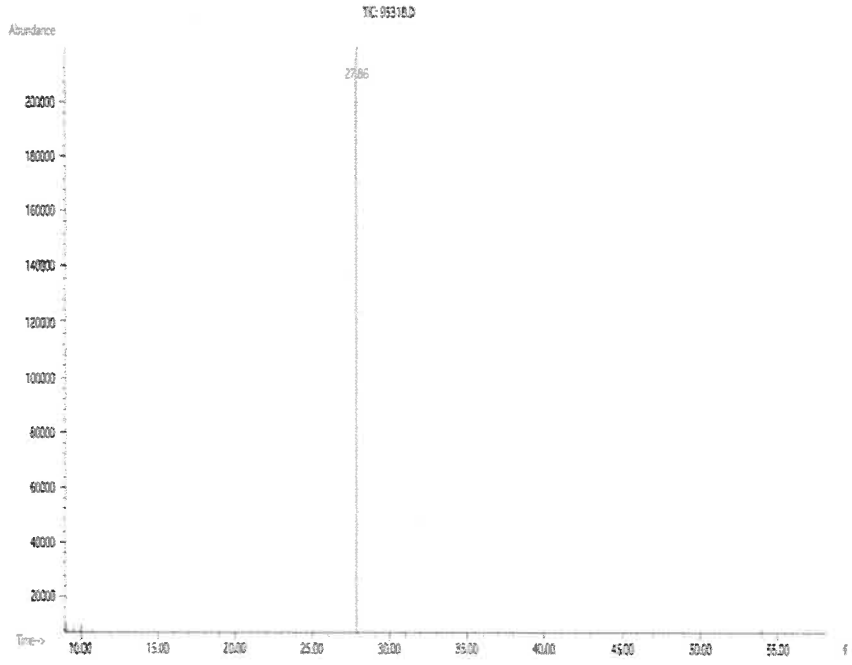
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

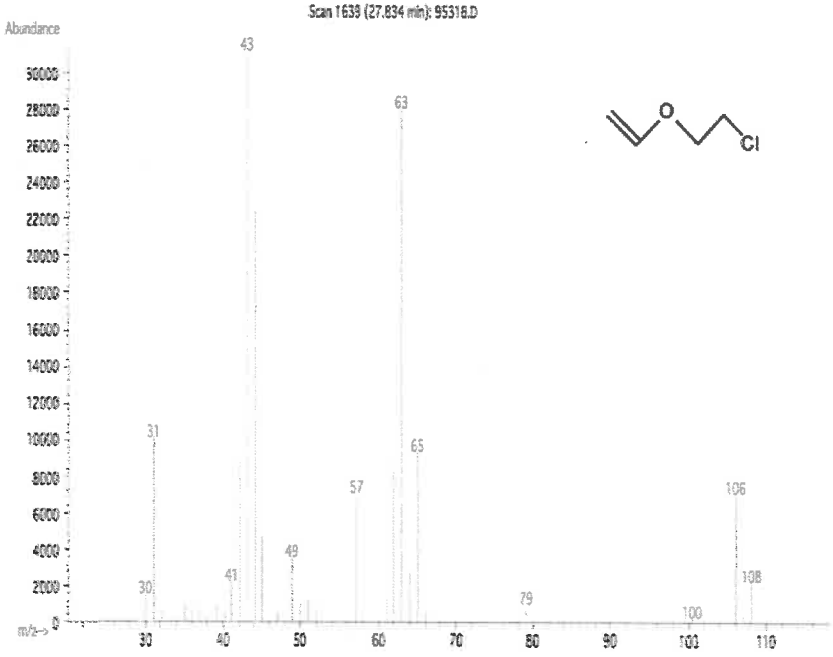
Weight(s) shown below were combined and diluted to (mL): 50.0

Prashant Chauhan	120524	
Formulated By:	Prashant Chauhan	DATE
Pedro Rentas	120524	
Reviewed By:	Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.





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Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International Date Prepared/Revised	**1-352-323-3500** January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
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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
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Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

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Part Number: 95318
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Description: 2-Chloroethyl vinyl ether

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Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

Solvent(s): Methanol **Lot#** EJ143-US

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Weight(s) shown below were combined and diluted to (mL): 50.0

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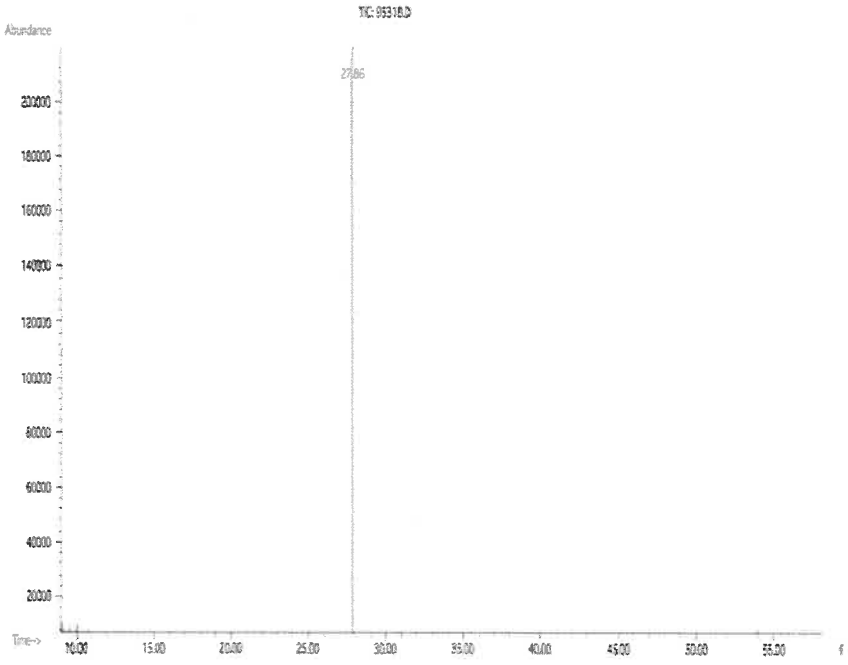
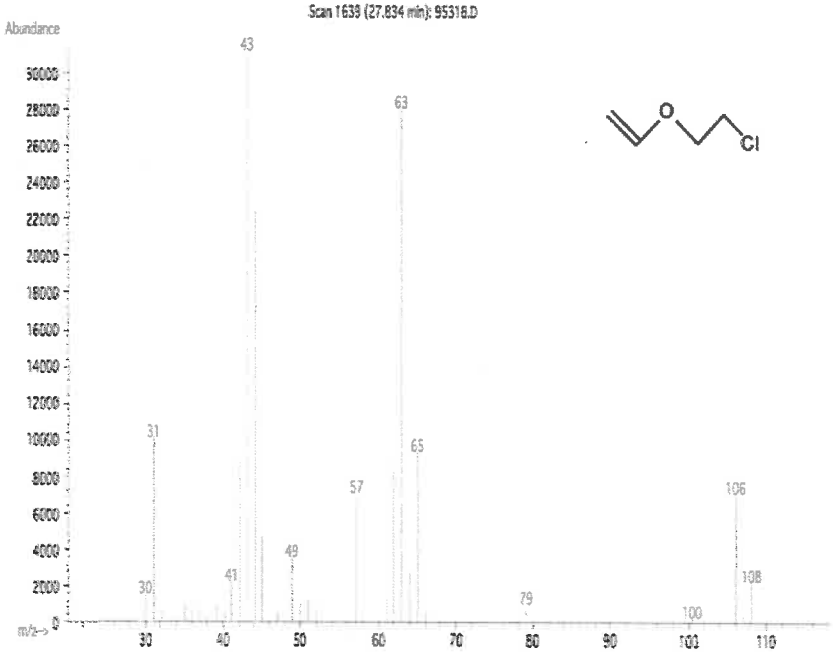
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

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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UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

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UN number: 1230 Class: 3 Packing group: II
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SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

Rec 12/6/24
20 vial
V14630 to
V14649

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

Solvent(s): Methanol **Lot#** EJ143-US

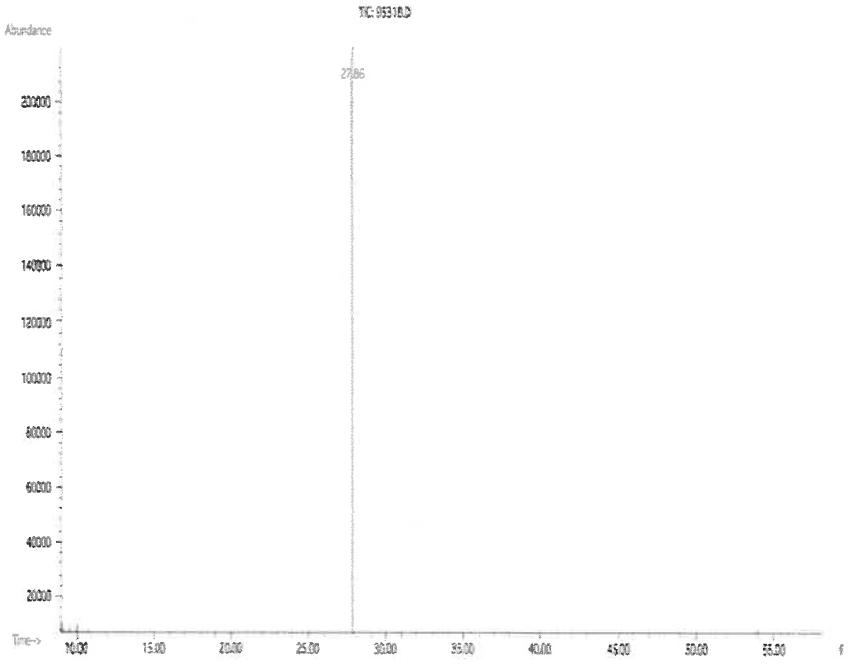
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

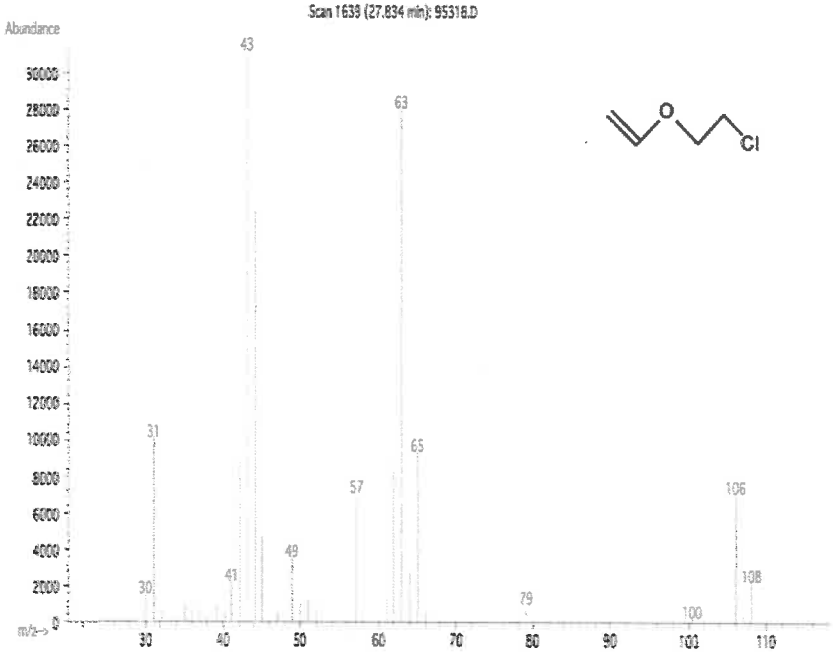
Weight(s) shown below were combined and diluted to (mL): 50.0

Prashant Chauhan	120524	
Formulated By:	Prashant Chauhan	DATE
Pedro Rentas	120524	
Reviewed By:	Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Absolute Standards Inc.
PO Box 5585
Hamden, CT 06518-0585
Phone: 203-281-2917
FAX: 203-281-2922

Safety Data Sheet (SDS) GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	**1-800-535-5053**
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International Date Prepared/Revised	**1-352-323-3500** January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	**Highly Flammable Liquid and Vapor**	**H301, 311, 331**	**Toxic if swallowed, skin contact, inhaled**
H370	**Cause damage to organs**	**H351**	**Suspected of causing cancer**
P271	**Use in ventilated area**	**P280**	**Use gloves, eye protection/face sheild**
P302,332	**If on skin, wash with soap and water**	**P305,351,338**	**If in eyes, remove contacts, rinse with water**

Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

Section X. STABILITY AND REACTIVITY

Chemical stability — Stable under recommended storage conditions.
Possibility of hazardous reactions — Vapours may form explosive mixture with air.
Conditions to avoid — Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid — Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50	15,400 mg/l - 96 h
EC50	24,500.00 mg/l - 48 h
EC100	10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

4 v

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110 Benner Circle
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Fax: (814)353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30470 **Lot No.:** A0191703

Description : tert-Butanol Standard

tert-Butanol Std 50,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2025 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	tert-Butanol (TBA)	50,122.0 µg/mL	+/- 293.4753 µg/mL	Gravimetric
	CAS # 75-65-0 (Lot 101619K21F-1)		+/- 1,073.6797 µg/mL	Unstressed
	Purity 99%		+/- 1,104.8612 µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

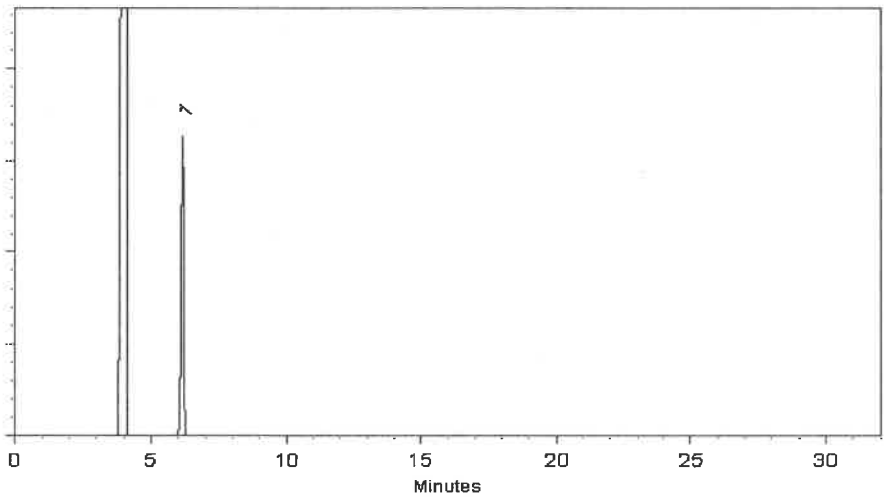
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Alicia Leathers - Operation Technician I

Date Mixed: 15-Nov-2022 **Balance:** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 17-Nov-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

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110 Benner Circle
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Tel: 1-814-353-1300
Fax: 1-814-353-1309

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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

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30067 **Lot No.:** A0191805

Description : 4-Bromofluorobenzene Standard

4-Bromofluorobenzene Standard 2,500µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Bromo-4-fluorobenzene (BFB)	460-00-4	184975	99%	2,483.9 µg/mL	+/- 139.5488

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

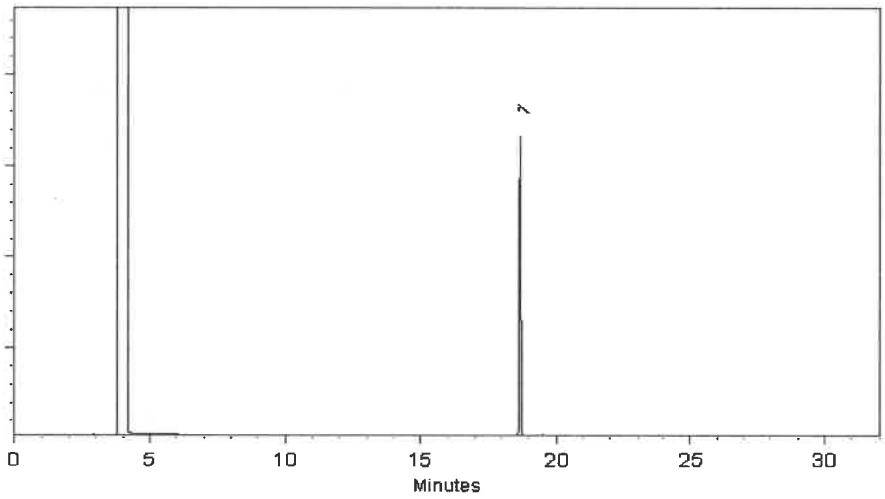
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Alicia Leathers - Operation Technician I

Date Mixed: 17-Nov-2022 **Balance Serial #** B251644995

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 21-Nov-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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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.)

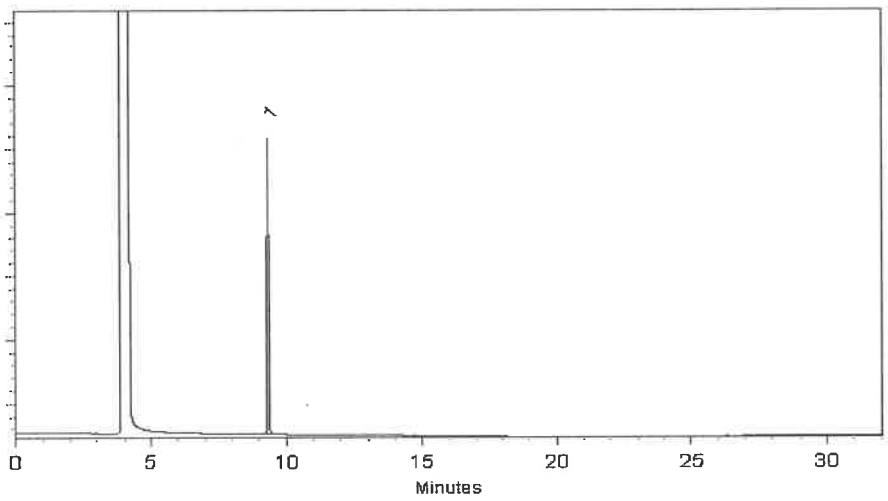
Inj. Temp:
200°C

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.
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chromatographic plus

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0193071

Description : Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	00008541	99%	2,018.0 µg/mL	+/- 113.3890

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

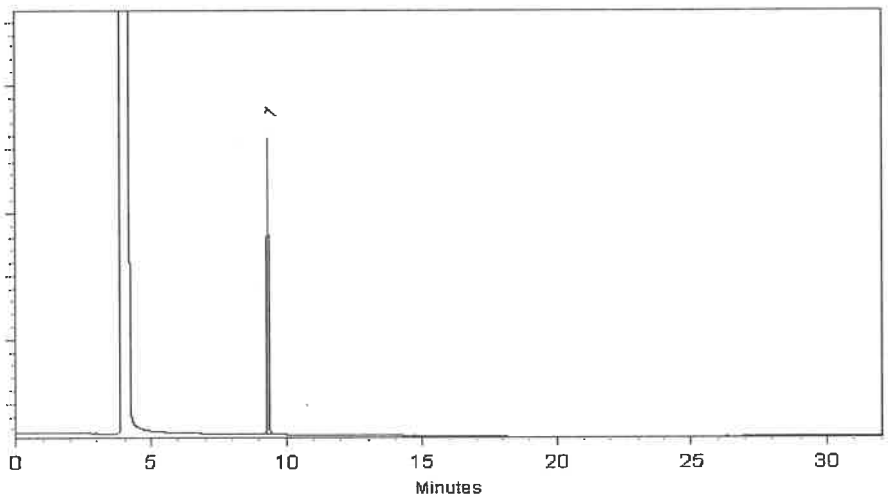
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2022 **Balance Serial #** B707717271

Christie Mills - Operations Tech II - ARM QC

Date Passed: 03-Jan-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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Certificate #3222.01

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.)

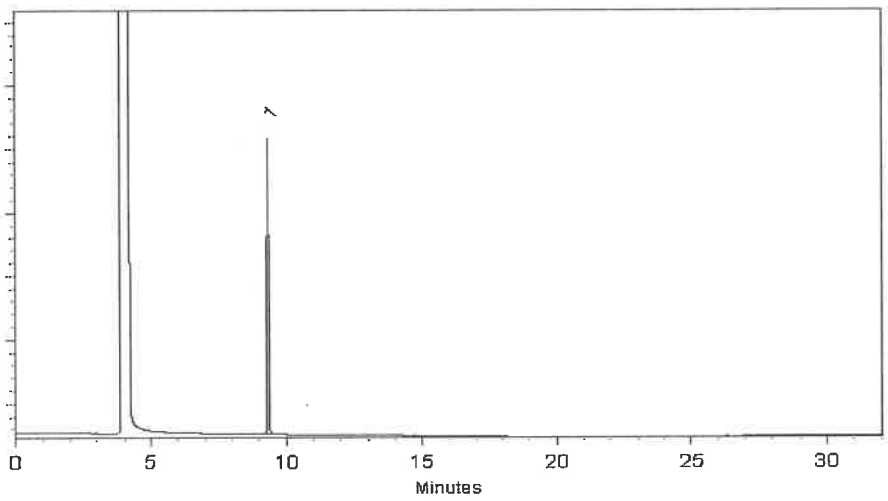
Inj. Temp:
200°C

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:

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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:

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ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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.)

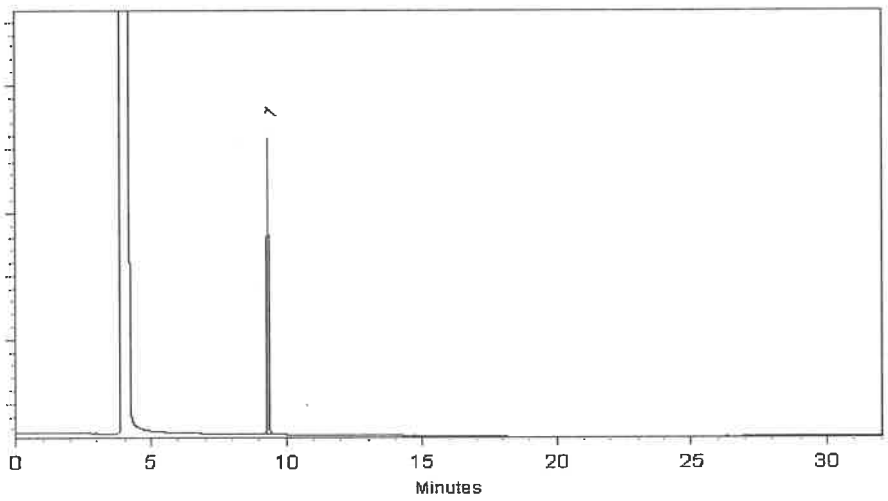
Inj. Temp:
200°C

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:

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- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
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Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

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ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0193887

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 : April 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBP8774	99%	5,006.5 µg/mL	+/- 173.0015
2	2-Butanone (MEK)	78-93-3	SHBN9536	99%	5,008.5 µg/mL	+/- 173.0706
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP4724	99%	5,000.3 µg/mL	+/- 172.7884
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,001.7 µg/mL	+/- 172.8345

* 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.)

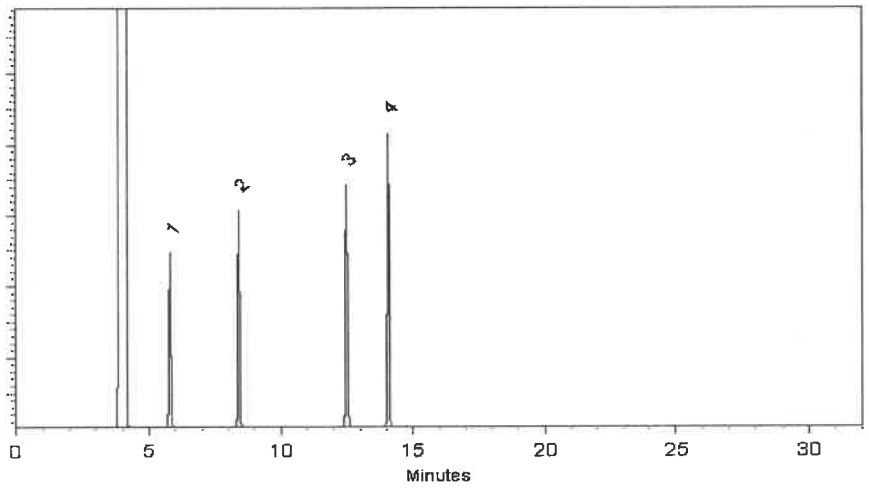
Inj. Temp:
200°C

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.

Josh McCloskey - Operations Technician I

Date Mixed: 24-Jan-2023 **Balance Serial #** B707717271

Christie Mills - Operations Tech II - ARM QC

Date Passed: 27-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:

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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:

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0193887

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 : April 30, 2026 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBP8774	99%	5,006.5 µg/mL	+/- 173.0015
2	2-Butanone (MEK)	78-93-3	SHBN9536	99%	5,008.5 µg/mL	+/- 173.0706
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP4724	99%	5,000.3 µg/mL	+/- 172.7884
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,001.7 µg/mL	+/- 172.8345

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

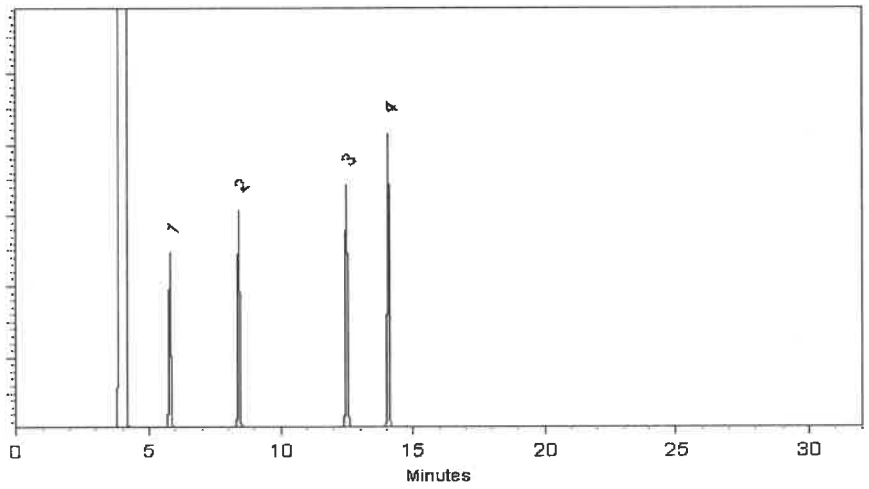
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



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Josh McCloskey - Operations Technician I

Date Mixed: 24-Jan-2023 **Balance Serial #** B707717271

Christie Mills - Operations Tech II - ARM QC

Date Passed: 27-Jan-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

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- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

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  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

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ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 **Lot No.:** A0194279

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 : October 31, 2029 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00012554	99%	2,001.5 µg/mL	+/- 112.7231
2	Chloromethane (methyl chloride)	74-87-3	SHBK6571	99%	2,001.2 µg/mL	+/- 112.5863
3	Vinyl chloride	75-01-4	00015559	99%	2,001.4 µg/mL	+/- 112.6561
4	Bromomethane (methyl bromide)	74-83-9	101604	99%	2,006.4 µg/mL	+/- 112.8262
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,001.9 µg/mL	+/- 112.5897
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCL8411	99%	2,000.8 µg/mL	+/- 112.6473

* 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.

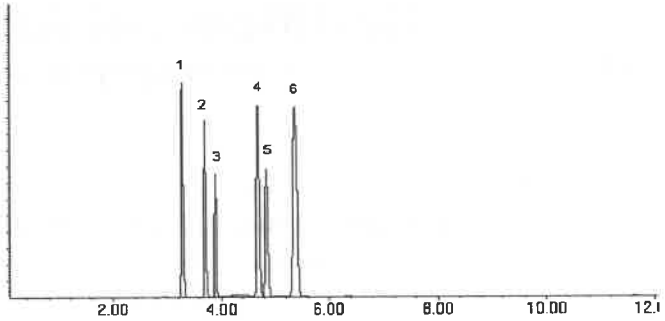
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD

Split Vent:
Split ratio 10:1

Inj. Vol
1µl



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Tom Suckar - Mix Technician

Date Mixed: 03-Feb-2023 **Balance Serial #** B707717271

Christie Mills - Operations Tech II - ARM QC

Date Passed: 07-Feb-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

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Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
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Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  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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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:

- 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%.
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Manufacturing Notes:

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Handling Notes:

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ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30489 **Lot No.:** A0205013

Description : 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 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%	2,012.7 µg/mL	+/- 69.5670
2	Vinyl acetate	108-05-4	RP231030CTH	98%	2,017.5 µg/mL	+/- 69.7338
3	Ethyl acetate	141-78-6	SHBQ9682	99%	2,020.0 µg/mL	+/- 69.8205
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,018.7 µg/mL	+/- 69.7744
5	Propyl acetate	109-60-4	KLOBM	99%	2,012.0 µg/mL	+/- 69.5439
6	Butyl acetate	123-86-4	SHBP6314	99%	2,020.0 µg/mL	+/- 69.8205
7	Amyl acetate	628-63-7	41325/1	97%	2,019.5 µg/mL	+/- 69.8046

* 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.)

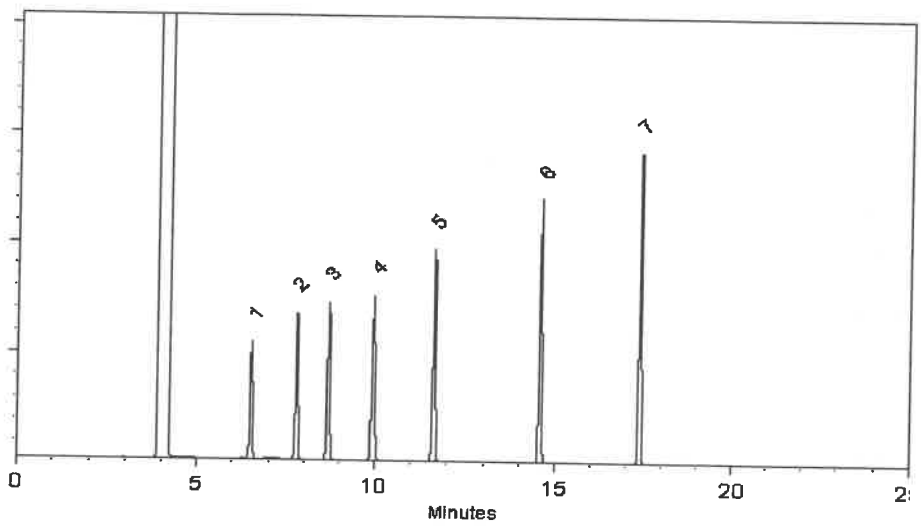
Inj. Temp:
200°C

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.

Brittany Federinko - Operations Tech I

Date Mixed: 04-Dec-2023 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 06-Dec-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

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  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

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Manufacturing Notes:

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Handling Notes:

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30489 **Lot No.:** A0209618

Description : 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBP3100	99%	2,019.3 µg/mL	+/- 69.7974
2	Vinyl acetate	108-05-4	RP231030CTH	98%	2,016.8 µg/mL	+/- 69.7112
3	Ethyl acetate	141-78-6	SHBQ9682	99%	2,010.7 µg/mL	+/- 69.4979
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,016.0 µg/mL	+/- 69.6822
5	Propyl acetate	109-60-4	P8XLN	99%	2,008.0 µg/mL	+/- 69.4057
6	Butyl acetate	123-86-4	SHBP6314	99%	2,007.3 µg/mL	+/- 69.3826
7	Amyl acetate	628-63-7	41325/1	97%	2,004.7 µg/mL	+/- 69.2905

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

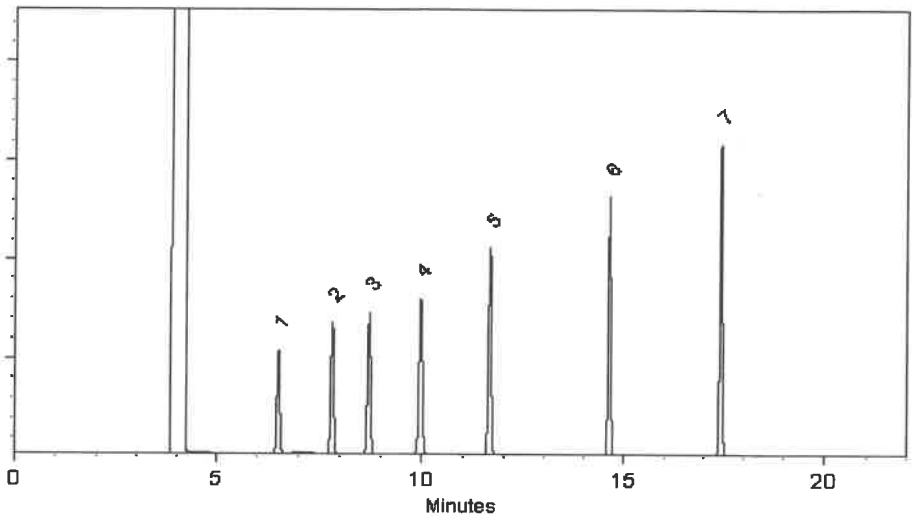
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

Date Mixed: 28-Mar-2024 **Balance Serial #** B707717271

Dillan Murphy - Operations Technician I

Date Passed: 01-Apr-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
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- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- 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:

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Handling Notes:

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ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30489 **Lot No.:** A0209618

Description : 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBP3100	99%	2,019.3 µg/mL	+/- 69.7974
2	Vinyl acetate	108-05-4	RP231030CTH	98%	2,016.8 µg/mL	+/- 69.7112
3	Ethyl acetate	141-78-6	SHBQ9682	99%	2,010.7 µg/mL	+/- 69.4979
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,016.0 µg/mL	+/- 69.6822
5	Propyl acetate	109-60-4	P8XLN	99%	2,008.0 µg/mL	+/- 69.4057
6	Butyl acetate	123-86-4	SHBP6314	99%	2,007.3 µg/mL	+/- 69.3826
7	Amyl acetate	628-63-7	41325/1	97%	2,004.7 µg/mL	+/- 69.2905

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

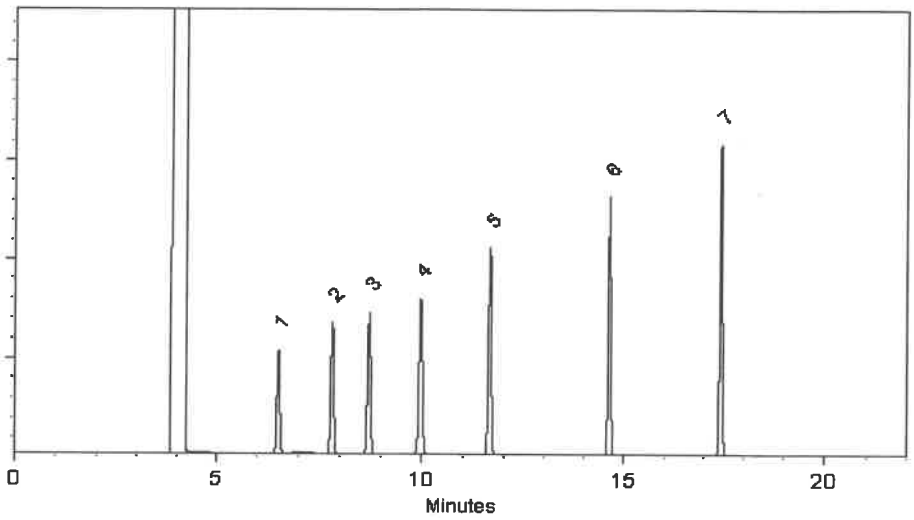
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

Date Mixed: 28-Mar-2024 **Balance Serial #** B707717271

Dillan Murphy - Operations Technician I

Date Passed: 01-Apr-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
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- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

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  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

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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. : 555581 **Lot No.:** A0210184

Description : Custom 8260 Internal Standard Mix

Custom 8260 Internal Standard Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2027 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	25,212.0 µg/mL	+/- 1,427.8857
2	1,4-Difluorobenzene	540-36-3	MKCS8657	99%	25,220.0 µg/mL	+/- 1,428.3388
3	Chlorobenzene-d5	3114-55-4	PR-31132	99%	25,116.0 µg/mL	+/- 1,422.4487
4	Pentafluorobenzene	363-72-4	MKCR9383	99%	25,180.0 µg/mL	+/- 1,426.0734

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

John Friedline - Operations Technician I

Date Mixed: 11-Apr-2024 **Balance:** 1127510105

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

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Certified Uncertainty Value Notes:

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- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

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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. : 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.)

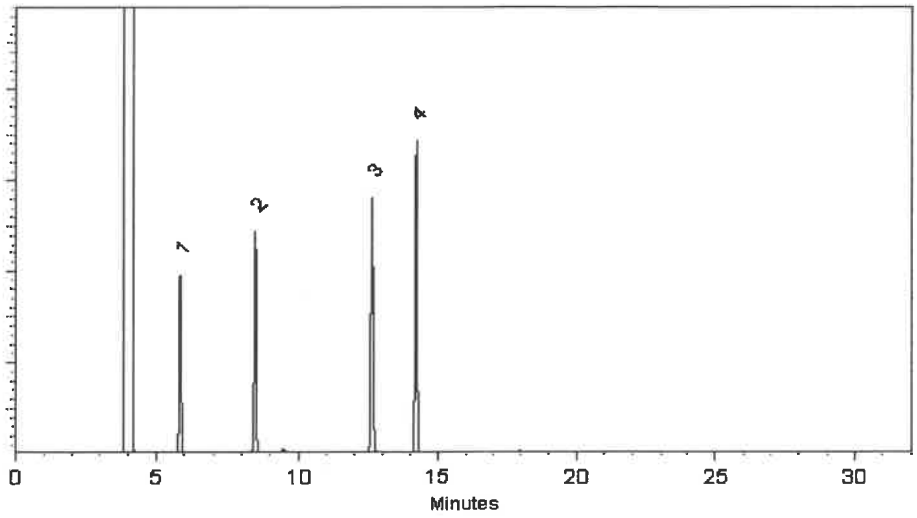
Inj. Temp:
200°C

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.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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CERTIFIED REFERENCE MATERIAL

30 V.4

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V14697-to-14726

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Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0210618

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBQ8504	99%	5,014.8 µg/mL	+/- 173.2883
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	5,012.4 µg/mL	+/- 173.2054
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	5,011.6 µg/mL	+/- 173.1777
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,013.0 µg/mL	+/- 173.2261

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

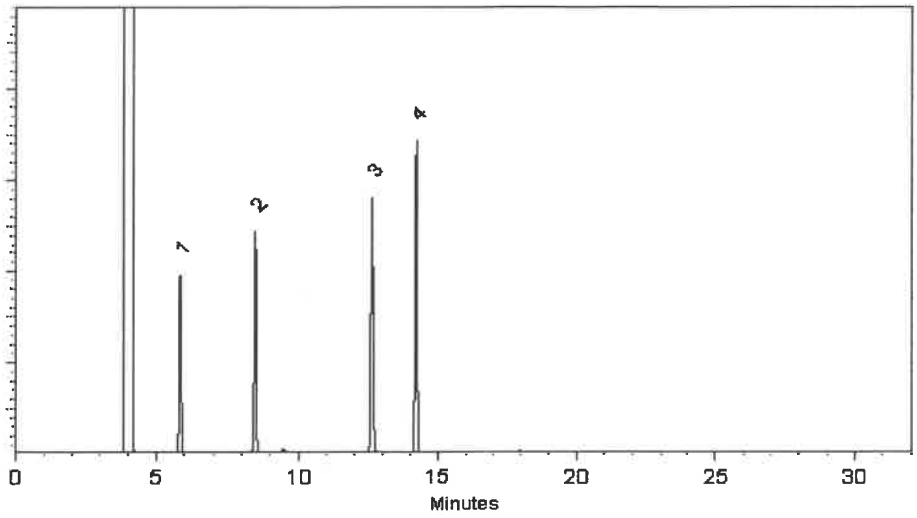
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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Certificate #3222.01

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ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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.)

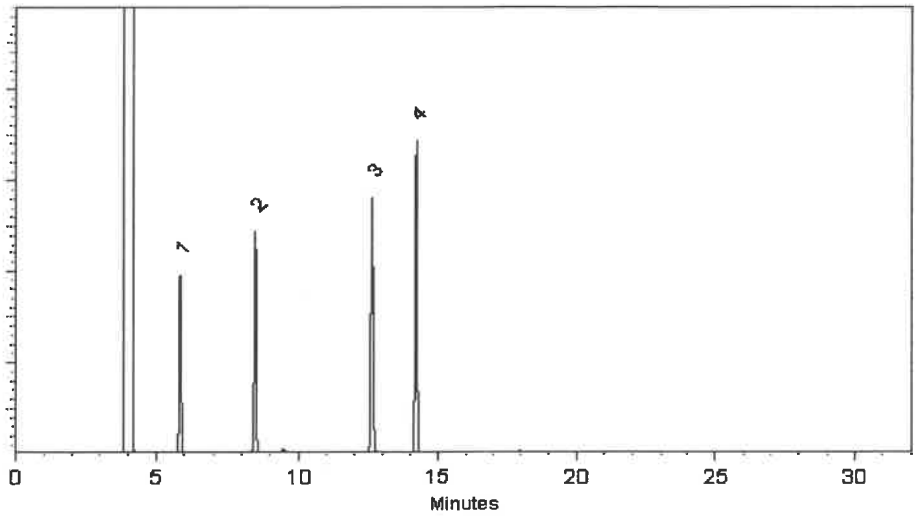
Inj. Temp:
200°C

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 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.

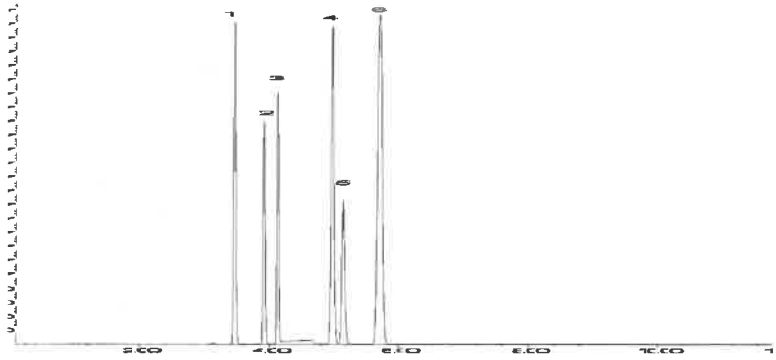
Inj. Temp:
200°C

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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CERTIFIED REFERENCE MATERIAL

30 Vial

Certificate of Analysis

chromatographic plus

V14727 to V14756

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 **Lot No.:** A0216826

Description : 502.2 Calibration Mix #1

502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2031 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00022922	99%	2,000.9 µg/mL	+/- 112.4144
2	Chloromethane (methyl chloride)	74-87-3	00022694	99%	2,000.7 µg/mL	+/- 112.3998
3	Vinyl chloride	75-01-4	00015559	99%	2,000.3 µg/mL	+/- 112.3779
4	Bromomethane (methyl bromide)	74-83-9	00017022	99%	2,001.8 µg/mL	+/- 112.4650
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,000.1 µg/mL	+/- 112.3700
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCJ8658	99%	2,000.7 µg/mL	+/- 112.3992

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:
helium-constant flow 2.0 mL/min.

Temp. Program:
40°C (hold 6 min.) to 100°C
@ 6°C/min.

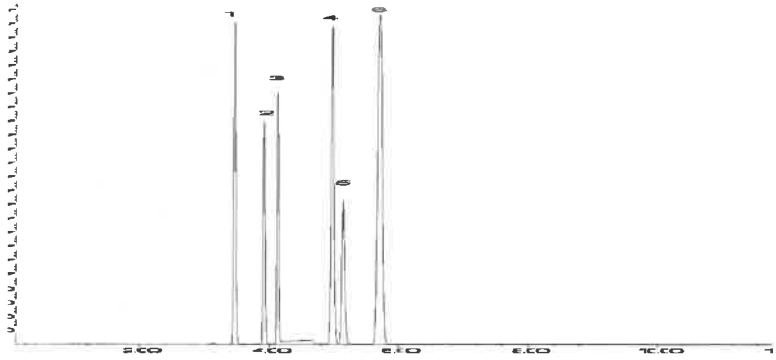
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD

Split Vent:
Split ratio 10:1

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 23-Sep-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 04-Oct-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

chromatographic plus

J14842 to 14846

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30470 **Lot No.:** A0217535

Description : tert-Butanol Standard

tert-Butanol Std 50,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	tert-Butanol (TBA)	75-65-0	SHBQ8002-1	99%	50,007.5 µg/mL	+/- 717.6137

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

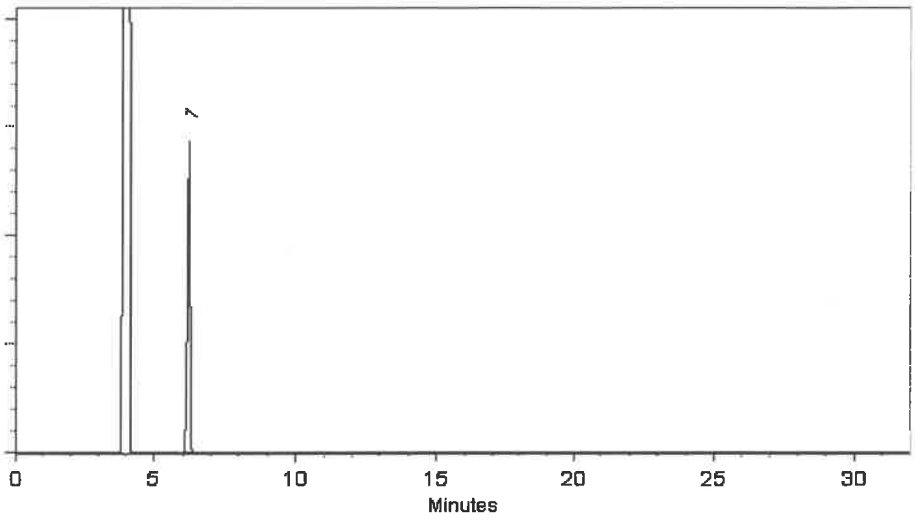
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Aaron Enyart - Operations Tech I

Date Mixed: 07-Oct-2024 **Balance Serial #** B251644995

Brittany Federinko - Operations Tech I

Date Passed: 09-Oct-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

Zoey Rec 01/08/21

CERTIFIED REFERENCE MATERIAL

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

chromatographic

V14803 - V14822

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555408-SL **Lot No.:** A0220471

Description : Custom Vinyl Acetate Standard

Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2026 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Vinyl acetate	108-05-4	RD240423RSR	99%	8,066.0 µg/mL	+/- 278.7979

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

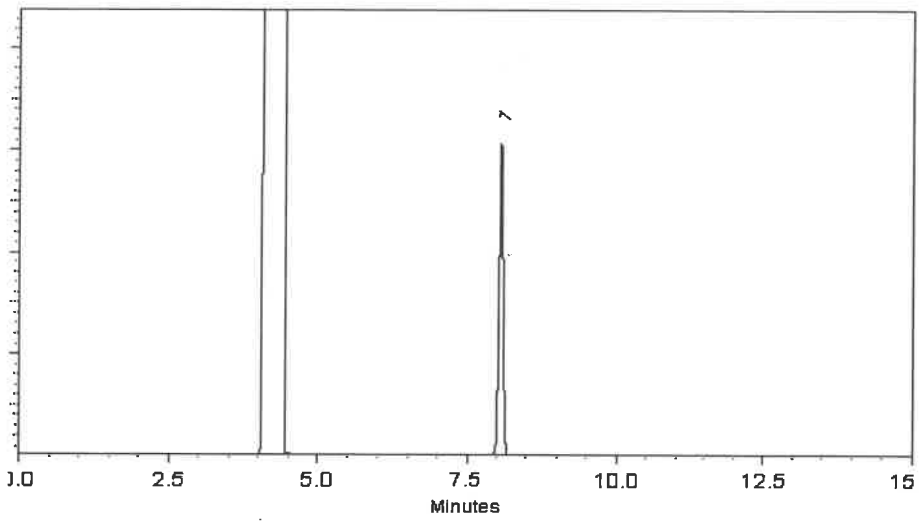
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ethan Winiarski - Operations Tech I

Date Mixed: 24-Dec-2024 **Balance Serial #** 1127510105

Dillan Murphy - Operations Technician I

Date Passed: 02-Jan-2025

REVIEWED

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Zoviy Rec 01/08/21

RESTEK

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

chromatographic

V14803 - V14822

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555408-SL **Lot No.:** A0220471

Description : Custom Vinyl Acetate Standard

Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2026 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Vinyl acetate	108-05-4	RD240423RSR	99%	8,066.0 µg/mL	+/- 278.7979

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

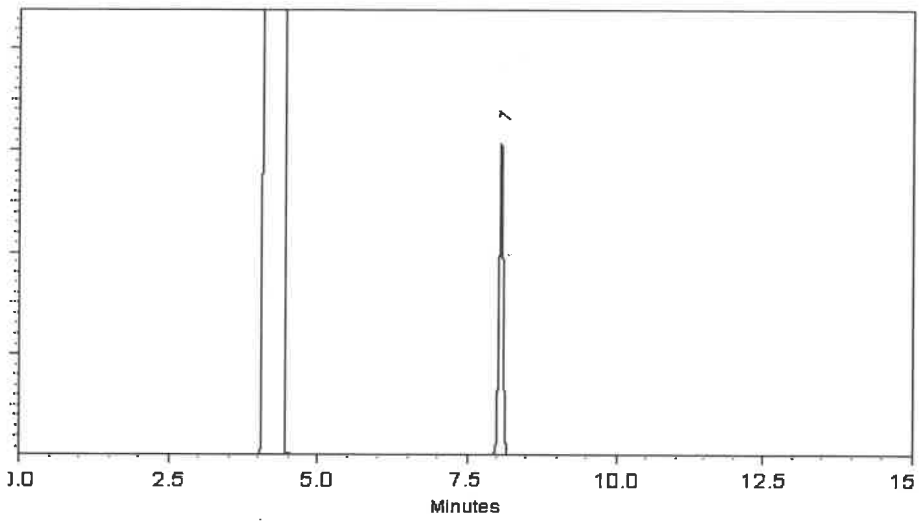
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ethan Winiarski - Operations Tech I

Date Mixed: 24-Dec-2024 **Balance Serial #** 1127510105

Dillan Murphy - Operations Technician I

Date Passed: 02-Jan-2025

REVIEWED

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

10 vial Rec 01/08/25

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Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

chromatographic

V14793 to 14802

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555408-FL **Lot No.:** A0220563

Description : Custom Vinyl Acetate Standard

Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2026 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Vinyl acetate	108-05-4	RD240423RSR	99%	8,060.0 µg/mL	+/- 278.5905

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

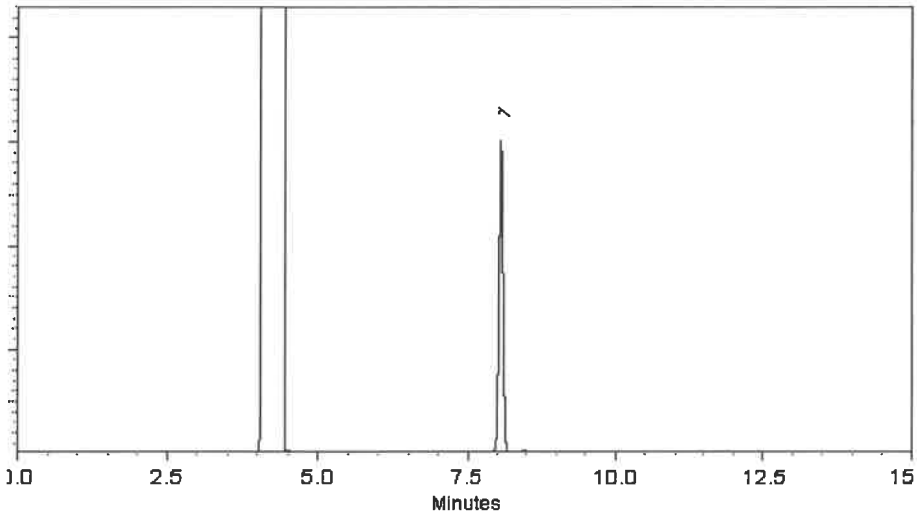
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckal - Mix Technician

Date Mixed: 30-Dec-2024 **Balance Serial #** B345965662

Dillan Murphy - Operations Technician I

Date Passed: 02-Jan-2025

REVIEWED

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredite
AR-1539 Certificate Number
https://Absolutestandards.co

CERTIFIED WEIGHT REPORT

Part Number: 70046
Lot Number: 070122
Description: Bromochloromethane

Solvent: Methanol **Lot#** EC592-US

Expiration Date: 070127
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 1000
NIST Test ID#: 6UTB

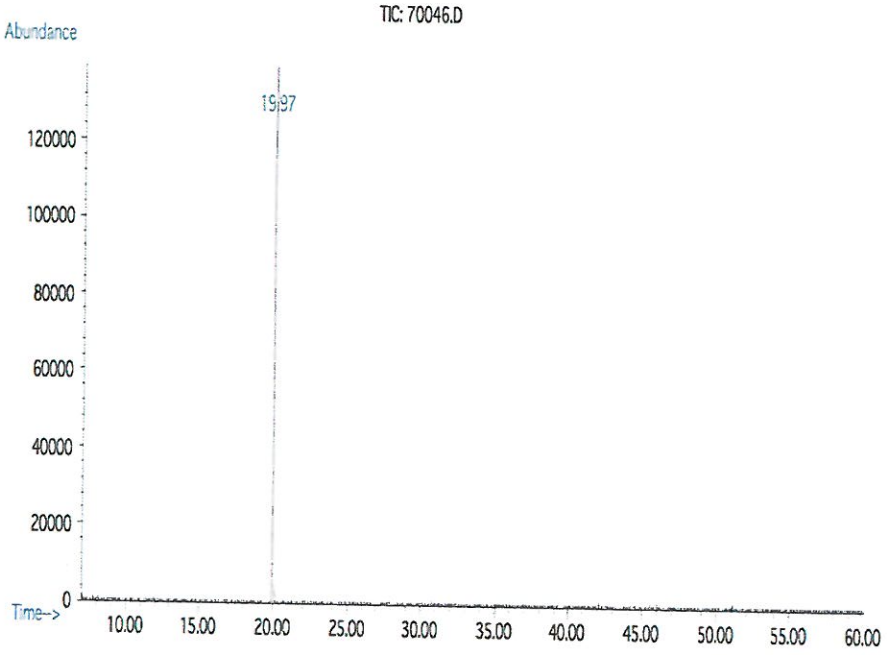
Weight(s) shown below were combined and diluted to (mL): 25.0

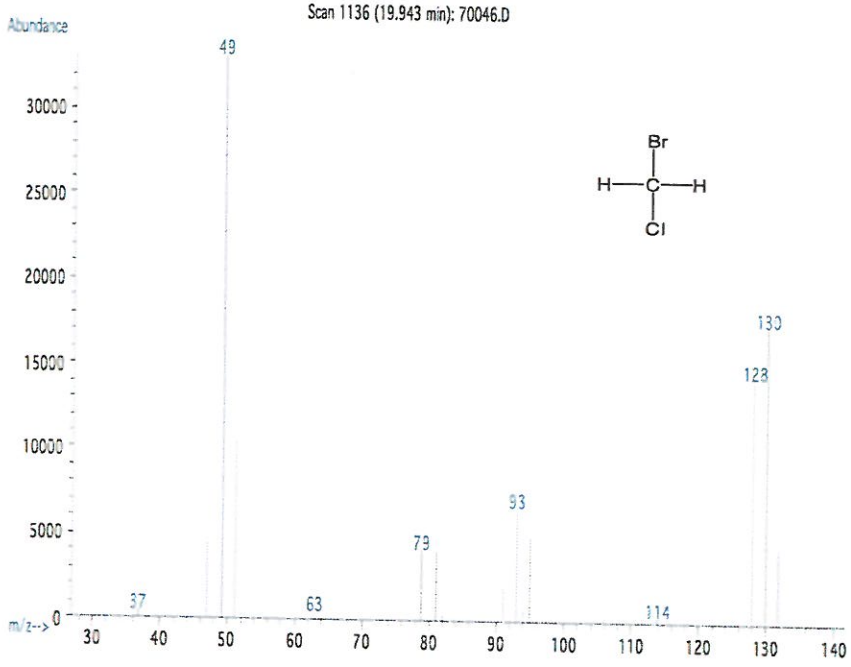
5E-05 Balance Uncertainty
0.0002 Flask Uncertainty

Formulated By:	Gabriel Helland	070122 DATE
Reviewed By:	Pedro L. Rentas	070122 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity (%)	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Bromochloromethane	46	AY01	1000	99	0.2	0.02530	0.02540	1004.1	5.7	74-97-5	200 ppm (1050mg/m3/8H)	orl-rat 5000mg/kg

Method GC6MSD-1.M: Column : (60m X 0.25mm X 1.5 µm) Temp 1 = 35°C (10min.), Temp 2 = 200°C (8.75 min.), Rate = 4°C/min., Injector B= 200°C, Detector B = 220°C. Analyst: Candice Warren





- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

avantor™ | J.T.Baker®

Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.2
Titrable Base (µeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis - Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

James T Ethier
Jamie Ethier
Vice President Global Quality

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

avantor™ | J.T.Baker®

V14883
V14884

Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH_3OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.2
Titrable Base (µeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

James T Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

SHIPPING DOCUMENTS

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

ALLIANCE PROJECT NO.
QUOTE NO. Q1697
COC Number 2045985

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Jacobs
ADDRESS: 412 Mt Kemble Ave Suite 100
CITY Morristown NJ (TA) STATE: NJ ZIP: 07960
ATTENTION: John Yntema John.Yntema@Jacobs.com
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: STC PTC
PROJECT NO.: D3806822 LOCATION: Princeton Junction
PROJECT MANAGER: Mary Murphy
e-mail: Mary.Murphy@Jacobs.com
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: Mary Murphy PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) Rush TAT (2 day) 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 ☐ NYS ASP A ☐ NYS ASP B
- ☐ Other
- ☐ EDD FORMAT

ANALYSIS

1: Site Spec. VOCs (8260D-Low)
2: 1,4 Dioxane (8270E-SIM)
3: Total TS Metals (6020B)
4: Dissolved Iron (6020B)
5: Alkalinity (SM2320B)
6: TDS (SM2540C)
7: Anions (4056)
8:
9:

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9
								A/E	E	E/B	A/E	E	E	E		
1.	MW-19B-[illegible]-040125	GW		✓	4/1/25	1215	9	✓	✓	✓	✓	✓	✓	✓		
2.	IW-01-55-040125	GW		✓	4/1/25	1230	9	✓	✓	✓	✓	✓	✓	✓		
3.	IW-02-55-040125	GW		✓	4/1/25	1505	9	✓	✓	✓	✓	✓	✓	✓		
4.	IW-02-55-040125-FD	GW		✓	4/1/25	1510	9	✓	✓	✓	✓	✓	✓	✓		
5.	IW-03-55-040125	GW		✓	4/1/25	1530	9	✓	✓	✓	✓	✓	✓	✓		
6.	TB-01-040125	DI		✓	4/1/25	1550	2	✓								
7.																
8.																
9.																
10.																

COMMENTS

← Specify Preservatives
A-HCl D-NaOH
B-HN03 E-ICE
C-H2SO4 F-OTHER

pH 1.6 / Dis pH 1.0
pH lot # BDA0441

Dis. Samples preserved in Lab @ 12:25 on 4/2/25 and hold for 18 hrs once will be released 4/3/25

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1.	4/1/25 1630	1. 1630 4-1-25
2.		2.
3.	4-1-25 1817	3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 2.3+3.2 Adj
Comments: See work order for list of site specific VOCs
Labels on sample bottles switched accidentally, bottles labeled diss iron are total metals + total metals are diss iron
PO # 1480643111
Temp 2.3°C Adjusted Factor +1) IR Gun #1

Page 1 of 2

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete ☐ YES ☐ NO

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Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

ALLIANCE PROJECT NO. Q1697
QUOTE NO.
COC Number 2045983

CLIENT INFORMATION (REPORT TO BE SENT TO:)

COMPANY: Jacobs
ADDRESS: 412 Mt Kemble Ave Suite 100
CITY Morristown STATE: NJ ZIP: 07960
ATTENTION: John Yurtante John.Yurtante@Jacobs.com
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: STC PTC
PROJECT NO.: D3608221 LOCATION: Princeton Junction
PROJECT MANAGER: Mary Murphy
e-mail: Mary.Murphy@Jacobs.com
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: Mary Murphy PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) Rush TAT (2day) 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 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☑ Level 3 (Results + QC + Raw Data) ☐ NYS ASP A ☐ NYS ASP B ☐ Other
☐ EDD FORMAT

ANALYSIS

1 TVOC (SEE METHOD 1 - SIM) 2 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 A/E 1	2	3	4	5	6	7	8	9	COMMENTS
1.	MW-14B-72-040125-SIM	GW		✓	4/1/25	1215	2	✓									
2.																	
3.																	
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

← Specify Preservatives
A-HCl D-NaOH
B-HN03 E-ICE
C-H2SO4 F-OTHER

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1.	4/1/25 1636	1. 1636 4-1-25
2.		2.
3.	4-2-25 1317	3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 2.3+0.3=2.6 °C
Comments: See work order for list of site specific VOCs
PO# 1048064311
Temp 23C (Adjusted Factor +1) IR Gun #1

Page 2 of 2
CLIENT: ☐ Hand Delivered ☐ Other
Shipment Complete ☐ YES ☐ NO

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284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1697 JACO05
Client Name : JACOBS Engineering Grou
Client Contact : John Ynfante
Invoice Name : JACOBS Engineering Grou
Invoice Contact : John Ynfante

Order Date : 4/2/2025 10:31:00 AM
Project Name : Former Schlumberger STC
Receive DateTime : 4/1/2025 6:17:00 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
Q1697-01	MW-19B-72-040125	Water	04/01/2025	12:15					
					VOCMS Group3		8260-Low		2 Bus. Days
Q1697-02	IW-01-55-040125	Water	04/01/2025	12:30					
					VOCMS Group3		8260-Low		2 Bus. Days
Q1697-03	IW-02-55-040125	Water	04/01/2025	15:05					
					VOCMS Group3		8260-Low		2 Bus. Days
Q1697-04	IW-02-55-040125-FD	Water	04/01/2025	15:10					
					VOCMS Group3		8260-Low		2 Bus. Days
Q1697-05	IW-03-55-040125	Water	04/01/2025	15:30					
					VOCMS Group3		8260-Low		2 Bus. Days
Q1697-06	TB-01-040125	Water	04/01/2025	15:50					
					VOCMS Group3		8260-Low		2 Bus. Days
~~Q1697-07~~	~~MW-19B-72-040125-SIM~~	~~Water~~	~~04/01/2025~~	~~12:15~~					
					~~VOC-TRACE-SFAM~~		~~SFAM_VOCSIM~~		~~2 Bus. Days~~

YG
04/04/2025

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1697 JACO05
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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

Relinguished By : [signature]
Date / Time : 4/2/25 1125

Received By : [signature]
Date / Time : 04/02/25 11:25 Reef 4
Storage Area : VOA Refridgerator Room